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**PACIFIC GAS & ELECTRIC COMPANY**

**PROJECT NAME**

**HAZARDOUS MATERIALS MANAGEMENT PLAN (HMMP)**

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**[DATE OF PLAN]**

PREPARED FOR:



PREPARED BY:

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## **LIST OF ATTACHMENTS**

Attachment A: Emergency Contacts

Attachment B: Consolidated Emergency Response/Contingency Plan

Attachment C: PG&E Utility Standard: SAFE-1001S and ENVR 0100

Attachment D: Spill or Release Notification

# 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 [insert site/project name] (Project). **Provide a brief scope of work** 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 **Applicant Proposed Measure (APM) 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 the **APM HAZ-1**. The Plan will pertain to all areas of the Project, including staging areas.

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## **APM HAZ-1: Hazardous Substance Control and Emergency Response.**

The project proponents will implement hazardous substance control and emergency response procedures as needed. The procedures identify methods and techniques to minimize the exposure of the public and site workers to potentially hazardous materials during all phases of project construction through operation. They address worker training appropriate to the site worker's role in hazardous substance control and emergency response. The procedures also require implementing appropriate control methods and approved containment and spill-control practices for construction and materials stored on site. If it is necessary to store chemicals on site, they will be managed in accordance with all applicable regulations. Material safety data sheets will be maintained and kept available on site, as applicable.

In the event that soils suspected of being contaminated (on the basis of visual, olfactory, or other evidence) are removed during site grading activities or excavation activities, the excavated soil will be tested, and, if contaminated above hazardous waste levels, will be contained and disposed of at a licensed waste facility. The presence of known or suspected contaminated soil will require testing and investigation procedures to be supervised by a qualified person, as appropriate, to meet state and federal regulations.

All hazardous materials and hazardous wastes will be handled, stored, and disposed of in accordance with all applicable regulations, by personnel qualified to handle hazardous materials. The hazardous substance control and emergency response procedures include, but are not limited to, the following:

- Proper disposal of potentially contaminated soils.
- Establishing site-specific buffers for construction vehicles and equipment located near sensitive resources.
- Emergency response and reporting procedures to address hazardous material spills.

Stopping work at that location and contacting the County Fire Department Hazardous Materials Unit immediately if visual contamination or chemical odors are detected. Work will be resumed at this location after any necessary consultation and approval by the Hazardous Materials Unit.

## **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 or groundwater
- Provide for the proper handling, storage, and disposal of hazardous and non-hazardous waste that is used 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 environmental Field Representative (designated Field Representative) 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 Health and Safety Code (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:

- a list of products that will be used for this project.

Table 1: Hazardous Materials and Uses provides a list of hazardous materials and wastes anticipated to be used or produced during construction of the Project. Additional compounds and/or solvents may be used by PG&E's Contractors, as needed, provided that they meet local, state, and federal regulations and adhere to the requirements of this Plan.

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. In addition, an HMBP will be developed in the event hazardous materials are handled on site in quantities equal to or greater than 500 pounds, 55 gallons, or 200 cubic feet of gas, or at thresholds required by the local CUPA. If an HMBP is required, the HMBP will be submitted in the California Environmental Reporting System (CERS) in compliance with Chapter 6.95, Division 20 of the California HSC.

**Table 1: Hazardous Materials and Uses**

Hazardous Materials	Use/Product
[EXAMPLE: ABC fire extinguisher]	[Extinguish or control small fires]

### 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 (MSDS)
- 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:

- Provide guidelines for maintenance

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:

- List Vehicle and Equipment Fueling requirements

#### **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:

- List standard procedures

#### **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:

- List labeling standards

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. Refresher training will be provided to all personnel annually.

Training records will be maintained by the construction contractor. 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.

Construction contractor 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, conducting hazardous waste inspections, or involved in emergency response procedures will be trained on 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:

- List site-specific safety procedures in handling hazardous materials and emergency release response procedures

### **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 a spill does occur, it may include any of the hazardous materials specified in Table 1: Hazardous Materials and Uses. In addition, 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.

#### **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 Field Representative(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 Field Representative or designee will advise 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 as soon as possible following the discovery of a spill or release, as described in Table 2 and [Attachment B: Consolidated Emergency Response/Contingency Plan](#).

### 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. If a spill is reportable to any agency, notification will be provided as soon as possible to the CPUC and required agencies after the details of the spill or release are known. The individual who discovers the spill will immediately report it to PG&E's designated Field Representative(s), who will be PG&E's main point of contact at the construction sites and will coordinate with the designated Environmental Field Specialist(s).

When communicating with PG&E's designated Field Representative(s) regarding the spill, the individual who discovered the spill will provide the following details:

- [List details here](#)

PG&E's designated Field Representative(s) will contact emergency service providers about the spill, if necessary, as well as the designated Environmental Field Specialist(s). The designated Field Representative(s) or Environmental Field Specialist(s) 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 Emergency Management Agency (Cal EMA) and the [\[Agency name\]](#) (Certified Unified Program Agency [CUPA]) will be immediately notified. In addition, a written report to Cal EMA will be submitted within 30 days, as appropriate.<sup>1</sup> The procedures outlined in [Attachment B: Consolidated Emergency Response/Contingency Plan](#). Section C and Attachment D: Spill and Release Notification will be

followed to ensure that appropriate agency notifications are made. Records and test reports will be retained with the Project files for at least three years, and then will be archived.

**Table 3: Spill Notification Procedures**

Spill Characteristics	Notification Procedure
Customize to fit project	Customize to fit project

Other individuals and vehicles will be prevented from entering the release area until PG&E’s designated Environmental Field Specialist or Safety Representative is able to assess the situation for safety. 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:

- List procedures

### **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:

- List measures

The Contractor is also required to notify PG&E's Environmental Field Specialist and provide documentation of the spill and all clean-up procedures.

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## **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:

- List Procedures

PG&E's designated 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 designated 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 will be stored only at specified locations within the Project area during construction of the Project.

Construction waste may be stored on the work site for short periods of time, but hazardous waste will be removed at the end of the day and transported to designated storage areas. As stated in Section 3.1 Hazardous Materials Inventory, if an HMBP is required, a copy of the HMBP will be submitted to CERS and the CPUC within 30 days of bringing hazardous materials on site, in compliance with 20 HSC 6.95.

### **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:

- List measures for construction waste

### **3.4.4 Inspection**

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

- List waste management measures

### **3.4.5 Waste Minimization Procedures**

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

- List procedures

## **4 - REFERENCES**

**ATTACHMENT A: EMERGENCY CONTACTS**

ENVIRONMENTAL EMERGENCY TELEPHONE LIST

Public No.

**Company:**

**Primary Facility Emergency Coordinator:**

**Alternate Facility Emergency Coordinator:**

**Additional Company Resources:**

PG&E Media Representative (24 hr):

(415) 973-5930

PG&E Headquarters Telephone Operator:

(415) 973-7000

PG&E Safety Health & Claims Helpline (24 hr)

(415) 973-8700



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

**ATTACHMENT C: PG&E UTILITY STANDARD: SAFE-1001S AND ENVR-0100**

**ATTACHMENT D: SPILL OR RELEASE NOTIFICATION**

**SPILL OR RELEASE NOTIFICATION**