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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 12, 2017
Subject: Monitoring Report #23 – July 3, 2017 to July 9, 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 6.

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 backup in April 2017.

Summary of Activity:

Due to the July 4th holiday, construction activities were limited to July 5 thru 7. Construction activities during the subject week included final grading and compaction of base rock along the east perimeter of the substation pad. A water truck was used for dust control and to facilitate compaction. Kleinfelder performing compaction testing.

Foundation work continued for the perimeter wall piers 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.

Conduit trenches were excavated, conduit installed, and trenches backfilled and compacted. Copper wire was installed for the ground grid around foundations.

The assembly of the transformer continued, and crews continued to work inside the switchgear building.

At the time of the CPUC EM's site visit on July 6, crews were conducting foundation work, excavating, drilling holes for perimeter wall, and working on the transformer (see Figures 1 and 2).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and monitoring July 5, 6, and 7. 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. No new active nests have been observed.

- 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 issued by CPUC on March 30, 2017. Work along Old Redwood Highway began July 5, 2017.

Summary of Activity:

Construction activities during the subject week included pole work on Old Redwood Highway. On July 5, a new crew augured and set replacement pole b9 and an anchor on the west side of Old Redwood Highway just north of Starr Road (see Figure 3). On July 6, they installed a new pole (b9a) and anchor on the east side of Old Redwood Highway, directly across from pole b9 (see Figure 4). To prevent dirt spoils from entering the adjacent ditch, a straw fiber roll and gravel bags were placed around the excavation, and dirt spoils were spun from the auger into a bag and hauled offsite.

Traffic controls were conducted by the subcontractor, Parmeter.

Environmental Compliance:

- Environmental training for the new line crew was conducted for 12 new workers on July 5, prior to the commencement of construction activities.
- PG&E's EIs conducted inspections and monitoring July 5 and 6. The PG&E EI ensured that BMPs were installed properly on the east side of Old Redwood Highway at the pole installation site to protect an adjacent wetland. The PG&E EI conducted nesting bird surveys along the Old Redwood Highway alignment between poles b3 and b18. A house sparrow nest was found along the transmission line alignment; however, this is a non-native species not protected under the Migratory Bird Treaty Act. No other nests or special-status species – including bats, western pond turtle, or badger - were observed.
- The CPUC EM noted that the site was neat and clean, and that SWPPP measures were in place. The site was in compliance with mitigation measures, Applicant Proposed Measures, and other 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 7/12/17)

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.

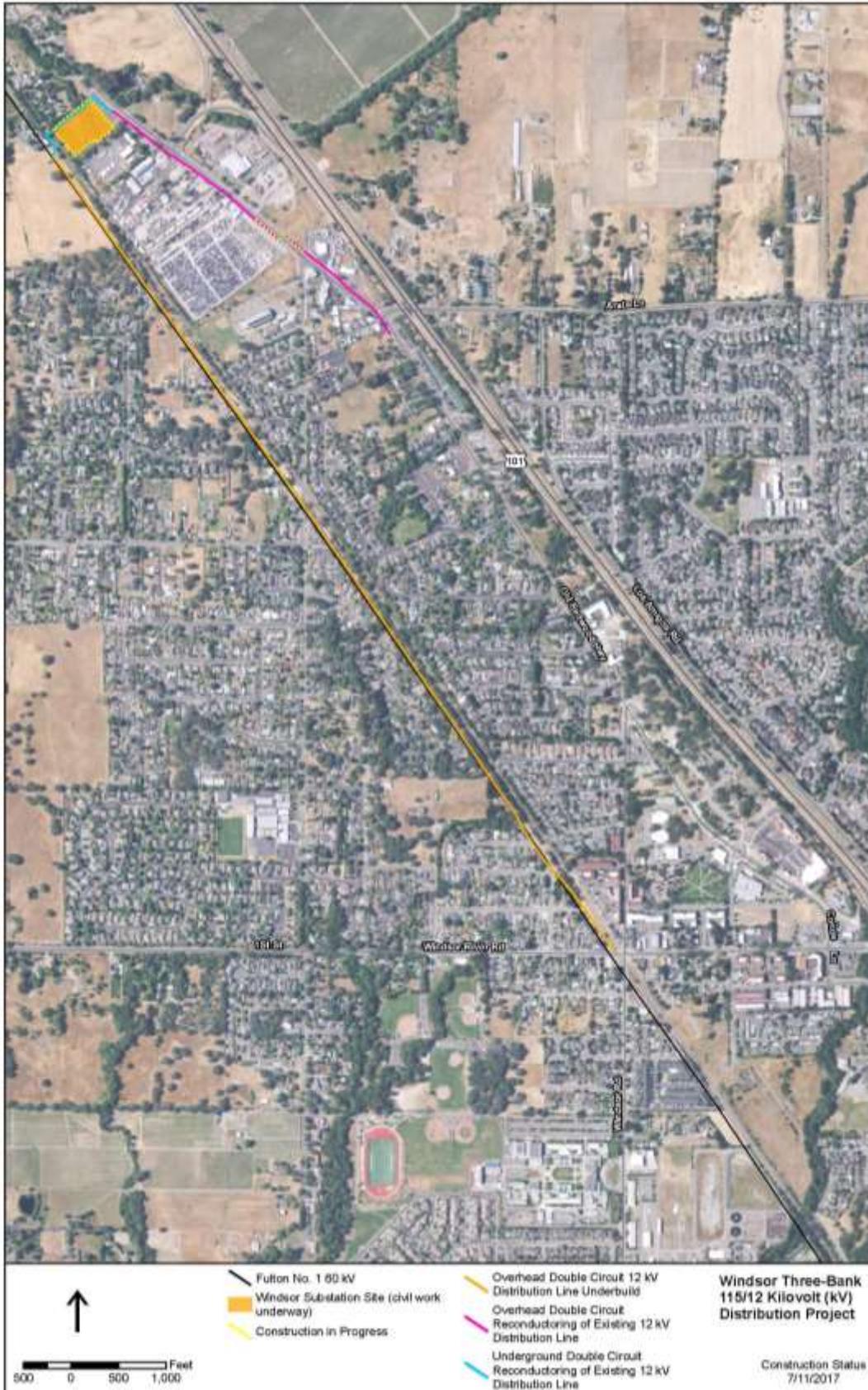
Minor Project Changes (MPCs)

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

Table 2
Minor Project Changes (MPCs)
(Updated 7/12/17)

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 – Drilling foundation holes for perimeter wall piers in northwest corner of substation – view north, July 6, 2017.



Figure 2 – Transformer and foundation work – view southeast, July 6, 2017.



Figure 3 – Replacement Pole b9 on west side of Old Redwood Highway – view west, July 6, 2017.



Figure 4 – New Pole b9a installed on east side of Old Redwood Highway – view north, July 6, 2017.