



ecology and environment, inc.

Global Environmental Specialists

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December 13, 2018

Billie Blanchard
Project Manager
California Public Utilities Commission
505 Van Ness Avenue
San Francisco, CA 94102

Re: Monthly Report Summary #1 for the Sanger Substation Expansion Project

Dear Ms. Blanchard,

Construction for the Sanger Substation Expansion Project began on November 5, 2018. This report provides a summary of the compliance monitoring activities that occurred during the period from **November 5 to 30, 2018**, for the Sanger Substation Expansion Project in Fresno County, California. Compliance monitoring was performed to ensure that all project-related activities conducted by Pacific Gas & Electric (PG&E) and their contractors comply with the requirements of the Final Initial Study/Mitigated Negative Declaration (Final IS/MND) for the Sanger Substation Expansion Project, as adopted by the California Public Utilities Commission (CPUC) on July 13, 2017.

Table 1 summarizes CPUC-approved Notice to Proceed (NTP) activities to-date for the Sanger Substation Expansion Project, based on activities proposed in PG&E's Notice to Proceed Requests (NTPRs).

Table 1 CPUC-approved NTP Activities for the Sanger Substation Expansion Project

NTP#	Final NTPR Submittal Date	CPUC NTP Issuance Date	Description of Approved Activities
NTP #1	11/1/2018	11/2/2018	Work within both the existing Sanger Substation footprint and the expansion area, including laydown/staging area setup; installation of access driveways, fencing, foundations, substation equipment, and a microwave tower; and installation of two antenna dishes at an offsite location (Fence Meadow Repeater Station).

During November 2018, the CPUC approved Minor Project Refinement No. 003: Well Water for Dust Control (MPR #3). Table 2 summarizes all CPUC-approved Minor Project Refinements (MPRs) to-date for the Sanger Substation Expansion Project.

Table 2 CPUC-approved MPRs for the Sanger Substation Expansion Project

MPR#	Final MPR Submittal Date	CPUC MPR Approval Date	Description of Minor Project Refinement
MPR #001	5/24/2018	6/12/2018	Minor modifications to the placement and types of poles in the "power line reconfiguration" project component to suit engineering refinements that were made after Final IS/MND approval. The modifications would occur approximately 2,100 feet west, 750 feet

			east, and 165 feet south of the existing Sanger Substation footprint. In total, there would be modifications to seven poles.
MPR #002	7/17/2018	7/20/2018	An additional temporary laydown yard/staging area (approximately 974'x112') located north of the retention basin, running north between the western boundary of the substation expansion area and the western boundary of the existing Sanger Substation footprint. This area is owned in fee title by PG&E.
MPR #003	11/13/2018	11/14/2018	Use of an existing water well approximately 100 feet north of approved NTP #1 work areas, within the same parcel as the Sanger Substation Expansion Footprint. PG&E has obtained permission from the landowner to use this well for a specified timeframe. PG&E will access the well pump by foot, and will obtain water from this well for dust control purposes. MPR #3 adds no additional ground disturbance to the existing disturbance footprint, other than impacts from light foot traffic and temporary ground placement of a water hose.

Project Compliance Incidents

Onsite compliance monitoring by the Ecology and Environment, Inc. (E & E) compliance team during this reporting period focused on spot-checks of ongoing construction activities. Compliance Monitors Ben Arax, Danielle Gutierrez, and Evan Studley, who visited the Sanger Substation construction site on **November 5, 8, 19, and 26, 2018**. CPUC Compliance Monitoring Reports that summarize observed construction activities and compliance events and verify mitigation measures (MMs) and applicant proposed measures (APMs) were completed for the site visits. These reports are attached below (Attachment 1).

Overall, the Sanger Substation Project has maintained compliance with the Mitigation Monitoring, Compliance, and Reporting Program's (MMCRP) Compliance Plan. Communication between the CPUC/E & E compliance team and PG&E has been regular and effective; the correspondence discussed and documented compliance events, upcoming compliance-related surveys and deliverables, and the construction schedule. Agency calls between the CPUC/E & E and PG&E, along with daily schedule updates and database notifications, provided additional compliance information and construction summaries. Furthermore, PG&E's weekly compliance status reports provided a compliance summary, a description of construction activities that occurred each week, a summary of compliance with MMCRP conditions (MMs/APMs) for biological, cultural and paleontological resources; the Storm Water Pollution Prevention Plan (SWPPP); noise and traffic control; onsite hazards; and the Worker Environmental Awareness Program (WEAP), as well as any non-compliance issues and resolutions, and public complaints and notifications.

Compliance Incidents and Minor Compliance Observations

During the November 2018 reporting period, PG&E did not self-report any compliance incidents. The CPUC Compliance Monitor reported the following minor compliance issue during this timeframe. This issue was not identified to require further action as a Non-Compliance.

- On November 26, 2018, the CPUC Compliance Monitors observed that the riprap installed on the southeast corner of the Project site at the McCall Avenue driveway ingress consisted of relatively large rocks with damp soil compacted between the gaps. The CPUC Compliance Team noticed that this presented a potential for soil track-outs onto McCall Avenue, as well as a potential safety concern if traffic kicks up the large rocks. PG&E promptly modified the driveway entrance to

minimize these potential compliance and safety risks. This issue was not determined to require further compliance actions.


Noise Compliance

During the November 2018 reporting period, there were no exceedances of the stipulated noise levels.

Public Concerns

There were no public concerns during November 2018.

Sincerely,



Iija Nieuwenhuizen
Project Manager, Ecology and Environment, Inc.

cc:

Michael Calvillo, PG&E
Carie Montero, Parsons
Lincoln Allen, SWCA

ATTACHMENT 1

CPUC Compliance Monitoring Reports

November 5, 8, 19, and 26, 2018



Sanger Substation Expansion Project CPUC Compliance Monitoring Report

Project Proponent	PG&E	Report No.	CPUC-BA-110518
Lead Agency	California Public Utilities Commission	Date (mm/dd/yy)	11/05/18
CPUC Project Manager	Billie Blanchard	Monitor(s)	Ben Arax
CPUC (E & E) Monitoring Manager	Ilja Nieuwenhuizen	AM/PM Weather	Clear, 45° F
CPUC (E & E) Monitoring Supervisor	Aileen Cole	Start/Endtime	7:45 AM-9:30 AM
Project NTP(s)	NTP #1		

SITE INSPECTION CHECKLIST *(Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)*

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all on-site personnel (e.g., construction workers, managers, inspectors, monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed, in accordance with the project's SWPPP?			X
Are erosion and sediment control measures (BMPs) installed correctly (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways?	X		
Is dust control being implemented, in accordance with the Dust Control Plan (e.g., access roads watered, haul trucks covered, dirt piles are covered with tarps, pull-outs and streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?			X
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are vehicles maintaining speed limits: 15 mph on unpaved roads/10 mph off-road?	X		
Are observed vehicles/equipment arriving onsite clean of sediment/mud and noxious weeds or other plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		

Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources, as appropriate?			X
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are trenches/excavations covered at night, or when not possible, are wildlife escape ramps installed, constructed of earth fill or wooden planks no less than 10 inches wide?			X
Biology	Yes	No	N/A
Have required preconstruction surveys been completed for biological resources (special status species, raptors and other nesting birds, burrowing owls, San Joaquin kit fox), as appropriate?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, appropriate buffer distance enacted)?	X		
Is project complying with biological monitoring requirements (e.g., if required, are monitors present)?	X		
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts on these features (e.g., is the refueling/maintenance buffer in place within 100 feet of the irrigation ditch)?	X		
Has wildlife (sensitive species or not) been relocated from work areas? If yes, describe below.		X	
Have impacts occurred on adjacent habitat (sensitive or not sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are appropriate buffers/exclusion zones for identified sensitive cultural/paleo resources (e.g. cultural sites) clearly marked and being maintained?			X
Is the project in compliance with cultural/archaeological monitoring requirements (e.g., if required, are monitors present)?	X		
Is the project in compliance with paleontological monitoring requirements (e.g., if required, are monitors present)?	X		
Have there been any work stoppages for potential archaeological, cultural, or paleontological resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on-site properly managed?			X
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place, and no crew members, managers, or monitors are smoking onsite?	X		

Are contaminated soils properly managed for onsite storage or offsite disposal?			X
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved work hours?	X		
Are required noise control measures in place?			X

<p>AREAS MONITORED Project areas on and near the substation expansion footprint, existing substation, and the temporary laydown/staging area.</p>
<p>DESCRIPTION OF OBSERVED ACTIVITIES 6:50 AM – Arrived on-site and met with Jeff Clarkson (PG&E Senior Civil Inspector), discussed WEAP training time.</p> <p>7:45 AM - Met with Chennie Castañon (PG&E EI) and discussed events happening on-site for the day (e.g., WEAP training, bringing in BMP materials this week).</p> <p>7:55 AM - Met with Warren Frank (PG&E Construction Lead). Spoke with him about when WEAP training on site occurs.</p> <p>8:00 AM- Attended WEAP training; approximately 25 people were trained on site (see photo 1), (MM BIO-1, APM PAL-1, MM CUL-2, APM GHG-1, APM HAZ-3, MM HAZ-1, MM HAZ-2).</p> <p>9:25 AM - Ground disturbing activities have not started (see photo 2). Spoke to Chennie Castañon about dates for project boundary delineation and initial ground disturbance. Currently, ground disturbance is projected to start Monday November 12. Erosion control/SWPPP BMP materials (wattles, rumble plates, etc.) were stored (not installed) within the existing substation fence (see photo 3).</p> <p>9:30 AM - Left Project site.</p>
<p>MITIGATION MEASURES VERIFIED All project personnel appear to have been WEAP trained (MM BIO-1, APM PAL-1, MM CUL-2, APM GHG-1, APM HAZ-3, MM HAZ-1, MM HAZ-2).</p> <p>See additional APMs and MMs listed in the description of observed activities section.</p>
<p>RECOMMENDED FOLLOW-UP None</p>
<p>COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS None</p>
<p>COMPLIANCE SUMMARY Below please describe any Compliance Incidents (Level 1, 2, or 3) that have occurred since your last visit. If you observe a compliance issue in the field, please note this on this monitoring form. In addition, Level 1, 2 or 3 Compliance Incidents, fill out and submit a separate Compliance Incident Report Form.</p>

- Level 0 Acceptable.** *(no compliance incidents)*
- Level 1: Minor Problem.** An event or observation that slightly deviates from project requirements, but does not put a resource at unpermitted risk. If you checked this box, describe the incident below and fill out a separate Compliance Incident Form.
- Level 2: Compliance Deviation.** An event or observation that deviates from project requirements and puts a resource at risk, or shows a trend toward placing resources at risk, but is corrected without affecting the resource. Repeated Level 1 Minor Problems left unaddressed may also rise to a Level 2 Compliance Deviation. If box is checked, summarize below and fill out a separate Compliance Incident Form.
- Level 3: Non-Compliance.** An event or observation that violates project requirements and affects a resource. Repeated Level 2 Compliance Deviations left unaddressed may also rise to a Level 3 Incident. An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the MMCRP applicant proposed measures (APMs) or mitigation measures (MMs), permit conditions, or approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. If box is checked, summarize below and fill out a separate Compliance Incident Form.

Compliance Incidents reported by PG&E's Compliance Team

- PG&E's Compliance Team reported Compliance Incidents since last CPUC Compliance Monitor visit. If boxed checked, describe issues and resolution status below.

Description:
N/A

New Sensitive Resources



- New biological, environmental, cultural/archaeological, or paleontological discovery requiring compliance with mitigation measures, permit conditions, etc., has occurred since last CPUC Compliance Monitoring visit. If checked, please describe the new discoveries and documentation/verification below.

Description:
N/A

Date	Level	Compliance Incident and Resolution	Relevant Mitigation Measure	Corresponding Level 1, 2, or 3 Report #

PREVIOUS COMPLIANCE INCIDENTS OR ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

N/A

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	Photo	Description
11/05/18	Southern edge substation expansion footprint		Photo 1 - Crew at the on-site WEAP training. Photo facing west.
11/05/18	Southern part of substation expansion footprint		Photo 2 - The substation expansion footprint; ground disturbing activities have not started. Photo facing north.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	Photo	Description
11/05/18	Northern fence of existing substation site		Photo 3 - The existing substation footprint with SWPPP BMP materials staged (not installed). Photo facing northeast.

Completed by:	Ben Arax
Firm:	Soar Environmental Consulting
Date:	11/07/18
Reviewed by:	Patrick Sauls
Firm:	Soar Environmental Consulting
Date:	11/08/18



Sanger Substation Expansion Project CPUC Compliance Monitoring Report

Project Proponent	PG&E	Report No.	CPUC-BA-110818
Lead Agency	California Public Utilities Commission	Date (mm/dd/yy)	11/08/18
CPUC Project Manager	Billie Blanchard	Monitor(s)	Ben Arax, Evan Studley
CPUC (E & E) Monitoring Manager	Ilja Nieuwenhuizen	AM/PM Weather	Clear, 55° F, wind 5mph
CPUC (E & E) Monitoring Supervisor	Aileen Cole	Start/Endtime	8:00 AM- 8:50 AM
Project NTP(s)	NTP #1		

SITE INSPECTION CHECKLIST *(Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)*

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all on-site personnel (e.g., construction workers, managers, inspectors, monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed, in accordance with the project's SWPPP?			X
Are erosion and sediment control measures (BMPs) installed correctly (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways?	X		
Is dust control being implemented, in accordance with the Dust Control Plan (e.g., access roads watered, haul trucks covered, dirt piles are covered with tarps, pull-outs and streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?			X
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are vehicles maintaining speed limits: 15 mph on unpaved roads/10 mph off-road?	X		
Are observed vehicles/equipment arriving onsite clean of sediment/mud and noxious weeds or other plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		

Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources, as appropriate?			X
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are trenches/excavations covered at night, or when not possible, are wildlife escape ramps installed, constructed of earth fill or wooden planks no less than 10 inches wide?			X
Biology	Yes	No	N/A
Have required preconstruction surveys been completed for biological resources (special status species, raptors and other nesting birds, burrowing owls, San Joaquin kit fox), as appropriate?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, appropriate buffer distance enacted)?	X		
Is project complying with biological monitoring requirements (e.g., if required, are monitors present)?	X		
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts on these features (e.g., is the refueling/maintenance buffer in place within 100 feet of the irrigation ditch)?	X		
Has wildlife (sensitive species or not) been relocated from work areas? If yes, describe below.		X	
Have impacts occurred on adjacent habitat (sensitive or not sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are appropriate buffers/exclusion zones for identified sensitive cultural/paleo resources (e.g. cultural sites) clearly marked and being maintained?			X
Is the project in compliance with cultural/archaeological monitoring requirements (e.g., if required, are monitors present)?	X		
Is the project in compliance with paleontological monitoring requirements (e.g., if required, are monitors present)?	X		
Have there been any work stoppages for potential archaeological, cultural, or paleontological resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on-site properly managed?			X
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place, and no crew members, managers, or monitors are smoking onsite?	X		

Are contaminated soils properly managed for onsite storage or offsite disposal?			X
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved work hours?	X		
Are required noise control measures in place?			X

<p>AREAS MONITORED Project areas on and near the substation expansion footprint, exiting substation, and the temporary laydown/staging area. Well north of irrigation canal.</p>
<p>DESCRIPTION OF OBSERVED ACTIVITIES 8:00 AM- I arrived on-site with Evan Studley (CPUC Compliance Monitor).</p> <p>8:15 AM- Inspected perimeter of substation expansion footprint towards McCall Avenue, then north towards the irrigation canal, then to the western edge of the expansion footprint, then south towards Jensen Avenue. Erosion control BMPs (wattles, rumble plates, etc.) are still stored within the existing substation footprint, and have not yet been installed. Ground disturbing activities have not started yet (see photo 1).</p> <p>8:25 AM- Observed old oil stains on farm road by the irrigation canal; not project-related (APM GEO-2/APM-WQ-1).</p> <p>8:30 AM- Observed site of existing water well on north side of irrigation canal, with piping leading south across canal to access road on the northern edge of the expansion footprint (see Photos 2 and 3). PG&E has requested use of well and pipe connection for water for fugitive dust mitigation (APM AIR-1); see Minor Project Refinement #3 (MPR #3).</p> <p>8:44 AM- Observed old oil stain west of the fence on west side of the existing substation; not project related (APM GEO-2/APM WQ-1).</p> <p>8:52 AM- Observed old oil stain on corner of Jensen and McCall; not project-related (APM GEO-2/APM WQ-1).</p> <p>8:55 AM- Ended inspection and left project site.</p>
<p>MITIGATION MEASURES VERIFIED All project personnel appear to have been WEAP trained (MM BIO-1, APM PAL-1, MM CUL-2, APM GHG-1, APM HAZ-3, MM HAZ-1, MM HAZ-2).</p> <p>See additional APMs and MMs listed in the description of observed activities section.</p>
<p>RECOMMENDED FOLLOW-UP N/A</p>

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS

-Minor plastic/trash was disked up on soil by farmer; not project-related.

COMPLIANCE SUMMARY Below please describe any Compliance Incidents (Level 1, 2, or 3) that have occurred since your last visit. If you observe a compliance issue in the field, please note this on this monitoring form. In addition, Level 1, 2 or 3 Compliance Incidents, fill out and submit a separate Compliance Incident Report Form.

- Level 0 Acceptable.** *(no compliance incidents)*
- Level 1: Minor Problem.** An event or observation that slightly deviates from project requirements, but does not put a resource at unpermitted risk. If you checked this box, describe the incident below and fill out a separate Compliance Incident Form.
- Level 2: Compliance Deviation.** An event or observation that deviates from project requirements and puts a resource at risk, or shows a trend toward placing resources at risk, but is corrected without affecting the resource. Repeated Level 1 Minor Problems left unaddressed may also rise to a Level 2 Compliance Deviation. If box is checked, summarize below and fill out a separate Compliance Incident Form.
- Level 3: Non-Compliance.** An event or observation that violates project requirements and affects a resource. Repeated Level 2 Compliance Deviations left unaddressed may also rise to a Level 3 Incident. An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the MMCRP applicant proposed measures (APMs) or mitigation measures (MMs), permit conditions, or approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. If box is checked, summarize below and fill out a separate Compliance Incident Form.

Compliance Incidents reported by PG&E's Compliance Team

- PG&E's Compliance Team reported Compliance Incidents since last CPUC Compliance Monitor visit. If boxed checked, describe issues and resolution status below.

Description:

New Sensitive Resources

- New biological, environmental, cultural/archaeological, or paleontological discovery requiring compliance with mitigation measures, permit conditions, etc., has occurred since last CPUC Compliance Monitoring visit. If checked, please describe the new discoveries and documentation/verification below.

Description:



N/A


Date	Level	Compliance Incident and Resolution	Relevant Mitigation Measure	Corresponding Level 1, 2, or 3 Report #

PREVIOUS COMPLIANCE INCIDENTS OR ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

N/A

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
11/08/18	Substation expansion footprint, from northwest edge.		Photo 1 – Agricultural land to be used for the substation expansion. Ground disturbing activities have not started. Photo facing south.
11/08/18	Existing well pipe across irrigation canal, 80 feet north of temporary laydown/staging area		Photo 2 - Water pump on north side of irrigation canal and pipe leading to south side of canal to a spigot. Photo facing northwest.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	Photo	Description
11/08/18	Existing footbridge across irrigation canal, 80 feet north of temporary laydown/staging area		Photo 3 – Concrete footbridge across irrigation canal, leading to existing well. Photo facing north.

Completed by:	Ben Arax
Firm:	Soar Environmental Consulting
Date:	11/08/18
Reviewed by:	Patrick Sauls
Firm:	Soar Environmental Consulting
Date:	11/08/18



Sanger Substation Expansion Project CPUC Compliance Monitoring Report

Project Proponent	PG&E	Report No.	CPUC-BA-111918
Lead Agency	California Public Utilities Commission	Date (mm/dd/yy)	11/19/18
CPUC Project Manager	Billie Blanchard	Monitor(s)	Ben Arax, Evan Studley
CPUC (E & E) Monitoring Manager	Ilja Nieuwenhuizen	AM/PM Weather	47° F, Partly cloudy, calm
CPUC (E & E) Monitoring Supervisor	Aileen Cole	Start/Endtime	9:10 AM- 10:35 AM
Project NTP(s)	NTP #1		

SITE INSPECTION CHECKLIST *(Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)*

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all on-site personnel (e.g., construction workers, managers, inspectors, monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed, in accordance with the project's SWPPP??	X		
Are erosion and sediment control measures (BMPs) installed correctly (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways?		X	
Is dust control being implemented, in accordance with the Dust Control Plan (e.g., access roads watered, haul trucks covered, dirt piles are covered with tarps, pull-outs and streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are vehicles maintaining speed limits: 15 mph on unpaved roads/10 mph off-road?	X		
Are observed vehicles/equipment arriving onsite clean of sediment/mud and noxious weeds or other plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		

Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources, as appropriate?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are trenches/excavations covered at night, or when not possible, are wildlife escape ramps installed, constructed of earth fill or wooden planks no less than 10 inches wide?			X
Biology	Yes	No	N/A
Have required preconstruction surveys been completed for biological resources (special status species, raptors and other nesting birds, burrowing owls, San Joaquin kit fox), as appropriate?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, appropriate buffer distance enacted)?	X		
Is project complying with biological monitoring requirements (e.g., if required, are monitors present)?	X		
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts on these features (e.g., is the refueling/maintenance buffer in place within 100 feet of the irrigation ditch)?	X		
Has wildlife (sensitive species or not) been relocated from work areas? If yes, describe below.		X	
Have impacts occurred on adjacent habitat (sensitive or not sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are appropriate buffers/exclusion zones for identified sensitive cultural/paleo resources (e.g. cultural sites) clearly marked and being maintained?			X
Is the project in compliance with cultural/archaeological monitoring requirements (e.g., if required, are monitors present)?	X		
Is the project in compliance with paleontological monitoring requirements (e.g., if required, are monitors present)?	X		
Have there been any work stoppages for potential archaeological, cultural, or paleontological resources? If yes, describe below.			X
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on-site properly managed?			X
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place, and no crew members, managers, or monitors are smoking onsite?	X		

Are contaminated soils properly managed for onsite storage or offsite disposal?			X
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved work hours?	X		
Are required noise control measures in place?	X		

AREAS MONITORED

Project areas on and near the substation expansion footprint, existing substation footprint (from exterior of fencing), and the temporary laydown/staging area. I also observed the water well immediately north of the irrigation canal.

DESCRIPTION OF OBSERVED ACTIVITIES

9:10 AM- Arrive on site. Observed silt fences (Photo 3), straw wattles installed around Project boundaries. Chennie Castañon (PG&E EI) stated that she plans to install high visibility flagging on silt fence stakes (MM BIO-3). I performed a pedestrian survey of the Project perimeter from McCall Avenue towards the western Project boundary, south to Jensen Avenue, then to northern Project border, then east to McCall Avenue.

9:18 AM- Met with Jeff Clarkson (PG&E Senior Civil Inspector). Jeff notified us that the main activity occurring today would be compaction of the approximately 100' by 100' pad for the water storage tank in the northwest corner of the temporary laydown/staging area, and SWPPP BMP installation (APM GEO-2/APM WQ-1). Construction equipment (Photo 1) and traffic cones (Photo 2) being delivered to site. No mud track-out was present on South McCall Avenue during the site inspection (APM AIR-1). Jeff notified us about areas for vehicle parking inside fenced substation, discussed the protocol for locking the gate during construction, and identified areas within the fenced active substation to avoid without fire rated (FR rated) PPE. Initial ground disturbance in substation expansion footprint is scheduled for next Monday, November 26, 2018.

9:27 AM- Jeff Clarkson reviewed substation safety and first aid locations with us and confirmed that all site personnel present were also given a daily safety tailboard presentation. We signed PG&E's job hazard analysis (JHA) form.

9:35 AM- Chris from AJ Excavation (the site preparation contractor) explained on-site safety, showed us where muster point is located, and gave us locations and directions to the closest first-aid facility and hospital (Clovis Community).

9:43 AM- Observed installed straw wattles along East Jensen Ave. Chennie Castañon stated that these wattles are temporary until construction of the ponding basin occurs in the southwestern portion of the project site, north of East Jensen Avenue, at which time silt fence will replace the wattles (APM GEO-2/APM WQ-1).

10:35 AM- Left Project site

MITIGATION MEASURES VERIFIED

All project personnel appear to have been WEAP trained (MM BIO-1, APM PAL-1, MM CUL-2, APM GHG-1, APM HAZ-3, MM HAZ-1, MM HAZ-2).

See additional APMs and MMs listed in the description of observed activities section.

RECOMMENDED FOLLOW-UP

Observed silt fence with potential maintenance issues. Ensure proper functionality of all BMPs after qualifying storm event expected on Wednesday and Thursday, November 21 and 22, 2018. -Jeff Clarkson mentioned that the Contractor will install track-out riprap and rumble strips this week.

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS

-Silt fence on northwestern corner of project is sagging and is detached from the top of the stake: re-attach silt fence for repair. The silt fence may require additional maintenance, especially after the qualifying storm event this week.

COMPLIANCE SUMMARY Below please describe any Compliance Incidents (Level 1, 2, or 3) that have occurred since your last visit. If you observe a compliance issue in the field, please note this on this monitoring form. In addition, Level 1, 2 or 3 Compliance Incidents, fill out and submit a separate Compliance Incident Report Form.

- Level 0 Acceptable.** (*no compliance incidents*)
- Level 1: Minor Problem.** An event or observation that slightly deviates from project requirements, but does not put a resource at unpermitted risk. If you checked this box, describe the incident below and fill out a separate Compliance Incident Form.
- Level 2: Compliance Deviation.** An event or observation that deviates from project requirements and puts a resource at risk, or shows a trend toward placing resources at risk, but is corrected without affecting the resource. Repeated Level 1 Minor Problems left unaddressed may also rise to a Level 2 Compliance Deviation. If box is checked, summarize below and fill out a separate Compliance Incident Form.
- Level 3: Non-Compliance.** An event or observation that violates project requirements and affects a resource. Repeated Level 2 Compliance Deviations left unaddressed may also rise to a Level 3 Incident. An action that deviates from project requirements and has caused, or has the potential to cause major impacts on environmental resources. These actions are not in compliance with the MMCRP applicant proposed measures (APMs) or mitigation measures (MMs), permit conditions, or approval requirements (e.g. minor project changes, notice to proceed), and/or violates local, state, or federal law. If box is checked, summarize below and fill out a separate Compliance Incident Form.

Compliance Incidents reported by PG&E's Compliance Team

- PG&E's Compliance Team reported Compliance Incidents since last CPUC Compliance Monitor visit. If boxed checked, describe issues and resolution status below.

Description: (*include PG&E's report number*)

N/A

New Sensitive Resources

New biological, environmental, cultural/archaeological, or paleontological discovery requiring compliance with mitigation measures, permit conditions, etc., has occurred since last CPUC Compliance Monitoring visit. If checked, please describe the new discoveries and documentation/verification below.

Description:

N/A

Date	Level	Compliance Incident and Resolution	Relevant Mitigation Measure	Corresponding Level 1, 2, or 3 Report #


PREVIOUS COMPLIANCE INCIDENTS OR ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:

N/A

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
11/19/18	East edge of substation expansion footprint along South McCall Avenue.		Photo 1 - Road grader being delivered to the eastern side of the Project. Photo facing southwest.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
11/19/18	Southern end of substation expansion footprint, north of the main entrance to existing substation.		Photo 2 - Construction cones for lane restriction being delivered for traffic direction on McCall Avenue and Jensen Avenue Photo facing west.
11/19/18	Substation expansion footprint, northwest corner.		Photo 3 - Silt fence is sagging and detached from the top of stake. Requires repair. Photo facing northwest.

Completed by:	Ben Arax
Firm:	Soar Environmental Consulting, Inc.

Date:	11/19/18
Reviewed by:	Evan Studley
Firm:	Soar Environmental Consulting, Inc.
Date:	11/19/18



Sanger Substation Expansion Project CPUC Compliance Monitoring Report

Project Proponent	PG&E	Report No.	CPUC-DG-112618
Lead Agency	California Public Utilities Commission	Date (mm/dd/yy)	11/26/18
CPUC Project Manager	Billie Blanchard	Monitor(s)	Danielle Gutierrez, Ben Arax, Evan Studley
CPUC (E & E) Monitoring Manager	Ilja Nieuwenhuizen	AM/PM Weather	Partly cloudy, 52° F
CPUC (E & E) Monitoring Supervisor	Aileen Cole	Start/Endtime	9:30 AM-10:30 AM
Project NTP(s)	NTP #1		

SITE INSPECTION CHECKLIST *(Based on monitor's observations during site visit; responses do not imply that monitor observed all staff, crews, and parts of the project during this inspection)*

Worker Environmental Awareness Program (WEAP) Training	Yes	No	N/A
Is the WEAP training in place and does it appear to have been completed by all on-site personnel (e.g., construction workers, managers, inspectors, monitors)?	X		
Erosion and Dust Control (Air and Water Quality)	Yes	No	N/A
Have temporary erosion and sediment control measures (BMPs) been installed, in accordance with the project's SWPPP??	X		
Are erosion and sediment control measures (BMPs) installed correctly (without apparent deficiencies) and functioning as intended during rain events?	X		
Are measures in place to avoid/minimize mud tracking onto public roadways?	X		
Is dust control being implemented, in accordance with the Dust Control Plan (e.g., access roads watered, haul trucks covered, dirt piles are covered with tarps, pull-outs and streets cleaned on a regular basis)?	X		
Are work areas being effectively watered prior to excavation or grading?	X		
Are measures in place to stabilize soils and effectively suppress fugitive dust?	X		
Equipment	Yes	No	N/A
Are vehicles maintaining speed limits: 15 mph on unpaved roads/10 mph off-road?	X		
Are observed vehicles/equipment arriving onsite clean of sediment/mud and noxious weeds or other plant debris?	X		
Are observed vehicles/equipment turned off when not in use?	X		
Work Areas	Yes	No	N/A
Is vegetation disturbance within work areas minimized?	X		

Is exclusionary fencing or flagging in place to protect sensitive biological or cultural resources, as appropriate?	X		
Are observed vehicles, equipment, and construction personnel staying within approved work areas and on approved roads?	X		
Are trenches/excavations covered at night, or when not possible, are wildlife escape ramps installed, constructed of earth fill or wooden planks no less than 10 inches wide?			X
Biology	Yes	No	N/A
Have required preconstruction surveys been completed for biological resources (special status species, raptors and other nesting birds, burrowing owls, San Joaquin kit fox), as appropriate?	X		
Are appropriate measures in place to protect sensitive habitat and/or drainages (i.e., flagging, signage, exclusion fencing, appropriate buffer distance enacted)?	X		
Is project complying with biological monitoring requirements (e.g., if required, are monitors present)?	X		
If there are wetlands or water bodies near construction activities, are adequate measures in place to avoid impacts on these features (e.g., is the refueling/maintenance buffer in place within 100 feet of the irrigation ditch)?	X		
Has wildlife (sensitive species or not) been relocated from work areas? If yes, describe below.		X	
Have impacts occurred on adjacent habitat (sensitive or not sensitive)? If yes, describe below.		X	
Did you observe any threatened or endangered species? If yes, describe below.		X	
Have there been any work stoppages for biological resources? If yes, describe below.		X	
Cultural and Paleontological Resources	Yes	No	N/A
Are appropriate buffers/exclusion zones for identified sensitive cultural/paleo resources (e.g. cultural sites) clearly marked and being maintained?			X
Is the project in compliance with cultural/archaeological monitoring requirements (e.g., if required, are monitors present)?	X		
Is the project in compliance with paleontological monitoring requirements (e.g., if required, are monitors present)?	X		
Have there been any work stoppages for potential archaeological, cultural, or paleontological resources? If yes, describe below.		X	
Hazardous Materials	Yes	No	N/A
Are hazardous materials that are stored or used on-site properly managed?			X
Are procedures in place to prevent spills and accidental releases?	X		
Are required fire prevention and control measures in place, and no crew members, managers, or monitors are smoking onsite?	X		

Are contaminated soils properly managed for onsite storage or offsite disposal?			X
Work Hours and Noise	Yes	No	N/A
Are required night lighting reduction measures in place?			X
Is construction occurring within approved work hours?	X		
Are required noise control measures in place?	X		

AREAS MONITORED

Project areas on and near the substation expansion footprint, exiting substation, and the temporary laydown/staging area. Well north of irrigation canal.

DESCRIPTION OF OBSERVED ACTIVITIES

9:30 AM- Arrive on site. Observed that riprap and rumble strips had been installed at the main construction entrance along McCall Avenue (APM AIR-1) (see Photo 1). Met with Jeff Clarkson (PG&E Senior Civil Inspector). Jeff reviewed the substation daily safety tailboard with us. We signed the Job Hazard Analysis form. Jeff notified us about the activities occurring on site today, which included preparing expansion footprint for pulverizing and compacting soil (see Photos 3 and 4). Riprap is covered with soil.

9:40 AM- Chris from AJ Excavation (Project contractor) reviewed on-site safety with us. Danielle Gutierrez signed the Project Specific Safety Plan (PSSP). Ben and Evan had already received, and signed, the PSSP.

9:50 AM- Performed pedestrian survey of the Project perimeter from McCall Ave towards western Project boundary, then south to Jensen Ave, then to the northern Project boundary, then east to McCall Ave, then south towards Jensen Ave adjacent to McCall Avenue. Silt fence was observed to be installed correctly (see Photo 7). Observed installed erosion control wattles south of Project site along Jensen Avenue (see Photo 5)(APM GEO-2/APM WQ-1) . The water tank in the temporary laydown/storage area is in use, with a drip pan in place to prevent soil beneath the water tower from eroding (see Photos 6 and 8).

10:10 AM- Chennie Castañon (PG&E EI) confirmed that biological surveys had been completed. We observed riprap and rumble strips on southeast corner of Project site, by the driveway entrance off McCall Avenue (Photo 2). The riprap consists of relatively large rocks with damp soil compacted between the gaps. We suggested (to Chennie Castañon) the use of smaller rocks to fill the gaps instead of soil, to avoid potential track-out. We also expressed our concern that close proximity to the road deck of rocks of this size could pose a safety hazard with passing traffic (from kicked up rocks). Chennie Castañon notified us that the current riprap would likely be replaced with an alternative (smaller diameter) riprap, and that she will look into other measures to address this issue. Resolution forthcoming.

10:20 AM- Jeff Clarkson showed us to the trailer to review the Stormwater Pollution Prevention Plan (SWPPP) documents. Soar Environmental staff confirmed the pre-storm inspection form had been completed and was present in the SWPPP binder.

10:25 AM- The Project site Qualified Stormwater Practitioner (QSP) confirmed that both during-storm and post-storm event inspections forms were being completed today.

10:30 AM- Left Project site.

MITIGATION MEASURES VERIFIED

All project personnel appear to have been WEAP trained (MM BIO-1, APM PAL-1, MM CUL-2, APM GHG-1, APM HAZ-3, MM HAZ-1, MM HAZ-2).

See additional APMs and MMs listed in the description of observed activities section.

RECOMMENDED FOLLOW-UP

-follow-up on use of riprap consisting of relatively large, angular rocks near the driveway entrance

COMPLIANCE SUGGESTIONS OR ADDITIONAL OBSERVATIONS

- Suggest using smaller diameter riprap/gravel at driveway entrance.
- Riprap at driveway entrance consists of relatively large rocks with damp soil compacted between the gaps. Suggest smaller rocks to fill the gaps instead of soil to prevent potential track-out.

COMPLIANCE SUMMARY Below please describe any Compliance Incidents (Level 1, 2, or 3) that have occurred since your last visit. If you observe a compliance issue in the field, please note this on this monitoring form. In addition, Level 1, 2 or 3 Compliance Incidents, fill out and submit a separate Compliance Incident Report Form.

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Compliance Incidents reported by PG&E's Compliance Team

- PG&E's Compliance Team reported Compliance Incidents since last CPUC Compliance Monitor visit. If boxed checked, describe issues and resolution status below.

Description: (*include PG&E's report number*)

N/A

New Sensitive Resources

- New biological, environmental, cultural/archaeological, or paleontological discovery requiring compliance with mitigation measures, permit conditions, etc., has occurred since last CPUC Compliance Monitoring visit. If checked, please describe the new discoveries and documentation/verification below.

Description:

N/A

Date	Level	Compliance Incident and Resolution	Relevant Mitigation Measure	Corresponding Level 1, 2, or 3 Report #



PREVIOUS COMPLIANCE INCIDENTS OR ITEMS REQUIRING FOLLOW-UP OR RESOLVED TODAY:
Re-inspected silt fence at NW corner of temporary laydown/staging area with recommended follow-up from 11/19 site visit. The silt fence with the sagging issue was resolved.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	Photo	Description
11/26/18	East edge of substation expansion footprint.		Photo 1- Entrance on McCall Avenue, immediately north of egress point. Photo facing north.



REPRESENTATIVE SITE PHOTOGRAPHS


Date	Location	Photo	Description
11/26/18	North of existing substation, near McCall Avenue.		Photo 2 - Riprap and rumble plates at egress point along McCall Avenue. Photo facing southwest.
11/26/18	Immediately north of existing substation.		Photo 3 - Pulverizer having dirt removed from the bottom with a rotohammer. Photo facing northeast.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
11/26/18	Substation expansion footprint.		Photo 4 - Grader preparing site for pulverizing and compacting. Photo facing north.
11/26/18	Southern edge of temporary laydown/staging area, immediately north of Jensen Avenue.		Photo 5 - Wattles set in place to mitigate run-on/run-off. Photo facing west.

REPRESENTATIVE SITE PHOTOGRAPHS

Date	Location	Photo	Description
11/26/18	Northwest corner of the laydown/staging area.		Photo 6 - Water tank has been brought on-site and is being used to store water for dust control. Photo facing northwest
11/26/18	Northwest corner of the laydown/staging area, 10 feet west of the water tank.		Photo 7 - Portion of formerly sagging silt fence that has been repaired since the previous week. Photo facing northwest.

REPRESENTATIVE SITE PHOTOGRAPHS			
Date	Location	Photo	Description
11/26/18	Northwest corner of the laydown/staging area, below the water tank.	 A photograph showing a rectangular, blue-painted metal drip pan resting on a surface of dark, compacted soil. The pan has some brownish residue or dirt on its surface. A portion of a white pipe or hose is visible in the upper left corner of the photo.	Photo 8 - Drip pan in place to prevent water erosion of compacted soil beneath the water tower. Photo facing northeast.

Completed by:	Danielle Gutierrez
Firm:	Soar Environmental Consulting, Inc.
Date:	11/26/18
Reviewed by:	Evan Studley
Firm:	Soar Environmental Consulting, Inc.
Date:	12/03/18