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**PACIFIC GAS & ELECTRIC COMPANY**  
**SANGER SUBSTATION EXPANSION**  
**HAZARDOUS MATERIALS MANAGEMENT PLAN**

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**Revision 2: September 17, 2018**

PREPARED FOR:



PREPARED BY:

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Oakland, California



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## **1 – INTRODUCTION**

This Hazardous Materials Management Plan (Plan) describes the measures to be taken by Pacific Gas & Electric Company (PG&E) and its contractors to address the proper storage, handling, and disposal of hazardous materials in accordance with federal, state, and local regulations during the Sanger Substation Expansion Project (Project). The proposed project would increase reliability of electric service by upgrading the equipment at the existing substation to be in conformance with PG&E internal design standards as well as industry standards. Spill prevention and appropriate cleanup procedures, as well as safety and fire suppression, are discussed in this Plan.

The Plan was prepared in accordance with Mitigation Measure (MM) HAZ-1 listed below for the Project, which includes minimum requirements for development of the Plan and implementation of the procedures to be followed in the field. This Plan was developed to address compliance with federal, state, and local regulations, as well as the requirements set out by the California Public Utilities Commission (CPUC) in MM HAZ-1. The Plan will pertain to all areas of the Project, including staging areas.

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### **MM HAZ-1: Hazardous Materials Management Plan**

Prior to construction, the applicant shall prepare a Hazardous Materials Management Plan, which shall be implemented during construction to prevent the release of hazardous materials and hazardous waste. The plan shall include the following requirements and procedures:

1. Training requirements for construction workers in appropriate work practices, including spill prevention and response measures. Additional training requirements for those performing excavation activities shall be required and shall include training on types of contamination and contaminants (e.g., petroleum hydrocarbons, asbestos, lead based paint and hazardous materials [as defined by the California Health and Safety Code (HSC)]) and identifying potentially hazardous contamination (e.g., stained or discolored soil and odor).
2. Contain all hazardous materials at work sites and properly handle, store or dispose of all such materials.
  - a. Hazardous materials shall be stored on pallets within fenced and secured areas and protected from exposure to weather and further contamination.
  - b. Fuels and lubricants shall be stored only at designated staging areas.
3. Maintain hazardous material spill kits with appropriate materials for small spills at all active work sites and staging areas. Thoroughly clean up all spills as soon as they occur.

4. Store sorbent and barrier materials at all construction staging areas, including staging areas used during activities for decommissioning. Sorbent and barrier materials will be used to contain runoff from contaminated areas and from accidental releases of oil or other potentially hazardous materials.
5. Perform all routine equipment maintenance at a shop or at the staging area and recover and dispose of wastes in an appropriate manner.
6. Monitor and remove vehicles used for construction-related activities with chronic or continuous leaks from use and complete repairs before returning them to operation.
7. Store shovels and drums at the staging areas. If small quantities of soil become contaminated, use shovels to collect the soil and store in properly labeled drums before proper offsite disposal. Large quantities of contaminated soil may be collected using heavy equipment and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas because of runoff, shovels and/or heavy equipment shall be used to collect the contaminated material. Only trained construction workers shall handle hazardous, and potentially hazardous, materials.
8. Transporting, shipping, and disposal procedures for hazardous waste.
9. Procedures for notifying applicant and agency personnel in the event of the discovery of contaminated soil and/or groundwater. Contact information for federal, regional, and local agencies, the applicant’s environmental coordinator(s) responsible for the cleanup of contaminated soil or groundwater, and licensed disposal facilities and haulers.

This Plan will be submitted to the CPUC for review and approval 30 days prior to the start of construction of the proposed project.

### 1.1 Plan Update – Project Specific

Date/Version	Updates
19 December 2017 Revision 0	The HMMP template was updated to reflect the Sanger Substation Expansion project details including: the mitigation measure from the MMCRP; project-specific hazardous materials and uses; hazardous materials management and spill prevention measures/protocols; identification of the landfill that would be used for the project’s non-hazardous wastes.
27 August 2018 Revision 1	General update of the HMMP text to incorporate scope of work updates.
18 September 2018 Revision 2	CPUC comments were addressed.

## **2 – OBJECTIVES**

The purpose of this Plan is to provide the PG&E management team with a description of measures that will be implemented in order to prevent or minimize spills or accidental releases of hazardous materials and construction-related wastes that could occur during the Project.

The Plan provides specific information for implementing the mitigation measures, as well as the means of monitoring the effectiveness of the Plan through implementation of the control measures during Project construction. The management practices and activities in this Plan are intended to accomplish the following objectives:

- Prevent and minimize the effect of inadvertent releases of hazardous materials, which could impact soil and/or groundwater
- Provide for the proper handling, storage, and disposal of hazardous and non-hazardous waste that is used/generated during construction of the Project

PG&E's Contractors will implement the procedures provided in this Plan, along with applicable procedures identified in the Project's Stormwater Pollution Prevention Plan (SWPPP) regarding proper storage, handling, and disposal of hazardous materials and Project wastes for the duration of the Project. The Contractor will take all reasonable precautions to prevent the release of any hazardous materials or the improper disposal of Project waste, including the measures required by this Plan.

Training on the measures and procedures in this Plan will be incorporated into the Environmental Awareness Education Program, which will be administered to all Project personnel prior to their beginning work on the Project. Sign-in sheets for all personnel completing the training will be maintained in compliance Project requirements. Information regarding PG&E's designated Lead Environmental Inspector or Environmental Inspector is provided in Attachment A: Emergency Contacts.

## **3 – PLAN IMPLEMENTATION**

### **3.1 HAZARDOUS MATERIALS INVENTORY**

Materials and waste may be considered hazardous if they are poisonous (toxic); can catch on fire (flammable, combustible or ignitable); corrode other materials (corrosive); or react violently, explode, or generate vapors when mixed with water (reactive). As provided by Section 25501(o) of the California HSC, hazardous materials include any material that poses a significant present or potential hazard to human health and safety or the environment because of its quantity, concentration,

or physical or chemical characteristics.

Hazardous materials include, but are not limited to, hazardous substances, hazardous waste, and any other material that a handler (or the administering agency) reasonably believes would be injurious to the health and safety of persons or harmful to the environment if released into the workplace or the environment. In addition, federal and state laws require that soils containing contaminants such as lead, gasoline, and industrial solvents at concentrations above certain acceptable levels be handled and disposed of as hazardous waste during excavation, transportation, and disposal activities.

Hazardous materials used during construction of the Project will include products such as: gasoline, diesel fuel, motor oil, antifreeze, transmission fluids, hydraulic fluids and lubricants, non-polychlorinated biphenyl (PCB) insulating oils, paints, solvents, adhesives, lead acid batteries (sulfuric acid), sulfur hexafluoride, and cleaning chemicals. It is anticipated that only lead acid batteries, non-PCB insulating oil and sulfur hexafluoride will be brought onsite in reportable quantities.

Table 1: Hazardous Materials and Uses provides a list of hazardous materials anticipated to be used during construction of the Project at quantities above Certified Unified Program Agency (CUPA) thresholds. This list will be updated if additional compounds are brought onsite in reportable quantities.

During construction, if PG&E or any of its Contractors identifies a non-hazardous product that can be substituted for a hazardous product without conflicting with PG&E's construction specifications, PG&E will direct the Contractor to use the non-hazardous product substitute. PG&E's Contractors will maintain a list of all hazardous materials stored on site. There is an existing HMBP for the Sanger Substation because the substation regularly has onsite hazardous materials in quantities equal to or greater than 500 pounds, 55 gallons, or 200 cubic feet of gas. The most recent HMBP was submitted on May 31, 2018.

Asbestos-containing material (ACM) and lead-based paint (LBP) were used in building materials until the 1960s. It is now recognized that such materials can be harmful if inhaled or ingested, which occurs most commonly if the materials are disturbed, such as during demolition activities. Several towers within the proposed Project footprint were constructed before 1970 and may contain such materials. Prior to demolition, the towers will be inspected and tested primarily for LBP. However, if any suspect material that may potentially contain ACM is present, ACM will also be tested for. Based on the results of the testing, mitigation measures may need to be put in place to protect health and the environment during demolition activities.



**Table 1: Hazardous Materials and Uses**

Hazardous Materials	Use
Battery (Sulfuric) Acid	Self-contained batteries
Insulating Oil, non-PCB	Substation yard equipment
Sulfur Hexafluoride	Circuit Breakers

### 3.2 SPILL PREVENTION AND CONTROL PROCEDURES

This Plan includes secondary containment and spill prevention countermeasures that PG&E and its contractors will implement during construction of the Project. These measures include, but are not limited to, the following:

- Adhering to the manufacturer's recommendations on use, storage, and disposal of chemical products used during construction activities
- Maintaining Safety Data Sheets (SDS) for all chemicals mobilized to the site for project work
- Limit filling of fuel storage containers to approximately 75 percent capacity
- Using absorbent pads when refueling to contain and capture any spilled fuel
- Properly containing and removing grease and oils during routine maintenance of construction equipment
- Properly disposing of discarded containers of fuels and other chemicals

Clearly marked emergency spill supplies and equipment will be maintained at the Project staging areas and may be adjacent to work areas as applicable. In addition, Project-specific spill prevention measures will be implemented during construction as they relate to vehicle and equipment maintenance; refueling; and the storage and transportation of oil, hazardous materials, and other Project waste, as described in the following subsections and in Section 3.4 Waste Management.

#### 3.2.1 Vehicle and Equipment Fueling and Maintenance

In addition to the previously described procedures, vehicle and equipment maintenance will be

conducted in compliance with the following:

- To the extent feasible, PG&E shall perform all routine vehicle equipment maintenance at a shop (e.g. auto shop or Contractor's maintenance facility). If not feasible, repairs may be performed at approved staging area(s), where PG&E shall recover and dispose of wastes in an appropriate manner in compliance with local, state and federal laws.
- Fuels and lubricants shall be stored only at designated staging areas.
- Monitor and remove vehicles used for construction-related activities with chronic or continuous leaks from use and complete repairs before returning them to operation.
- All equipment and vehicles will be maintained in accordance with the manufacturer's recommendations to help prevent fluid leaks.
- Vehicles and equipment will be inspected prior to use on a daily basis for leaks and other potential hazards and will be repaired immediately if a leak or hazard is identified.
- Vehicles and equipment will be cleaned regularly and as needed to avoid excessive build-up of oil and grease.
- Vehicles and equipment will be checked for leaking fluids before being allowed to enter the Project site, and they will be rejected for entry if a leak cannot be prevented or controlled.
- When on-site repair or refueling of vehicles or equipment is necessary, these activities will be conducted at least 100 feet from drainage areas or surface waters to the extent feasible. Environmental Inspectors will regularly review whether drainage areas or surface waters are located near work sites with PG&E's Contractors. In cases where repair or refueling of vehicles or equipment is necessary within 100 feet of a drainage area or surface water, secondary containment methods will be employed, as described in Section 3.2.2 Storage of Oil and Hazardous Materials.
- At the start and throughout construction, proper containers or absorbent pads will be kept in a readily accessible location, including at substation sites, staging yards, and in construction vehicles and equipment, as provided in Attachment B: Consolidated Emergency Response/Contingency Plan. Absorbent pads will be used to catch fluid spills, and fuel containers will be stored in leak-proof containment systems.
- Vehicles and equipment will be attended at all times during refueling, and either a direct

high-level pump shut-off mechanism or direct communication between the fuel-pump operator and the equipment operator will be maintained during refueling.

- If sensing devices are used to prevent overfilling, they will be tested on a regular basis per the manufacturer's specified recommendations.

All absorbent materials, spill debris, and other contaminated items will be contained, and proper disposal methods will be implemented, as further described in Section 3.4 Waste Management.

### **3.2.2 Storage of Oil and Hazardous Materials**

This subsection discusses hazardous materials storage, containment, security, and labeling requirements that will be implemented for the Project. These procedures will reduce the potential for inadvertent releases, as well as help contain the hazardous material so that it does not come into contact with surface water or groundwater.

#### ***Storage Area and Containment Requirements***

In addition to the procedures described in Section 3.2.1 Vehicle and Equipment Fueling and Maintenance, the storage and containment of oil and hazardous materials will be conducted in compliance with the following requirements:

- Contain all hazardous materials at work sites and properly dispose of all such materials in compliance with local, state and federal laws.
- Hazardous materials shall be stored on pallets within fenced and secured areas and protected from exposure to weather and further contamination.
- Materials will be stored on impervious surfaces, if possible, on plastic groundcovers, or with secondary containment to prevent spills or leaks from infiltrating the ground.
- Maintain hazardous material spill kits for small spills at all active work sites and staging areas. Thoroughly clean up all spills as soon as they occur.
- Store sorbent and barrier materials at all construction staging areas, including staging areas used during activities for decommissioning. Sorbent and barrier materials will be used to contain runoff from contaminated areas and from accidental releases of oil or other potentially hazardous materials.
- Store shovels and drums in staging areas. If small quantities of soil become contaminated, use shovels to collect the soil and store in drums before proper offsite disposal. Large quantities of contaminated soil may be collected using heavy equipment and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent

to staging areas because of runoff, shovels and/or heavy equipment shall be used to collect the contaminated material.

- Materials will be stored only in designated areas.
- Only necessary quantities of materials will be stored, and materials will not be overstocked.
- As stated in Section 3.1 Hazardous Materials Inventory, the Sanger Substation HMBP will be updated in CERS, and the CUPA and CPUC will be notified if additional hazardous materials are stored at or above threshold quantities or a greater than 100% increase in existing hazardous materials occur, in compliance with Chapter 6.95, Division 20 of the California HSC (20 HSC 6.95).
- Only containers designated for storing hazardous materials will be used, and these will be inspected at least weekly for leaks. If a container is found to be damaged or leaking, the contents will be transferred to a container that is in good condition and the damaged container will be disposed of properly, as described in Section 3.4 Waste Management.
- Incompatible materials will be stored in segregated areas. Materials that are incompatible will not be placed in the same container or in an unwashed container that previously held such material.
- No smoking is allowed except in specially designated offsite areas. Signs indicating that smoking is not allowed will be placed at the entrance to the site and in areas where flammable, combustible, or reactive waste is located. Flammable or combustible materials will be appropriately grounded (as necessary) and stored separately from vehicles and equipment. Personnel smoking in a designated area (offsite) will dispose of their cigarette butts in an appropriate container. Cigarette butts will be extinguished so as to not ignite vegetation and will be placed in a trash container with no ignitable material to prevent environmental contamination.
- Hazardous waste containers will remain closed during transfer and storage, except when it is necessary to add or remove waste.
- Only personnel trained to accept, unload, package, label, load, prepare shipping papers, and transport hazardous materials will be allowed to perform these tasks.

### ***Secondary Containment Requirements***

Secondary containment systems will be used at hazardous materials storage areas and within 100 feet of drainages to reduce the risk of an inadvertent release of hazardous materials. The following

secondary containment procedures will be observed as appropriate:

- Secondary containment will consist of bermed or diked areas lined or coated with a material that is compatible with the stored materials.
- For a single container, the volume of the secondary containment will equal 110 percent of the volume of the stored material. If the secondary containment is open to rainfall, it will have sufficient additional capacity for handling local precipitation conditions.
- For multiple containers, the volume of the secondary containment will equal 110 percent of the volume of the largest container. If the secondary containment is open to rainfall, it will have sufficient additional capacity for handling local precipitation conditions.
- Secondary containment will be provided for fuel and oil tanks stored on site, including tanks or containers storing 55 gallons or more that are located on vehicles, trailers, and carts. Secondary containment materials will be compatible with the material stored in the primary container.
- Double-walled vessels or manufacturer fabricated secondary containment are acceptable alternatives to containment structures.

### **Hazardous Materials/Waste Labeling Requirements**

Compliance with codified labeling standards will be required for containers (including tanks) that are used for storing accumulated hazardous waste on the Project site. In accordance with the requirements specified in Title 22 of the California Code of Regulations, Section 66262.34(f), these labels will include the following information:

- Generator name and contact info (address and phone)
- The beginning storage date
- The words “Hazardous Waste” conspicuously displayed, and warning words (such as “flammable,” “corrosive,” or “reactive”) indicating the particular hazardous characteristics of the waste
- The composition of the waste’s physical state
- The name and address of the facility where the waste was generated
- The word “Empty” conspicuously displayed on empty containers that previously held hazardous materials

A “Universal Waste” label will be used for wastes such as batteries and lamps, as appropriate.

### **3.2.3 Training**

Personnel working on the Project will receive Worker Environmental Awareness Program (WEAP) training addressing the issues of safety environmental concerns for this Project. Training will include safety procedures in handling hazardous materials and the emergency release response procedures. The training will be completed by all new employees starting work at the construction site. Attachment B: Consolidated Emergency Response/Contingency Plan, Section I-Employee Training summarizes training requirements.

Training records will be maintained by the construction contractor and Environmental Inspector. Training will be tailored to the construction worker’s project role and responsibility during an emergency release response incident and will be site specific. This training does not relieve the construction contractors of the responsibility to train employees as required by federal, state, and local regulations.

Personnel who handle hazardous wastes will have been trained in accordance with United States Occupational Safety and Health Administration (OSHA) Hazardous Communication Standard, 29 CFR 1910, and CCR Title 8, Section 5194. Field personnel responsible for managing generated waste and/or conducting hazardous waste inspections, or who are involved in emergency response procedures will be trained in hazardous materials and waste management procedures, emergency and spill response procedures, and waste minimization procedures. Construction contractor’s personnel will also be trained on environmental concerns and appropriate work practices, including spill prevention and implementation of site Best Management Practices (BMPs). Training will emphasize site-specific physical conditions to improve hazard prevention, safety procedures in handling hazardous materials, and emergency release response procedures. At a minimum, the construction contractor’s training shall include the following:

- Location, handling procedures, and uses of hazardous material
- Recognition of a hazardous release
- Emergency release response procedures
- Location and use of emergency response equipment, materials, and personal protective equipment
- Emergency evacuation procedures
- Protocol for coordination and communication with local emergency response organizations

- Procedures for notifying applicant and agency personnel in the event of the discovery of contaminated soil and/or groundwater. Contact information for federal, regional, and local agencies, the applicant's environmental coordinator(s) responsible for the cleanup of contaminated soil or groundwater, and licensed disposal facilities and haulers.
- For workers performing excavation activities, instruction on types of contamination and contaminants (e.g., petroleum hydrocarbons, asbestos, and hazardous materials [as defined by the California HSC]) and on identifying potentially hazardous contamination (e.g., stained or discolored soil and odor).
- General construction safety (8 CCR 1509, 1510, 1512, 1518)
- Hazard communication (8 CCR 5194)
- Personal protective equipment (8 CCR 3380)
- Emergency response procedures identified in the Hazardous Materials Business Plan (Attachment B) (CHSC 25504; 19 CCR 2732) or listed in the Attachment C: Spill or Release Notification.

### **3.3 ACCIDENTAL RELEASE PROCEDURES**

PG&E will require that emergency spill supplies and equipment, such as oil-absorbent materials, tarps, and storage drums, are readily accessible at all areas of work and in construction staging areas to contain and control minor releases. These materials will be clearly marked as emergency spill supplies and equipment.

Although all efforts will be taken to prevent an inadvertent release of hazardous materials during construction of the Project. If an accidental release occurs, PG&E's Contractor will immediately implement the items outlined in Section 3.3.4 Cleanup Procedures. These procedures will include the initial identification and assessment of any hazardous conditions, adequate containment of the material release, and proper cleanup of hazardous debris. Attachment B: Consolidated Emergency Response/Contingency Plan provide the cleanup materials that will be readily accessible on site at all times, as well as where these materials will be located during construction of the Project.

#### **3.3.1 Initial Identification and Assessment of Hazards**

Project personnel will be instructed to identify and report any hazardous conditions that occur during construction activities to PG&E's designated Lead Environmental Inspector(s) or Environmental Inspector and Environmental Field Specialist(s), for whom contact information is provided in Attachment B: Consolidated Emergency Response/Contingency Plan. Personnel will also be instructed to assess whether work should be interrupted in accordance with the following

procedures:

- Work will be interrupted if an imminent hazard or concealed danger exists.
- Access to the release area will be restricted if necessary to avoid physical injury.
- The fire and/or police department will be contacted if assistance is needed.

PG&E's designated Lead Environmental Inspector or Environmental Inspector will notify PG&E's Environmental Field Specialist(s) to get direction as to whether the release site is safe to enter, any injuries will be addressed, and 911 will be called if emergency assistance is needed.

Notification of the hazardous condition will be provided by PG&E's Environmental Field Specialist(s) as soon as possible following the discovery of a spill or release, as described in Table 2 (below) and Attachment C: Spill or Release Notification.

### **3.3.2 Notification Procedures**

Notification procedures for any spills or releases that occur during Project construction will conform to applicable local, state, and federal laws. Adherence to these procedures will be the first priority following the initial safety and spill response actions. Daily monitoring reports will record any spills observed during construction and will be summarized in the weekly report. If a spill is reportable to any agency, notification will be provided by PG&E's Environmental Field Specialist(s) or designee as soon as possible to the CPUC and required agencies after the details of the spill or release are known. The notification will include the information described in Attachment B: Consolidated Emergency Response/Contingency Plan, Section I, and Attachment C: Spill or Release Notification, which also include general reporting requirements for any release of hazardous materials. The individual who discovers the spill will immediately report it to PG&E's designated Lead Environmental Inspector(s) or Environmental Inspector, who will be PG&E's main point of contact at the construction site and will coordinate with the PG&E's Environmental Field Specialist(s).

When communicating with PG&E's designated Lead Environmental Inspector(s) or Environmental Inspector regarding the spill, the individual who discovered the spill will provide the following details:

- Employee name and contact number
- Time and date that the spill occurred
- Spill location, including landmarks and the nearest access route
- Type and estimated quantity of hazardous materials involved



- Source and cause of the release, if known
- Potential threats to human health and safety, such as fire, explosion, or other hazards, as well as any known injuries
- Any potential threats to property and environmental resources, particularly to streams and waterways
- Status of the response actions taken to stop and/or contain the release

PG&E's Environmental Field Specialist(s) will contact emergency service providers about the spill and will then notify the appropriate regulatory agencies, as needed. As previously mentioned, an emergency contact list is provided in Attachment A: Emergency Contacts.

If a reportable quantity (RQ) of material is released, the California Governor's Office of Emergency Services (CalOES) and the Fresno County Department of Environmental Health (CUPA) will be immediately notified. In addition, a written report to CalOES will be submitted within 30 days, as appropriate.<sup>1</sup> The procedures outlined in Attachment B: Consolidated Emergency Response/Contingency Plan, Section I and Attachment C: Spill and Release Notification will be followed to ensure that appropriate agency notifications are made by PG&E's Environmental Field Specialist(s). Records and test reports will be retained with the Project files for at least three years, and then will be archived.

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<sup>1</sup> Safety Data Sheets will be consulted, and the location of the release will be considered when identifying RQs.

**Table 2: Spill Notification Procedures**

Spill Characteristics	Notification Procedure
In the event of a spill or release at any of the Project storage or work areas	<p>The individual who observed the spill will notify PG&amp;E's designated Lead Environmental Inspector or Environmental Inspector (s).</p> <p>PG&amp;E's designated Lead Environmental Inspector or Environmental Inspector (s) will notify the Environmental Field Specialist, who will notify the appropriate agencies, as required.</p>
In the event of a spill exceeding reportable quantities (42 gallons for oil) that is also outside of a containment system, or a spill that reaches navigable waters	PG&E's Environmental Field Specialist will notify the appropriate agencies based on local, state, and federal law.
If a spill or threatened discharge is or will be greater than or equal to a reportable quantity (42 gallons for oil); or it occurs within waters of the state, or to the ground within 500 feet of a surface water, well, or domestic water supply source; or it causes pollution of surface water or groundwater, a nuisance, or a potential threat to public health	PG&E's Environmental Field Specialist will notify the Regional Water Quality Control Board and the National Response Center.
If the spill occurs on a State of California highway	PG&E's Environmental Field Specialist will notify the California Highway Patrol.
If the spill threatens wildlife	PG&E's Environmental Field Specialist will notify the California Department of Fish and Game and United States Fish and Wildlife Service, as required.

Other individuals and vehicles will be prevented from entering the release area until PG&E's Environmental Field Specialist or Safety Representative as appropriate is able to assess the situation for safety. Both will report directly to the Environmental Compliance Lead. Following the completion of cleanup activities, waste materials will be placed in approved waste containers in accordance with local, state, and federal regulations, as described in Section 3.4 Waste Management.

### 3.3.3 Containment of Hazardous Materials

Containment of a hazardous material release will be performed only by authorized Project personnel and will be conducted using the proper personal protective equipment (PPE), such as gloves, goggles, and aprons. If containment can be safely implemented, the following general containment procedures will be employed:

- If the release is relatively small, absorbent pads will be applied to the surface of the release to absorb all of the liquid.
- If the release is of a larger quantity, earthen ditches or dikes will be constructed around the release site to prevent the discharge from flowing off site or into waterways.
- Prior to work beginning, storm drains and/or other storm water conveyance systems will be protected using BMPs. Discharge will be prevented by obstructing those located in the area of the release with plastic and/or earthen dikes.
- Spills will be covered with plastic sheeting to protect the contamination from spreading during rainfall.

### **3.3.4 Cleanup Procedures**

Once the release of a hazardous material has been contained in accordance with the procedures identified in Section 3.3.3 Containment of Hazardous Materials, the Contractor will clean the contaminated area by implementing the following measures:

- Absorbent materials will be used to thoroughly clean the spill area to the extent possible.
- Spills will not be diluted with water or other liquids for purposes of mitigating the spill. If the use of water or other liquids is necessary for final cleaning, the water or other liquids will be collected and disposed of in accordance with all local, state and federal regulations.
- Store shovels and drums at the staging areas. If small quantities of soil become contaminated, use shovels to collect the soil and store in drums before proper offsite disposal. Large quantities of contaminated soil may be collected using heavy equipment and stored in drums or other suitable containers prior to disposal. Should contamination occur adjacent to staging areas because of runoff, shovels and/or heavy equipment shall be used to collect the contaminated material.

PG&E's policy is immediate notification from the Contractor for a spill of any size. The inspector will use daily reports to notify PG&E of any spill. Onsite personnel will notify the inspector or monitor who will then notify PG&E's representative. All spills and all clean-up procedures will be included in the weekly PG&E to CPUC reporting.

## 3.4 WASTE MANAGEMENT

This section describes the measures that will be taken during the Project to address the proper procedures for the storage, management, and disposal of hazardous and non-hazardous wastes. In addition, inspection and procedures for minimizing wastes are also discussed in the subsections that follow.

### 3.4.1 Waste Procedures

To properly manage all forms of waste during construction of the Project, all Project personnel will adhere to the requirements of this Plan. The following waste procedures will be implemented:

- Littering will be prohibited. Food-related garbage and trash will be enclosed in covered containers and removed from the Project work area daily and prior to rainy or windy conditions.
- Covered waste bins will be used for stored waste. These containers will be emptied prior to reaching capacity.
- Waste will be secured in appropriate containers to protect from weather and potential vandalism, as described in Section 3.2 Spill Prevention and Control Procedures.
- Hazardous waste will be transported only by state-registered hazardous waste haulers to a properly permitted treatment, storage, or disposal facility. These haulers will be registered by the State Department of Toxic Substances Control and California Highway Patrol. Waste may also be transported by PG&E personnel using remote waste generation documentation and permits.
- Work areas will be kept clean of all trash and potential pollutants to minimize the potential for an inadvertent release.
- Absorbent pads, contaminated clothing and gloves, and other waste materials that are used during cleanup procedures will be placed in an approved waste container for disposal.
- All oil, hazardous materials, and cleanup debris recovered from a release will be considered hazardous waste, unless waste characterization sampling is performed, and it is demonstrated to be non-hazardous, and will be disposed of according to applicable state and federal regulations.
- Hazardous debris resulting from the cleanup of a hazardous material is considered hazardous waste in California and will be transported as required by hazardous waste

transportation requirements.

- Incompatible waste materials will be separated. Waste materials that are incompatible will not be placed in the same container or in an unwashed container that previously held such material.
- Sanitary waste will be collected in portable, self-contained toilets at construction areas and will be managed in accordance with local requirements.
- Temporary sanitary facilities will be secured to prevent overturning when subjected to high winds or risk of winds.

PG&E's Environmental Field Specialist will be contacted in the event Project personnel are unsure of the proper waste procedures to be implemented in the event of a hazardous material spill or leakage. Contact information for PG&E's Environmental Field Specialist is provided in Attachment A: Emergency Contacts.

### **3.4.2 Waste Storage Locations**

Non-hazardous waste will be properly disposed of, as described in Section 3.4.3 Waste-Specific Management and Disposal Requirements. Hazardous waste is not anticipated to be generated by this Project. If hazardous waste is generated in recordable quantities, the HMMP and HMBP will be updated accordingly.

Construction waste may be stored on the work site for short periods of time, but hazardous waste will be removed from the work area at the end of the day and transported to designated storage areas. An inventory of waste accumulated and stored at the site will be kept and the HMBP updated as needed.

### **3.4.3 Waste-Specific Management and Disposal Requirements**

The following measures will be utilized to ensure that construction waste is managed and disposed of properly during construction of the Project:

- Only licensed sanitary/septic waste haulers will be used for disposal of sanitary waste that is collected at the Project site. Portable sanitary facilities (e.g. port-o-john) will be emptied of sanitary waste prior to transport.
- Drilling residue and drilling fluids will be disposed of in accordance with applicable regulations.
- Waste generated as part of operation procedures, such as water-laden dredged materials

and drilling mud, will be contained and not allowed to flow into drainage channels or receiving waters

- Deposited solids will be removed from containment areas and from containment systems as needed and at the completion of the Project.
- All broken asphalt and concrete will be collected, recycled when feasible, and disposed of in accordance with local, state, and federal requirements.
- Absorbent materials and rags that have been used to clean any spilled fuel will be secured in appropriate storage containers and disposed of at a proper waste-handling facility.
- If concrete or paint residue remains after drying, the area will be swept, and the residue will be removed to avoid contact with storm water.
- All temporary construction materials—such as markings, barriers, or fencing—will be removed following completion of construction activities in that area.
- The recyclable materials identified in Section 3.4.5 Waste Minimization Procedures will be transported to an appropriate local recycling center.
- Hazardous waste generated at work areas will be transported at the end of each work day to a consolidation site. Waste will be consolidated to the Fresno Service Center (2201 South Orange Avenue, Fresno California) at the end of each working day.
- Non-hazardous waste will be disposed of in a legal manner and in accordance with PG&E, local, state and federal requirements. The American Avenue Disposal Site would be the designated landfill for the project, as it accepts both construction and industrial waste.
- Recyclable materials will be transported to a PG&E-approved recycling center. The following materials, which are anticipated to be generated during construction, will be recycled at the appropriate recycling facility to the extent feasible:
  - Asphalt
  - Soil
  - Concrete
  - Rock
  - Plastic
  - Wood
  - Paper products

- Metals
- Packing materials
- Non-hazardous construction debris

### **3.4.4 Inspection**

Implementation of the previously specified waste management measures will be subject to inspection by PG&E's designated Lead Environmental Inspector or Environmental Inspector (s), Environmental Field Specialist(s) and designee(s) as follows:

- Routine Project site inspections—including storage areas, dumpsters, stockpiles, and other areas where trash and debris are collected—will be performed to ensure that waste is being disposed of properly. These inspections will occur at least weekly but may occur at any time during work hours. Reports will document inspection findings during active construction at the site if something is noted. Inspection records will be available for review by the CPUC and other agencies during normal business hours at the onsite office trailer.
- Hazardous and non-hazardous waste storage areas will be routinely inspected to monitor for proper management of wastes. These inspections will take place weekly during active construction at the site.
- Excavation and trenching operations will be monitored to identify signs of potential contamination. Signs of potential contamination may include odors, discolored soil, visible liquid and buried debris, such as drums or tanks.
- Temporary waste containment areas and systems will be inspected as required by law for integrity and proper containment and repaired as necessary for proper containment.
- Example checklists have been included as Attachment D. Checklists may be updated at any time based on project needs or changes in regulations.

As other documents are developed and approved for this project (such as SWPPP), if there are additional items that require routine inspection, they will be added to this list. This includes but is not limited to, any on-site sanitary/septic waste storage and storm water collected in secondary containment structures.

It is anticipated that the SWPPP will be approved by September 2018. This HMMP will be updated at that time to include applicable information.

### 3.4.5 Waste Minimization Procedures

PG&E's Contractors will adhere to the following procedures to minimize construction waste:

- To the extent practicable, removed or clean soil will be used during final grade and/or road repair for the Project to minimize the amount of Project waste.
- The amount of hazardous and non-hazardous waste that will be stored, produced, and generated at construction sites will be minimized to the extent practicable.

PG&E has developed guidance to integrate sustainable practices at its locations. Sustainable practices include those that are least disruptive to the environment, emit minimal atmospheric emissions, reduce social and economic impacts, consider impacts beyond site boundaries, and are endpoint focused (PG&E 2012).



## 4 REFERENCES

California HSC. Chapter 6.95 Article 1. Online:

[https://leginfo.legislature.ca.gov/faces/codes\\_displayText.xhtml?lawCode=HSC&division=20.&title=&part=&chapter=6.95.&article=1](https://leginfo.legislature.ca.gov/faces/codes_displayText.xhtml?lawCode=HSC&division=20.&title=&part=&chapter=6.95.&article=1). Site visited November 28, 2016.

California HSC. Chapter 6.95 Article 2. Online:

[https://leginfo.legislature.ca.gov/faces/codes\\_displayText.xhtml?lawCode=HSC&division=20.&title=&part=&chapter=6.95.&article=2](https://leginfo.legislature.ca.gov/faces/codes_displayText.xhtml?lawCode=HSC&division=20.&title=&part=&chapter=6.95.&article=2). Site visited November 28, 2016.

PG&E Hazardous Materials Business Plan, May 31, 2018

PG&E Programmatic Sustainable Remediation Guidance, Rev 1, July 2012.

[https://www.pge.com/includes/docs/pdfs/about/environment/taking-responsibility/2012\\_0731\\_sustainability%20guidance\\_generic%20version.pdf](https://www.pge.com/includes/docs/pdfs/about/environment/taking-responsibility/2012_0731_sustainability%20guidance_generic%20version.pdf)



**ATTACHMENT A: EMERGENCY CONTACTS**

## Sanger Substation Expansion Project Project Contact List

Name	Position	Email	Phone (Work)	Phone (Mobile)
<b>Project Management</b>				
Carl Lindberg	PG&E Project Manager	<a href="mailto:C3L6@pge.com">C3L6@pge.com</a>	(559) 240-4748	(361) 563-1539
Israel Gonzalez	PG&E Schedule Analyst	<a href="mailto:IXGG@pge.com">IXGG@pge.com</a>	(559) 593-1140	(559) 593-1140
Carter Chapman	Senior Financial Analyst	<a href="mailto:C8CW@pge.com">C8CW@pge.com</a>	(415) 973-6414	(415) 973-6414
Marco Luna	PG&E I&O Telecom Project Manager	<a href="mailto:M4L3@pge.com">M4L3@pge.com</a>	(559) 263-5469	(559) 493-8425
<b>Environmental Management</b>				
Michael Calvillo	PG&E Senior Land Planner	<a href="mailto:M6CL@pge.com">M6CL@pge.com</a>	(559) 263-5780	(559) 417-3337
Lincoln Allen	SWCA Project Environmental Compliance Supervisor (ECS)	<a href="mailto:LAllen@swca.com">LAllen@swca.com</a>	(650) 440-4160 Ext. 6411	(415) 500-5605
Chennie Castañon	SWCA Project Lead Environmental Inspector (LEI)	<a href="mailto:CCastanon@swca.com">CCastanon@swca.com</a>	(650) 440-4160 Ext. 6405	(650) 922-7086
Zachary Parker	PG&E Senior Terrestrial Biologist	<a href="mailto:ZXP5@pge.com">ZXP5@pge.com</a>	(559) 263-5723	(559) 417-7735
Matthew Armstrong	PG&E Cultural Resource Specialist	<a href="mailto:MDAF@pge.com">MDAF@pge.com</a>	(559) 263-5334	(559) 396-5704
Mike Harbick	PG&E Environmental Field Specialist (SWPPP, Dust Plan, Demolition Permit, HazW)	<a href="mailto:MEH4@pge.com">MEH4@pge.com</a>	(559) 263-5217	(559) 269-5217
Carie Montero	Parsons Senior Project Manager	<a href="mailto:Carie.Montero@parsons.com">Carie.Montero@parsons.com</a>	(510) 907-2163	(510) 914-2047
Jessica Henderson-McBean	SWCA Project Coordinator / Alternate LEI	<a href="mailto:JHenderson-McBean@swca.com">JHenderson-McBean@swca.com</a>	(650) 440-4160 Ext. 6410	(805) 712-8794
Erika Carrillo	SWCA Senior Environmental Planner / Alternate ECS	<a href="mailto:Erika.Carrillo@swca.com">Erika.Carrillo@swca.com</a>	(650) 440-4160 Ext. 6403	(650) 722-2735
Jo Lynn Lambert	PG&E CONT Attorney	<a href="mailto:JLLM@pge.com">JLLM@pge.com</a>	(415) 973-5248	(909) 528-6436
<b>Land Management</b>				
Kirsten Everett	PG&E Principal Right-of-Way Agent – Acquisitions	<a href="mailto:KXEA@pge.com">KXEA@pge.com</a>	(559) 263-5019	(559) 417-8074
Art Sasaki	PG&E Project Surveyor – Land Engineering	<a href="mailto:AAS2@pge.com">AAS2@pge.com</a>	(559) 263-5243	(559) 960-2742
Pa Vang	PG&E Land Agent – Land Rights Services	<a href="mailto:PXVH@pge.com">PXVH@pge.com</a>	(559) 263-5208	
<b>Construction Management</b>				
Warren Frank	PG&E Construction Lead	<a href="mailto:WXF8@pge.com">WXF8@pge.com</a>	(559) 263-5232	(707) 291-1232
Michael Roeseler	PG&E Construction Supervisor – Substation	<a href="mailto:MARU@pge.com">MARU@pge.com</a>	(559) 263-7082	(559) 408-8040
Branden Bezzant	PG&E Construction Management – T-Line	<a href="mailto:BDBJ@pge.com">BDBJ@pge.com</a>	(559) 263-5859	(559) 476-6707
<b>Design Engineering</b>				
Omar Dominguez	PG&E Senior Project Engineer – T-Line	<a href="mailto:LOD4@pge.com">LOD4@pge.com</a>	(925) 328-5339	(925) 786-4637
Laverne Mansanque	Black & Veatch Project Engineer – Substation	<a href="mailto:MasanqueL@bv.com">MasanqueL@bv.com</a>	(503) 443-4423	
Steve Gallo	PG&E Civil Engineer – Substation	<a href="mailto:SAG9@pge.com">SAG9@pge.com</a>	(925) 328-5515	(510) 725-2193
Dipti Desai	PG&E Project Engineer - Substation	<a href="mailto:DNDK@pge.com">DNDK@pge.com</a>	(925) 328-5306	(510) 566-9093
<b>CPUC / Ecology &amp; Environment, Inc.</b>				
Billie Blanchard	CPUC Project Manager	<a href="mailto:Billie.Blanchard@cpuc.ca.gov">Billie.Blanchard@cpuc.ca.gov</a>	(415) 703-2068	(510) 685-1634
Ilja Nieuwenhuizen	CPUC Monitoring Supervisor (Ecology & Environment)	<a href="mailto:INieuwenhuizen@ene.com">INieuwenhuizen@ene.com</a>	(503) 248-5600 Ext. 4630	(503) 709-3004

## ENVIRONMENTAL EMERGENCY TELEPHONE LIST

	<u>Public No.</u>	<u>PG&amp;E</u>
	<u>No.</u>	
<b>Company: PG&amp;E</b>		
<b>Primary Facility Emergency Coordinator:</b>		
C.B. Black III	(559) 263-7117	821-7117
Substation Maintenance Supervisor		
24-Hour Telephone No.:	(888) 743-4911	
Work Address: 2141 S. Orange Avenue Fresno, CA 93725		
<b>Alternate Facility Emergency Coordinator(s):</b>		
Mike Harbick	(559) 263-5217	821-5217
Environmental Specialist		
24-Hour Telephone No.:	(888) 743-4911	
Work Address: 1455 E. Shaw Avenue Fresno, CA 93710		
<b>Additional Company Resources:</b>		
PG&E Media Representative	(415) 973-5930	223-5930
PG&E Headquarters Telephone Operator	(415) 973-7000	223-7000
PG&E Safety Health & Claims Helpline	(415) 973-8700	223-8700
<b>Federal Agency:</b>		
U.S. Forest Service	(559) 855-5355	
U.S. Fish and Wildlife Service	(916) 414-6700	
<b>State Agencies:</b>		
California Office of Emergency Services (Cal OES)	(800) 852-7550	
California Public Utilities Commission (CPUC)	(415) 703-2782	
California Dept. of Toxic Substance Control (DTSC)*:	(800) 852-7550	
California Department of Fish and Wildlife*	(559) 243-4014	
Regional Water Quality Control Board*	(800) 852-7550	
State Water Resources Control Board	(866) 563-3107	
<b>Local Contacts:</b>		
Fresno County Department of Environmental Health	(559) 600-3357	
County of Fresno Road Maintenance and Operations	(559) 600-4240	
Fire Department: Fresno County Fire Station 82	911 or (559) 888-2898	
Hospital: Community Regional Medical Center	911 or (559) 459-6000	
Police Department: Fresno County Sheriff	911 or (559) 888-2417	
Ambulance/Paramedics:	911	

\* DTSC, RWQCB and California Department of Fish and Wildlife have requested that emergency notifications to these offices be made through the Cal OES 800 number.

**ATTACHMENT B: CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN**

**PG&E Sanger Substation (CERSID: 10128688)****Facility Information** Submitted May 31, 2018Submitted on 5/31/2018 10:41:41 AM by *Megan Silva* of PG&E (San Ramon, CA)

- Business Activities
- Business Owner/Operator Identification

**Hazardous Materials Inventory** Submitted May 31, 2018Submitted on 5/31/2018 10:41:41 AM by *Megan Silva* of PG&E (San Ramon, CA)

- Hazardous Material Inventory (6)
- Site Map (Official Use Only)
  - *Sanger Sub Vicinity Map* (Adobe PDF, 56KB)
  - *Sanger Sub Facility Layout Map* (Adobe PDF, 58KB)

**Emergency Response and Training Plans** Submitted May 31, 2018Submitted on 5/31/2018 10:41:41 AM by *Megan Silva* of PG&E (San Ramon, CA)

- Emergency Response/Contingency Plan
  - *Emergency Response/Contingency Plan* (Adobe PDF, 397KB)
- Employee Training Plan
  - Provided In Submittal Element: Emergency Response and Training Plans

**Site Identification****PG&E Sanger Substation**

McCall Avenue, north of Jensen Avenue  
Sanger, CA 93657

County  
Fresno

CERS ID  
**10128688**  
EPA ID Number

**Submittal Status**

Submitted on 5/31/2018 by *Megan Silva* of PG&E (San Ramon, CA)

**Hazardous Materials**

Does your facility have on site (for any purpose) at any one time, hazardous materials at or above 55 gallons for liquids, 500 pounds for solids, or 200 cubic feet for compressed gases (include liquids in ASTs and USTs); or is regulated under more restrictive inventory local reporting requirements (shown below if present); or the applicable Federal threshold quantity for an extremely hazardous substance specified in 40 CFR Part 355, Appendix A or B; or handle radiological materials in quantities for which an emergency plan is required pursuant to 10 CFR Parts 30, 40 or 70?

**Yes****Underground Storage Tank(s) (UST)**

Does your facility own or operate underground storage tanks?

**No****Hazardous Waste**

Is your facility a Hazardous Waste Generator?

**No**

Does your facility treat hazardous waste on-site?

**No**

Is your facility's treatment subject to financial assurance requirements (for Permit by Rule and Conditional Authorization)?

**No**

Does your facility consolidate hazardous waste generated at a remote site?

**No**

Does your facility need to report the closure/removal of a tank that was classified as hazardous waste and cleaned on-site?

**No**

Does your facility generate in any single calendar month 1,000 kilograms (kg) (2,200 pounds) or more of federal RCRA hazardous waste, or generate in any single calendar month, or accumulate at any time, 1 kg (2.2 pounds) of RCRA acute hazardous waste; or generate or accumulate at any time more than 100 kg (220 pounds) of spill cleanup materials contaminated with RCRA acute hazardous waste.

**No**

Is your facility a Household Hazardous Waste (HHW) Collection site?

**No****Excluded and/or Exempted Materials**

Does your facility recycle more than 100 kg/month of excluded or exempted recyclable materials (per HSC 25143.2)?

**No**

Does your facility own or operate ASTs above these thresholds? Store greater than 1,320 gallons of petroleum products (new or used) in aboveground tanks or containers.

**No**

Does your facility have Regulated Substances stored onsite in quantities greater than the threshold quantities established by the California Accidental Release prevention Program (CalARP)?

**No****Additional Information**

No additional comments provided.



**Facility/Site****PG&E Sanger Substation**

McCall Avenue, north of Jensen Avenue  
Sanger, CA 93657

CERS ID  
**10128688**

**Submittal Status**

Submitted on 5/31/2018 by *Megan Silva* of PG&E (San Ramon, CA)

**Identification****Pacific Gas and Electric Company**

Operator Phone  
(661) 398-5758

Business Phone  
None

Business Fax  
(661) 398-5758

**Beginning Date**

6/1/2018

Dun & Bradstreet  
006912877

**Ending Date**

5/31/2019

SIC Code  
4911

Primary NAICS  
221122

**Facility/Site Mailing Address**

PO Box 7640  
San Francisco, CA 94120

**Primary Emergency Contact**

Calvin Black

Title

Supervisor

Business Phone  
(661) 398-5758

24-Hour Phone  
(844) 743-3322

Pager Number

**Owner****Pacific Gas and Electric Company**

(415) 973-7000

c/o Environmental Services, 3401 Crow Canyon Road  
San Ramon, CA 94583

**Secondary Emergency Contact**

Isabella Johannes

Title

Environmental Supervisor

Business Phone  
(925) 519-9672

24-Hour Phone  
(800) 874-4043

Pager Number

**Billing Contact**

PG&E - CUPA Permits (Ref: Sanger Sub)

(707) 551-1674

HazMat@pge.com

PO Box 7640

San Francisco, CA 94120

**Environmental Contact**

Michael Harbick

(559) 269-5217

meh4@pge.com

1455 East Shaw Avenue

Fresno, CA 93710

**Name of Signer**

Daniel Sanchez

Additional Information

**Signer Title**

Hazardous Materials & Water Quality Manager

**Document Preparer**

Liza Marfori, Parsons

**Locally-collected Fields**

Some or all of the following fields may be required by your local regulator(s).

**Property Owner**

Phone

Mailing Address

Assessor Parcel Number (APN)

Number of Employees

0

Facility ID

FA0275769

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>PG&amp;E</b> Facility Name <b>PG&amp;E Sanger Substation</b> McCall Avenue, north of Jensen Avenue, Sanger 93657	Chemical Location <b>SUBSTATION / Control Room Building</b>	CERS ID <b>10128688</b> Facility ID <b>FA0275769</b> Status <b>Submitted on 5/31/2018 10:41 AM</b>
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 8 - Corrosives (Liquids and Solids)	<b>WET CELL LEAD ACID BATTERIES</b>	<b>Gallons</b>	<b>66</b>	<b>1.1</b>	<b>66</b>		- Physical	SULFURIC ACID	30 %	✓ 7664-93-9
Corrosive, Water Reactive, Class 2	CAS No. Map: 1 Grid: C2	State Liquid	Storage Container Other		Pressure Ambient	Waste Code	- Physical Corrosive To Metal - Health - Health Acute Toxicity - Health Reproductive Toxicity - Health Skin Corrosion Irritation - Health Serious Eye Damage Eye Irritation - Health Specific Target Organ Toxicity			
		Type Mixture	Days on Site: 365		Temperature Ambient					

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>PG&amp;E</b>	Chemical Location <b>SUBSTATION / Yard-in gas circuit brkrs</b>	CERS ID <b>10128688</b>
Facility Name <b>PG&amp;E Sanger Substation</b> McCall Avenue, north of Jensen Avenue, Sanger 93657		Facility ID <b>FA0275769</b>
		Status <b>Submitted</b> on 5/31/2018 10:41 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
DOT: 2.2 - Nonflammable Gases	<b>SULFUR HEXAFLUORIDE</b>	<b>Cu. Feet</b>	<b>1663</b>	<b>211</b>	<b>1663</b>		- Physical Gas Under Pressure	SULFUR HEXAFLUORIDE	100 %	2551-62-4
	<u>CAS No</u> 2551-62-4	<u>State</u> Gas	<u>Storage Container</u> Cylinder, Other		<u>Pressue</u> > Ambient	<u>Waste Code</u>	- Health Simple Asphyxiant			
	Map: 1 Grid: VAR	<u>Type</u> Pure	Days on Site: 365		<u>Temperature</u> Ambient		- Health Hazard Not Otherwise Classified			

## Hazardous Materials And Wastes Inventory Matrix Report

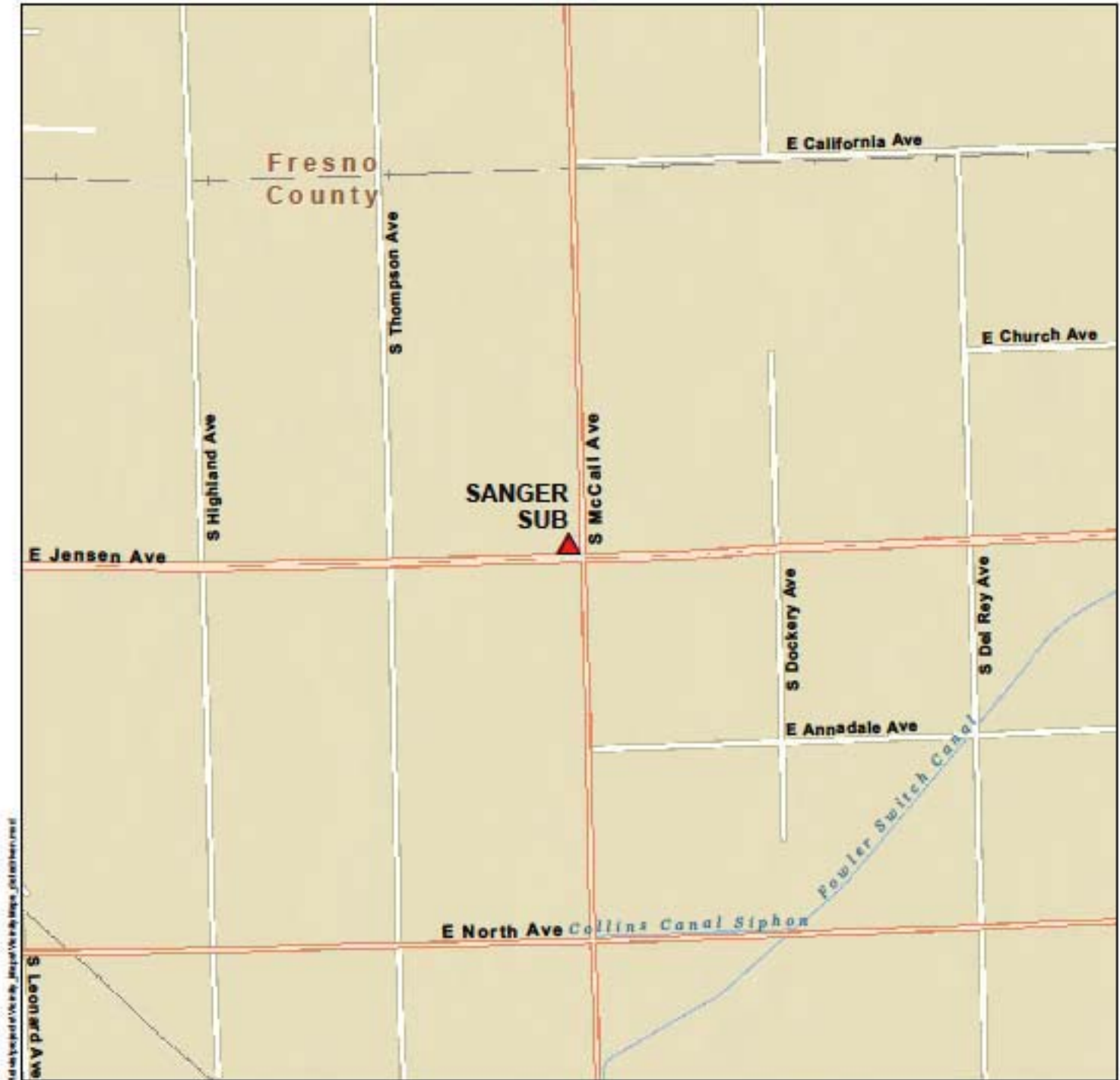
CERS Business/Org. <b>PG&amp;E</b> Facility Name <b>PG&amp;E Sanger Substation</b> McCall Avenue, north of Jensen Avenue, Sanger 93657	Chemical Location <b>SUBSTATION / Yard-in op equipment</b>	CERS ID <b>10128688</b> Facility ID <b>FA0275769</b> Status <b>Submitted</b> on 5/31/2018 10:41 AM
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DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
Combustible Liquid, Class III-B	<b>INSULATING OIL &lt;5 PPM PCB</b>	<b>Gallons</b>	<b>21109</b>	<b>6779</b>	21109		- Health	BUTYLATED HYDROXY TOLUENE	0 %	128-37-0
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Aspiration Hazard	HYDROTREATED LIGHT	70 %	64742-53-6
	Map: 1 Grid: VAR	Liquid	Other		Ambient			NAPHTHENIC DISTILLATE		
		<u>Type</u>	Mixture	Days on Site: 365		<u>Temperature</u>		HYDROTREATED MIDDLE DISTILLATES	40 %	64742-46-7
					> Ambient			POLYCHLORINATED BIPHENYL (<0.0005%)		1336-36-3
Combustible Liquid, Class III-B	<b>INSULATING OIL &lt;50 PPM PCB</b>	<b>Gallons</b>	<b>5880</b>	<b>530</b>	5880		- Health Acute	BUTYLATED HYDROXY TOLUENE	0 %	128-37-0
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Toxicity	HYDROTREATED LIGHT	70 %	64742-53-6
	Map: 1 Grid: VAR	Liquid	Other		Ambient		- Health	NAPHTHENIC DISTILLATE		
		<u>Type</u>	Mixture	Days on Site: 365		<u>Temperature</u>		Aspiration Hazard	HYDROTREATED MIDDLE DISTILLATES	40 %
					> Ambient			POLYCHLORINATED BIPHENYL (<0.005%)		1336-36-3
Combustible Liquid, Class III-B	<b>INSULATING OIL &lt;500 PPM PCB</b>	<b>Gallons</b>	<b>345</b>	<b>40</b>	345		- Health	BUTYLATED HYDROXY TOLUENE	0 %	128-37-0
	<u>CAS No</u>	<u>State</u>	<u>Storage Container</u>		<u>Pressue</u>	<u>Waste Code</u>	Carcinogenicity	OIL, HYDRO LIGHT NAPH DIST	70 %	64742-53-6
	Map: 1 Grid: VAR	Liquid	Other		Ambient		- Health Acute	HYDROTREATED MIDDLE DISTILLATE	40 %	64742-46-7
		<u>Type</u>	Mixture	Days on Site: 365		<u>Temperature</u>		Toxicity	POLYCHLORINATED BIPHENYLS (<0.05%)	0 %
					> Ambient		- Health			
							Reproductive Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			

## Hazardous Materials And Wastes Inventory Matrix Report

CERS Business/Org. <b>PG&amp;E</b>	Chemical Location	CERS ID <b>10128688</b>
Facility Name <b>PG&amp;E Sanger Substation</b>	<b>SUBSTATION / Yard-in op equipment (Bushings)</b>	Facility ID <b>FA0275769</b>
McCall Avenue, north of Jensen Avenue, Sanger 93657		Status <b>Submitted</b> on 5/31/2018 10:41 AM

DOT Code/Fire Haz. Class	Common Name	Unit	Quantities			Annual Waste Amount	Federal Hazard Categories	Hazardous Components (For mixture only)		
			Max. Daily	Largest Cont.	Avg. Daily			Component Name	% Wt	EHS CAS No.
Combustible Liquid, Class III-B	<b>INSULATING OIL &gt;OR= 500 PPM</b>	<b>Gallons</b>	<b>195</b>	<b>5</b>	<b>195</b>		- Health	BUTYLATED HYDROXY TOLUENE	0 %	128-37-0
	<b>PCB</b>	<u>State</u>	<u>Storage Container</u>		<u>Pressure</u>	<u>Waste Code</u>	Carcinogenicity	OIL, HYDRO LIGHT NAPH DIST	70 %	64742-53-6
	<u>CAS No</u>	Liquid	Other		Ambient		- Health Acute	HYDROTREATED MIDDLE	40 %	64742-46-7
	Map: 1 Grid: VAR	<u>Type</u>	Mixture	Days on Site: 365	> Ambient		Toxicity	DISTILLATE		
							- Health	POLYCHLORINATED BIPHENYLS	0 %	1336-36-3
							Reproductive	(>or=0.05%)		
							Toxicity			
							- Health Skin			
							Corrosion			
							Irritation			
							- Health Specific			
							Target Organ			
							Toxicity			
							- Health			
							Aspiration Hazard			



<http://www.pge.com>

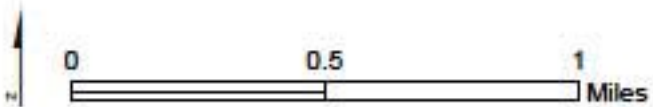
**Vicinity Map**

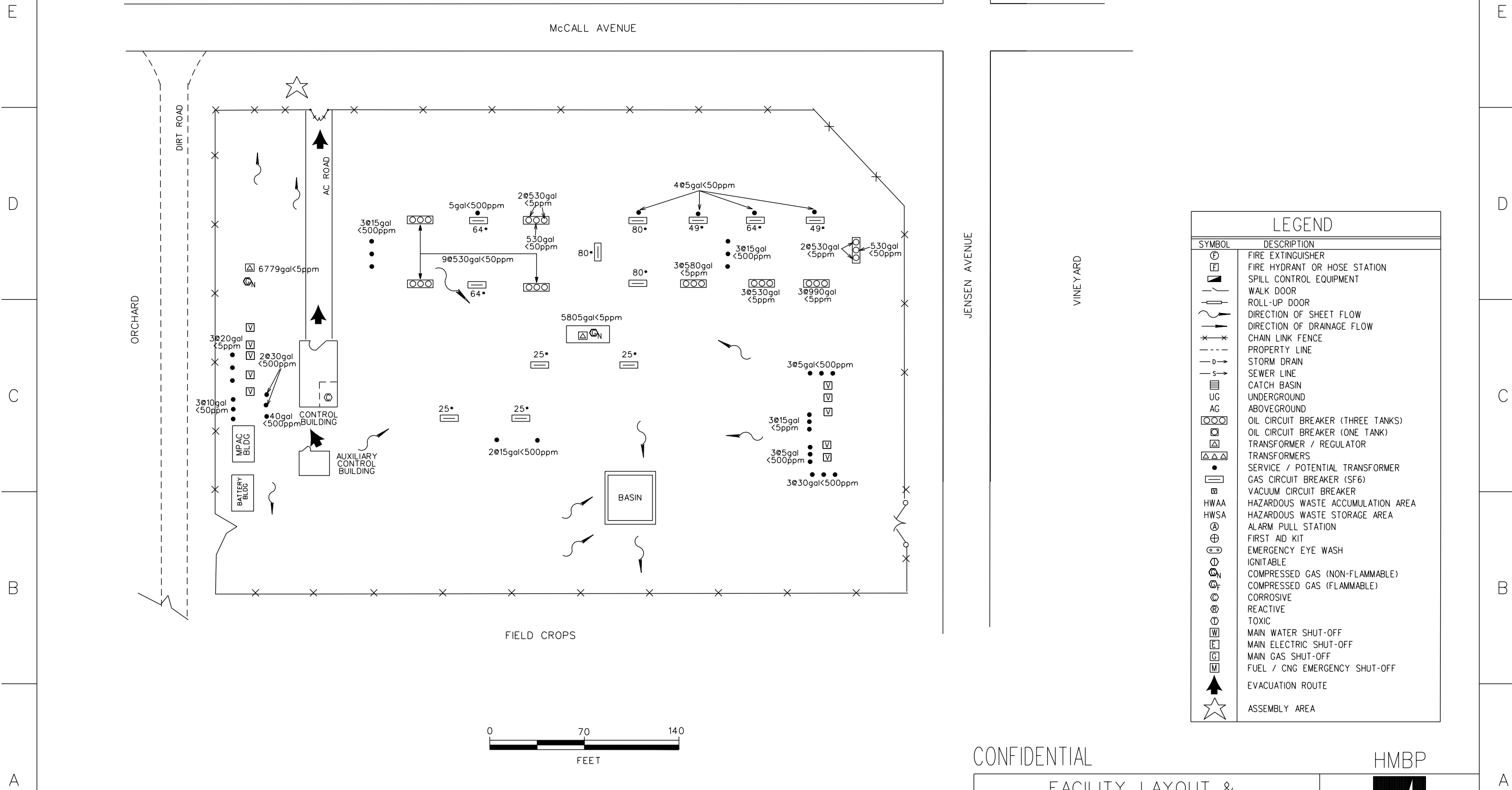
SPCC PLAN ATTACHMENT #6-1

**SANGER SUB**

MCCALL & JENSEN ROADS  
 FRESNO, CA 93657

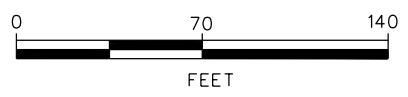
PACIFIC GAS AND ELECTRIC COMPANY  
 SAN FRANCISCO, CALIFORNIA





BATTERIES:  
EXIDE C 3CA-7, 60 cells @ 1.1 gal. ea.  
BUSHINGS:  
(57)@2-5gal=195gal  
NITROGEN:  
(2) @ 228CuFt = 456CuFt

LEGEND	
SYMBOL	DESCRIPTION
	FIRE EXTINGUISHER
	FIRE HYDRANT OR HOSE STATION
	SPILL CONTROL EQUIPMENT
	WALK DOOR
	ROLL-UP DOOR
	DIRECTION OF SHEET FLOW
	DIRECTION OF DRAINAGE FLOW
	CHAIN LINK FENCE
	PROPERTY LINE
	STORM DRAIN
	SEWER LINE
	CATCH BASIN
	UNDERGROUND
	ABOVEGROUND
	OIL CIRCUIT BREAKER (THREE TANKS)
	OIL CIRCUIT BREAKER (ONE TANK)
	TRANSFORMER / REGULATOR
	TRANSFORMERS
	SERVICE / POTENTIAL TRANSFORMER
	GAS CIRCUIT BREAKER (SF6)
	VACUUM CIRCUIT BREAKER
	HAZARDOUS WASTE ACCUMULATION AREA
	HAZARDOUS WASTE STORAGE AREA
	ALARM PULL STATION
	FIRST AID KIT
	EMERGENCY EYE WASH
	IGNITABLE
	COMPRESSED GAS (NON-FLAMMABLE)
	COMPRESSED GAS (FLAMMABLE)
	CORROSIVE
	REACTIVE
	TOXIC
	MAIN WATER SHUT-OFF
	MAIN ELECTRIC SHUT-OFF
	MAIN GAS SHUT-OFF
	FUEL / CNG EMERGENCY SHUT-OFF
	EVACUATION ROUTE
	ASSEMBLY AREA



CONFIDENTIAL

FACILITY LAYOUT &  
EVACUATION MAP  
SANGER SUBSTATION  
PACIFIC GAS AND ELECTRIC COMPANY  
SAN FRANCISCO, CALIFORNIA

HMBP



ATTACHMENT 1  
(FIGURE 2.1)

updated for SPCC 09-2013 (Parsons)  
sanger.env



# **HAZARDOUS MATERIALS BUSINESS PLAN**

**FOR**

**SANGER SUBSTATION**

**MCCALL AVENUE, NORTH OF JENSEN AVENUE**

**SANGER, CA 93657**



**CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS)  
 CONSOLIDATED EMERGENCY RESPONSE / CONTINGENCY PLAN**

*Prior to completing this Plan, please refer to the INSTRUCTIONS FOR COMPLETING A CONSOLIDATED CONTINGENCY PLAN*

**A. FACILITY IDENTIFICATION AND OPERATIONS OVERVIEW**

FACILITY ID #	F A 0 2 7 5 7 6 9	A1.	CERS ID #	A2.	DATE OF PLAN PREPARATION/REVISION	A3.	
			10128688		(MM/DD/YYYY) 06/01/2018		
BUSINESS NAME (Same as Facility Name or DBA - Doing Business As)						A4.	
PG&E - Sanger Substation							
BUSINESS SITE ADDRESS						A5.	
McCall Avenue, North of Jensen Avenue							
BUSINESS SITE CITY				A6.	ZIP CODE	A7.	
Sanger				CA	93657		
TYPE OF BUSINESS (e.g., Painting Contractor)			A8.	INCIDENTAL OPERATIONS (e.g., Fleet Maintenance)			A9.
Utility				Power Transmission / Distribution			
THIS PLAN COVERS CHEMICAL SPILLS, FIRES, AND EARTHQUAKES INVOLVING (Check all that apply):						A10.	
<input checked="" type="checkbox"/> 1. HAZARDOUS MATERIALS; <input type="checkbox"/> 2. HAZARDOUS WASTES							

**B. INTERNAL RESPONSE**

INTERNAL FACILITY EMERGENCY RESPONSE WILL OCCUR BY (Check all that apply):	B1.
<input checked="" type="checkbox"/> 1. CALLING PUBLIC EMERGENCY RESPONDERS (e.g., 9-1-1)	
<input checked="" type="checkbox"/> 2. CALLING HAZARDOUS WASTE CONTRACTOR	
<input type="checkbox"/> 3. ACTIVATING IN-HOUSE EMERGENCY RESPONSE TEAM	

**C. EMERGENCY COMMUNICATIONS, PHONE NUMBERS AND NOTIFICATIONS**

In the event of an emergency involving hazardous materials and/or hazardous waste, all facilities must IMMEDIATELY:

1. Notify facility personnel and evacuate if necessary in accordance with the Emergency Action Plan (Title 8 California Code of Regulations §3220);
2. Notify local emergency responders by calling 9-1-1;
3. Notify the local Unified Program Agency (UPA) at the phone number below; and
4. Notify the State Warning Center at (800) 852-7550.

Facilities that generate, treat, store or dispose of hazardous waste have additional responsibilities to notify and coordinate with other response agencies. Whenever there is an imminent or actual emergency situation such as an explosion, fire, or release, the Emergency Coordinator must follow the appropriate requirements for the category of facility and type of release involved:

1. Title 22 California Code of Regulations §66265.56. Emergency Procedures for generators of 1,000 kilograms or more of hazardous waste in any calendar month.
2. Title 22 California Code of Regulations §66265.196. Response to Leaks or Spills and Disposition of Leaking or Unfit-for-Use Tank Systems.
3. Title 40 Code of Federal Regulations §302.6. Notification requirements for a release of a hazardous substance equal to or greater than the reportable quantity.
4. Title 22 California Code of Regulations §66262.34(d)(2) and Title 40 Code of Federal Regulations §262.34(d)(5)(ii) for generators of less than 1000 kilograms of hazardous waste in any calendar month.

Following notification and before facility operations are resumed in areas of the facility affected by the incident, the Emergency Coordinator shall notify the local UPA and the local fire department's hazardous materials program, if necessary, that the facility is in compliance with requirements to:

1. Provide for proper storage and disposal of recovered waste, contaminated soil or surface water, or any other material that results from an explosion, fire, or release at the facility; and
2. Ensure that no material that is incompatible with the released material is transferred, stored, or disposed of in areas of the facility affected by the incident until cleanup procedures are completed.

EMERGENCY RESPONSE	AMBULANCE, FIRE, POLICE AND CHP	9-1-1	
PHONE NUMBERS:	CALIFORNIA STATE WARNING CENTER (CSWC)/CAL OES	(800) 852-7550	
	NATIONAL RESPONSE CENTER (NRC)	(800) 424-8802	
	POISON CONTROL CENTER	(800) 222-1222	
	LOCAL UNIFIED PROGRAM AGENCY (UPA)	(559) 600-3271	C1.
	OTHER (Specify): Sheriff's Dispatch for Environmental Health (CUPA after hours)	(559) 600-3111	C2. C3.
NEAREST MEDICAL FACILITY / HOSPITAL NAME:	Community Regional Medical Center - Fresno	(559) 459-6000	C4. C5.

AGENCY NOTIFICATION PHONE NUMBERS:	CALIFORNIA DEPT. OF TOXIC SUBSTANCES CONTROL (DTSC)	(916) 255-3545	
	REGIONAL WATER QUALITY CONTROL BOARD (RWQCB)	(559) 445-5116	C6.
	U.S. ENVIRONMENTAL PROTECTION AGENCY (US EPA)	(800) 300-2193	
	CALIFORNIA DEPT. OF FISH AND WILDLIFE (CDFW)	(916) 358-2900	
	U.S. COAST GUARD (USCG)	(202) 267-2180	
	CAL OSHA	(916) 263-2800	
	CAL FIRE OFFICE OF THE STATE FIRE MARSHAL (OSFM)	(916) 323-7390	
	OTHER (Specify): San Joaquin Valley APCD - Central Region	(559) 230-6000	C7. C8.
	OTHER (Specify): PSC Industrial Outsourcing, Inc.	(844) 338-5376	C9. C10.



### G. EMERGENCY EQUIPMENT

Check the applicable boxes to list emergency response equipment available at the facility, identify the location(s) where the equipment is kept, and indicate the equipment's capability, if applicable.

TYPE	EQUIPMENT AVAILABLE <small>G1.</small>	LOCATION <small>G2.</small>	CAPABILITY <small>G3.</small>
<i>EXAMPLE</i>	<input checked="" type="checkbox"/> CHEMICAL PROTECTIVE GLOVES	<i>SPILL RESPONSE KIT</i>	<i>SINGLE USE, OIL RESISTANT ONLY</i>
<b>Safety and First Aid</b>	1. <input type="checkbox"/> CHEMICAL PROTECTIVE SUITS, APRONS, AND/OR VESTS	Fresno Service Center	Personal Protection
	2. <input type="checkbox"/> CHEMICAL PROTECTIVE GLOVES	Fresno Service Center	Personal Protection
	3. <input type="checkbox"/> CHEMICAL PROTECTIVE BOOTS	Fresno Service Center	Personal Protection
	4. <input type="checkbox"/> SAFETY GLASSES, GOGGLES, AND FACE SHIELDS	Fresno Service Center	Personal Protection
	5. <input type="checkbox"/> HARD HATS	Vehicles	Company Issued
	6. <input type="checkbox"/> AIR-PURIFYING RESPIRATORS		
	7. <input type="checkbox"/> SELF-CONTAINED BREATHING APPARATUS (SCBA)		
	8. <input type="checkbox"/> FIRST AID KITS		
	9. <input type="checkbox"/> PLUMBED EYEWASH FOUNTAIN AND/OR SHOWER		
	10. <input type="checkbox"/> PORTABLE EYEWASH KITS AND/OR STATION		
	11. <input type="checkbox"/> OTHER		
<b>Fire Fighting</b>	12. <input type="checkbox"/> PORTABLE FIRE EXTINGUISHERS		
	13. <input type="checkbox"/> FIXED FIRE SUPPRESSION SYSTEMS AND/OR SPRINKLERS		
	14. <input type="checkbox"/> FIRE ALARM BOXES		
	15. <input type="checkbox"/> OTHER		
<b>Spill Control and Clean-Up</b>	16. <input type="checkbox"/> ALL-IN-ONE SPILL KIT		
	17. <input type="checkbox"/> ABSORBENT MATERIAL	Fresno Service Center	Spill Cleanup
	18. <input type="checkbox"/> CONTAINER FOR USED ABSORBENT	Fresno Service Center	Spill Cleanup
	19. <input type="checkbox"/> BERM AND/OR DIKING EQUIPMENT		
	20. <input type="checkbox"/> BROOM		
	21. <input type="checkbox"/> SHOVEL		
	22. <input type="checkbox"/> VACUUM		
	23. <input type="checkbox"/> EXHAUST HOOD		
	24. <input type="checkbox"/> SUMP AND/OR HOLDING TANK		
	25. <input type="checkbox"/> CHEMICAL NEUTRALIZERS		
	26. <input type="checkbox"/> GAS CYLINDER LEAK REPAIR KIT		
	27. <input type="checkbox"/> SPILL OVERPACK DRUMS	Fresno Service Center	5, 55 and 85-gallon drums
	28. <input type="checkbox"/> OTHER	See Facility Layout Map	Basin
<b>Communications and Alarm Systems</b>	29. <input type="checkbox"/> TELEPHONES (e.g., Cellular)	Vehicles (Cell Phones)	Communication
	30. <input type="checkbox"/> INTERCOM AND/OR PA SYSTEM		
	31. <input type="checkbox"/> PORTABLE RADIOS	Vehicles	Communication
	32. <input type="checkbox"/> AUTOMATIC ALARM CHEMICAL MONITORING EQUIPMENT		
<b>Other</b>	33. <input type="checkbox"/> OTHER		
	34. <input type="checkbox"/> OTHER		

\* Spill Control Equipment located at Fresno Service Center, 3530 E California Avenue, Fresno, CA.

<b>H. EARTHQUAKE VULNERABILITY</b>			
Identify areas of the facility that are vulnerable to hazardous materials releases due to seismic motion. These areas require immediate isolation and inspection.			
VULNERABLE AREAS (Check all that apply): <span style="float: right;">H1.</span> <input checked="" type="checkbox"/> 1. HAZARDOUS MATERIALS AND/OR WASTE STORAGE AREAS <input type="checkbox"/> 2. PROCESS LINES AND PIPING <input type="checkbox"/> 3. LABORATORY <input type="checkbox"/> 4. WASTE TREATMENT AREA	LOCATIONS (e.g., Shop, outdoor shed, lab): <span style="float: right;">H2.</span> Oil-Filled Operating Equipment, Gas Circuit Breakers		
Identify mechanical systems vulnerable to releases / spills due to earthquake-related motion. These systems require immediate isolation and inspection.			
VULNERABLE SYSTEMS AND/OR EQUIPMENT (Check all that apply): <span style="float: right;">H3.</span> <input checked="" type="checkbox"/> 1. SHELVES, CABINETS AND/OR RACKS <input type="checkbox"/> 2. TANKS AND SHUT-OFF VALVES <input checked="" type="checkbox"/> 3. PORTABLE GAS CYLINDERS <input type="checkbox"/> 4. EMERGENCY SHUT-OFF AND/OR UTILITY VALVES <input type="checkbox"/> 5. SPRINKLER SYSTEMS <input type="checkbox"/> 6. STATIONARY PRESSURIZED CONTAINERS (e.g., Propane tank)	<span style="float: right;">H4.</span> Control Building (Battery Racks)  Attached to Oil-Filled Operating Equipment		
<b>I. EMPLOYEE TRAINING</b>			
Employee training is required for all employees and/or contractors handling hazardous materials and/or hazardous wastes during normal and/or emergency operations. Most facilities will need to submit a separate Training Plan. However, your CUPA may accept this section as the Training Plan for some small facilities. Employee training plans may include the following content:			
<table style="width:100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>• Applicable laws and regulations;</li> <li>• Emergency response plans and procedures;</li> <li>• Safety Data Sheets;</li> <li>• Hazard communication related to health and safety;</li> <li>• Methods for safe handling of hazardous substances;</li> <li>• Hazards of materials and processes (e.g., fire, explosion, asphyxiation);</li> <li>• Hazard mitigation, prevention and abatement procedures;</li> <li>• Coordination of emergency response actions;</li> <li>• Notification procedures for local emergency responders, CUPA, Cal OES, and onsite personnel;</li> </ul> </td> <td style="width: 50%; vertical-align: top;"> <ul style="list-style-type: none"> <li>• Communication and alarm systems;</li> <li>• Personal protective equipment;</li> <li>• Use and maintenance of emergency response equipment and supplies (e.g. Fire extinguishers, respirators, spill control materials);</li> <li>• Decontamination procedures;</li> <li>• Evacuation procedures and evacuation staging locations;</li> <li>• Identification of facility areas, equipment, and systems vulnerable to earthquakes and other natural disasters.</li> <li>• OTHER (Specify):</li> </ul> </td> </tr> </table>		<ul style="list-style-type: none"> <li>• Applicable laws and regulations;</li> <li>• Emergency response plans and procedures;</li> <li>• Safety Data Sheets;</li> <li>• Hazard communication related to health and safety;</li> <li>• Methods for safe handling of hazardous substances;</li> <li>• Hazards of materials and processes (e.g., fire, explosion, asphyxiation);</li> <li>• Hazard mitigation, prevention and abatement procedures;</li> <li>• Coordination of emergency response actions;</li> <li>• Notification procedures for local emergency responders, CUPA, Cal OES, and onsite personnel;</li> </ul>	<ul style="list-style-type: none"> <li>• Communication and alarm systems;</li> <li>• Personal protective equipment;</li> <li>• Use and maintenance of emergency response equipment and supplies (e.g. Fire extinguishers, respirators, spill control materials);</li> <li>• Decontamination procedures;</li> <li>• Evacuation procedures and evacuation staging locations;</li> <li>• Identification of facility areas, equipment, and systems vulnerable to earthquakes and other natural disasters.</li> <li>• OTHER (Specify):</li> </ul>
<ul style="list-style-type: none"> <li>• Applicable laws and regulations;</li> <li>• Emergency response plans and procedures;</li> <li>• Safety Data Sheets;</li> <li>• Hazard communication related to health and safety;</li> <li>• Methods for safe handling of hazardous substances;</li> <li>• Hazards of materials and processes (e.g., fire, explosion, asphyxiation);</li> <li>• Hazard mitigation, prevention and abatement procedures;</li> <li>• Coordination of emergency response actions;</li> <li>• Notification procedures for local emergency responders, CUPA, Cal OES, and onsite personnel;</li> </ul>	<ul style="list-style-type: none"> <li>• Communication and alarm systems;</li> <li>• Personal protective equipment;</li> <li>• Use and maintenance of emergency response equipment and supplies (e.g. Fire extinguishers, respirators, spill control materials);</li> <li>• Decontamination procedures;</li> <li>• Evacuation procedures and evacuation staging locations;</li> <li>• Identification of facility areas, equipment, and systems vulnerable to earthquakes and other natural disasters.</li> <li>• OTHER (Specify):</li> </ul>		
Check the applicable boxes below to indicate how the employee training program is administered.			
<input checked="" type="checkbox"/> 1. FORMAL CLASSROOM <input checked="" type="checkbox"/> 2. VIDEOS <input checked="" type="checkbox"/> 3. SAFETY MEETINGS <input type="checkbox"/> 4. STUDY GUIDES / MANUALS <span style="float: right;">H1.</span>			
<input checked="" type="checkbox"/> 5. OTHER (Specify): <u>This is an unstaffed facility. Unscheduled and scheduled site visits conducted by appropriately trained personnel.</u> <span style="float: right;">H2.</span>			
<input type="checkbox"/> 6. NOT APPLICABLE SINCE FACILITY HAS NO EMPLOYEES <span style="float: right;">H3.</span>			
<input type="checkbox"/> 7. CHECK IF A SEPARATE EMPLOYEE TRAINING PLAN IS USED AND UPLOADED TO CERS AS A PDF DOCUMENT <span style="float: right;">H4.</span>			
<input type="checkbox"/> 8. CHECK IF EMPLOYEE TRAINING IS COVERED BY THE ABOVE REFERENCED CONTENT AND OTHER DOCUMENTS ONSITE <span style="float: right;">H5.</span>			
<b>EMPLOYEE TRAINING FREQUENCY AND RECORDKEEPING TRAINING MUST BE:</b>			
<ul style="list-style-type: none"> <li>• Provided initially for new employees as soon as possible following the date of hire. New employees should not work in an unsupervised position that involves hazardous materials handling and/or hazardous waste management without proper training;</li> <li>• Provided within six months from the date of hire for new employees at a large quantity generator;</li> <li>• Ongoing and provided at least annually;</li> <li>• Amended prior to a change in process or work assignment;</li> <li>• Given upon modification to the Emergency Response/Contingency Plan.</li> </ul>			
<b>Large Quantity Generator Training:</b> Large quantity generators (1,000 kg or more) must retain written plan and documentation of employee training which includes: <ul style="list-style-type: none"> <li>• A written description of the type and amount of both initial and ongoing training that will be given to persons filling each job position having responsibility for hazardous waste management and/or emergency response.</li> <li>• The name, job title and job description for each position at the facility related to hazardous waste management.</li> <li>• Current employee training records must be retained until closure of the facility and former employee training records must be retained for at least three years after termination of employment.</li> </ul>			
<b>Small Quantity Generator Training:</b> Small quantity generators (less than 1,000 kg) must include basic hazardous waste management and emergency response procedures but a written employee training plan and training records are not required. In order to show that the facility has met the small quantity generator employee training requirement, an employee training plan and training records may be made available.			
<b>Hazardous Materials Business Plan Training:</b> Businesses must provide initial and annual employee training that includes the content referenced above. The training may be based on the job position and training records must be made available for a period of at least three years.			
<b>J. LIST OF ATTACHMENTS</b>			
Check one of the following: <span style="float: right;">H1.</span>			
<input type="checkbox"/> 1. NO ATTACHMENTS ARE REQUIRED; or <span style="float: right;">H2.</span>			
<input checked="" type="checkbox"/> 2. THE FOLLOWING DOCUMENTS ARE ATTACHED:			
<b>Hazardous Materials Business Plan Inspection Checklist</b>			

**Attachment**

**Hazardous Materials Business Plan Inspection Checklist**



### Substation Condition Assessment Checklist

For complete information for each item below, refer to the SMCM, "Substation Inspections."

Station Name: \_\_\_\_\_ Inspector's Name: \_\_\_\_\_ Date: \_\_\_\_\_

√ = OK X = Needs Repair NA or "-" = Not Applicable



Put applicable "Comments" on the next page

Code = Service Work Priority Code: 1 = Immediate; 2 = 30 days; 3 = 6 months; 4 = 1 year

√:X:NA Code

√:X:NA Code

√:X:NA Code

√:X:NA Code	General Conditions	√:X:NA Code	Battery voltage and charging rate	√:X:NA Code	Circuit Breakers
	Signs on fences, walls and gates		Cell temperature (vented batteries)		Oil levels
	Gate security and bonding		Ground indication		Mechanical CB position indicator
	Fence, wall, and perimeter conditions		Continuity test		CB operations counter
	Landscape maintenance		<b>Standby Generators</b>		Overcurrent and reclosing relays
	Third-party fence connections		Alarm panel		Position-indicating lights
	Stored equipment		Engine and generator equipment		Mechanism and control power
	Equipment case grounds		Emergency generator/engine log		Air and hydraulic systems
	Equipment paint		<b>Mobile Equipment Checks</b>		Spring-wound mechanisms
	Low-profile barriers		Mobile inspection forms		Local annunciator
	Yard lighting		Readings		Cabinet and heater conditions
	Yard and roadway conditions		Mobile logbook		Mechanism general condition
	Weeds and trash		<b>In-Service High-Voltage Fuses</b>		Decals, labels, and signs
	Wood poles		Condition		SF <sub>6</sub> gas pressure from alarm point
	Lattice structures and metal poles		Liquid levels		Online timing monitors
	Insulators		<b>Bushings and Animal Guards</b>		Line reclosers used for CBs
	Bus work and conductors		Oil indication		<b>Capacitor Bank Checks</b>
	Cable risers and pot heads		Damage and contamination		Blown fuses
	Confined spaces		Connections		Damaged capacitor units
	Pull boxes		Insulator coatings		Insulation
	Remote energized equipment		Animal guards		Control equipment
	Compressed gas cylinders		<b>Surge (Lightning) Arrestors</b>		Capacitor counter readings
	Equipment numbers and nameplates		Device		Switching devices
	Switch-operating platforms		Leakage current meter		Bypass switches
	Bird protection		<b>Transformer Checks</b>		Air systems
	Fire protection systems and plans		Transformer oil levels		Nitrogen pressure
	Radio frequency (RF) equipment		Radiators and cooling equipment		Structure and conductors
	Vegetation encroachment		Oil preservation systems		Signs
	<b>Buildings and Switchboards</b>		Oil and winding temperatures		<b>Circuit Switchers</b>
	Doors and window security		Cabinet and heater conditions		Target indicators
	Station logbook		Local annunciators		Live parts and apparatus
	Neat and clean		Pressure-relief indicating flags		Control cabinet
	Protective relays		Unusual noises or odors		<b>MOASs and SEOs</b>
	Switchboards and control panels		Signs, decals, and labels		Live parts and apparatus
	SCADA RTU cabinets		<b>Regulator and LTC Checks</b>		Load- and quick-break devices
	Meters and recording charts		Position indicators and drag hands		Control cabinet
	Building lighting		Oil preservation systems		<b>Disconnect Switches</b>
	Rain leaks and roof inspections		Radiators and cooling equipment		General condition
	Ventilation and sump pump equipment		Operations counters		Latches
	Posted station single-line diagram		Pressure-relief indicating flags		Locks and tags
	Station supplies		Local annunciator		Load- and quick-break devices
	Spare fuse inventory		Control power and switch positions		<b>Reactors, Air-Core or Oil-Filled</b>
	Emergency information		Drive motors and drive mechanism		Abnormal conditions
	Portable grounds and live line tools		Cabinet and heater conditions		Oil levels
	Stored spare parts and misc. equip.		Oil temperature gauges		<b>Instrument Transformers</b>
	Station prints and instruction manuals		Temperature differential readings		Abnormal conditions and grounds
	<b>Alarms, Annunciators and Communication</b>		Gas-accumulation gauges		Oil levels
	Alarm annunciators		Tap-changer breather devices		Gas pressure
	Telephone checks		Online oil-filtration systems		<b>Synchronous Condensers</b>
	Remote Alarm Tests		Oil-level gauges		Abnormal conditions
	<b>Batteries and Rack Checks</b>		Voltage recording chart		<b>Static Var Compensators</b>
	Cleanliness and general condition		Unusual noises or odors		Abnormal conditions
	Corrosion, leaks, and damage		Check the LTC operation		<b>Other Substation Equipment</b>
	Electrolyte level		Signs and labels		Abnormal conditions
	Vent caps				
	Battery Rack Grounded				



Substation Condition Assessment Checklist

Comments:

Performed By: \_\_\_\_\_

Date: \_\_\_\_\_

Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_



**TD-3322M-F02, July 2013 Spill Prevention, Countermeasure, and Control (SPCC) Plan Inspections**

For complete information for each item below, refer to the SMCM, "Substation Inspections" section.

Station Name: \_\_\_\_\_ Inspector's Name: \_\_\_\_\_ Date: \_\_\_\_\_

√ = OK X = Needs Repair NA or "-" = Not Applicable



Put applicable "Comments" on this page

Code = Service Work Priority Code: 1 = Immediate; 2 = 30 days; 3 = 6 months; 4 = 1 year

√:X:NA Code

√:X:NA Code

Above-Ground Oil Storage Tanks		Piping and Oil Transfer Equipment	
<input type="checkbox"/>	Tank leakage	<input type="checkbox"/>	Leakage
<input type="checkbox"/>	Leakage on the ground	<input type="checkbox"/>	Equipment integrity
<input type="checkbox"/>	Tank integrity	<input type="checkbox"/>	Leak containment
<input type="checkbox"/>	Supports and foundation	<b>Oil Retention Ponds, Catch Basins, and Spill Containment Areas</b>	
<input type="checkbox"/>	Leak containment	<input type="checkbox"/>	Evidence of oil
Portable Plastic Oil Storage Tanks		<input type="checkbox"/>	Leakage from valve
<input type="checkbox"/>	Tank leakage	<input type="checkbox"/>	Damage
<input type="checkbox"/>	Leakage on the ground	<input type="checkbox"/>	Safety chains or fence barriers
<input type="checkbox"/>	Surface cracks	<input type="checkbox"/>	Debris
<input type="checkbox"/>	Leak containment	<input type="checkbox"/>	Pumps
Mobile Oil Tanker Trailer		<input type="checkbox"/>	Signs
<input type="checkbox"/>	Tank leakage	Substation Equipment Oil Leaks*	
<input type="checkbox"/>	Leakage on the ground	<input type="checkbox"/>	Leaks*
<input type="checkbox"/>	Tank integrity	<input type="checkbox"/>	Repairs
<input type="checkbox"/>	Leak containment	<input type="checkbox"/>	Containment

Clearance

PCB

Leak Repairs Made?

Required?

\*Equipment Oil Leak Locations: (Continue on Supplemental Sheet if necessary)

Level

Y or N

Y or N

1	_____	_____	_____	_____
2	_____	_____	_____	_____
3	_____	_____	_____	_____
4	_____	_____	_____	_____
5	_____	_____	_____	_____

Comments: Document the following SPCC information: comments for all abnormal conditions found during the inspection; any repairs made or work performed; and any containment materials used or replaced.

**TD-3322M-F02, July 2013 Hazardous Materials Business Plan (HMBP) Inspections**

For complete information for each item below, refer to the SMCM, "Substation Inspections" section.

Compare the onsite Hazardous Materials Business Plan (HMBP) with actual site conditions to identify whether there have been:

	Y*	N
1 Changes in the primary or alternate <b>emergency contact</b> or contact information?	<input type="checkbox"/>	<input type="checkbox"/>
2 Changes in the <b>facility layout</b> ?	<input type="checkbox"/>	<input type="checkbox"/>
3 Changes in <b>equipment</b> ?	<input type="checkbox"/>	<input type="checkbox"/>
4 An increased <b>volume</b> of existing onsite hazardous materials?	<input type="checkbox"/>	<input type="checkbox"/>
5 Any <b>new types of hazardous substances</b> brought on site?	<input type="checkbox"/>	<input type="checkbox"/>

\* For any YES answers:

Immediately notify the **primary** emergency contact.

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_

Primary: immediately notify **environmental field specialist**.

Person Notified: \_\_\_\_\_ Date: \_\_\_\_\_

**The substation maintenance supervisor must review all pages of this form. Keep the form on file at the local headquarters.**



**ATTACHMENT C: SPILL OR RELEASE NOTIFICATION**

**SPILL OR RELEASE NOTIFICATION**

FACILITY NAME: \_\_\_\_\_

REPORT DATE: \_\_\_\_\_

FACILITY OWNER/OPERATOR: Pacific Gas & Electric Co.  
P.O. Box 770000  
San Francisco, CA 94177

FACILITY ADDRESS: \_\_\_\_\_

CITY/COUNTY: \_\_\_\_\_

ZIP CODE: \_\_\_\_\_

DATE/YEAR OF INITIAL OPERATION: \_\_\_\_\_

MAXIMUM STORAGE/HANDLING CAPACITY

OF THE FACILITY: \_\_\_\_\_

NORMAL DAILY THROUGHPUT: \_\_\_\_\_

**1. RELEASE INFORMATION**

LOCATION/AREA: \_\_\_\_\_

RELEASE: On-Site \_\_\_ Off-Site \_\_\_ Waterway \_\_\_ Air \_\_\_ Ground \_\_\_ Other \_\_\_

DATE AND TIME OF INCIDENT: \_\_\_\_\_

MATERIALS RELEASED: \_\_\_\_\_

PHYSICAL STATE: Solid \_\_\_ Liquid \_\_\_ Gas \_\_\_

ESTIMATED AMOUNT RELEASED: \_\_\_\_\_ DURATION OF RELEASE: \_\_\_\_\_

CAUSE OF RELEASE (INCL. A FAILURE ANALYSIS OF SYSTEM/SUB-SYSTEM IN WHICH THE FAILURE OCCURRED): \_\_\_\_\_

**2. CORRECTIVE ACTION SUMMARY**

CONTAINMENT: \_\_\_\_\_

EQUIPMENT AND/OR REPLACEMENT: \_\_\_\_\_

PREVENTION OF POSSIBILITY OF RECURRENCE: \_\_\_\_\_

CLEANUP: \_\_\_\_\_

TIME AND DATE CLEANUP COMPLETED: \_\_\_\_\_

WASTE SAMPLES TAKEN: \_\_\_\_\_

QUANTITY AND DISPOSITION OF WASTES: \_\_\_\_\_

**3. HAZARD ASSESSMENT**

HUMAN HEALTH: \_\_\_\_\_

Acute or Immediate \_\_\_\_ Chronic or Delayed \_\_\_\_ Unknown \_\_\_\_

PROPERTY: \_\_\_\_\_

ENVIRONMENT: \_\_\_\_\_

**4. RECORDABLE OR REPORTABLE INFORMATION**

RECORDABLE INCIDENTS: Complete Sections 1-3 above and sign below.

REPORTABLE INCIDENTS: Complete the entire Spill Report, including the agency contact information below:

**AGENCY      CONTACT NAME:                      DATE    TIME**

County: \_\_\_\_\_

Local Fire Dept.: \_\_\_\_\_

CAL-EPA:  
\_\_\_\_\_

OES:  
\_\_\_\_\_

NRC:  
\_\_\_\_\_

RWQCB:  
\_\_\_\_\_

ARB:  
\_\_\_\_\_

Signature:  
\_\_\_\_\_

Print Name/Title: \_\_\_\_\_ Telephone # \_\_\_\_\_

**ATTACHMENT D: ENVIRONMENTAL DAILY CHECKLISTS**

**Sanger Substation Expansion Project**  
 PG&E Weekly Compliance Checklist and Summary  
 for the Construction Phase (submit to CPUC weekly)

Report #: PG&E-WC- (format: PG&E-WC-mmddyy)  
 Completed by:  
 Position:  
 Organization:

Day of Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Date (mm/dd/yy)							
<b>A. Daily Work Hours and Workforce</b>							
Start Time (hh:mm am/pm)							
Stop Time (hh:mm am/pm)							
Active Construction (# of crews/# personnel)							
Resource Monitors (# onsite)							
<b>B. Daily Construction Activities – Check only if applicable</b>							
1. Mobilized materials/equipment or prepared work areas	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Cleared or trimmed vegetation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Conducted earthwork (grading, trenching, or other ground disturbance)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Developed Site Surfaces (work areas or access roads, etc.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Installed underground lines or vaults	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Installed electrical equipment, buildings, etc.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Installed distribution/transmission poles or towers	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Installed overhead lines	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Helicopter Activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Site cleanup or restoration	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Demobilization activities	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Other:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>C. Daily Compliance Activities – Check only if applicable and implemented adequately without incident</b>							
<b>General Avoidance and Minimization Measures</b>							
1. All onsite personnel have attended Worker Environmental Awareness Training (MM BIO-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Project activities limited to approved work areas and access roads (APM BIO-1, APM BIO-8)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Agricultural impacts minimized, topsoil restored, property damage repaired (APM AGR-1, MM AGR-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Fugitive dust emissions are minimized (APM AIR-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Greenhouse gas emissions are minimized (APM GHG-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Special status wildlife avoided (MM BIO-2, MM BIO-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. Trenches/excavations checked for wildlife (APM BIO 11)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Day of Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Date (mm/dd/yy)							
8. Active bird nests/burrows impacts are avoided (MM BIO-4, MM BIO-6, MM BIO-7)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Erosion or sediment control measures (APM GEO-2, APM WQ-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Invasive weed measures implemented (APM BIO-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Hazardous materials, refueling, and waste management requirements followed (APM BIO-6, MM HAZ-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Fire prevention measures implemented (MM HAZ-2)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Cultural, paleontological, and tribal resource measures implemented (APM CUL-4, APM PAL-1, MM CUL-1, MM CUL-2, MM CUL-3, MM CUL-4, MM CUL-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14. Construction noise reduction measures (APM NOI-2, APM NOI-3, APM NOI-4, APM NOI-6)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15. Glare and nighttime lighting directed away from sensitive receptors (MM AES-1, MM BIO-5)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16. Traffic control measures implemented (MM TRAN-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17. All other applicable MMCRP measures implemented	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b><i>PG&amp;E Specialty Monitoring Provided</i></b>							
1. Special status wildlife (MM BIO-2, MM BIO-3)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Nesting birds/burrowing owls (MM BIO-3, MM BIO-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Cultural Resources (MM CUL-1)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Paleontological resources (MM CUL-4)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>D. PG&amp;E Tally of Weekly Incidents - enter numbers</b>							
Compliance Level 1 Minor Problem:							
Compliance Level 2 Compliance Deviation:							
Compliance Level 3 Non-compliance:							
<b>Total Compliance Level Incidents</b>							
Health and Safety Incidents							
Public Complaints							
<b>Total Incidents</b>							

**Comments on Construction Compliance and Status/Progress:**

**Summary of Compliance Incidents this Week** (for each incident provide date, corresponding incident report number, name of reporter, brief summary of incident, corrective actions taken, and if any follow-up actions are still required as of this weekly report date):

Date	Compliance Level Issue, Resolution, and Follow-up Required	Relevant APM or MM	Incident Report Number

**Previous Compliance Level Incidents that Requiring Follow-up this Week:**

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