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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: June 7, 2017
Subject: Monitoring Report #18 – May 29, 2017 to June 4, 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 May 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. 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.

Summary of Activity:

Construction activities during the subject week included continuing to build the substation pad with the delivery of base rock, spreading and compaction of base rock, and Kleinfelder performing compaction testing. A water truck was used for dust control and to facilitate compaction.

Foundation work for pull boxes continued and included excavating, installing forms, installing rebar, pouring cement slurry, and stripping forms. When not completed the same day, 2x8 ramps were placed in each excavation to avoid wildlife entrapment and the excavation was surrounded by orange construction fencing.

Pier foundation holes were drilled and groundwater was pumped through a filter bag and into the Baker tank. Concrete was poured for the pier foundations and Kleinfelder performed concrete testing and monitored drilling. All holes not poured with concrete were covered at the end of the day with plywood and surrounded by sandbags to prevent wildlife entrapment.

Excavation spoils and excess material were off-hauled from the site to a designated landfill.

At the time of the CPUC EM's site visit on May 31, crews were drilling pier holes on the south side of the pad and working on the pier foundations and rebar (see Figures 1 and 2).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and nesting bird monitoring May 30 and 31, and June 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 were observed.

- Three bird nests around the perimeter of the site were monitored each day that construction activities occurred. All construction activities occurred a minimum of 30 feet from the nests. The morning of May 30, the California towhee nest was observed to be empty. No eggshells or signs of disturbance were present and the nest was intact. It is presumed that the nest was predated over the weekend, and the buffer was removed. Two Eurasian collared dove chicks were observed being fed in the nest, and chicks in the California scrub jay nest were also being fed. On June 2, only one Eurasian collared dove chick was observed in the nest; the second chick may have fledged and be in the vicinity of the nest. No construction-related disturbance to nesting birds was observed and no new nests were found.
 - Since construction activities are underway, PG&E is implementing the following requirements for nesting birds under MM B-4: “Non-special status species found building nests within the standard buffer zone *after specific project activities begin*, shall be assumed tolerant of that specific project activity and such nests will be protected by the maximum buffer practicable (as determined by the qualified biologist). However, these nests shall be monitored on a daily basis by a qualified biologist until the qualified biologist has determined that the young have fledged, are no longer dependent upon parental care, or construction ends within the buffer zone (whichever occurs first). If the qualified biologist determines that the nesting bird(s) are not tolerant of project activity, the standard buffer shall be implemented.”
2. During the morning equipment check on June 2, Hotline found the skip loader had leaked oil onto the ground overnight. The spill was contained with an absorbent pad around the hose, and the contaminated base rock – estimated to contain 0.25 – 0.50 cup of oil – was shoveled, bagged and placed in barrels on site designated for hazardous waste. The leaking hose on the equipment was repaired.
 3. On May 31, 2017, the CPUC EM observed that the silt fence on the south perimeter was ripped and pushed down in one location, and base rock pushing up against the silt fence in another location (see Figures 3 and 4). The CPUC EM pointed these issues out to the PG&E Inspector and Project Foreman and reported it to PG&E’s Environmental Inspector. On June 1, zip ties were used to repair the rip in the fence and secure it at its proper height, and the base rock was excavated away from the silt fence.
 4. Other than the issues noted above, the CPUC EM noted that the site was neat and clean, and that 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 approved by CPUC on March 30, 2017. No work under NTP #2 occurred during the subject period.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
 (Updated 6/07/17)

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.

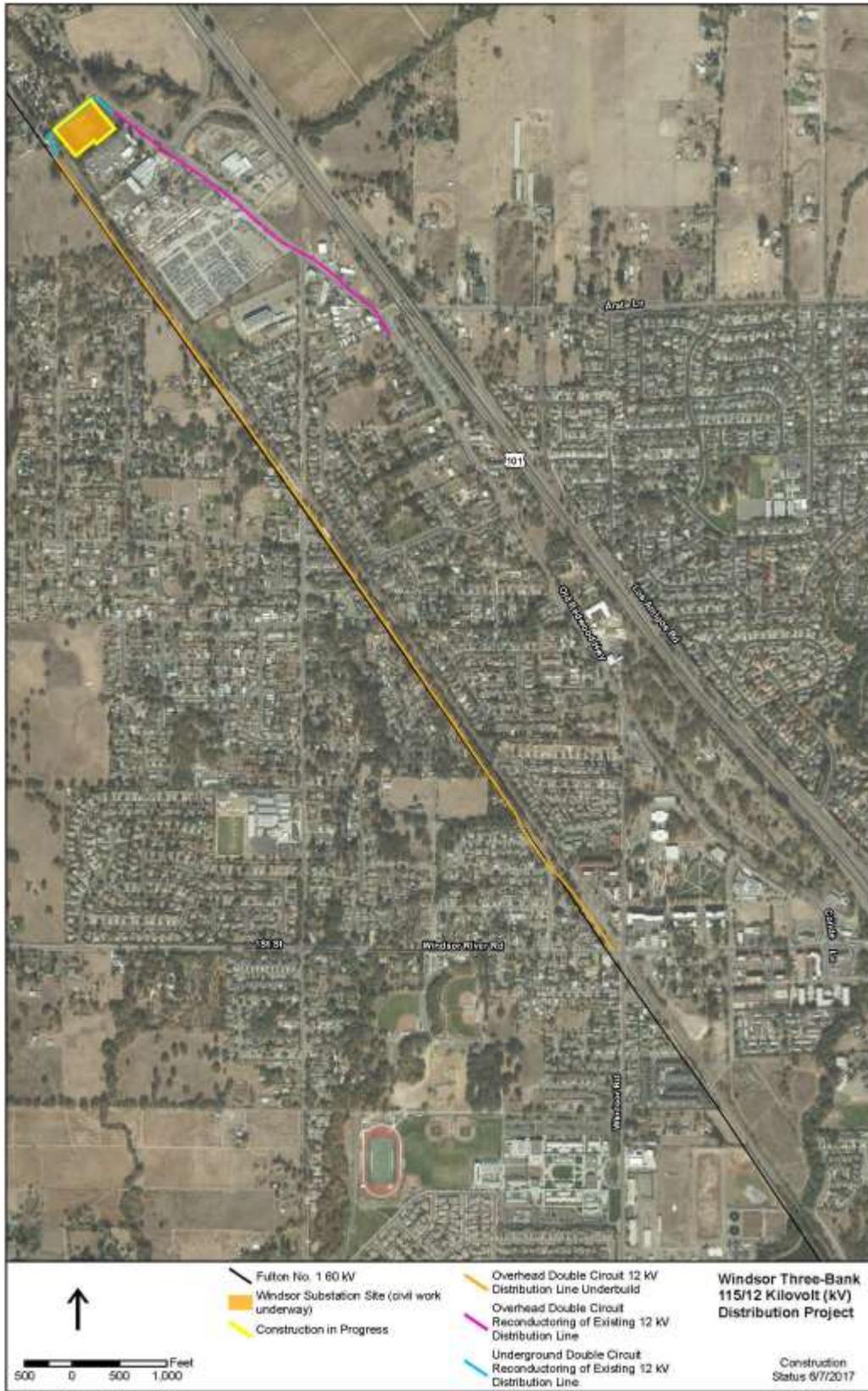
Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
 (Updated 6/07/17)

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.

EXHIBIT A – CONSTRUCTION STATUS



PROJECT PHOTOS



Figure 1 – Foundation work at substation site – view northwest, May 31, 2017.



Figure 2 – Rebar work for pier foundations on south side of substation site – view northwest, May 31, 2017.



Figure 3 – Silt fence torn and pushed down on south side of substation site – view south, May 31, 2017.



Figure 4 – Base rock pushed up against silt fence on south side of substation site – view west, May 31, 2017.