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PROJECT MEMORANDUM
PG&E WINDSOR SUBSTATION PROJECT

To: Eric Chiang, Project Manager, CPUC
From: Vida Strong, Aspen Project Manager
Date: January 5, 2017
Subject: Monitoring Report #4 – December 19, 2016 to January 1, 2017

This report provides a summary of the construction and compliance activities associated with the PG&E Windsor Substation Project.

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 onsite December 20th, 22nd, 23rd and 28th

CPUC NTPs

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.

Summary of Activity:

Week of December 19 - 25
Construction activities occurred Monday through Friday and included excavating and bulldozing soil from the central work area and stockpiling. Mirafi fabric was laid in the central trench area and engineered rock fill was spread and compacted on top. Kleinfelder performed compaction testing. All stockpiles were covered with plastic at the end of the day. Addition fiber rolls and gravel/sand bags were added to the BMPs along the northern fence line.

The site continued to be saturated with areas of ponded water. A second storm water retention pond adjacent to the first pond was excavated and lined with plastic (see Figure 1), and a Baker tank with secondary containment was delivered and set up adjacent to the office trailer, on the east perimeter of the substation site. Water was pumped from the central excavation and ponded areas to the storm water ponds, where suspended sediment could settle prior to water being pumped from the ponds to the drain inlet.

At the time of the CPUC EM's site visit on Tuesday, December 20th, crews were excavating and bulldozing soil from the middle of the site, and laying and compacting engineered rock in the central trench area of the site (see Figure 2). The CPUC EM discussed the recent storm event of December 15th and 16th with Kevin Risley (PG&E Environmental Field Specialist) and Casey Alver (PG&W Water Specialist) and showed them pictures of storm water flow taken during and immediately after the storm event, during which approximately 3 inches of rain was recorded. In general, BMPs were functioning well and the color of offsite flow was similar to that observed by the CPUC EM in a nearby

creek in an undisturbed area. However, there was one location along the northern perimeter where there was only one fiber roll and the offsite flow was visibly more turbid.

At the time of the CPUC EM's site visit on Thursday, December 22nd, engineered rock was being delivered to the site, and crews were placing and compacting the rock (see Figure 3). Crews were also observed sweeping the rumble plates at the entrance to the site to avoid track-out onto Old Redwood Highway. Additional BMPs had been placed on the northern side of the substation site, where off-site flow had occurred the previous week (see Figure 4).

The CPUC EM conducted a site visit of the perimeter of the substation site on Friday, December 23rd, around 2:30 pm after the rain event. Crews did not work that day due to the rain event. The CPUC EM walked along the outside of the fence on the north side of the substation and inspected BMPs and SWPPP measures (see Figure 5). No flowing water was observed going off-site other than what was draining through the drainage inlet into the unnamed ephemeral creek, which was flowing fairly clear.

Week of December 26 – January 1

Construction activities occurred Tuesday through Friday and included excavating two drain intakes and associated buried plastic pipes from the center of the substation site and backfilling the trenches with dirt. Also, the buried concrete settling tank, discovered on December 7th, was excavated and demolished, and the hole was filled in with concrete slurry. Additional buried PVC pipes were excavated and the trenches backfilled and compacted. Stockpiled dirt was off-hauled to Keller Canyon Landfill near Pittsburg in Contra Costa County. Loads of base rock were delivered and used to backfill trenches and excavations. Rock was also delivered and spread over the Mirafi fabric, and along truck routes. Approximately two-thirds of the yard is now stabilized with Mirafi and base rock.

On December 27th, a second Baker tank was delivered and staged along the north fence line. Non-turbid water from the rock lined central excavation was pumped over gravel and into a drain inlet. Turbid water from muddy areas was pumped into the storm water retention pond. When at capacity, water from the storm water retention pond was pumped into the Baker tanks.

At the time of the CPUC EM site visit on December 28th, base rock was being delivered, and backfilling and compacting of base rock was occurring throughout the substation site (see Figure 6).

Environmental Compliance:

1. On December 22, 2016, PG&E submitted a request to the CPUC to reduce the frequency of biological monitoring at the substation site until more frequent monitoring is needed. Applicant Proposed Measure (APM) BIO-5 and Mitigation Measure (MM) B-1 require a biological monitor to be on-site during grading, installation of silt fence around the substation site, and construction activities near sensitive resources. MM B-1 also states that "if appropriate (based on the phase and location of construction activities), PG&E may request that the CPUC allow less frequent monitoring." As of the week of December 19th, clearing and grading had been completed, and the crews were proceeding to install geotextile fabric and imported fill for the substation pad. This work does not involve construction activities near sensitive resources as silt fence is in place to protect adjacent wetland areas. PG&E proposed that the biological monitor be on-site for a portion of the first day of the week (e.g. Monday, or Tuesday if a holiday) to attend the tailboard meeting discussing the upcoming work for the week, and on days that the CPUC EM performs inspections. The biological monitor would also be on-site on any day new crew members require environmental training. This schedule of less frequent monitoring at the substation site would also fulfill monitoring requirements with respect to nesting birds (MM B-4), under which the nesting bird survey methodology developed in consultation with California Department of Fish and

Wildlife (CDFW) specified that during the nesting season (February 1 through September 15), the monitoring biologist will conduct, at a minimum, weekly nesting surveys in areas of active construction. The CPUC approved the request for reduced biological monitoring on December 27, 2016.

2. PG&E's Environmental Inspector (EI), Vicki Trabold, was onsite December 19th through 23rd, and December 27th and 28th and monitored construction activities. No compliance issues were noted.
3. The PG&E EI observed a Cooper's hawk flying over the site on three occasions. No other special-status species were observed and no wetlands were impacted. Environmental training was given to two Hotline crew members.
4. A SWPPP inspection by Steve Stetson (AHTNA) was performed December 22nd and 27th.
5. Traffic warning signs for construction were staged on Old Redwood Highway during work activities.
6. On December 20th, the CPUC EM noted that two generators had inadequate secondary containment. This issue was rectified by the following site visit on December 22nd.
7. The CPUC EM observed that the site was neat and clean, and that additional SWPPP measures were installed along the northern perimeter of the site by December 22nd. 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. All observed work activities were in compliance with mitigation measures (MMs), Applicant Proposed Measures (APMs), and other permit requirements.

12 kV Distribution Line Underbuild and Reconductoring Work

The request for NTP #2 for the 12 kV distribution line underbuild and reconductoring work is expected to be submitted to the CPUC in January or February 2017.

Notices to Proceed

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

Table 1
Notice to Proceeds (NTPs)
(Updated 1/05/17)

NTP #	Date Requested	Date Issued	Phase	Description
NTP #1	5/17/16	6/15/16	Windsor Substation	Windsor Substation component of the Project.
	To be Submitted		12 kV Line Underbuild & Reconductoring	

Minor Project Changes

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

Table 2
Minor Project Changes (MPCs)
(Updated 1/05/17)

MPC #	Date Requested	Date Issued	Phase	Description
MPC #1	5/17/16	6/15/16	Configuration of the SPCC Pond and Stormwater Flow	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	Use of Water Truck or Driwater Pods	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	Replacement of Culverts	Replacement of culverts in existing roadways entering substation site and Herb Lane. MPC #3 incorporated into NTP #1.

PROJECT PHOTOS

Figure 1 – A second storm water retention pond was constructed on the western side of the substation site adjacent to the first pond, December 20, 2016.

Figure 2 – Excavating from the central area of the substation site, December 20, 2016.

Figure 3 – Rock being delivered and compacted at the substation site, December 22, 2016.

Figure 4 – Additional BMPs were installed on the northern side of the substation site, December 22, 2016.

Figure 5 – Northern perimeter of site after storm event, December 23, 2016.

Figure 6 – Rock was delivered to substation site and compacted, December 28, 2016.