

# Hazardous Materials Management Plan

# Round Mountain 500 kilovolt (kV) Area Dynamic Reactive Support Project Fern Road Substation

June 2023

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### 1.0 INTRODUCTION

This Hazardous Materials Management Plan (HMMP; Plan) describes the measures to be taken by LS Power Grid California, LLC (LSPGC) and its contractors to address the proper storage, application, transportation, and disposal of hazardous materials in accordance with federal, state, and local regulations during construction of the Fern Road Substation (the "Project"), a component of the Round Mountain 500 kilovolt (kV) Area Dynamic Reactive Support Project. This Plan presents the activities to be conducted to support compliance with the Applicant Proposed Measures (APMs) detailed in **Table 1**. Compliance with the APMs will reduce potential impacts from hazardous materials used and hazardous waste generated during Project construction. This Plan provides instructions for the safe handling, storing, shipping, and containment of hazardous materials and waste; identification of owner/operator contact information; and an emergency response/contingency plan.

#### 1.1 **Project Description**

The Project, proposed by LSPGC, is comprised of construction of the proposed new Fern Road Substation located on an approximately 40-acre parcel of grazing land. The Project site is approximately 1.6 miles northwest of the unincorporated community of Whitmore and approximately 9.3 miles north of State Highway 44 in Shasta County, California. The Project includes the LSPGC Fern Road Substation facilities and the Pacific Gas and Electric Company's (PG&E) Round Mountain – Table Mountain #1 and #2 500 kV transmission lines. The existing transmission lines will be reconfigured to connect to bays located on the north and west sides of the Fern Road Substation. Transmission modifications will require removal of existing structures and construction of new structures to accommodate the integration of the transmission lines into the Fern Road Substation and the overall regional transmission system. The Fern Road Substation will be located east of Fern Road and east of the existing PG&E transmission right-of-way and will contain two static synchronous compensator (STATCOM) units, high voltage transformers, gas-insulated switchgear, and circuit breakers. Construction of this substation and access would permanently disturb approximately 11.4 acres.

### 1.2 Lead, Cooperating, and Consulting Agencies

#### 1.2.1. Lead Agency

Lead agencies have discretionary approval over the Project and are responsible for reviewing aspects of the measures documented in this Plan. The California Public Utilities Commission (CPUC) is California's lead agency responsible for compliance with the California Environmental Quality Act (CEQA) for project areas on non-federal lands. The CPUC issued an Initial Study/Mitigated Negative Declaration (IS/MND) on May 26, 2023, for the Project under CEQA.

#### 1.2.2. Cooperating Agencies

The Project is in Shasta County. The Shasta County Environmental Health Division is approved by the California Environmental Protection Agency (CalEPA) as the Certified Unified Program Agency (CUPA) responsible as the single point of contact for businesses to address hazardous materials inspection, permitting, billing, and enforcement issues. Concerning local agencies, the Shasta County Office of Emergency Services (OES) coordinates the development and maintenance of the Shasta County Emergency Operations Plan, while Shasta County, in cooperation with the city of Anderson, oversees the Shasta County and City of Anderson Multi-Jurisdictional Hazard Mitigation Plan.

#### 1.2.3. Consulting Agencies

Consulting agencies are public agencies, other than the lead agencies, that may provide guidance or information needed to satisfy the requirements of the measures contained in this Plan. Consulting agencies for the Project may include the U.S. Fish and Wildlife Service, the California Department of Fish and Wildlife, and the State Water Resources Control Board.

#### 1.3 Applicant Proposed Measures

The APMs addressed in this Plan are listed in **Table 1**. A HMMP is listed as a submittal requirement within APM HAZ-2 for the Project. The HMMP requirements have been incorporated into this Plan to facilitate the accessibility of the information for workers.

Prior to applicable construction activities, LSPGC will obtain all requisite permits addressing specific resources potentially impacted by the Project activities. An example includes, but may not be limited to, a Storm Water Pollution Prevention Plan (SWPPP). LSPGC anticipates that, in addition to the Mitigation Monitoring Reporting Program (MMRP) mitigation measures, each permit will include mitigation measures that may be directly and indirectly related to the subject matter of this Plan. While those mitigation measures are not known at this time, the implementation methods included in this Plan were derived from industry standards and tailored to comply with the MMRP mitigation measures, as well as the anticipated mitigation measures from the forthcoming permits. Upon execution of the permits, this Plan will be reviewed to determine if revisions are required to comply with the new mitigation measures.

	Table 1: Applicant Proposed Measures (APMs) Identified in the MMRP
Measure	Description
APM HAZ-2 (CPUC)	A HMMP would be prepared and implemented for the Project. The plan would be prepared in accordance with relevant state and federal guidelines and regulations (e.g., California Division of
	Occupational Safety and Health Administration [Cal/OSHA]). The plan would include the following information related to hazardous materials and waste, as applicable:
	<ul> <li>A list of hazardous materials present on site during construction and operation and maintenance (O&amp;M), including as an option the Contractor's digital and 24/hour on-call service for instant Safety Data Sheet (SDS) identification and evaluation in conjunction with on-site paper access, to be updated as needed along with product SDSs and other information regarding storage, application, transportation, and disposal requirements;</li> <li>A Hazardous Materials Communication (i.e., HAZCOM) Plan;</li> <li>Assignments and responsibilities of Project health and safety roles;</li> </ul>
	<ul> <li>Standards for any secondary containment and countermeasures required for hazardous materials;</li> </ul>
	<ul> <li>Spill response procedures based on product and quantity. The procedures would include materials to be used, location of such materials within the Project area, and disposal protocols; and</li> </ul>
	<ul> <li>Protocols for the management, testing, reporting, and disposal of potentially contaminated soils or groundwater observed or discovered during construction. This would include termination of work within the area of suspected contamination sampling by an OSHA-trained individual and testing at a certified laboratory.</li> </ul>
	The Project would also be equipped with lead-acid batteries to provide backup power for monitoring, alarm, protective relaying, instrumentation and control, and emergency lighting during power outages. Secondary containment would be constructed around and under the battery racks, and the HMMP would address containment from a battery leak.
	The plan would be provided to the CPUC prior to construction for recordkeeping. Plan updates would be made and submitted as needed if construction activities change whereas the existing plan does not adequately address the Project.
APM HAZ-3	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 shall be tested, and if contaminated above hazardous waste levels, shall be contained and disposed of at a licensed waste facility. The presence of known or suspected contaminated soil shall require testing and investigation procedures to be supervised by a qualified person, as appropriate, to meet state and federal regulations.
NOTE: The SWI	l PPP, Hazardous Materials Business Plan (HMBP), and Spill Prevention Control and Countermeasu
(SPCC) Plan are	separate plans and are not included in this HMMP.

#### 1.4 Applicable Activities and Project Areas

The activities addressed in this Plan include the proper use, handling, storage, and disposal of hazardous materials and waste; emergency response procedures in the event of a hazardous material release; and guidelines for identifying, assessing, excavating, storing, sampling, and disposing of impacted soil or water.

This Plan is applicable to all LSPGC components of the construction activities on the Project. The Plan will be implemented by LSPGC, the Prime Contractor (Contractor), and all subcontractors.

#### 1.5 Timing

The APMs described in this Plan are applicable for the following periods of the Project, as shown in **Table 2**.

Table 2: Timing of APM Applicability				
		Period		
Mitigation Measure	Description	Preconstruction (Mobilization)	During Construction (Active)	Post- construction (Restoration) <sup>1</sup>
APM HAZ-2	Prepare and implement a HMMP.		$\boxtimes$	$\boxtimes$
APM HAZ-3	Testing and investigation procedures for known or suspected soil contamination.		$\boxtimes$	
known or suspected soil contamination.       Image: Contamination in the project's Restoration Plan and all applicable rules and regulations.				

### 2.0 METHODS

This section includes a detailed description of the actions required to implement the applicable APMs for the Project. Unexpected contamination may be encountered during construction, and the use and storage of hazardous materials on site could result in accidental spills or releases that could threaten soil or groundwater if preventive measures are not established. Examples of hazardous materials that may be present on site, and their respective uses, are listed in **Table 3**. The following sections of this Plan include descriptions of the actions required to comply with the APMs required by the MMRP, as well as the responsibilities and coordination required between LSPGC and the Contractor to implement such actions. The SDS for each hazardous material stored on site will be maintained in **Appendix D** of this HMMP.<sup>1</sup>

Table 3: List of Proposed Hazardous Materials		
Hazardous Material	Purpose	
Diesel Fuel	For construction equipment and vehicles	
Gasoline	For construction equipment and vehicles	
Motor Oil	For construction equipment and vehicles	
Hydraulic Fluids and Lubricating Oils	For construction equipment and vehicles	
Lubricating Grease	For construction equipment and vehicles	
Antifreeze	For construction equipment and vehicles	
Transmission fluid	For construction equipment and vehicles	
Cement Slurry	Miscellaneous construction activities	
Compressed Gas (e.g., Oxygen and Acetylene)	For construction welding	
Welding Rods	For construction welding	
Sulfur Hexafluoride (and similar compressed gases)	Breaker insulator gas	
	For best management practice (BMP) installations	
Soil Stabilizers	during and after construction (restoration)	
Approved Herbicides	For treatment of invasive weeds, as necessary	
Lime	For soil amendment	
Paint, Thinners, and Cleaning Solvents	Miscellaneous construction activities	
Batteries	Emergency power for facility	
Penta Oil	Present on existing poles set to be removed	
Creosote	Present on existing poles set to be removed	
Chemonite	Present on existing poles set to be removed	
Chromated copper	Present on existing poles set to be removed	
Mineral Oil	Transformers for facility	
NOTE: Add as Necessary (Contractor to provide final list)		

#### 2.1 Hazardous Materials Management

The Contractor will be responsible for complying with federal, state, and local requirements for the handling, storage, transport, and disposal of hazardous materials and hazardous waste, as well as

<sup>&</sup>lt;sup>1</sup> **Appendix D** does not currently contain any SDS since the Contractor has not been confirmed at the time of the submittal of this HMMP. The SDS will be added to the onsite copy of this HMMP prior to construction, once the Contractor provides the manufacturers for the hazardous materials to be used during construction.

nonhazardous construction waste. The Contractor will be responsible for implementing the performance requirements identified in this Plan.

Contractor personnel responsible for handling hazardous materials and waste for the Project will be trained in accordance with the requirements set forth in the California Code of Regulations (CCR) Title 22, Division 4.5 (Environmental Health Standards for the Management of Hazardous Waste) regarding the proper use and management of these materials, and will be familiar with applicable laws, policies, procedures, and BMPs. Spill response personnel will be trained to work with hazardous materials and will be familiar with the Contractor's emergency response procedures. LSPGC personnel that visit or work on the construction site will also be familiar with and follow these applicable requirements. All construction personnel will be responsible for complying with federal, state, and local requirements, including applicable permits, laws, and ordinances related to hazardous materials and hazardous waste management.

APM HAZ-2 requires LSPGC to prepare and implement a Project-specific HMMP that identifies hazardous materials to be transported, used, and stored on site for the proposed construction activities, as well as hazardous wastes generated on site as a result of the proposed construction activities and appropriate management procedures.

This Plan covers the following topics:

- Hazardous materials handling is presented in Section 2.1.
- Hazardous waste handling is presented in Section 2.2.
- Transportation of hazardous materials procedures are presented in Section 2.3.
- Fueling and maintenance procedures for construction equipment are presented in Section 2.4.
- Emergency release response and communication procedures are presented in Section 2.5.
- Management of unanticipated contamination discovered on site is presented in Section 2.6.
- Requirements for a Hazardous Materials Business Plan are presented in Section 2.7.
- Environmental Protection Agency (EPA) identification number is presented in Section 2.8.

#### 2.1.1. Definition of Hazardous Material

Hazardous material is defined as any material that, due to its quantity, concentration, or physical characteristics, poses a significant present or potential hazard to human health and safety or to the environment if released into the workplace or environment. Generally, the term "hazardous material" refers to materials brought on site for use during construction either as part of the construction process (for example, diesel fuel used by construction equipment) or as part of the Project itself (for example, mineral oil used in transformers, which will remain on site during Project operations).

#### 2.1.2. Minimization of Hazardous Materials

The Project includes design specifications and O&M procedures to minimize the potential for the release of improper disposal of hazardous materials during Project operation. To the extent possible, the Contractor will minimize the use of hazardous materials. The Contractor will make every effort to use chemicals

presenting the least environmental hazard wherever possible. During construction activities, hazardous materials will be properly used, stored, and disposed of in accordance with manufacturer recommendations and local, state, and federal regulations. All Project personnel will be provided with Project-specific training to ensure that all hazardous materials and wastes associated with the Project are handled in a safe and environmentally sound manner and disposed of according to applicable rules and regulations. Specifically, employees handling wastes will have or receive hazardous materials training and will be trained in hazardous waste procedures, spill contingencies, waste minimization procedures, and treatment, storage and disposal facility (TSDF) training in accordance with current OSHA Hazard Communication Standard and Title 22 CCR.

#### 2.1.3. Hazardous Material Inventory

Hazardous materials stored on site and used during construction will be documented in the Hazardous Materials Inventory. The Hazardous Materials Inventory will also be submitted to the local CUPA for California sites as part of a HMBP, prepared for O&M of the facility. The CUPA will coordinate the provision of vital facility chemical and emergency response information. The Shasta County Environmental Health Division is approved as the CUPA for Shasta County. A Hazardous Materials Inventory Form is included in **Appendix A**. The Hazardous Materials Inventory Form will be completed by the Contractor for new material brought on site or if the amount to be stored on site changes significantly. The hazardous materials inventory will be maintained by the Contractor and be used by LSPGC to modify the HMBP for operation of the LSPGC facility as required by CCR Title 22, Division 4.5; and California Health and Safety Code (CHSC) Chapter 6.95 and applicable local regulations. The Contractor will maintain a current inventory of hazardous materials, provide SDS, and will communicate changes in the hazardous materials inventory to LSPGC.

#### 2.1.4. Storage and Transport

Hazardous materials will be stored in accordance with Code of Federal Regulations (CFR) Titles 40 and 49; NRS Chapter 459; and CCR Title 22, Division 4.5. Where possible, hazardous materials will be kept in their original containers and the containers will be clearly marked and periodically inspected. Procedures will be implemented by the Contractor to prevent leaks and spills during storage and transport, such as:

- Ensuring materials are stored in designated areas.
- Materials will be stored on impervious surfaces or within secondary containment to prevent spills or leaks from infiltrating the ground. Secondary containment will be constructed around and under battery racks.
- Only necessary quantities of materials will be stored.
- Hazardous materials containers must be marked correctly.
- Hazardous materials containers are kept closed.
- Hazardous materials containers must be in good condition.
- Only containers designated for storing hazardous materials will be used.

- Incompatible materials will be stored in segregated areas and will not be placed in the same containers.
- Hazardous waste containers will remain closed during transfer and storage, except when it is necessary to add or remove waste.
- Pressurized gas cylinders when not in use will be stored in a covered area with approved cylinder caps threaded and separated by classification.
- Non-saturated oily rags (to be laundered) will be stored in non-combustible containers.
- All hazardous materials signs must be displayed as required.
- Only personnel trained to accept, unload, package, label, load, prepare shipping papers, and transport hazardous materials will be allowed to perform these tasks.
- No hazardous materials will be stored in wetlands, waterways, and waterbodies.
- Hazardous material stored in suitable habitat for special-status species will be limited to designated areas within approved work areas.
- Emergency equipment such as fire extinguishers, eye wash, Materials Safety Data Sheet (MSDS), etc. will remain on site.
- Each 500 kV transformer would be designed to include secondary containment that would capture the accidental release of hazardous materials.

Transportation procedures will include monthly inspections of storage and containment areas, inspection of containers prior to transport, and documentation of corrective actions taken to prevent leaks and spills.

Qualified personnel will properly label hazardous materials containers, keep containers in good condition, follow written procedures for the transport of hazardous materials, and transport hazardous materials in accordance with all federal, state, and local requirements.

The written procedures and potential routes for the transport of hazardous materials will be mapped and provided to LSPGC by the Contractor prior to construction.

#### 2.1.5. Inspections and Records

The Contractor will regularly inspect hazardous materials storage areas for spills or leaks from containers. Regular inspections are BMPs that will be performed during construction to reasonably prevent spills or leaks. These inspections will be completed monthly. If a spill or leak is detected, immediate action will be taken to clean up and implement the necessary corrective actions. The inspections and corrective actions will be documented, and records maintained on site. A Spill Log/Report Form is included in **Appendix B**. A Spill Log/Report Form will be completed by the Contractor in the event a leak or spill is discovered. Reports will be provided electronically to LSPGC's Project Manager and the Contractor's Project management database.

Spill response procedures for larger spills will follow the corrective actions and notification protocols in **Section 2.5**.

#### 2.1.6. Performance Requirements

The following performance requirements related to hazardous materials management will be adhered to by the Contractor at a minimum:

- Minimize the use of hazardous materials to the extent possible. Use non-hazardous or less hazardous alternatives when possible.
- When feasible, limit the storage and transfer of hazardous materials to within construction yards or staging areas.
- Take preventative measures to avoid hazardous material spills or leaks.
- Promptly clean up spills or leaks and document the corrective action.
- Make proper notifications to the appropriate parties and agencies (see Section 2.5).
- Have hazardous materials SDS readily available on site.
- Properly label all containers indicating the contents and keep containers closed when not in use.
- Store incompatible materials in separate areas.
- Maintain a visible first aid station on material laydown sites.

#### 2.2 Hazardous Waste Management

The Contractor is fully responsible for identifying, handling, storing, and transporting hazardous wastes in accordance with CFR Titles 40 and 49, NRS Chapter 459.400-856, and CCR Title 22, Division 4.5. The Contractor will be responsible for implementing the hazardous waste management procedures in this Plan.

#### 2.2.1. Hazardous Waste Generation

All wastes must be characterized to determine whether the waste meets the criteria to be classified as a hazardous waste. The different waste characterizations that apply to the Project include:

- Resource Conservation and Recovery Act (RCRA) hazardous waste.
- Toxic Substances Control Act-regulated polychlorinated biphenyl (PCB) hazardous waste.
- California non-RCRA hazardous waste.
- Universal waste.

Once the waste characterization is determined, the waste will be directed to the appropriate waste stream. Typical wastes that may be generated during construction activities are paints, spent solvents, waste lubricants, spent oil-absorbent materials, and impacted soil. Though not anticipated, equipment that is decommissioned as part of the Project will be disposed of or recycled in accordance with CFR Title 40, NRS Chapter 459.400-856 and CCR Title 22, Division 4.5.

#### 2.2.2. Storage, Containerization, and Labeling

Hazardous waste will be accumulated and stored on site during construction. Hazardous waste will be managed by the Contractor in accordance with local, state, and federal guidelines. The Contractor will maintain a readily accessible supply of spill control measures, such as absorbent pads; implement secondary

containment measures as warranted; and conduct periodic inspections in accordance with state, federal, and local regulations. Accumulation periods will be monitored, and disposal of hazardous waste will occur in accordance with CCR Title 22, CFR Title 40 and NRS Chapter 459 Part 400.

Hazardous waste must be packaged in containers compatible with the waste and a completed label must be affixed at the time the waste is first added to the container. The hazardous waste generator who produces the waste must select an appropriate container and waste label. The container may be relabeled when additional characterization information becomes available.

#### 2.2.3. Transportation and Disposal

All hazardous wastes will be handled in a safe and environmentally sound manner. Hazardous wastes will only be stored at designated hazardous waste storage areas that would be used for hazardous waste collection or consolidation.

Hazardous waste must only be accumulated for a limited and specific amount of time. The length of time for the accumulation of hazardous waste is based on the waste profile, quantity, and the rate of generation. Hazardous waste has a 90-day limit (180 days for small quantity generators), PCBs greater or equal to 50 parts per million have a 30-day limit, and Universal Waste has a one-year limit.

Only approved hazardous waste transportation vendors and disposal facilities may be used to transport and dispose of hazardous waste. The Contractor must provide a list of hazardous waste transporters and facilities to LSPGC for approval prior to the start of construction. If a hazardous materials transporter is not on this list, a LSPGC Hazardous Waste Management Program Manager must approve any vendor that provides hazardous waste management services for LSPGC or LSPGC's contractors prior to transport. The Hazardous Waste Management Program Manager will also be notified prior to the Hazardous Waste Contractor providing services regarding the management of hazardous waste.

The Contractor will pack, label, store, handle, transport, and dispose of hazardous wastes in compliance with CCR Title 22, CFR Titles 40 and 49 and NRS Chapter 459 Parts 400 and 700. The Contractor will notify LSPGC and the appropriate agencies of any hazardous waste dumped by third parties in the work area.

Uniform Hazardous Waste Manifest (UHWM) training is required for employees who sign UHWMs. The transporter is required to leave the generator copy of the UHWM on site with LSPGC or the Contractor. An electronic copy will be sent to the LSPGC Project Manager or designee, and the original copy will be kept by the holder of the EPA identification or CalEPA identification number.

Hazardous materials greater than 440 pounds and less than 1001 pounds can be transported on PG&E vehicles if the proper Materials of Trade (MOT) shipping papers/MSDS accompanies the load. The Project Lead Environmental Inspector (LEI) will be contacted for additional guidance in these areas.

#### 2.2.4. Inspections and Records

The Contractor will regularly inspect hazardous waste storage areas for spills or leaks from containers. Regular inspections are BMPs that will be performed during construction to reasonably prevent spills or leaks. For hazardous waste storage areas, documented monthly inspections are required and records will be maintained on site. If a spill or leak is detected, immediate action will be taken to clean up and implement the necessary corrective actions. The inspections and corrective actions will be documented, and records maintained on site. A Spill Log/Report, provided in **Appendix B**, will be completed by the Contractor in the event a leak or spill is discovered. Reports will be submitted via email to the LSPGC Project Manager, and to the Contractor's Project management database.

The Contractor will notify LSPGC and the appropriate agencies of any hazardous waste dumped by third parties in the work area and document for the LSPGC Project Manager. The Contractor will document and maintain a record of contact of all agencies to be notified of hazardous waste dumped by third parties in the work area and provide copies of these records to LSPGC's Project Manager.

#### 2.2.5. Performance Requirements

As a summary, the following performance requirements related to hazardous waste management will be adhered to by the Contractor:

- Clearly identify and secure hazardous waste storage area.
- Take preventative measures to avoid spills or leaks in hazardous waste storage areas or during handling or transport of wastes.
- Promptly clean up spills or leaks and document the corrective action.
- Limit the storage of hazardous waste to designated storage areas.
- Prohibit overnight storage of hazardous waste in non-secure storage areas.
- When feasible, implement waste recycling programs for all applicable waste streams.
- Properly label all waste containers and keep incompatible wastes segregated.
- Assure that all containers are kept closed when waste is not actively being added or removed.
- Train construction personnel in proper hazardous waste management procedures.

#### 2.2.6. Spill Prevention, Control, and Countermeasures Plan for Construction and Operation

A site-specific SPCC Plan will be developed for the Project prior to the initiation of construction in accordance with APM HAZ-1 and federal regulations to protect the environment from spills of petroleum products (CFR Title 40). The Contractor and subcontractors will comply with the SPCC Plan, as applicable, and provide a hazardous materials inventory accordingly. The Contractors will also comply with the BMPs found in the SWPPP that relate to spill prevention, control, and cleanup. The SWPPP will be developed for the Project and will be separate from the SPCC Plan. Upon completion of the Project, a separate SPCC Plan will be developed for the newly constructed Fern Road Substation facility in accordance with federal regulations.

#### 2.2.7. Training

All personnel working on the Project will receive environmental training. This training does not relieve the Contractors of the responsibility to train employees as required by federal, state, and local regulations. Contractor personnel who handle hazardous wastes will have been trained in accordance with OSHA Hazardous Communication Standard; CFR Title 29, Part 1910; and CCR Title 8, Section 5194. Workers 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. Training records will be maintained per the applicable regulations referenced above.

#### 2.3 Transportation of Hazardous Materials

The Contractor will pack, label, store, handle, transport, and dispose of hazardous material and hazardous waste in compliance with CFR Titles 40 and 49, NRS Chapter 459, 400-856, and CCR Title 22, Division 4.5, and in accordance with United States Department of Transportation (USDOT) and California Department of Transportation (Caltrans) requirements.

The following hazardous material transport procedures will be met:

- First step, the shipper will provide proper identification and classification of the hazardous material as regulated by the USDOT in section 172.101.
- Shippers of hazardous materials will require Hazardous Materials (HM) registration (and potentially a Hazardous Materials Safety Permit), if the following hazardous material quantities are exceeded:
  - More than 25 kilograms (55 pounds) of a Division 1.1, 1.2, or 1.3 (explosive) material in a motor vehicle, rail car or freight container;
  - More than one liter per package of a material extremely poisonous by inhalation;
  - A hazardous material in a bulk packaging having a capacity of 3,500 gallons for liquids or gases, or more than 468 cubic feet for solids;
  - A shipment in other than bulk packaging of 5,000 pounds gross weight or more of one class of hazardous material for which the transport vehicle requires placarding; or
  - Any quantity of materials requiring placarding.

Hazardous Material Carriers will be responsible for the following labeling, handling, shipping, and reporting documents:

- Shipping paper (49 CFR Part 172 Subpart C).
- Placard and mark vehicle (49 CFR, Part 172, Subparts D, E, & F).
- Loading and unloading (49 CFR Parts 174-177).
- Compatibility and Packaging (49 CFR, Part 173, Subpart D & 49 CFR 173.22).
- Blocking and bracing.
- Incident reporting.

- Security plan (49 CFR, Part 172, Subpart G & I).
- Employee training.

No person may offer or accept a hazardous material for transportation in commerce unless that person is registered in conformance with subpart G of Part 107 of 49 CFR, if applicable, and the hazardous material is properly classed, described, packaged, marked, labeled, and in condition for shipment as required or authorized (49 CFR 171.2(a)).

For the Project, there are several state and interstate highways available for transport of hazardous materials from several domestic sources and regions. Truck routes to be used from these various regions will be provided to LSPGC prior to the start of construction.

#### 2.4 Fueling and Maintenance of Construction Equipment

The Contractor will be responsible for communicating the fueling and maintenance spill prevention measures to construction personnel to prevent leaks or spills of hazardous materials. The following fueling and maintenance spill prevention measures for construction equipment will be implemented, as applicable, during the construction on the Project:

- Plastic liners or drip pans will be placed under construction equipment while refueling.
- Plastic liners or other control measures will be used for fuel storage tanks and/or vehicle-mounted USDOT-approved fuel cells (transfer tanks) to prevent spills from directly contacting the soil.
- Drip pans or other control measures will be placed under construction equipment when not operating to capture oil leaks.
- Construction equipment will be inspected daily for leaks and failures.

The above spill prevention and equipment maintenance measures will be implemented during all construction activities. When it is not practicable to use these measures, personnel will use appropriate precautions to prevent spills through safe work procedures and will be efficient in spill response procedures.

#### 2.4.1. Sensitive Habitats

Spill prevention is particularly critical in and around any sensitive areas including habitats for special-status species and wetlands, waterways, and water bodies. The following preventative measures will be implemented during equipment fueling and maintenance activities:

- No fueling will occur within 100 feet of drains or the edge of wetlands, streams, or waterways with flowing water or within 75 feet of drains or waterways that are dry.
- Spills will be immediately cleaned up and reported as described in this plan.
- Applicable secondary containment and SWPPP BMPs will be implemented where hazardous materials must be stored or fueling must occur adjacent to sensitive habitats.

#### 2.5 Emergency Release Response Procedures

Emergency release response procedures provide guidance for personnel to respond safely and quickly to hazardous materials spills or releases to prevent adverse impact to human health or impact to surrounding environmental media such as streams, lakes, wetlands, or storm water system or sensitive areas including conservatories and wildlife areas. The emergency release response procedures stated in this section will be implemented by the Contractor for the Project and will include identification of roles, responsibilities, standards for notification and external reporting, and documentation required upon discovery of a release of hazardous material. The Contractor will follow the emergency release response procedures for the Project. Construction personnel, LSPGC personnel, construction monitors, and other field personnel will be trained on the emergency release response procedures. The emergency release response procedures will be documented on the Emergency Release Response Form provided in **Appendix C**.

The local Project LEI will be contacted immediately and work will be stopped if any of the following conditions occur. If these conditions occur after hours or if the local EFS is unavailable, the Environmental Hotline should be contacted at (800) 874-4043.

- Discharge or spill of hazardous substance.
- If an Environmental Regulator visits the site.
- Visually cloudy/muddy water is observed leaving the work area.
- A subsurface component related to site remediation activities (e.g., monitoring well, recover well, injection well) is discovered. No subsurface components may be impacted.

#### 2.5.1. Site Maps

The Contractor will provide site maps of the Project work areas that identify hazardous materials and hazardous waste storage areas and applicable BMPs for hazardous materials and hazardous waste. The site maps will include the location of hazardous materials and waste handling and storage areas, spill response materials and equipment, SDS, storm and sewer drains (if applicable), adjacent waterways (if applicable), and emergency evacuation assembly areas. The Contractor will also provide LSPGC with the names and telephone numbers of persons responsible for managing the emergency release response procedures. These submittals will be provided to the LSPGC Project Manager prior to mobilization, in accordance with the Emergency Release Response Form procedures included in **Appendix C**. The forms will be submitted electronically to LSPGC's Project Manager.

#### 2.5.2. Training

The Contractor's personnel will be trained on the safety procedures in handling hazardous materials and the emergency release response procedures. The training will be completed prior to a new employee starting work at the site. Training records will be maintained by the 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.

At a minimum, the Contractor's training will include:

- Emergency release response procedures;
- Location and use of emergency response equipment, materials, and personal protective equipment (PPE);
- Emergency evacuation procedures;
- Protocol for coordination and communication with local emergency response organizations; and
- Location, handling procedures, and uses of hazardous material.

#### 2.5.3. Emergency Release Response Equipment

The Contractor will maintain the spill response equipment listed below, in accordance with the Emergency Release Response form submittal included in **Appendix C**. The location of the spill response equipment will be identified on site maps and communicated to construction personnel during training. The Contractor will be responsible to maintain a current inventory of spill response equipment and regularly inspect and service equipment per manufacturer's recommendations. Construction vehicles will be equipped with spill response kits. All releases of hazardous materials will be immediately addressed, and the Project LEI will be contacted for spills of hazardous materials and wastes to determine if agency notifications will be required and/or if additional resources are needed.

The following material will be available at designated location(s) throughout the Project area that are under active construction and easily accessible in the event that a spill may occur:

Large 55-gallon drum spill kits or "spill attack kits" will include:

- 3-ply or greater disposable plastic bags,
- 50 to 100 count 16-inch by 20-inch oil sorbent pads,
- 10 count 3-inch by 4-inch socks (if needed),
- Four pairs of Nitrile gloves,
- Two pairs of splash goggles, and
- A copy of the spill response procedure sheet.

Vehicle spill kits will include:

- 3-ply or greater disposable plastic bags,
- 16-inch by 20-inch oil sorbent pads,
- One to two pairs of Nitrile gloves,
- Fire extinguisher,
- Eye wash,
- MSDS, and
- A copy of the spill response procedure sheet.

#### 2.5.4. Evacuation

The Contractor will identify the emergency evacuation procedures for Project construction work areas. The procedures will identify the methods for communicating the evacuation of on-site personnel and surrounding neighbors in the event of a serious incident. The evacuation areas will be identified on site maps. The emergency evacuation procedures prepared by the Contractor will identify nearby hospitals and will provide the route from the site to the nearest hospital. These procedures and evacuation areas will be communicated in training and during on-site safety briefings to all personnel that visit the construction site.

#### 2.5.5. Cleanup Procedures

The Contractor will document containment and clean-up measures taken in the event of a spill or release of hazardous materials or hazardous waste. The spent spill response material, contaminated media, and spent PPE will be placed into appropriate containers, properly labeled, and placed in an appropriate area until the hazardous waste can be transported and disposed at an appropriate disposal facility. For larger spills or releases, LSPGC and the Contractor will identify a cleanup contractor to respond (if needed).

Spill or release response procedures will depend on the following factors:

- If large quantities of hazardous materials were released;
- If an environmental specialty contractor will be contacted to manage the clean-up;
- If specialized PPE is required for the cleanup;
- If property owners or the community are concerned about the release;
- If there is a threat to the public;
- If there is a threat to surface waters;
- If a sensitive environment is or may be affected;
- If a highway or roadway is affected;
- If a traffic lane is closed due to the release;
- If regulatory agencies or emergency response personnel are on site; or
- If there is a reasonable belief that the release poses a significant hazard to human health and safety, property, or the environment.

#### 2.5.6. Documentation

The Contractor will complete required documentation on the Spill Log/Report Form (**Appendix B**). The documentation will include records of spill or releases, regardless of the quantity or reporting requirements. The Spill Log/Report will be maintained at the construction site. Reports will be submitted electronically to LSPGC's Project Manager and uploaded to the Contractor's Project management database. If the release of hazardous materials enters a jurisdictional waterway or sensitive habitat, a designated Environmental Monitor will report the spill as an incident in accordance with the CPUC MMRP and applicable jurisdictional requirements. The Contractor will provide the CPUC documentation (i.e., Spill Log/Report) of spills and associated cleanup for all incidents within sensitive resource areas. The Spill Log/Report will

be submitted within five days of the occurrence. Regardless of size, the Contractor will be responsible for cleaning up a spill. The Contractor may utilize an approved cleanup contractor as needed.

### 2.5.7. Reporting

In accordance with these emergency release response procedures, hazardous material spills or releases including petroleum products such as gasoline, diesel, and hydraulic fluid, regardless of the quantity spilled—will be immediately reported to the designated Environmental Monitor and LSPGC by the Contractor if the spill enters a navigable water, stream, lake, wetland, or storm drain; impacts sensitive areas including conservation areas and wildlife preserves; causes injury to a person; or threatens injury to public health.

LSPGC will notify the CPUC Environmental Monitor and other applicable regulatory agencies of all incidents impacting sensitive resource areas, including sensitive habitats, riparian areas, water bodies, and drainages.

The following outlines the Contractor's notification and reporting procedure for a hazardous material release or threat of a release:

- Discovery
  - The first step in the process is to discover the release or threat of a hazardous material release.
- Initial Actions
  - If the release has the potential to be an immediate danger to life or health, the construction worker will move to a safe location and call 911 for assistance.
  - If the release is incidental to the construction worker's job, LSPGC will be notified immediately, trained spill response personnel will clean up the spill, and the necessity for agency notification will be evaluated by LSPGC.
  - The spill response personnel will be trained to work with hazardous materials and be familiar with the Contractor's emergency release response procedures.
  - If the release is not incidental to the construction worker's job, then the worker will notify their immediate supervisor or the Contractor, and the latter will determine whether an emergency response person is capable of cleaning up the spill. If capable, the emergency response person will clean up the spill; but if not, the supervisor or Contractor will follow the procedure below.
- Evaluation
  - If a spill cannot be cleaned up by an emergency response person, as determined by the supervisor or Contractor, the latter will notify LSPGC and construction personnel of the release.
  - Outside professional hazardous waste cleanup services may be used to clean up large spills that cannot be handled by on-site resources, as required.
- Agency Notification

- After notifying LSPGC and construction personnel of the release, the Contractor will notify the applicable regulatory agencies immediately, as required by law.
- The Contractor will first notify the LSPGC Project Manager. LSPGC will then notify applicable agencies of the incident in accordance with federal, state, and local spill reporting requirements. When notifying agencies of a release, notification forms will be completed to document the agency contact.
- Additional notification will be made per the hazardous communication plan provided in the Contractor's Construction Site Specific Program.
- When contacting 911 or a government agency, the following information will be provided:
  - The exact location of the release or threatened release;
  - The name of the person reporting the release or threatened release;
  - The hazardous materials involved in the release or threatened release;
  - An estimate of the quantity of hazardous materials involved; and
  - The potential hazards presented by the hazardous material involved in the release or threatened release.

#### 2.6 Management of Discovery of Unanticipated Contamination

If pre-existing hazardous waste is encountered on the Project site, it will be removed and disposed of in a manner consistent with all local, state and federal regulations. In the event that contaminated media are encountered during excavation activities, the Contractor will stop work, contact LSPGC, request a site assessment, and notify the proper authorities. The discovery will be documented as an unanticipated event.

If, during excavation, unanticipated evidence of contamination is identified (e.g., staining, odors), work must cease and when safe to do so, cover the trench with steel plates. In order to minimize impacts to public safety and the environment, the contaminated soil will be placed on a polyethylene sheet (four milliliter) and covered, or the contaminated soil will be placed in lined covered containers. The local Project LEI will be contacted to determine next steps. At the direction of LSPGC, potentially contaminated soil will first be segregated into lined stockpiles, dump trucks, or roll-off containers. Samples will be collected and analyzed to determine the appropriate handling, treatment, and disposal options. If the analytical results indicate that the soils are hazardous, the affected soils will be properly managed on location and transported to a Class I Landfill or other appropriate soil treatment or recycling facility using a UHWM. Work at the affected site would continue at that location only when given clearance by LSPGC.

The sampling procedures for soils that may be contaminated will follow the direction of LSPGC.

#### 2.7 Hazardous Materials Business Plan

A HMBP details the handling and release or potential release of hazardous materials. The information provided by a HMBP is necessary to prevent or mitigate the damage to the health and safety of persons and the environment from the release or threatened release of hazardous materials into the workplace and environment. Basic information on the location (GPS coordinates), type, quantity, and the health risks of

hazardous materials handled, used, stored, or disposed of in California, which could be accidently released into the environment, must be available to firefighters, health officials, planners, public safety officers, health care providers, regulatory agencies, and other interested persons. These regulations are covered under CHSC Chapter 6.95, Article 1 – Hazardous Materials Release Response and Inventory Program (Sections 25500-25520) and Article 2 – Hazardous Materials Management (Sections 25531- 25543.3).

The LEI shall be notified 30 days prior to a threshold exceeding hazardous materials/waste being placed on site and will develop the HMBP if it is required. A HMBP is needed if a contractor uses, handles, or stores a hazardous material or an extremely hazardous material in quantities greater than or equal to the following (CCR Title 19):

- 500 pounds of a solid substance,
- 55 gallons of a liquid,
- 200 cubic feet of compressed gas (1000 cubic feet for simple asphyxiation or the release of pressure only; carbon dioxide),
- Hazardous compressed gas in any amount, and
- Hazardous waste in any quantity.

The Project may exceed the thresholds described above during construction. If needed, a HMBP will be prepared by the Contractor in accordance with CHSC Chapter 6.95, and CCR Title 22, Social Security, Division 4.5. The HMBP will include hazardous materials and hazardous waste management procedures and emergency response procedures, including emergency spill cleanup supplies and equipment. The Contractor will prepare the HMBP and submit it to the applicable CUPA prior to exceeding the CCR Title 19 thresholds listed above. The HMBP will be a separate document from this Plan.

#### 2.8 Environmental Protection Agency Identification Number

The RCRA requires individuals who generate or transport hazardous waste, or who operate a facility for recycling, treating, storing, or disposing of hazardous waste, to notify the EPA or their authorized state waste management agency of their regulated waste activities and obtain an EPA identification number (also known as a RCRA identification number). Prior to construction, LSPGC will submit the Notification of Regulated Waste Activity (EPA Form 8700-12) and obtain an EPA identification number. LSPGC will also obtain a California Waste identification number (Department of Toxic Substances Control Form 1358) as required by the California Department of Toxic Substance Control.

## 3.0 REFERENCES

**California Code of Regulations**, Title 22. 1983. Accessed at <a href="http://www.dtsc.ca.gov/LawsRegsPolicies/Title22/">http://www.dtsc.ca.gov/LawsRegsPolicies/Title22/</a>, accessed in March 2023.

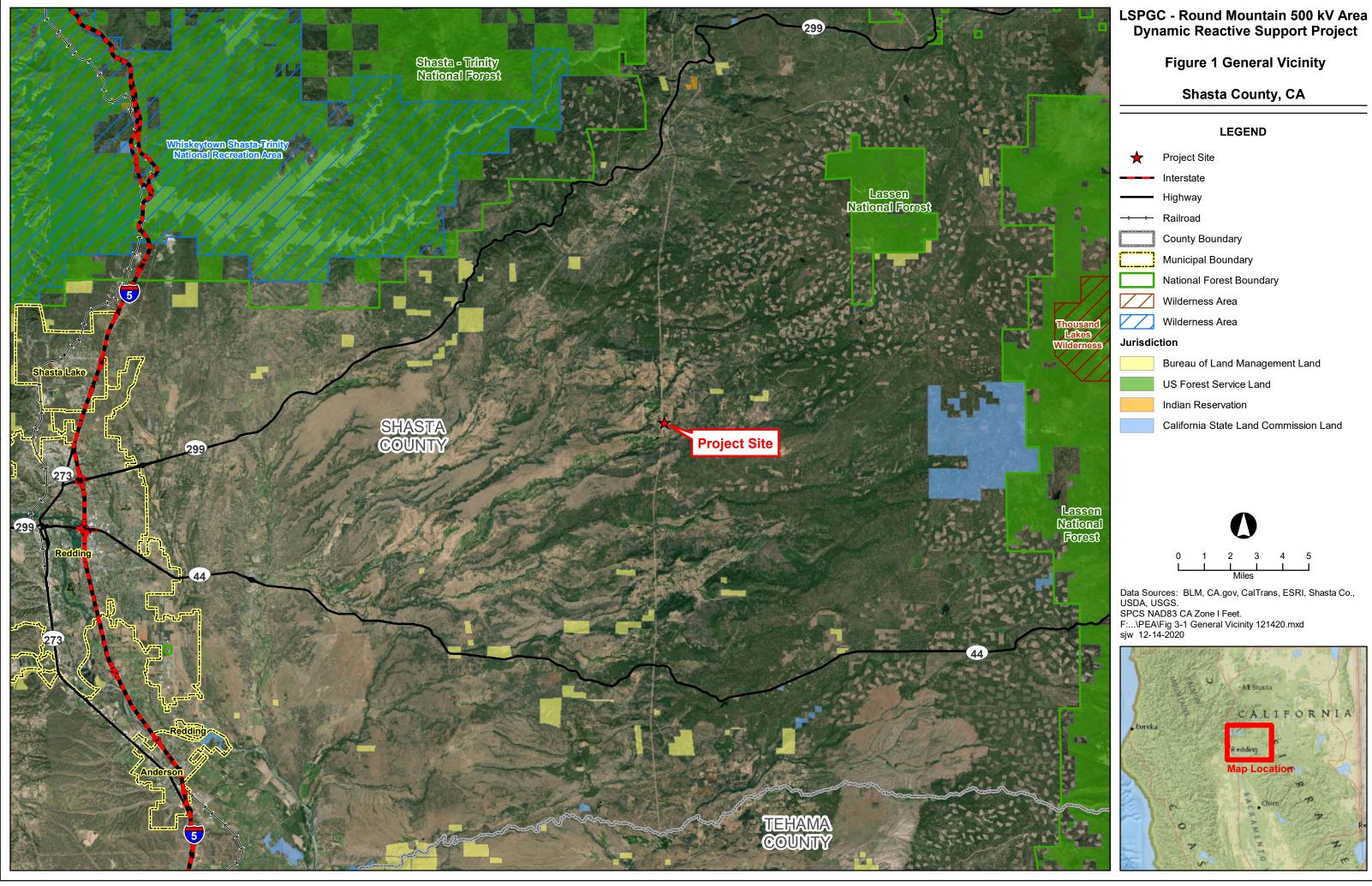
**California Department of Industrial Relations**. 2011. Subchapter 7, General Industry Safety Orders, Group 27, Fire Protection Article 157, Portable Fire Extinguishers (e)(3). September.

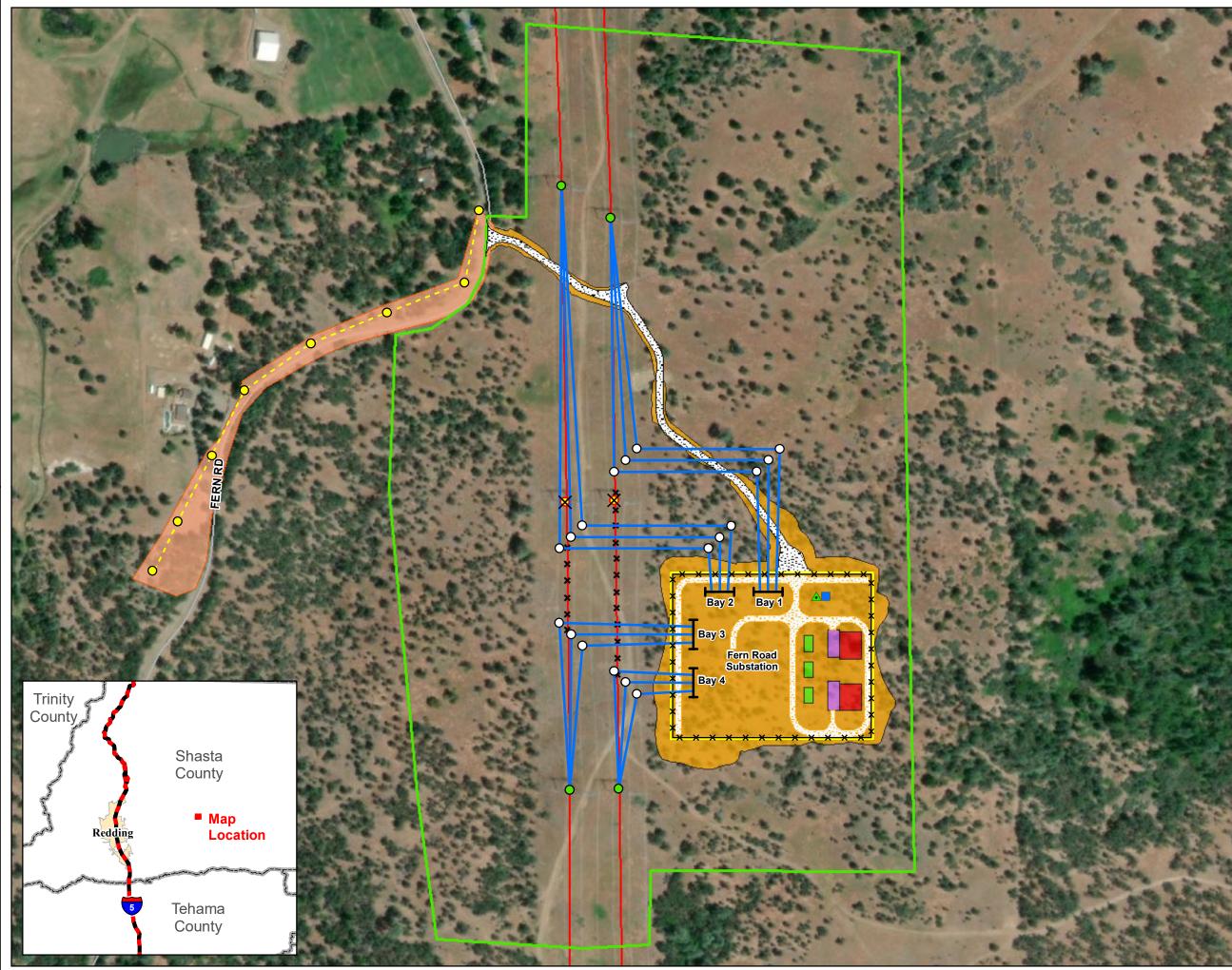
California Health and Safety Code. 1939. Available at:

https://leginfo.legislature.ca.gov/faces/codes\_displayText.xhtml?lawCode=HSC&division=20.&title=&pa rt=&chapter=6.95.&article=1,, accessed in March 2023.

**California Public Utilities Commission**. 2022. Round Mountain 500 kilovolt (kV) Area Dynamic Reactive Support Project – Proponent's Environmental Assessment. April.

**California Public Utilities Commission**. 2023. Round Mountain 500 kilovolt (kV) Area Dynamic Reactive Support Project – Initial Study / Mitigated Negative Declaration. May.





## LSPGC - Round Mountain 500 kV Area Dynamic Reactive Support Project

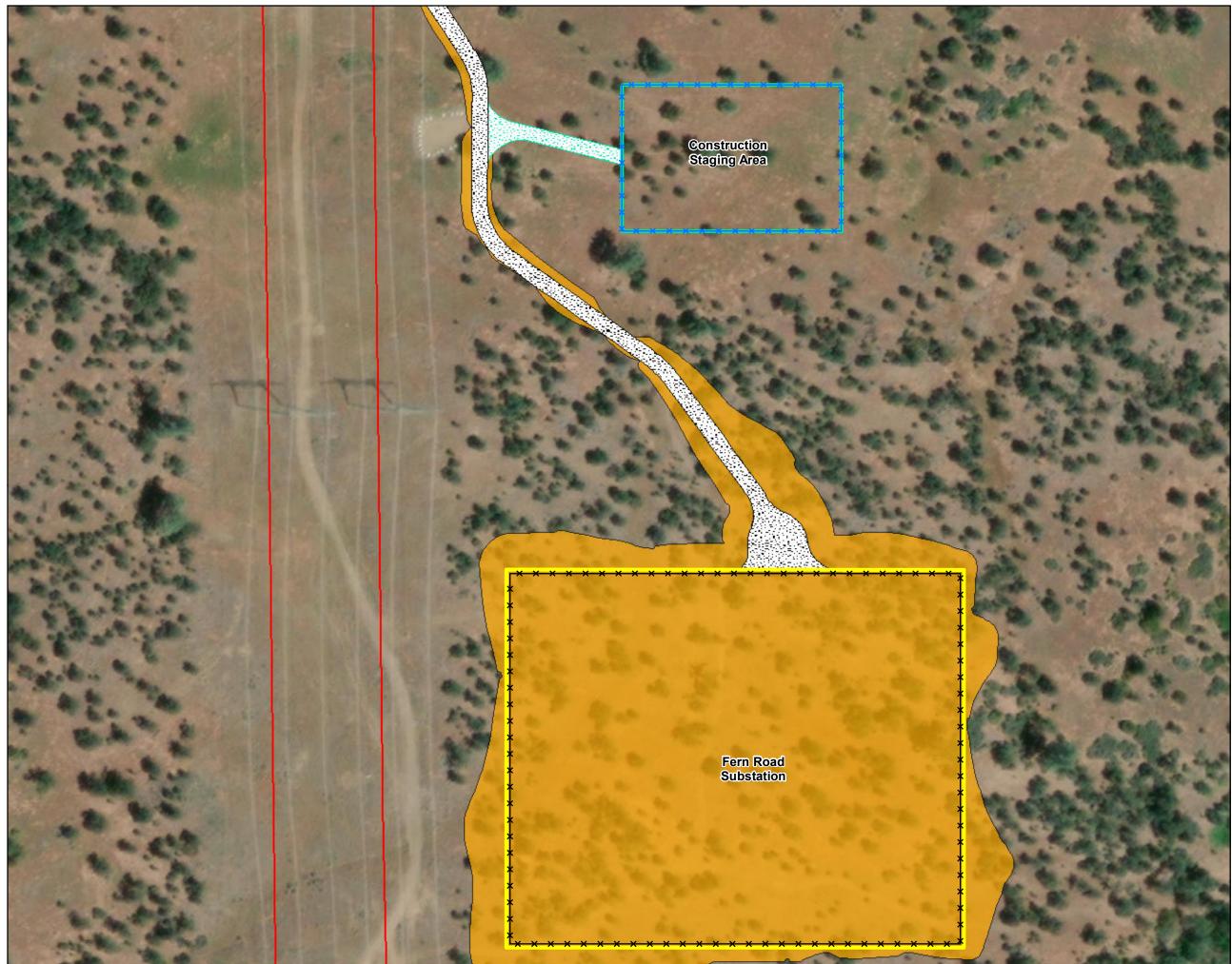
# Figure 2 Project Location

# Shasta County, CA

## LEGEND

Project Components				
O New 3-Pole Dead-End Pole				
×	Existing Structure to be Removed			
0	Rebuilt Distribution Pole			
	Microwave Tower			
	Control Enclosure			
	Project Tie Line			
<del>-× ×</del>	Existing 500kV Transmission Line to be Removed			
	Rebuilt Distribution Line			
+-+	Fern Road Substation Bay			
<del>-× ×</del>	Substation Fence			
	Transformer			
	Reactor			
	Converter & Control Enclosure			
17.55 S	Interior Access Road			
	Exterior Access Road			
	Distribution Overland Travel			
	Graded Area			
	Site Boundary - Approx. 7.5 Acres			
Limits of Construction				
General	Features			
•	Existing Structure			
	Existing 500kV Transmission Line			
	Interstate			
	Road			
	County Boundary			
	Municipal Boundary			
	0 100 200 300 400 500			
	Feet			
Data Sour	ces: ESRI, Shasta Co., USDA, USGS.			
SPCS NAI	D83 CA Zone I Feet. Figure 3-4 Project Overview 030622.mxd			

SPCS NAD83 CA Zone Freet. F:...\PEA\Figure 3-4 Project Overview 030622.mxd SJW 4-03-2022



## LSPGC - Round Mountain 500 kV Area Dynamic Reactive Support Project

## Figure 3 Construction Staging Area

## Shasta County, CA

# LEGEND **Project Components** Exterior Access Road Construction Staging Area Access Road Construction Staging Area Graded Area Site Boundary - Approx. 7.5 Acres **General Features** Existing 500kV Transmission Line Interstate Road County Boundary Municipal Boundary 100 150 200 50 0 Feet Data Sources: ESRI, Shasta Co., USDA, USGS. SPCS NAD83 CA Zone I Feet. F:...\PEA\Figure 3-7 Construction Staging Area 040322.mxd SJW 4-03-2022 Trinity County Shasta County Map Redding Location Tehama County

## APPENDIX A

## HAZARDOUS MATERIALS INVENTORY FORM

## HAZARDOUS MATERIAL INVENTORY FORM

1. Project: Round Mountain 500 kilovolt Area Dynamic Reactive Support Project			
2. Site Name:			
3. Site Address / Location:			
4. Hazardous Material Information (Complete this for	n for each hazardous material used or stored on site)		
Hazardous Material Name:			
Hazardous Material Intended Use:			
Is a SDS Available Onsite? Yes / No: (attach SDS)			
New Hazardous Material or Quantity Change?			
Quantity Stored Onsite:			
Type of Container:			
Size of Largest Container:			
Location of Hazardous Material on Site (attach Map):			
6. Inventory Prepared By			
Requestor's Name:	Date:		
Signature			
Supervisor's Name:	Date:		
Signature:			
8. Emergency Notification:			
a. The Contractor is required to comply with State and federal law and the project Hazardous Materials Management Plan when reporting releases or threats of releases of hazardous materials. Describe the internal emergency notification procedure for the site.			
b. In case of emergency, the Contractor will dial 911	immediately.		
c. The Contractor will contact LSPGC and the CPUC Environmental Monitor after emergency service personnel are notified.			
d. Contact the local CUPA, California Emergency Management Agency, and National Response Center as required by State and federal law and the project Hazardous Materials Management Plan.			
9. Emergency Medical Facility			
Facility Name:	Phone:		
Address:			
City:	Zip Code:		

10. Documentation:

The Contractor will complete the Spill Log/Report Form when a release or threat of release of a hazardous material or waste occurs. The Contractor will comply with State and federal law and the project Hazardous Materials Management Plan when documenting releases or threats of releases.

11. Cleanup and Disposal Contractor:			
Name:	Phone:		
Address:			
City:	Zip Code:		
12. Emergency Equipment:			
The Contractor will provide a list of emergency equipment stored at all sites and attach to the Emergency			
Release Response form.			
13. Site Map/ Storage Map:			
The Contractor will attach a detailed site plan to the Emergency Release Response form that			
designates hazardous material and waste storage, use, dispensing, or handling areas; storm drain and sewer inlets; access points; and names and locations of adjacent streets.			

## **APPENDIX B**

SPILL LOG/REPORT FORM

## **SPILL LOG REPORT**

Contract #:			Project #:
Please circle the appropriate information: INITIAL /			
FINAL REPORT			
REPORTABLE / NON-REPORTAB	E QUANTITY S	SPILL	
1. Log Prepared by:			
Name: Date:			
Email:		Phone:	
2. Location of the Spill			
Address/Tower/GPS:			
City:	State:		Zip Code:
County:		Nearest Road:	
Latitude:		Longitude:	
3. Specific Spill Information:		1	
Date of Spill: Time of Spill:			
Material Spilled:		·	
Quantity Spilled:			
Media Affected (Circle one):			
Concrete / Asphalt / Water / Vegetation / Soil / Other If			
other, please specify:			
Source of Spill Info (Equip ID):			
Additional Comments:			
4. Cause of Spill:			
5. Extent of Spill:			
6. Potential Threat to Surface and/or Groundwater, Human Health (Affect Groundwater/ residential areas, etc.):			
7. Response and Cleanup Action Taken:			
8. Regulatory Notification:			
Date:		Time:	

Individual (First, Last):	Agency:		
Phone #:	Purpose/ Comments:		
Date:	Time:		
Individual (First, Last):	Agency:		
Phone #:	Purpose/ Comments:		
9. Additional Information:			

## **APPENDIX C**

EMERGENCY RELEASE RESPONSE FORM

## **EMERGENCY RELEASE RESPONSE FORM**

1. Project: Round Mountain 500 kilovolt Area Dynamic Reactive Support Project			
2. Site Name:			
3. Site Address / Location:			
4. Prepared By:			
Name:	Date:		
Title:	Role:		
Email:	Phone:		
5. Primary Emergency Contact			
Name:	Title:		
Role	Phone:		
Responsibilities:	Cellular Phone (24 Hr Contact):		
Email address (if applicable):			
6. Secondary Emergency Contact			
Name: Title:			
Role	Phone:		
Responsibilities: Cellular Phone (24 Hr Contact):			
Email address (if applicable):			
7. The Contractor will provide a list of emergency response personnel for the site, in addition to those in the Emergency Contact sections above and attach to the Emergency Release Response form. Include the name, title, role, responsibility, telephone, and email address for each person listed.			
8. Emergency Notification:			
a. The Contractor is required to comply with State and federal law and the project Hazardous Materials Management Plan when reporting releases or threats of releases of hazardous materials. Describe the internal emergency notification procedure for the site.			
b. In case of emergency, the Contractor will dial 911 immediately.			
c. The Contractor will contact LSPGC and the CPUC Environmental Monitor after emergency service personnel are notified.			
d. Contact the local CUPA, California Emergency Management Agency, and National Response Center as required by State and federal law and the project Hazardous Materials Management Plan.			
9. Emergency Medical Facility			
Facility Name:	Phone:		
Address:			
City:	Zip Code:		

9. Documentation:

The Contractor will complete the Spill Log/Report Form when a release or threat of release of a hazardous material or waste occurs. The Contractor will comply with State and federal law and the project Hazardous Materials Management Plan when documenting releases or threats of releases.

10. Cleanup and Disposal Contractor:			
Name:	Phone:		
Address:			
City:	Zip Code:		
11. Emergency Equipment:			
The Contractor will provide a list of emergency equipment stored at the site and attach to the Emergency			
Release Response form.			
12. Site Map/Storage Map:			
The Contractor will attach a detailed site plan to the Emergency Release Response form that designates hazardous material and waste storage, use, dispensing, or handling areas; storm drain and sewer inlets; access points; and names and locations of adjacent streets.			

## **APPENDIX D**

SAFETY DATA SHEETS FOR HAZARDOUS MATERIALS STORED ON SITE