

SECTION 5

Mitigation Monitoring, Reporting and Compliance Program

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PUBLIC UTILITIES COMMISSION505 VAN NESS AVENUE
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MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM

PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT (A.09-11-016)

INTRODUCTION

This document describes the mitigation monitoring, reporting and compliance program (MMRCP) for ensuring the effective implementation of the mitigation measures required for the California Public Utilities Commission (CPUC, or Commission) approval of the Pacific Gas and Electric (PG&E) application to construct, operate, and maintain the Proposed Project. All mitigations are presented in Table 5-1 provided at the end of this MMRCP.

If the Proposed Project is approved, this MMRCP would serve as a self-contained general reference for the Mitigation Monitoring Program adopted by the Commission for the project. If and when the Proposed Project has been approved by the Commission, the CPUC will compile the Final Plan from the Mitigation Monitoring Program in the Final MND, as adopted.

California Public Utilities Commission – MMRCP Authority

The California Public Utilities Code in numerous places confers authority upon the CPUC to regulate the terms of service and the safety, practices, and equipment of utilities subject to its jurisdiction. It is the standard practice of the CPUC, pursuant to its statutory responsibility to protect the environment, to require that mitigation measures stipulated as conditions of approval are implemented properly, monitored, and reported on. In 1989, this requirement was codified statewide as Section 21081.6 of the Public Resources Code. Section 21081.6 requires a public agency to adopt a reporting or monitoring program when it adopts a mitigated negative declaration for a project that could have potentially significant environmental effects. California Environmental Quality Act (CEQA) Guidelines Section 15097 was added in 1999 to further clarify agency requirements for mitigation monitoring and reporting.

The purpose of a MMRCP is to ensure that measures adopted to mitigate or avoid significant impacts of a project are implemented. The CPUC views the MMRCP as a working guide to facilitate not only

the implementation and compliance of mitigation measures by the project proponent, but also to facilitate the monitoring and reporting activities of the CPUC and any monitors it may designate.

The Commission will address its responsibility under Public Resources Code Section 21081.6 when it takes action on PG&E's application. If the Commission approves the application, it will also adopt a Mitigation Monitoring, Compliance, and Reporting Program that includes the mitigation measures ultimately made a condition of approval by the Commission.

Because the CPUC must decide whether or not to approve the PG&E application and because the application may cause either direct or reasonably foreseeable indirect effects on the environment, CEQA requires the CPUC to consider the potential environmental impacts that could occur as the result of its decision and to consider mitigation for any identified significant environmental impacts.

If the CPUC approves PG&E's application for a permit to construct and operate the power line and modify its substation, PG&E would be responsible for implementation of any mitigation measures governing both construction and future operation of the power line and substation. Though other federal, State, and local agencies would have permit and approval authority over some aspects of construction of the power line, the CPUC would continue to act as the lead agency for monitoring compliance with all mitigation measures required by the adopted IS/MND. All approvals and permits obtained by PG&E would be submitted to the CPUC for mitigation compliance prior to commencing the activity for which the permits and approvals were obtained.

In accordance with CEQA, the CPUC reviewed the impacts that would result from approval of the application. The activities considered include the reconductoring on two segments, the Hollister Tower and Hollister Pole Segments, of an existing 115 kV overhead electric power line system; relocation of an approximately 1.3-mile segment of the 115 kV Hollister No. 1 line out of the San Benito River floodplain; and minor modifications to the Hollister Substation. The CPUC review concluded that implementation of the Proposed Project would not result in any significant unmitigable impacts. All potential impacts would be mitigated to less than significant levels or would be less than significant. PG&E has agreed to incorporate all the CPUC-recommended mitigation measures into the Proposed Project. The CPUC has included the stipulated mitigation measures as conditions of approval of the application and has circulated an IS/MND for public review.

The attached IS/MND presents and analyzes potential environmental impacts that would result from construction, operation, and maintenance of the reconducted power line and substation modifications, and recommends mitigation measures, as appropriate. Based on the IS/MND, approval of the application would have no impact or less than significant impacts in the following areas:

- Agricultural and Forestry Resources
- Air Quality and Greenhouse Gas Emissions
- Geology, Soils, and Seismicity
- Land Use and Planning
- Mineral Resources
- Population and Housing
- Public Services
- Recreation
- Utilities and Service Systems

The IS/MND indicates that approval of the application would result in less than significant impacts with mitigation in the areas of:

- Aesthetics
- Biological Resources
- Cultural Resources
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Noise
- Transportation and Traffic

Roles and Responsibilities

As the lead agency under CEQA, the CPUC is required to monitor this project to ensure that the required mitigation measures and any Applicant Proposed Measures are implemented. The CPUC will be responsible for ensuring full compliance with the provisions of this MMRCPP and has primary responsibility for implementation of the monitoring program. The purpose of the monitoring program is to document that the mitigation measures required by the CPUC are implemented and that mitigated environmental impacts are reduced to the level identified in the Program. The CPUC has the authority to halt any activity associated with the proposed project if the activity is determined to be a deviation from the approved project or the adopted mitigation measures.

The CPUC may delegate duties and responsibilities for monitoring to other mitigation monitors or consultants as deemed necessary. The CPUC will ensure that the person(s) delegated any duties or responsibilities are qualified to monitor compliance.

The CPUC, along with its mitigation monitor, will ensure that any variance process, which will be designed specifically for the Proposed Project, or deviation from the procedures identified under the monitoring program is consistent with CEQA requirements; no project variance will be approved by the CPUC if it creates new significant environmental impacts. As defined in this MMRCPP, a variance should be strictly limited to minor project changes that will not trigger other permit requirements, that does not increase the severity of an impact or create a new impact, and that clearly and strictly complies with the intent of the mitigation measure. A change to the Proposed Project that has the potential for creating significant environmental effects will be evaluated to determine whether supplemental CEQA review is required. Any proposed deviation from the approved project and adopted mitigation measures, including correction of such deviation, shall be reported immediately to the CPUC and the mitigation monitor assigned to the construction for their review and CPUC approval. In some cases, a variance may also require approval by a CEQA responsible agency.

Enforcement and Responsibility

The CPUC is responsible for enforcing the procedures for monitoring through the environmental monitor. The environmental monitor shall note problems with monitoring, notify appropriate agencies or individuals about any problems, and report the problems to the CPUC. The CPUC has the authority to halt any construction, operation, or maintenance activity associated with the project if the activity is determined to be a deviation from the approved project or adopted mitigation measures. The CPUC may assign its authority to its environmental monitor.

Mitigation Compliance Responsibility

PG&E is responsible for successfully implementing all the adopted mitigation measures in this MMRCP. The MMRCP contains criteria that define whether mitigation is successful. Standards for successful mitigation also are implicit in many mitigation measures that include such requirements as obtaining permits or avoiding a specific impact entirely. Additional mitigation success thresholds will be established by applicable agencies with jurisdiction through the permit process and through the review and approval of specific plans for the implementation of mitigation measures.

PG&E shall inform the CPUC and its mitigation monitor in writing of any mitigation measures that are not or cannot be successfully implemented. The CPUC in coordination with its mitigation monitor will assess whether alternative mitigation is appropriate and specify to PG&E the subsequent actions required.

Dispute Resolution Process

This MMRCP is expected to reduce or eliminate many of the potential disputes concerning the implementation of the adopted measures. However, in the event that a dispute occurs, the following procedure will be observed:

- **Step 1.** Disputes and complaints (including those of the public) should be directed first to the CPUC's designated Project Manager for resolution. The Project Manager will attempt to resolve the dispute.
- **Step 2.** Should this informal process fail, the CPUC Project Manager may initiate enforcement or compliance action to address deviations from the Proposed Project or adopted Mitigation Monitoring, Reporting and Compliance Program.
- **Step 3.** If a dispute or complaint regarding the implementation or evaluation of the MMRCP or the mitigation measures cannot be resolved informally or through enforcement or compliance action by the CPUC, any affected participant in the dispute or complaint may file a written "notice of dispute" with the CPUC's Executive Director. This notice should be filed in order to resolve the dispute in a timely manner, with copies concurrently served on other affected participants. Within 10 days of receipt, the Executive Director or designee(s) shall meet or confer with the filer and other affected participants for purposes of resolving the dispute. The Executive Director shall issue an Executive Resolution describing his/her decision, and serve it on the filer and other affected participants.
- **Step 4.** If one or more of the affected parties is not satisfied with the decision as described in the Resolution, such party(ies) may appeal it to the Commission via a procedure to be specified by the Commission.

Parties may also seek review by the Commission through existing procedures specified in the Commission's Rules of Practice and Procedure for formal and expedited relief.

General Monitoring Procedures

Mitigation Monitor

Many of the monitoring procedures will be conducted during the construction phase of the project. The CPUC and the mitigation monitor are responsible for integrating the mitigation monitoring procedures into the construction process in coordination with PG&E. To oversee the monitoring procedures and to ensure success, the mitigation monitor assigned to the construction must be on site during that portion of construction that has the potential to create a significant environmental impact or other impact for which mitigation is required. The mitigation monitor is responsible for ensuring that all procedures specified in the monitoring and reporting program are followed.

Construction Personnel

A key feature contributing to the success of mitigation monitoring will be obtaining the full cooperation of construction personnel and supervisors. Many of the mitigation measures require action on the part of the construction supervisors or crews for successful implementation. To ensure success, the following actions, detailed in specific mitigation measures included in the MMRCP, will be taken:

- PG&E shall require all contractors to comply with the conditions of project approval, including all applicable mitigation measures.
- One or more pre-construction meetings will be held to inform all and train construction personnel about the requirements of the MMRCP.
- A written summary of mitigation monitoring procedures will be provided to construction supervisors for all mitigation measures requiring their attention.

General Reporting Procedures

Site visits and specified monitoring procedures performed by other individuals will be reported to the mitigation monitor assigned to the construction. A monitoring record form will be submitted to the mitigation monitor by the individual conducting the visit or procedure so that details of the visit can be recorded and progress tracked by the mitigation monitor. A checklist will be developed and maintained by the mitigation monitor to track all procedures required for each mitigation measure and to ensure that the timing specified for the procedures is adhered to. The mitigation monitor will note any problems that may occur and take appropriate action to rectify the problems. PG&E shall provide the CPUC with written quarterly reports of the project, which shall include progress of construction, resulting impacts, mitigation implemented, and all other noteworthy elements of the project. Quarterly reports shall be required as long as mitigation measures are applicable.

Public Access to Records

The public is allowed access to records and reports used to track the monitoring program. Monitoring records and reports will be made available for public inspection by the CPUC on request. The CPUC and PG&E will develop a filing and tracking system.

Condition Effectiveness Review

In order to fulfill its statutory mandates to mitigate or avoid significant effects on the environment and to design a MMRCP to ensure compliance during project implementation (CEQA 21081.6):

- The CPUC may conduct a comprehensive review of conditions which are not effectively mitigating impacts at any time it deems appropriate, including as a result of the Dispute Resolution procedure outlined above; and
- If in either review, the CPUC determines that any conditions are not adequately mitigating significant environmental impacts caused by the project, or that recent proven technological advances could provide more effective mitigation, then the CPUC may impose additional reasonable conditions to effectively mitigate these impacts.

These reviews will be conducted in a manner consistent with the CPUC's rules and practices.

Mitigation Monitoring, Reporting and Compliance Program

The table attached to this program presents a compilation of the mitigation measures in the IS/MND. The purpose of the table is to provide a single comprehensive list of impacts, mitigation measures, monitoring and reporting requirements, and timing.

PG&E proposed the following Applicant Proposed Measures (APMs) to minimize impacts to the environment from implementation of the Proposed Project. The impact analysis in this IS/MND assumed that these APMs would be implemented as part of the Proposed Project.

APM AES-1: Limit construction hours to daylight hours as feasible. Construction activities that are visible to the public and scheduled to occur after 6:00 p.m. or on weekends should not continue past daylight hours (which vary according to season) unless required because of project safety concerns or clearance requirements. This will reduce the amount of construction activities visible to viewer groups because most construction activities will occur during business hours (when most viewer groups are likely at work), and daylight construction will eliminate the need to introduce high-wattage lighting sources to be able to operate in the dark.

APM AG-1: Compensate for reduced agricultural production and loss of use. PG&E will offer appropriate compensation for land held in private ownership as part of the acquisition of temporary construction easements or permanent utility easements. PG&E will compensate property owners for removal of any structures, crops, or agriculture-related improvements required to construct the project. PG&E will negotiate easements with private landowners for the temporary or permanent use of agricultural areas. Upon completion of the project, the areas will be left as specified in the individual agreements. In addition, PG&E will prepare a SWPPP (see APM HYDRO 1 [Prepare and implement a Storm Water Pollution Prevention Plan] in Section 2.8, *Hydrology and Water Quality*) to ensure that areas affected by construction are restored to pre-construction conditions.

APM AIR-1: Implement Monterey Bay Unified Air Pollution Control District (MBUAPCD) mitigation measures for construction fugitive dust. PG&E will implement all applicable and feasible fugitive dust control measures required by MBUAPCD. This requirement will be incorporated into the construction contract. These measures include:

- Water all active construction sites at least twice daily. Frequency of watering should be based on the type of operation, soil, and wind exposure.
- Prohibit all grading activities during periods of high wind (over 15 mph).
- Haul trucks will maintain at least 2'0" of freeboard.
- On-site vehicles will be limited to a speed on unpaved roads that minimizes dust emissions.
- Cover all trucks hauling dirt, sand, or loose materials.
- Cover inactive storage piles.
- Install wheel washers at the entrance to construction sites for all exiting trucks.
- Sweep streets if visible soil material is carried out from the construction site.
- Post a publicly visible sign with the telephone number and person to contact regarding dust complaints. This person will respond and take corrective action within 48 hours. The phone number of the MBUAPCD also will be visible to ensure compliance with Rule 402 (Nuisance).
- Limit the area under construction at any one time as feasible.

APM AIR-2: Implement BMPs to reduce construction tailpipe emissions. PG&E will implement all applicable and feasible measures to reduce tailpipe emissions from diesel-powered construction equipment. This requirement will be incorporated into the construction contract. These measures include:

- Maximize use of diesel construction equipment meeting CARB's 1996 or newer certification standard for off-road heavy-duty diesel engines.
- Use emission control devices at least as effective as the original factory-installed equipment.
- Maintain all diesel-powered equipment in a manner to minimize visible soot emissions.
- Locate stationary diesel-powered equipment and haul truck staging areas as far as practicable from sensitive receptors.
- Minimize unnecessary idling time through application of a "common sense" approach to vehicle use, so that idling is reduced as far as possible below the maximum of 5 consecutive minutes required by California law—if a vehicle is not required immediately or continuously for construction activities, its engines will be shut off. Construction foremen will include briefings to crews on vehicle use as part of pre-construction conferences. Those briefings will include discussion of a "common sense" approach to vehicle use.
- Use ground equipment in place of helicopters where practicable.

APM AIR-3: Minimize greenhouse gas emissions during construction. PG&E or its contractors will implement the following measures during construction to reduce greenhouse gas emissions:

- Encourage construction workers carpooling to the job site to the extent feasible.
- Encourage recycling of construction waste where feasible.
- Minimize welding and cutting by using compression of mechanical applications where practical and within standards.
- Encourage use of natural gas-powered vehicles for passenger cars and light-duty trucks where feasible and available.
- Minimize construction equipment exhaust by using low-emission or electric construction equipment where feasible.

APM BIO-1: Conduct an environmental training and monitoring program for construction crews before beginning construction. An Environmental Training and Monitoring Program for construction crews will be conducted before beginning construction and will be ongoing during construction activities for new crew members. The education program will include information about the federal and state Endangered Species Acts, the consequences for noncompliance with environmental laws, identification of special-status plant and wildlife species and wetland habitats, and review of mitigation measures. (Also see APM HYDRO-2 [Develop and implement a Spill Prevention Control and Countermeasure Plan], which requires communicating environmental concerns and appropriate work practices, including spill prevention, emergency response measures, and applicable BMPs, to all construction personnel in an Environmental Training and Monitoring Program.)

APM BIO-2: Restrict vehicles to established roadways and approved access routes and staging areas.

APM BIO-3: Retain an environmental monitor onsite during construction activities near sensitive habitat. An environmental monitor will be onsite during any construction activity near sensitive habitat to ensure implementation of, and compliance with, APMs. The monitor will have authority to stop construction activities and develop alternative work practices, in consultation with construction personnel and resources agencies, if construction activities are likely to impact special-status species or other sensitive biological resources.

APM BIO-4: Set back staging areas from waterbodies to avoid impacts on riparian habitat. Staging areas will be set back at least 50 feet from streams, creeks, or other water bodies to avoid impacts on riparian habitat.

APM BIO-5: Contact the environmental monitor if special-status species are located. If construction personnel observe special-status species within the work area prior to, or during construction activities, construction personnel will contact the environmental monitor. The monitor will notify PG&E contacts via an established communication protocol that will be developed prior to the start of construction. The USFWS Biological Opinion will state agency notification protocols should a federally-listed species be observed within the work area.

APM BIO-6: Complete photodocumentation of sensitive habitat conditions before beginning and immediately after completing construction activities. Photodocumentation of preconstruction habitat conditions will occur at all construction locations within sensitive habitats prior to the start of construction and immediately after completing construction activities.

APM BIO-7: Prohibit trash, firearms, and pets in the project area during construction. Additional APMs (identified below) to avoid and minimize specific potential impacts to biological resources will be implemented as necessary to reduce potentially significant impacts. In some cases, conducting preconstruction surveys to determine the presence or absence of special-status plant and wildlife species within the project area and subsequent avoidance of identified resources will avoid significant impacts. Due to the extent of the project, however, specific project components—such as grading new access roads and digging new tower footings—will affect areas where the presence of special-status species is presumed based on occurrence of suitable habitat, CNDDDB occurrences in relation to the project area, or results of prior biological resource assessment surveys.

APM BIO-8: Restore upland and riparian habitat types temporarily disturbed during construction. Following construction, PG&E will restore upland and riparian habitat types temporarily disturbed during construction. As part of a Habitat Mitigation Plan (HMP) developed for the project, a list of specific actions necessary to restore habitats disturbed onsite will be prepared by a qualified biologist prior to construction. While some habitats in the project area may require minimal restoration actions, such as restoration of the topography and topsoil following construction, the HMP will detail the specific measures necessary for each habitat and area disturbed to ensure that the functions and values of the disturbed habitat are restored.

APM BIO-9: Implement sudden oak death preventative measures when trimming or removing oak trees. PG&E will implement BMPs to control the potential introduction or spread of sudden oak death when trimming or removing trees as part of the project. At a minimum, the BMPs will include the following measures:

- All debris from host species (wood, branches, and chips) shall be left onsite following trimming.
- All tools used to perform the work shall be disinfected before leaving infested areas.

APM BIO-10: Avoid impacts to protected trees, track protected trees removed during construction, and mitigate for impacts to protected trees.

- PG&E will avoid impacts to protected trees to the extent feasible. If avoidance is not feasible, PG&E will track the trees removed, including their species and size, and will replace protected trees as stipulated in applicable local regulations. To avoid removal of active nests, tree trimming, vegetation removal, and removal of towers should be conducted during the non-breeding season (August 16–March 1).

APM BIO-11: Implement general protection measures for waters of the United States. During construction, PG&E will implement the following measures to minimize or avoid impacts on waters of the United States:

- Establish exclusion zones and minimize the amount of area disturbed to the minimum amount necessary to complete the work. Align work areas to avoid wetland areas and margins as much as feasible.
- Delineate wetland areas, and restrict construction personnel and equipment from entering fenced protected areas.
- Conduct all fueling of vehicles, equipment, and helicopters at least 100 feet from wetlands and other waterbodies.
- To the extent feasible, complete road construction adjacent or within waters of the United States during the dry season. If it is not feasible to complete road construction work during the dry season, PG&E will use appropriate erosion control measures for the site that will be identified in the SWPPP (see APM HYDRO-1 in Section 4.8).

APM BIO-12: Develop a wetlands mitigation plan. PG&E will develop a wetlands mitigation plan to offset effects to waters of the United States, including wetlands. The plan will be developed in consultation with the Corps and will include, at a minimum, plans for restoration of any temporarily disturbed wetlands and other waters of the United States and methods to achieve mitigation for permanent impacts at a minimum ratio of 1:1. Mitigation may include onsite restoration and improvement of existing wetlands or other offsite compensation.

APM BIO-13: Complete spring surveys for special-status plants in all unsurveyed disturbance areas. Prior to construction, a qualified botanist will complete spring surveys for special-status plants at all unsurveyed staging areas, helicopter landing areas, and new access roads to determine the presence or absence of special-status plants. The surveys should be completed by qualified botanists and should be conducted during the appropriate period(s) necessary to observe special-status plants known to occur in the region.

APM BIO-14: Avoid impacts on special-status plants. PG&E will, under the direction of a qualified botanist and to the extent possible, adjust the location of staging areas, pull sites, helicopter landing areas, access roads, and other project components to completely avoid impacts on Pajaro manzanita and other special-status plants that are discovered prior to or during construction. If this avoidance measure is not feasible, PG&E will implement APM BIO-15 (Minimize impacts on special-status plants) and APM BIO-16 (Restore habitat for special status plants disturbed during construction).

APM BIO-15: Minimize impacts on special-status plants. Avoidance areas will be clearly staked and flagged in the field by a qualified botanist prior to construction. If Pajaro manzanita and other special-status plants cannot be avoided during construction, PG&E will minimize impacts by reducing the work area to the smallest area necessary to complete the work. Where temporary disturbance is necessary, PG&E will conduct project activities and necessary ground disturbance in a manner that is consistent with the successful reestablishment of the species to the extent feasible. The specific actions necessary will depend on the biology of the species in question; however, the actions will be designed to ensure successful reestablishment of the species following temporary disturbance. As part of an HMP, a list of specific actions will be prepared by a qualified botanist prior to construction that will include onsite restoration actions, or reseeding plans specific to any impacted construction areas (described below in APM BIO-16).

To minimize impacts to Pajaro manzanita, which is already known to occur in the project area, PG&E will implement the following measures:

- Vegetation clearing in occupied Pajaro manzanita habitat should be conducted after Pajaro manzanita has set seed and before flowering begins (typically between May and November).
- If mechanical brushing is conducted in occupied Pajaro manzanita habitat, mastication implements should not come within 6 inches of the ground surface to avoid disturbing the seed bank.
- Where feasible, removal of entire Pajaro manzanita plants from the ground should be avoided.

The Environmental Training and Monitoring Program (see APM BIO-1) will also include information on the location of special-status plants in the project area and the measures that will be implemented to avoid or minimize impacts on the plants.

APM BIO-16: Restore habitat for special-status plants disturbed during construction. If impacts on special status plants are unavoidable, PG&E will develop a special-status plant restoration plan as part of the HMP and in consultation with CDFG. The specific actions necessary will depend on the biology of the species in question and the type of impact (i.e., temporary or permanent); however, the actions will be designed to ensure successful reestablishment of the species following disturbance. The plan will be prepared by a qualified botanist prior to construction and will indicate when and where the actions will be implemented during construction.

APM BIO-17: Implement management practices to control the introduction and spread of invasive plants. Prior to construction, PG&E will identify the location of noxious weed species of concern within areas that will be disturbed as part of the project. Appropriate management practices will be designed by a botanist and implemented during construction to reduce the likelihood of spreading already established weeds into new areas or increasing their abundance, and of introducing new weed species to the project area. Actions to prevent noxious weed establishment will be described within the HMP and will be consistent with PG&E's draft Invasive Plant Management Strategy. The project SWPPP will include BMPs such as using construction equipment that has been cleaned of soil and plant parts, including seeds, before entering the project area and using weed-free straw for erosion control. Disturbed areas will be revegetated with appropriate locally based native seed mixes. Implementing the management practices described above will reduce potentially significant impacts related to non-native invasive plants to a less-than-significant level.

APM BIO-18: Implement avoidance and mitigation measures outlined in the USFWS biological opinion for California red-legged frog and California tiger salamander. USFWS will specify avoidance and mitigation measures to minimize impacts to California red-legged frogs and California tiger salamanders in the biological opinion they will draft for the project. PG&E will follow and implement the measures that are outlined in the biological opinion.

APM BIO-19: Compensate for permanent impacts on California red-legged frog and California tiger salamander upland habitat. It was determined that the project would result in permanent impacts to suitable upland habitat for California red-legged frogs and California tiger salamanders. To compensate for anticipated permanent impacts to suitable upland habitat

for California red-legged frogs and California tiger salamanders, PG&E may preserve additional upland habitat within a USFWS-approved conservation area; specific actions will be determined in coordination with USFWS. The ratio of compensation, specific mitigation acreages, and location of the conservation area will be determined through formal consultation with USFWS.

APM BIO-20: Conduct tree trimming, vegetation removal, and, if possible, tower removal during the non-breeding season. To avoid removal of active nests, tree trimming, vegetation removal, and removal of towers should be conducted during the non-breeding season (August 16–March 1). If this is not possible, APM BIO-21 will be implemented.

APM BIO-21: Conduct preconstruction surveys for nesting migratory birds and raptors, and develop an Avian Protection Plan. Construction activities are anticipated to occur mainly during the nesting season for migratory birds and raptors (generally early February through early August) (Avian Power Line Interaction Committee and USFWS, 2005). PG&E will retain a qualified wildlife biologist to conduct preconstruction surveys for nesting birds, for all construction activities that occur within or near suitable breeding habitat. The surveys will be staggered so that they are conducted no more than 1 week prior to the start of construction activities in any one area. Surveys will include the power line route, staging areas, pull sites, and areas of access road improvements where ground disturbance or vegetation clearing is required, at a frequency and timing appropriate for nest detection. If no active nests are detected, no additional mitigation measures are required.

PG&E will develop a project-specific Avian Protection Plan that will outline protection measures for nesting migratory birds and raptors, in the event that nesting migratory birds or raptors are identified in areas where construction activities will occur during preconstruction surveys.

APM BIO-22: Avoid disturbance of active nests by helicopter use. Use of helicopters will be restricted to necessary trips to install and remove towers and poles, install power lines, and deliver and remove equipment to areas lacking vehicle access. Helicopter flight paths will be designed to minimize impacts to nests, and buffers of active nests may be greater than those stated above to avoid helicopter disturbance of active nests identified in preconstruction surveys of the project sites. If active nests occur under planned helicopter flight paths, especially those near landing areas, coordination with CDFG will be required to determine whether modification of the flight path is necessary to avoid disturbance of active nests.

APM BIO-23: Conduct preconstruction surveys for active burrowing owl burrows. CDFG (1995) recommends that preconstruction surveys be conducted in suitable habitat in the project study area (Exhibit 1) and in a 250 foot-wide buffer zone around the construction site to locate active burrowing owl burrows. PG&E will retain a qualified biologist to conduct preconstruction surveys for active burrows according to the CDFG guidelines. The surveys will include a nesting season survey and a wintering season survey, which is the season immediately preceding construction. The surveys will cover all affected areas, including the power line route, staging areas, pull sites, and areas of access road improvements where ground disturbance is required. If no burrowing owls are detected, no further mitigation is required. If active burrowing owl burrows are detected, PG&E will implement APM BIO-24 (Implement CDFG guidelines for burrowing owl mitigation, if necessary).

APM BIO-24: Implement CDFG (1995) guidelines for burrowing owl mitigation, if necessary. Disturbance of occupied burrows will be avoided to the maximum extent feasible. Disturbance is generally defined as activities occurring within 250 feet of active burrowing owl nesting pairs during the breeding season (February 1 through August 31), or within 160 feet of occupied burrows in the non-breeding season (September 1–January 31).

During the non-breeding season, if direct impacts to an occupied burrow are unavoidable, passive relocation techniques may be considered after all other alternatives have been exhausted. Relocation may involve installing one-way doors at occupied burrow entrances and ensuring that alternative suitable burrows are available. Any relocation effort will be implemented in coordination with CDFG and in accordance with standard burrowing owl guidelines. Any burrowing owl exclusion process will be coordinated by a biologist with prior burrowing owl relocation experience.

PG&E will support site-specific mitigation measures for any burrowing owls with potential to be impacted by construction activities. Measures may include onsite burrow enhancement or artificial burrow installation, in coordination with CDFG. In the event that a site-specific burrowing owl relocation is implemented, PG&E will consult with CDFG regarding suitable replacement of foraging and burrow habitat.

APM BIO-25: Implement avoidance and mitigation measures outlined in the USFWS biological opinion for San Joaquin kit fox. USFWS will specify avoidance and mitigation measures to minimize impacts on San Joaquin kit foxes in the biological opinion they will draft for the project. PG&E will follow and implement the measures outlined in the biological opinion.

APM CR-1: Implement construction monitoring. An archaeologist that meets the Secretary of the Interior's Standards and Guidelines for professional archaeologists will monitor ground-disturbing activities in areas that were documented as having high archaeological sensitivity on Figures 2a through 2d of the Historic Properties Inventory Report (ICF 2010). The monitor will be empowered to temporarily halt construction in the immediate vicinity of a discovery while it is evaluated for significance. With the archaeologist's approval, work may continue on other portions of the site. If the discovery proves to be significant, additional measures will be implemented; these may include avoidance, capping beneath a layer of sterile soil, or data recovery through archaeological excavation (PRC 21083).

APM CR-2: Stop work if previously unknown cultural resources are discovered. If buried cultural resources such as chipped or ground stone, historic debris, or building foundations are inadvertently discovered during site preparation or construction activities, work will stop in that area and within 100 feet of the find until a qualified archaeologist can assess the significance of the find and, if necessary, develop appropriate treatment measures in consultation with PG&E and other appropriate agencies. With the archaeologist's approval, work may continue on other portions of the site. PG&E will be responsible for ensuring that the archaeologist's recommendations for treatment are implemented.

APM CR-3: Stop work if human remains are discovered. If human remains are encountered during any phase of construction, work within a 100-foot radius of the remains will be suspended immediately and PG&E and/or their representative will immediately notify the respective county coroner, as required by state law (California Health and Safety Code 7050.5) and County Ordinance No. B6-18. If the remains are determined by the coroner to be Native

American, the Native American Heritage Commission (NAHC) will be notified within 24 hours, and the NAHC will in turn immediately notify the Most Likely Descendent, pursuant to Section 5097.98 of the State Resources Code. Upon notification, the MLD has 48 hours to make recommendations as to the treatment or disposition of the remains. PG&E or its appointed representative will implement any mitigation before the resumption of activities at the site where the remains were discovered.

APM GEO-1: Perform Site-Specific Geologic Studies at Active Fault Crossings and Modify Siting/Design as Feasible to Reduce Damage. For all pole or tower replacements proposed within a State-designated Earthquake Fault Zone or within 500 feet on either side of a fault considered likely to be active but not zoned by the State, PG&E will perform site-specific geologic investigations with the purpose of locating any active fault trace(s) and ensuring that project facilities are sited and designed to avoid and reduce damage due to surface fault rupture. Studies may include any appropriate combination of literature research, air photo evaluation, reconnaissance field survey, and/or subsurface investigation (fault trenching), based on the professional judgment of licensed supervising personnel (California Professional Geologist or Certified Engineering Geologist). Where significant potential for damage due to surface fault rupture is identified, facilities siting and design will be modified to the extent feasible to avoid or reduce damage.

APM HAZ-1: Stop work if hazardous substances are encountered during construction. If hazardous substances are unexpectedly encountered during trenching, grading, or excavating work, work will be stopped until the material is properly characterized and appropriate measures are taken to protect human health and the environment. If excavation of hazardous materials is required, the materials will be handled, transported, and disposed of in accordance with federal, state, and local regulations.

APM HAZ-2: Conduct groundwater sampling and testing if suspected contaminated groundwater is encountered during construction. If suspected contaminated groundwater is encountered in the proposed project construction areas, samples will be collected and submitted for analysis of petroleum hydrocarbons, metals, volatile organic compounds, and semi-volatile organic compounds. If necessary, groundwater will be collected during construction, contained, and disposed of in accordance with all applicable regulations.

APM HAZ-3: Develop and implement a Helicopter Lift Plan. PG&E will require the helicopter vendor to prepare a Helicopter Lift Plan for approval by the FAA prior to any construction helicopter operations. Any specific transportation needs (e.g., temporary road closures) will be identified in the plan and will be coordinated with the appropriate jurisdictions.

APM HAZ-4: Develop and implement a Fire Risk Management Plan. PG&E follows a standard practice of developing and implementing a Fire Risk Management Plan that addresses fire-suppression equipment and procedures to be used during construction and training of construction and maintenance crews. Additionally, fire suppression equipment and materials will be kept adjacent to all areas of work and in staging areas, and will be clearly marked. Detailed information for responding to fires will be provided in the project's Fire Risk Management Plan. Information contained in the plan and the locations of fire-suppression materials and equipment will be included in the employee environmental training discussed in APM BIO-1.

APM HYDRO-1: Prepare and Implement a Storm Water Pollution Prevention Plan.

PG&E or its contractor will prepare and implement a SWPPP to prevent construction-related erosion and sediments from entering nearby waterways. The SWPPP will include a list of BMPs to be implemented in areas with potential to drain to tributaries of the Salinas River in Monterey County or to the San Benito River in San Benito County. These BMPs will be selected to achieve maximum sediment removal and represent the best available technology that is economically achievable. BMPs to be implemented as part of the project-specific SWPPP may include, but are not limited to, the following control measures:

- Temporary erosion control measures (such as silt fences, staked straw bales/wattles, silt/sediment basins and traps, check dams, geofabric, sandbag dikes, grass buffer strips, high infiltration substrates, grassy swales, and temporary revegetation or other ground cover) will be employed to control erosion from disturbed areas.
- Drainage facilities in downstream offsite areas will be protected from sediment using BMPs consistent with CCRWQCB requirements.
- Vegetative cover will be established on the disturbed areas as soon as possible after disturbance.

APM HYDRO-2: Develop and implement a Spill Prevention Control and Countermeasure Plan.

PG&E or its contractor will develop and implement an SPCCP to minimize the potential for, and effects of, spills of hazardous, toxic, or petroleum substances during all construction activities. The SPCCP will be completed and included in the SWPPP before any construction activities begin. PG&E will routinely inspect the construction areas to verify that the control measures specified in the SPCCP are properly implemented and maintained. PG&E will notify its contractors immediately if there is a noncompliance issue and will require compliance.

If an appreciable spill has occurred, a detailed analysis will be performed by a Registered Environmental Assessor to identify the likely cause of contamination. This analysis will conform to American Society for Testing and Materials (ASTM) standards and will include recommendations for reducing or eliminating the source or mechanisms of contamination. Based on this analysis, PG&E and its contractors will select and implement additional measures to control contamination, with a performance standard that groundwater quality and surface water quality must be returned to baseline conditions.

APM HYDRO-3: Perform a drainage study and implement a drainage plan. A drainage study will be performed for any area that crosses a waterway and requires a conveyance structure (culvert) for grading of new construction maintenance roads. The study will include calculations for the potential increases in stormwater runoff from related construction activities. The study also will identify critical drainage paths, and PG&E will implement drainage improvements to minimize the risk of flooding to downstream areas. The drainage plan will require that PG&E or its contractor will be responsible for proper maintenance of the drainages and any BMP associated with each drainage. Implementation of these measures will ensure that altered drainage patterns from project-related construction activities do not significantly affect erosion or sedimentation.

APM NOI-1: Implement noise control measures. PG&E will implement the following noise abatement measures during project construction to minimize the impact of temporary construction-related noise on nearby residences:

- Notify residents near future construction zones regarding the forecast schedule for nearby construction and provide project contact information.
- Comply with manufacturers' muffler requirements on all construction equipment engines.
- Turn off construction equipment when not in use, where applicable.
- Minimize equipment use.
- Use equipment fitted with factory-installed muffling devices during construction when readily available.
- Route truck traffic away from residential areas where feasible.

APM NOI-2: Implement noise control measures for helicopter noise. PG&E will implement the following BMPs during project construction to minimize the impact of temporary construction-related noise generated by helicopters:

- Notify residents near future construction zones and along helicopter flight paths regarding the schedule and reasons for upcoming construction and flight operations.
- Provide project contact information to facilitate response to noise complaints during the construction activity.
- To the extent feasible, plan helicopter flight paths between construction zones and the helicopter staging areas to avoid noise-sensitive receivers. Note: All flight operations including takeoff, landing, and flight paths must comply with FAA regulations and all applicable safety concerns.

APM PUB-1: Maintain Secured Facilities during construction activities. PG&E will implement the following measures during construction activities:

- All equipment will be locked and secured when left unattended at the most secure locations available;
- Contract security will be used at active pull/tension sites, laydown, and storage areas outside work hours;
- All open holes will be covered and secured once activity at that location stops (after hours);
- Anchor bolts on foundations without structures will be capped; and
- Safety structures will be placed at road crossings during overhead wire installation activity to protect traffic and pedestrians.

APM REC-1: Avoid Disruption of Recreational Facilities along the Juan Bautista de Anza National Historic Trail during Peak Use. PG&E will limit construction activities that occur in the immediate vicinity of the Juan Bautista de Anza National Historic Trail to weekdays or as otherwise permitted by the National Park Service. PG&E will ensure that the trail is fully accessible on the weekends, as well as any holidays observed by the National Park Service.

APM PU-1: Conduct a pre-construction records search/field survey to identify specific locations of water wells and well fields. To ensure minimal disturbance or alteration of water wells or well fields within the project alignment, PG&E will conduct a pre-construction records search and field survey to identify specific locations of water wells and well fields.

APM PU-2: Notify Underground Service Alert at least two days prior to initiation of construction activities in the underground portion of the power line. PG&E will ensure that Underground Service Alert is notified at least two days prior to initiation of construction activities of the underground portion of the power line. Underground Service Alert verifies and physically marks the location of all existing underground utilities in the area of anticipated construction activities to prevent accidental disturbance.

**TABLE 5-1
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Aesthetics				
Light and Glare	<p>Mitigation Measure 3.1-1: Reduce construction night lighting impacts. PG&E shall design and install all lighting at construction and storage yards and staging areas such that light bulbs and reflectors are not visible from public viewing areas; lighting does not cause reflected glare; and illumination of the project facilities, vicinity, and nighttime sky is minimized. PG&E shall submit a <i>Construction Lighting Mitigation Plan</i> to the CPUC for review and approval at least 90 days prior to the start of construction or the ordering of any exterior lighting fixtures or components, whichever comes first. PG&E shall not install or operate any exterior lighting fixtures or lighting components for the Proposed Project until the <i>Construction Lighting Mitigation Plan</i> is approved by the CPUC. The Plan shall include but is not limited to the following measures:</p> <ul style="list-style-type: none"> Lighting shall be designed so exterior lighting is hooded, with lights directed downward or toward the area to be illuminated and so that backscatter to the nighttime sky is minimized. The design of the lighting shall be such that the luminescence or light sources are shielded to prevent light trespass outside the project boundary. All lighting shall be of minimum necessary brightness consistent with worker safety. 	PG&E and its contractors to implement measure as defined.	PG&E to submit Construction Lighting Mitigation Plan to CPUC for review. CPUC mitigation monitor to inspect compliance.	Submit plan to CPUC at least 90 days prior to commencement of construction activities or the ordering of any exterior lighting fixtures or components, whichever comes first. During all phases of construction activities.
Agriculture and Forestry Resources				
No mitigation required.				
Air Quality and Greenhouse Gas Emissions				
No mitigation required.				

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources				
<p>Special-Status Species: California tiger salamander and California red-legged frog</p>	<p>Mitigation Measure 3.4-1: PG&E and/or its contractors shall implement the following measures for construction areas and maintenance areas located in suitable habitat:</p> <ul style="list-style-type: none"> The project will avoid direct impacts to sensitive wetlands areas and minimize disturbances to wetland and riparian corridors, wherever possible. Ground disturbance and construction footprints shall be minimized to the greatest degree feasible. Work activities within or adjacent to suitable habitat will be completed between April 15 and October 31, when possible. If construction activities must occur during the wet season, the perimeter of pull sites, staging areas, landing zones, shoo-fly lines, and other active construction areas shall be fenced by October 15 with amphibian exclusion fencing. A qualified biological resource monitor will conduct worker awareness training for construction personnel, addressing the species' basic biology and identifying characteristics, legal status, job-specific protection measures, and penalties for non compliance. A preconstruction survey will be conducted each day by an onsite monitor immediately preceding construction activity that occurs within or adjacent to suitable habitat. Suitable habitat that is temporarily impacted by project-related activities will be restored to pre-project conditions. Temporary impacts to upland habitat will be compensated at a 0.5:1 ratio (i.e., restoration of temporarily disturbed areas, plus permanent conservation of an additional area at a 0.5:1 ratio) and permanent impacts to upland and aquatic habitat will be compensated at a 3:1 ratio or at ratios as 	<p>PG&E and its contractors to implement measure as defined.</p>	<p>PG&E to submit to the CPUC for review survey results and, if applicable, documentation showing CDFG consultation.</p> <p>CPUC mitigation monitor to monitor compliance.</p>	<p>Submit documentation to CPUC prior to commencement of construction activities.</p> <p>During all phases of construction activities.</p>

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
Special-Status Species: California tiger salamander and California red-legged frog (cont.)	prescribed by the U.S. Fish and Wildlife Service and California Department of Fish and Game. Compensation will be secured at an approved, off-site mitigation bank, with documentation provided to the resource agencies (i.e., U.S. Army Corps of Engineers, U.S. Fish and Wildlife Service, and California Department of Fish and Game) at least 4 weeks before construction begins.			
Special-Status Species: Western pond turtle	<p>Mitigation Measure 3.4-2: PG&E and/or its contractors shall implement the following measures for construction areas located in suitable habitat within 0.3 mile of aquatic features:</p> <ul style="list-style-type: none"> • Include western pond turtle in the Environmental Training and Monitoring Program. • Before daily activities begin near areas of suitable habitat, the onsite monitor shall perform pond turtle surveys within suitable aquatic and upland habitat. Any pond turtles located within the construction area would be relocated to the nearest safe location. • To minimize the likelihood of encountering turtles in upland areas near stream crossings, construction footprints shall be restricted to the smallest area possible. 	PG&E and its contractors to implement measure as defined.	PG&E to survey daily and conduct relocation of turtle, if necessary. CPUC mitigation monitor to monitor compliance.	During all phases of construction activities.
Special-Status Species: American badger	<p>Mitigation Measure 3.4-3: PG&E and/or its contractors shall implement the following measures for construction areas located in grasslands that provide potential habitat for American badger:</p> <ul style="list-style-type: none"> • Include American badger in the Environmental Training and Monitoring Program. • Preconstruction surveys shall be conducted within 200 feet of work areas to identify potential maternal badger dens or other refugia in and surrounding work areas. A qualified biologist shall conduct the survey 14 to 30 days before construction begins. If no evidence of badger presence is detected, no further mitigation is required. 	PG&E and its contractors to implement measure as defined.	PG&E to submit to the CPUC for review survey results and, if applicable, documentation showing CDFG consultation. CPUC mitigation monitor to monitor compliance.	Submit documentation to CPUC prior to commencement of construction activities.

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Special-Status Species: American badger (cont.)</p>	<ul style="list-style-type: none"> Suitable, as determined by the Environmental Monitor, vacated burrows that are located within the work area and that will not be destroyed by construction activities will be temporarily covered using plywood sheets or other similar material to prevent badgers from occupying the burrows within the work areas. If active, non-maternal dens are located, badgers will be passively relocated via installation of one-way doors. If active maternal dens are located, the den will be avoided during construction by establishment of a 100-foot buffer. Smaller buffers, if required for construction, would be established in coordination with CDFG. 			
<p>Special-Status Species: San Joaquin kit fox</p>	<p>Mitigation Measure 3.4-4: PG&E and/or its contractors shall implement the following San Joaquin kit fox protection measures for construction areas located in grasslands and agricultural lands that provide potential habitat for San Joaquin kit fox.</p> <ul style="list-style-type: none"> Preconstruction surveys shall be conducted within 200 feet of work areas to identify potential San Joaquin kit fox dens or other refugia in and surrounding work areas. A qualified biologist shall conduct the survey 14 to 30 days before construction begins. All potential dens shall be monitored for evidence of kit fox use by placing an inert tracking medium at den entrances and monitoring for at least three consecutive nights. If no activity is detected at these sites, they may be closed following guidance established in the 1999 USFWS Standardized Recommendations for Protection of the San Joaquin Kit Fox. If kit fox occupancy is determined at a given site, den closure activities shall immediately be halted and the USFWS contacted. Depending on the den type, 	<p>PG&E and its contractors to implement measure as defined.</p>	<p>PG&E to submit to CPUC for review survey results and, if applicable, documentation showing USFWS consultation. CPUC mitigation monitor to monitor compliance.</p>	<p>Submit documentation to CPUC prior to commencement of construction activities.</p>

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
<p>Biological Resources (cont.)</p> <p>Special-Status Species: San Joaquin kit fox (cont.)</p>	<p>reasonable and prudent measures to avoid effects to kit fox could include seasonal limitations on project construction at the site (i.e., restricting the construction period to avoid spring-summer pupping season), and/or establishing a construction exclusion zone around the identified site, or resurveying the den a week later to determine species presence or absence.</p> <ul style="list-style-type: none"> • To minimize the possibility of inadvertent kit fox mortality, project-related vehicles shall observe a maximum 20 miles per hour speed limit on private roads in kit fox habitat. Nighttime vehicle traffic shall be kept to a minimum on nonmaintained roads. Off-road traffic outside the designated project area shall be prohibited in areas of kit fox habitat. • To prevent accidental entrapment of kit fox or other animals during construction, all excavated holes or trenches greater than two feet deep shall be covered at the end of each work day by suitable materials, or escape routes constructed of earthen materials or wooden planks shall be provided. Before filling, such holes shall be thoroughly inspected for trapped animals. All pipes, culverts, or similar structures with a diameter of 4 inches or greater must be capped at both ends while not in use, and otherwise inspected for kit fox presence prior to relocation or use. • All food-related trash items (such as wrappers, cans, bottles, and food scraps) shall be disposed of in closed containers and removed daily from the project area. • To prevent harassment and mortality of kit foxes or destruction of their dens, no pets shall be allowed in the project area. • Suitable habitat that is temporarily impacted by project-related activities will be restored to pre-project conditions. 			

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Special-Status Species: San Joaquin kit fox (cont.)</p>	<ul style="list-style-type: none"> Temporary impacts will be compensated at a minimum of 0.5:1 ratio (i.e., restoration of temporarily disturbed areas, plus permanent conservation of an additional area at a 0.5:1 ratio) and permanent impacts will be compensated at a minimum 3:1 ratio or at ratios as prescribed by the U.S. Fish and Wildlife Service and California Department of Fish and Game. Compensation will be implemented by participating in the San Joaquin Kit Fox Conservation Fund, which is administered via trust by the Center for Natural Lands Management. 			
<p>Special-Status Species: Raptors and Nesting Birds</p>	<p>Mitigation Measure 3.4-5: PG&E and/or its contractors shall implement the following measures for the protection of nesting birds and raptors:</p> <ul style="list-style-type: none"> Project design, construction, and maintenance will conform with PG&E's corporate Avian Protection Plan and Avian Power Line Interaction Committee (APLIC) Guidelines. A project-specific Avian Protection Plan would be developed and would include routine ground surveys by a qualified avian biologist, ground surveys staggered over time in concert with project implementation, additional ground surveys by a qualified environmental monitor, species-specific buffers, and a minimum 1,000-foot helicopter buffer for active eagle nests. During the permitting process, the USFWS may identify the need for protocol surveys for least Bell's vireo. If active nests are not identified during the preconstruction survey, no further action is required for breeding birds. If active nests are identified during the preconstruction survey, the following measures, 	<p>PG&E and its contractors to implement measure as defined.</p>	<p>PG&E to submit to the CPUC for review documentation demonstrating conformance with APLIC Guidelines and, if applicable, documentation showing USFWS and CDFG consultation.</p> <p>CPUC mitigation monitor to inspect compliance.</p>	<p>Submit documentation to CPUC prior to commencement of construction activities.</p>

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
<p>Special-Status Species: Raptors and Nesting Birds (cont.)</p>	<p>which shall be included in the project-specific Avian Protection Plan, will be implemented to avoid and minimize impacts.</p> <ul style="list-style-type: none"> - For golden eagle, construction contractors shall observe CDFG avoidance guidelines, which stipulate a minimum 500-foot buffer zone around active golden eagle nests. Buffer zones of 50 feet for passerine birds and 250 feet for raptors other than golden eagles will be established or closer as needed with resources agency permission. Buffer zones shall remain until young have fledged. - Monitoring of the nest by a qualified biologist may be required if the project-related activity has potential to adversely impact the nest. - CDFG may, on a case-by-case basis, allow construction activities to continue even if raptors and passerine birds nest within the buffers of the work activities during the nesting season. - For activities conducted with agency approval within a raptor-nesting buffer zone, a qualified biologist shall monitor construction activities and the nest(s) to monitor reactions to activities. If activities are deemed to have a negative effect on nesting raptors, the biologist shall immediately inform the construction manager that work should be halted, and CDFG will be consulted. While the USFWS issues limited take permits for golden eagle, this species and certain other raptors are fully-protected under California law. - Following construction, PG&E will comply with the PG&E company-wide Avian Protection Plan. 			

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Biological Resources (cont.)				
Riparian and Upland Habitat	<p>Mitigation Measure 3.4-6: PG&E and/or its contractors shall implement the following measures for the protection and restoration of riparian and upland habitat:</p> <ul style="list-style-type: none"> PG&E shall complete a Habitat Management Plan to be approved by the resource agencies at least 4 weeks prior to construction in potential restoration areas. The Habitat Management Plan will include, at a minimum, quantifiable success criteria, contingency provisions, and follow-up monitoring responsibilities and schedules. Affected riparian and upland habitat shall be restored to pre-project conditions. 	PG&E and its contractors to implement measure as defined.	PG&E to submit Habitat Management Plan to CPUC and resource agencies for review. CPUC mitigation monitor to inspect compliance.	Submit plan to CPUC at least 4 weeks prior to construction in potential restoration areas.
Native Trees	<p>Mitigation Measure 3.4-7: PG&E and/or its contractors shall implement the following additional measures for the protection and restoration of impacted native trees:</p> <ul style="list-style-type: none"> The record of protected trees removed during construction and the associated plans for native tree replacement will be included in the Habitat Management Plan required under Mitigation Measure 3.4-6, above. For replacement trees, the Habitat Management Plan shall include, at a minimum, quantifiable success criteria, contingency provisions, and follow-up monitoring responsibilities and schedules. 	PG&E and its contractors to implement measure as defined.	PG&E to submit Habitat Management Plan to CPUC and resource agencies for review. CPUC mitigation monitor to inspect compliance.	Submit plan to CPUC at least 4 weeks prior to construction in potential restoration areas.

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Cultural Resources				
Paleontological Resources	<p>Mitigation Measure 3.5-1: Stop work if previously unknown paleontological resources are discovered. Prior to the start of any subsurface excavations (excluding pole and tower holes) that would extend into Pleistocene to Oligocene sedimentary rock units, all construction forepersons and field supervisors shall receive training by a qualified professional paleontologist, as defined by the SVP (1995), who is experienced in teaching non-specialists, to ensure they can recognize fossil materials and will follow proper notification procedures in the event any are uncovered during construction. Procedures to be conveyed to workers include halting construction within 50 feet of any potential fossil find and notifying a qualified paleontologist, who will evaluate its significance. Training on paleontological resources will also be provided to all other construction workers, but may involve using a videotape of the initial training and/or written materials rather than in-person training by a paleontologist. If a fossil is determined to be significant and avoidance is not feasible, the paleontologist will develop and implement an excavation and salvage plan in accordance with SVP standards (SVP, 1995; SVP, 1996).</p>	PG&E and its contractors to implement measure as defined.	<p>PG&E to suspend all work and contact CPUC if paleontological resources are discovered.</p> <p>If resource is significant, submit excavation and salvage plan to CPUC.</p> <p>CPUC mitigation monitor to monitor compliance.</p>	During all phases of construction activities.
Geology, Soils, and Seismicity				
No mitigation required.				
Hazards and Hazardous Materials				
Hazardous Materials	<p>Mitigation Measure 3.7-1: PG&E and/or its contractors shall implement construction best management practices, including but not limited to, the following:</p> <ul style="list-style-type: none"> • Follow manufacturer's recommendations on use, storage, and disposal of chemical products used in construction; • Avoid overtopping construction equipment fuel gas tanks; • Use tarps and adsorbent pads under vehicles when refueling to contain and capture any spilled fuel; 	PG&E and its contractors to implement measure as defined.	CPUC mitigation monitor to monitor compliance.	During all phases of construction activities.

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hazards and Hazardous Materials (cont.)				
Hazardous Materials (cont.)	<ul style="list-style-type: none"> • During routine maintenance of construction equipment, properly contain and remove grease and oils; • Properly dispose of discarded containers of fuels and other chemicals; and • If wood poles removed from the Hollister Pole Segment are not recycled or reused, they shall be disposed of at a landfill facility that is authorized to accept treated wood pole waste in accordance with HSC 25143.1.4(b). 			
	<p>Mitigation Measure 3.7-2: PG&E shall prepare a Hazardous Substance Control and Emergency Response Plan (Plan) and implement it during construction to ensure compliance with all applicable federal, State, and local laws and guidelines regarding the handling of hazardous materials. The Plan shall prescribe hazardous material handling procedures to reduce the potential for a spill during construction, or exposure of the workers or public to hazardous materials. The Plan shall also include a discussion of appropriate response actions in the event that hazardous materials are released or encountered during excavation activities. The Plan shall be submitted to the CPUC for review and approval prior to the commencement of construction activities.</p>	PG&E and its contractors to implement measure as defined.	PG&E to submit Hazardous Substance Control and Emergency Response Plan to CPUC for review and approval. CPUC mitigation monitor to monitor compliance.	Submit plan to CPUC at prior to commencement of construction activities. During all phases of construction activities.
	<p>Mitigation Measure 3.7-3: PG&E shall prepare and implement a Health and Safety Plan to ensure the health and safety of construction workers and the public during construction. The plan shall include information on the appropriate personal protective equipment to be used during construction.</p>	PG&E and its contractors to implement measure as defined.	PG&E to submit Health and Safety Plan to CPUC for review and approval. CPUC mitigation monitor to monitor compliance.	Submit plan to CPUC prior to commencement of construction activities. During all phases of construction activities.
	<p>Mitigation Measure 3.7-4: PG&E shall ensure that a Workers Environmental Awareness Program is established and implemented to communicate environmental concerns and appropriate work practices to all construction field personnel. The training program shall emphasize site-specific physical conditions to improve hazard prevention, and shall include a review of the Health and Safety Plan and the Hazardous</p>	PG&E and its contractors to implement measure as defined.	CPUC mitigation monitor to attend the first program. PG&E to submit copies of sign in sheets from training sessions.	Training to be completed prior to commencement of construction activities. Submit sign-in sheets to CPUC prior to commencement of construction activities.

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hazards and Hazardous Materials (cont.)				
Hazardous Materials (cont.)	<p>Substance Control and Emergency Response Plan. The CPUC mitigation monitor shall attend the first training session. PG&E shall submit documentation to the CPUC prior to the commencement of construction activities that each worker on the project has undergone this training program.</p>			
	<p>Mitigation Measure 3.7-5: PG&E shall ensure that oil-absorbent material, tarps, and storage drums shall be used to contain and control any minor releases. Emergency spill supplies and equipment shall be kept at the project staging area and adjacent to all areas of work, and shall be clearly marked. Detailed information for responding to accidental spills and for handling any resulting hazardous materials shall be provided in the project's Hazardous Substance Control and Emergency Response Plan (see Mitigation Measure 3.7-2), which shall be implemented during construction.</p>	<p>PG&E and its contractors to implement measure as defined.</p>	<p>CPUC mitigation monitor to monitor compliance.</p>	<p>During all phases of construction activities.</p>
Protected Air Space	<p>Mitigation Measure 3.7-6: PG&E shall incorporate the Federal Aviation Administration (FAA) conditions outlined in FAA Aeronautical Studies 2009-AWP-1446-OE (FAA, 2009a) and 2009-AWP-1447-OE (FAA, 2009b), including:</p> <ul style="list-style-type: none"> • Poles 22/00 and 22/01 shall be marked or lighted in accordance with FAA Advisory circular 70/7460-1 K Change 2, Obstruction Marking and Lighting, red lights. • Notices of Actual Construction or Alternative, shall be completed and returned to the FAA within five days after the construction reaches its greatest height. • Poles 22/00 and 22/01 shall not exceed 82 feet above ground level (i.e., 381 feet above mean sea level). 	<p>PG&E and its contractors to implement measure as defined.</p>	<p>PG&E to submit evidence of compliance with FAA regulations to CPUC. CPUC mitigation monitor to monitor compliance.</p>	<p>Submit compliance documentation to FAA within five days after construction of the Hollister Pole Segment reaches its greatest height. During all phases of construction activities.</p>

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Hydrology and Water Quality				
Water Quality	<p>Mitigation Measure 3.8-1: For all segments of new access roads that would be within 300 feet of an existing surface water channel and traverse a ground slope greater than two percent, the following protective measures shall be installed:</p> <ul style="list-style-type: none"> • Permanent access roads shall be in-sloped with a rock-lined ditch on the inboard side; • Water bars, or a similar drainage feature, shall be installed at 150 foot intervals (so as to reduce the effective, connected length of the access road to 150 feet). 	PG&E and its contractors to implement measure as defined.	CPUC mitigation monitor to monitor compliance.	During all construction of all new access roads within 300 feet of an existing surface water channel and that traverse a ground slope greater than two percent.
Drainage	<p>Mitigation Measure 3.8-2: The drainage study, as proposed by PG&E in APM-HYDRO-3, shall provide sizing recommendations to ensure each culvert can pass a 10-year storm event without being submerged, and design recommendations to ensure that culvert installation would result in no net increase in erosion and sedimentation during peak flows. Sizing and design recommendations for each culvert shall consider the individual drainage characteristics of the stream (e.g., slope, watershed area, and substrate) and may include any combination of features necessary to achieve no net increase in erosion and sediment transport. Such features may include the following:</p> <ul style="list-style-type: none"> • Downstream armoring with gravel or gabions, coupled with appropriate roughness features or characteristics, so as to dissipate and slow flows exiting the culvert and leaving the modified stream segment; • A wide culvert that retains the natural stream bed and roughness elements without notably increasing flow depth; • Design length and slope of culvert to maintain existing topography 	PG&E and its contractors to implement measure as defined.	PG&E to submit the drainage study to CPUC for review and approval. CPUC mitigation monitor to monitor compliance.	Submit study to CPUC prior to commencement of construction activities. During all culvert-related construction activities.

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Land Use and Planning				
No mitigation required.				
Mineral Resources				
No mitigation required.				
Noise				
Construction Noise	<p>Mitigation Measure 3.11-1-1: Construction activity shall be limited to between the hours of seven a.m. and seven p.m., Monday through Saturday, except with CPUC approval and where necessary to ensure worker safety or to conduct certain work during electrical line clearances or during procedures that cannot be interrupted.</p> <p>Mitigation Measure 3.11-2: PG&E and/or its contractors shall shield compressors and other small stationary construction equipment with portable barriers when operating within 100 feet of residences.</p> <p>Mitigation Measure 3.11-3: In the event that nighttime (i.e., between seven p.m. and seven a.m.) construction activity is determined to be necessary within 500 feet of an occupied residential dwelling unit, a nighttime noise reduction plan shall be developed by PG&E and submitted to the CPUC for review and approval. The noise reduction plan shall include a set of site-specific noise attenuation measures that apply state of the art noise reduction technology to ensure that nighttime construction noise and levels and associated nuisance are reduced to the most extent feasible. The attenuation measures may include, but not be limited to, the control strategies and methods for implementation that are listed below. If any of the following strategies are found by PG&E to not be feasible, an explanation as to why the specific strategy is not feasible shall be included in the nighttime noise reduction plan.</p> <ul style="list-style-type: none"> Plan construction activities to minimize the amount of nighttime construction. 	<p>PG&E and its contractors to implement measure as defined.</p> <p>PG&E and its contractors to implement measure as defined.</p> <p>PG&E and its contractors to implement measure as defined.</p>	<p>CPUC mitigation monitor to monitor compliance.</p> <p>CPUC mitigation monitor to monitor compliance.</p> <p>If applicable, PG&E to submit nighttime noise reduction plan to CPUC for review and approval.</p> <p>CPUC mitigation monitor to monitor compliance.</p>	<p>During all phases of construction activities.</p> <p>During all phases of construction activities.</p> <p>Submit plan to CPUC prior to commencing any nighttime construction activities.</p> <p>During all phases of construction that include nighttime construction activities.</p>

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Noise (cont.)				
Construction Noise (cont.)	<ul style="list-style-type: none"> Offer temporary relocation of residents within 200 feet of nighttime construction areas. Temporary noise barriers, such as shields and/or blankets, shall be installed immediately adjacent to all nighttime stationary noise sources (e.g., drilling rigs, generators, pumps, etc.) that block the line of sight between nighttime activities and the closest residences. 			
Population and Housing				
No mitigation required.				
Public Services				
No mitigation required.				
Recreation				
No mitigation required.				
Transportation and Traffic				
Construction Traffic	<p>Mitigation Measure 3.15-1: Traffic Management and Control Plan. PG&E shall prepare a Traffic Management and Control Plan that shall include, at a minimum, the measures listed below. The Plan shall be submitted to the CPUC for approval and shall be distributed to all construction crew members prior to commencement of construction activities. The Plan shall:</p> <ul style="list-style-type: none"> Include descriptions of work hours, haul routes, work area delineation, any traffic detour routes, bicyclists and pedestrian detour routes, traffic control, and flagging; Identify all access and parking restriction and signage requirements; Require workers to park personal vehicles at the approved staging areas and take only necessary project vehicles to the work sites; 	PG&E and its contractors to implement measure as defined.	PG&E to submit Traffic Management to CPUC for review and approval. CPUC mitigation monitor to monitor compliance.	Prior to commencement of construction activities. During all phases of construction.

**TABLE 5-1 (continued)
MITIGATION MONITORING, REPORTING AND COMPLIANCE PROGRAM FOR THE PG&E HOLLISTER 115 KV POWER LINE RECONDUCTORING PROJECT**

Environmental Impact	Mitigation Measures Proposed in this IS/MND	Implementing Actions	Monitoring/Reporting Requirements	Timing
Transportation and Traffic (cont.)				
<p>Construction Traffic (cont.)</p>	<ul style="list-style-type: none"> Lay out plans for notifications of all lane and road closures and a process for communication with affected road users, including truckers, residents, and landowners prior to the start of construction. Advance public notification shall include posting of notices and appropriate signage of construction activities. The written notification shall include the construction schedule, the exact location and duration of activities within each street (i.e., which road/lanes and access point/driveways/parking areas would be blocked on which days and for how long), and a toll-free telephone number for receiving questions or complaints; Include plans to coordinate all construction activities with emergency service providers in the area. Emergency service providers would be notified of the timing, location, and duration of construction activities. All roads would remain passable to emergency service vehicles at all times; and Identify all roadway locations where special construction techniques (e.g., night construction) would be used to minimize impacts to traffic flow. <p>Mitigation Measure 3.15-2: Coordination with Union Pacific Railroad. PG&E shall coordinate all construction activities with Union Pacific Railroad to avoid delays in freight train service along the Hollister Branch Line. PG&E shall implement, at a minimum, the Union Pacific Railroad safety and engineering guidelines when installing power lines over the railroad right-of-way (ROW). The Workers Environmental Awareness Program required under Mitigation Measure 3.7-4 shall require construction crews and project personnel to be trained on Union Pacific Railroad safety guidelines prior to commencing work within or over the railroad ROW.</p>	<p>PG&E and its contractors to implement measure as defined.</p>	<p>PG&E to submit documentation to CPUC showing proof of coordination with Union Pacific Railroad. CPUC mitigation monitor to monitor compliance.</p>	<p>During all phases of construction involving wire installation within or over the railroad ROW.</p>
Utilities and Service Systems				
<p>No mitigation required.</p>				