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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: February 9, 2018
Subject: Monitoring Report #44 – January 1, 2018 to February 4, 2018

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 January 29.

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. The Substation was energized December 20, 2017; final grade, V-ditch, fencing, and landscaping work remain.

Summary of Activity:

Week of January 1 - 7

Crews worked at the Windsor Substation site Wednesday through Friday. Crews conducted grading of the substation pad, work on the ground grid, and miscellaneous house-keeping activities, including maintenance of BMPs. Remaining substation work included installation of bollards, backfill of conduit trench for pond pump and ground grid, V-ditches, and paving.

Week of January 8 - 14

Crews worked at the Windsor Substation site Monday through Friday. Construction activities throughout the week were minimal due to rain and much of the focus was on BMP maintenance and pumping stormwater (see Figure 1). Some work was conducted on the drains in the driveway entrances and ground grid work.

Week of January 15 - 21

Crews worked at the Windsor Substation site Monday through Friday. Construction activities throughout the week included testing Substation equipment, working on the drains in the driveway entrances, and pouring bollards. Work on the final grade was delayed due to wet conditions.

Week of January 22 - 28

Crews worked at the Windsor Substation site Monday through Friday. Wet weather delayed work on the final grade at the Substation site and crews focused on the drains at the driveway entrances, bollards, and V-ditch construction.

Week of January 29 – February 4

Crews worked at the Windsor Substation site Monday through Friday. Crews worked on the V-ditch along the east wall of the substation, graded around the east perimeter, off-hauled concrete spoils, and conducted fence installation along the south perimeter. Bollard locations were hand excavated adjacent to switch structures, and crews installed conduit in pull boxes.

At the time of the CPUC EM's site visit of January 29, crews were installing gravel outside of the Substation wall on the east side, and installing conduit in pull boxes within the Substation (see Figures 2 and 3).

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and monitoring on January 3, 9, 17, 23, 29, and 31. Ongoing surveys for special-status species were performed, and a nesting bird survey was conducted on January 31. No special-status species or nesting birds were observed.
2. On January 3, the PG&E EI noted track out on Herb Road near the gate to the Drew property (see Figure 4). It was uncertain if it was related to the Project and PG&E activities (equipment had been demobilized from the field) or the neighboring non-project related construction work. The PG&E Inspector confirmed street sweeping was scheduled to occur even if it was not their track out.
3. Steve Stetson (AHTNA) performed a SWPPP inspection on January 2, 3, 4, 9, 15, 16, 17, 18, 19, 22, 23, 24, and 25.
 - On January 2, two oil/fuel spills were identified in the graveled yard at the Windsor Road staging area, one of which was the result of thieves stealing fuel. On January 3, it was confirmed that the spills had been cleaned up.
 - On January 9, it was identified that a stockpile of base rock, surrounded by straw wattle, was partially uncovered.
 - On January 15 and 17, it was noted that traffic associated with home construction at the north end of Herb Road was causing track out onto the road next to the Drew property entrance.
 - On January 17, it was noted that a small amount of track out was identified at the Substation site. On January 18, it was noted that additional rock had been added to the Substation driveway entrance. On January 19, it was noted that additional 3/4-inch rock had been added to the east side of the Substation site to stabilize exposed ground.
 - On January 23, it was reported that crews were performing BMP maintenance in advance of forecasted rain. On January 24 and 25, it was reported that BMPs functioned efficiently during the storm event.
4. On January 29, the CPUC EM noted that the site was neat and clean. 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 that were not active were covered with plastic and surrounded by fiber rolls. BMPs were installed on the north side of the Substation and drainage inlets were protected with fiber rolls and gravel bags. Traffic control signs were setup along Old Redwood Highway near the Substation entrance and exit. Track out was being cleaned up as necessary. 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. Work along the Fulton No. 1 line began on September 12, 2017.

Summary of Activity:

January 1 - 28

No work occurred on the Fulton No. 1 line or along Old Redwood Highway during the subject period.

Week of January 29 – February 4

During the week, crews excavated pole holes with a vac-truck and replaced seven poles along the Fulton No. 1 alignment. The pole replacements were north of Starr Road on Wilcox Road, and north of Windsor River Road on Wild Oak Drive.

No construction activities occurred along Old Redwood Highway during the week.

At the time of the CPUC EMs site visit on January 29, crews were working on pole replacements on Wild Oak Drive and had excavated pole holes with a vac-truck on Wilcox Road (see Figure 5).

Environmental Compliance:

1. The PG&E EI conducted inspections and monitoring January 29 and 31 along the Fulton No. 1 alignment. Ongoing surveys for special-status species were performed. No special-status species were observed. Nesting bird surveys were conducted on January 29 and 31; no nests were found.
2. On January 29, the CPUC EM conducted monitoring of the pole replacement work on the Fulton No. 1 alignment. The CPUC EM noted that the work was in compliance with mitigation measures, Applicant Proposed Measures, and other permit requirements. No monitoring was conducted along Old Redwood Highway during the subject week since no construction activities occurred.

Notices to Proceed (NTPs)

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

Table 1
Notice to Proceeds (NTPs)

(Updated 2/09/18)

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.

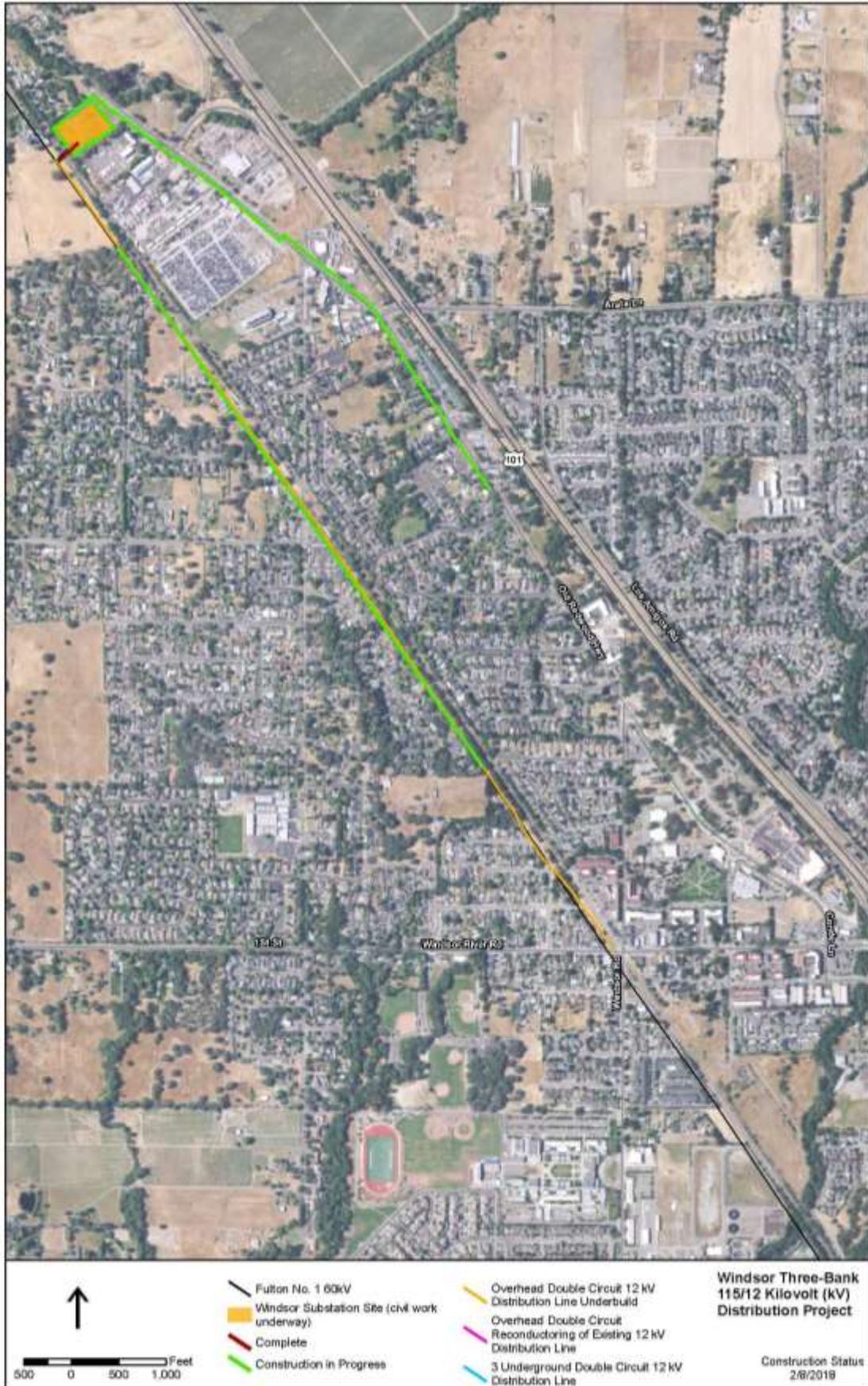
Minor Project Changes (MPCs)

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

Table 2
Minor Project Changes (MPCs)
 (Updated 2/09/18)

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.
MPC #10 REVISED	8/15/17	9/12/17	Additional Staging Area	Additional temporary staging area at southeast corner of Windsor River Road and Windsor Road in Windsor.
MPC #11	2/01/18	2/07/18	Reconductoring & 12 kV Line Underbuild	Increase the height of pole a35 on the Fulton No. 1 60 kV line for clearance purposes.

EXHIBIT A – CONSTRUCTION STATUS



PROJECT PHOTOS



Figure 1 – Windsor Substation site with V-ditch in foreground – view north, January 9, 2018. Photo courtesy of PG&E.



Figure 2 – Installing gravel outside Substation wall on east side – view north, January 29, 2018.



Figure 3 – Crews installing conduit in pull boxes within Substation – view west, January 29, 2018.



Figure 4 – Track-out on Herb Road access to Drew property – view north, January 3, 2018. Photo courtesy of PG&E.



Figure 5 – Crew installing pole on Wild Oak Drive – view northwest, January 29, 2018.