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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 22, 2017
Subject: Monitoring Report #20 – June 12, 2017 to June 18, 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 June 13.

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. Construction activities started backup in April 2017.

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 continued and included excavating and drilling, installing forms, installing rebar, pouring cement slurry, and stripping forms. Crews continued setting up foundations and drilling holes for the perimeter wall. Kleinfelder monitored drilling and compaction, and took concrete samples. Groundwater encountered at the western perimeter was pumped to the water buffalo, filtered, and used for dust control in the center of the pad. Foundation excavations were completely covered with plywood or plastic at the end of each day.

Pull boxes were excavated, installed, backfilled and compacted. 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. Crews installed conduit between foundations and pull boxes. Excavated soil was hauled off site.

The switchgear building was delivered and set on June 12, and crews were working on assembly and welding.

At the time of the CPUC EM's site visit on June 13, crews were conducting foundation work, excavating, drilling holes for perimeter fence, assembling and welding the switchgear building, and watering for dust control (see Figures 1 through 4).

Environmental Compliance:

1. PG&E's Environmental Inspectors (EIs), conducted inspections and nesting bird monitoring June 12–16. 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.
 - The one active bird nest at the substation site was monitored each day that construction activities occurred. California scrub jay nestlings in the nest along the west perimeter fence were observed being fed by adults. On June 16, two crew members set batter boards and laid out perimeter wall foundation locations within 20 feet of the nest. While the birds were not disturbed by this activity, the PG&E EI requested the crew leave the nest vicinity when the scrub jay pair began defending the nest from an unknown threat (likely a snake) at the base of the nest bush, so the pair would not be flushed. All other work was conducted a minimum of 50 feet from the scrub jay nest and no disturbance to nesting behavior from construction was observed.
 - 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. On June 5, 2017, the CPUC EM noted that the silt fence along the south perimeter that had been ripped and pushed down in one location, and base rock had been pushing up against the silt fence in another location. On June 13, the CPUC EM noted that these issues had been resolved.
3. 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. Work is expected to begin along Old Redwood Highway the beginning of July.

Environmental Compliance:

No environmental monitoring was conducted during the subject week.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
(Updated 6/22/17)

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.

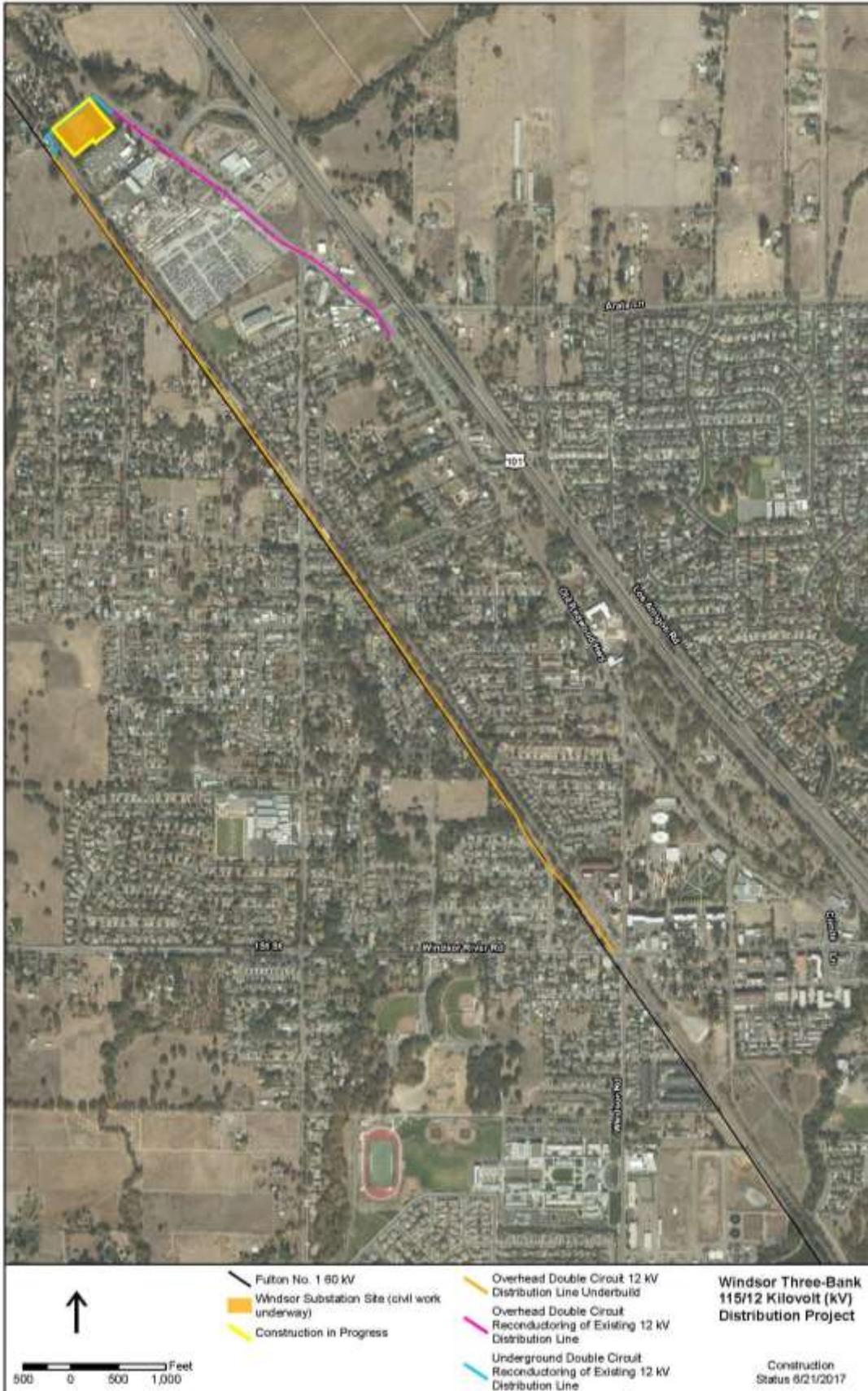
Minor Project Changes (MPCs)

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

Table 2
Minor Project Changes (MPCs)
(Updated 6/22/17)

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	UNDER REVIEW	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 – Work at substation site – view northwest, June 13, 2017.



Figure 2 – Switchgear assembly and welding – view west, June 13, 2017.



Figure 3 – Foundation work – view east, June 13, 2017.



Figure 4 – Drilling for perimeter fence on west side of substation site – view northeast, June 13, 2017.