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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: December 13, 2017
Subject: Monitoring Report #41 – November 20, 2017 to December 10, 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 December 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 back up in April 2017.

Summary of Activity:

Week of November 20–26

Limited construction activities occurred at the substation site November 20-22, and no work occurred on November 23 and 24 due to the Thanksgiving holiday. Grading work was conducted along the south perimeter of the substation pad and a pull box was re-installed. Water was pumped from the pull box excavations into the SPCC pond, and a filter bag was placed at the entrance of the SPCC pond outlet.

Week of November 27–December 3

Crews worked at the Windsor Substation site Monday through Sunday. Crews worked on excavating conduit trenches on the east side of the SPCC pond and installed conduit in trenches on the northwest side of the Substation. Grading of the Substation pad was conducted on the south perimeter in preparation for fence installation. Accumulated storm water was pumped from the pull box excavations into the SPCC pond. PG&E General Construction (GC) crews worked on the dead-end switches and in the switchgear building.

Week of December 4–10

Crews worked at the Windsor Substation site Monday through Sunday. Crews completed conduit installation at the pull boxes; backfilled trenches on the northwest side of the substation; poured slurry at the pull boxes; off-hauled soil; and graded, framed, and poured concrete in V-diches. PG&E GC crews worked on the dead-end switches and in the switchgear building.

At the time of the CPUC EM's site visit on December 6, crews were working on conduit installation to the pull boxes on the east side of the SPCC pond, forming cement V-ditches on the north side of the substation site, preparing soil for off-haul, and PG&E GC crews were working on dead-end switches and in the switchgear building (see Figures 1 through 3)

Environmental Compliance:

1. PG&E's Environmental Inspector (EI), conducted inspections and monitoring on November 20, 27, 28, and December 5–9. Ongoing surveys for special-status species were performed. No special-status species were observed.
2. SWPPP inspections were performed by Steve Stetson on November 20, 22, 27, and December 5.
 - Additional BMPs were added along the northern perimeter on November 21, and it was noted that erosion control would be needed at the northeast and northwest corners within 10 days (if the area remained inactive).
 - On November 27, it was noted that exposed ground outside of the northwest wall should have erosion control (if not an area of active construction).
3. 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. 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:

Week of November 20–26

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

Week of November 27–December 3

On November 27 and 28, a Northwestern Pacific Railroad crew used an excavator to travel along the tracks to bring the poles from the laydown yard at the corner of Windsor River Road and Windsor Road, and stage them adjacent to the tracks and the Fulton No. 1 line. The PG&E line crews installed temporary disconnects at poles a10 and a17 (Wilcox Road, north of Starr Road) to prepare for a clearance on November 29; however, when crews began excavating the first of the holes (at pole a15) a hard pan layer was encountered at 3 feet and the effort was abandoned. The partially excavated hole was covered with gravel bags. The clearance of November 29 was canceled and a new schedule for pole replacements along Wilcox Road has yet to be determined.

No work occurred along Old Redwood Highway during the subject week.

Week of December 4–10

Construction activities along the Fulton No. 1 alignment during the subject week focused on the tubular steel pole (TSP) foundation installation. Mats were placed along the access route to the TSP location in

the field west of the substation site to enable equipment to travel over soft wet ground. The mats were installed within 50 feet of the perimeter fence, as required by the landowner, but well away from the vernal pools straddling the southern fence line and Kerry Preserve. Drilling the TSP foundation hole was conducted on December 6 to approximately 22 feet and no groundwater encountered. Excavated soil was stockpiled at the site on top of plastic sheeting prior to off-haul. At the end of the work day, the excavation was completely covered with plywood, dirt was mounded around the sides to exclude wildlife, and the excavation was fenced. The following day, December 7, the rebar cage and bolt pattern were set and concrete was poured for the foundation. Kleinfelder took concrete samples. The TSP sections and materials were staged adjacent to the foundation. Line trucks were used to work at the two poles adjacent to the TSP location, reconfiguring the set ups on the poles to spread the distribution lines apart. The HDD underground conduit was excavated, exposed, and cut where additional conduit will be installed. The excavation was then backfilled.

On December 5, the PG&E line crew pulled in new conductor from the substation to the underground crossing along Old Redwood Highway north of Starr Road. Traffic controls were in place to direct traffic.

At the time of the CPUC EMs site visit on December 6, drilling for the TSP foundation was taking place in the field west of the substation (see Figures 4 and 5).

Environmental Compliance:

1. The PG&E EI did not conduct inspections or monitoring along Old Redwood Highway or the Fulton No. 1 line during the week of November 20–6 since no work occurred.
2. The PG&E EI conducted inspections and monitoring along the Fulton No. 1 line on November 27 and 28. She accompanied the PG&E crew foreman while he marked locations to stage new poles along the railroad tracks for replacement (via crane) of poles a21–a27, which is scheduled to occur December 17–19. Ongoing surveys for special-status species were performed. No special-status species were observed. No compliance issues were noted.
3. The PG&E EI conducted inspections and monitoring December 5–9 along the Fulton No. 1 alignment. Ongoing surveys for special-status species were performed. No special-status species were observed. No compliance issues were noted.
4. The CPUC EM conducted monitoring of the TSP drilling work on December 6. 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 were occurred except on December 5.

Notices to Proceed (NTPs)

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

Table 1
Notice to Proceeds (NTPs)
(Updated 12/13/17)

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 (MPCs) submitted for the Windsor Substation Project.

Table 2
Minor Project Changes (MPCs)
 (Updated 12/13/17)

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.
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.

PROJECT PHOTOS



Figure 1 – Conduit installation to the pull boxes on the east side of the SPCC pond – view north, December 6, 2017.

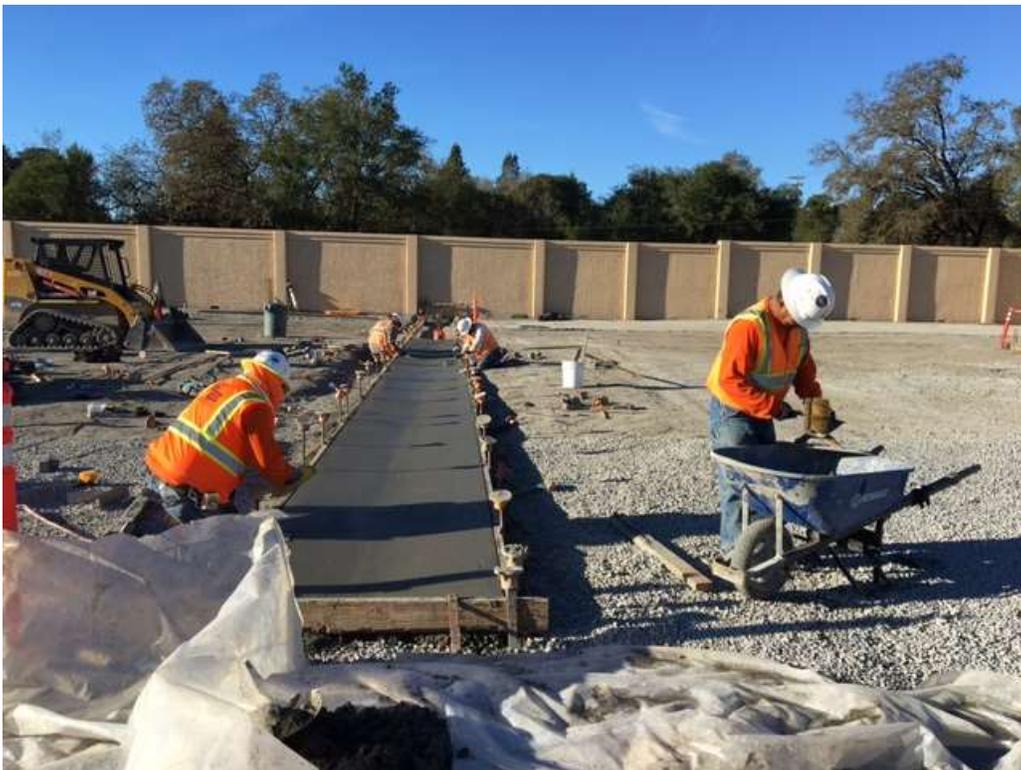


Figure 2 – Forming cement V-ditches on the north side of the substation – view north, December 6, 2017.



Figure 3 – Crews working on dead-end switches – view north, December 6, 2017.



Figure 4 – Drilling for TSP in field west of substation site - view southeast, December 6, 2017.



Figure 5 – Matting for equipment and vehicles to drive on to TSP location in field west of substation site - view north, December 6, 2017.