Hollister 115 kV Power Line Reconductoring Project
MONTHLY COMPLIANCE REPORT
September 2012

Introduction

This Monthly Compliance Report is intended to provide the California Public Utilities Commission (CPUC) with a status update regarding compliance with the Pacific Gas and Electric Company (PG&E) Hollister 115 Kilovolt (kV) Power Line Reconductoring Project (project) Mitigation Monitoring, Reporting and Compliance Program (MMRCP). The MMRCP was developed pursuant to the California Environmental Quality Act and in accordance with the Initial Study/Mitigated Negative Declaration (MND) for the project.

Status of Construction

Construction activities for the project continued on both the tower and pole segments during the month of September. Construction activities were conducted by PG&E Tower and Line crews and included augering holes for the installation of tower footings, installing poles and towers, and pulling conductor. Table 1: Construction Activity Summary provides a list of observed activities by location for the month of September. Representative photographs of activities that occurred are included in Attachment A: Photographs. In addition to the activities listed in Table 1: Construction Activity Summary, a Line Crew phased the southern circuit (#1) inside the Hollister Substation and Pole 22/05. The bottom switch at Pole 13/07 was repaired and modifications were installed at Tower 5/30. In addition, one crossing structure was installed with guy wire between Towers 5/33 and 5/34.

During the month of September, a Davey Tree Expert Company crew removed trees and brush around Tower 0/04 and Tower 6/40. A table of the trees trimmed in the month of September is included in Attachment B: Tree Trimming Table.

The PG&E Tower Crew improved the access road between Towers 0/04 and 0/05, in accordance with Variance #19. An Aztrack Construction crew improved the road between Poles 18/13 and 18/14, in accordance with Variance #25.

The LEI conducted a ride-a-long visit with Kevin Janik (PG&E Senior Land Consultant – Environmental Compliance) on September 19. In addition, the LEI conducted an assessment with Mike Huckins (PG&E Line Superintendent) at a crossing structure site between Towers 1/10 and 1/11 and a pulling location at Tower 0/09 on September 29.

No construction activities were conducted on Sundays throughout the month of September. In addition, no construction activities occurred on Saturday, September 1 and no construction occurred on Monday, September 3, due to the Labor Day holiday.

Table 1: Construction Activity Summary

Worksite	Tower Installation	Augering/ Excavation	Concrete Pouring	Pole Installation	Conductor Installation/ Transfer	Existing Wood Pole or Tower Removal
Tower 0/06		X				
Tower 0/07		X				
Tower 2/13	X	X				X
Tower 2/14		X				X
Tower 2/15		X				
Tower 3/19		X				
Tower 3/20		X				
Tower 3/21		X				
Tower 3/22	X	X	X			
Tower 4/24		X				
Tower 4/25		X				
Tower 4/26	X					
Tower 5/35	X					
Tower 5/36	X					
Tower 6/37	X					
Tower 6/38	X					
Tower 6/39	X				X	
Tower 6/40A	X					
Pole 15/01					X	
Pole 15/02					X	
Pole 15/03					X	
Pole 15/04					X	
Pole 15/05					X	
Pole 15/06					X	
Pole 15/07					X	
Pole 15/08					X	
Pole 15/09					X	
Pole 15/10					X	
Pole 15/11					X	
Pole 15/12					X	

Worksite	Tower Installation	Augering/ Excavation	Concrete Pouring	Pole Installation	Conductor Installation/ Transfer	Existing Wood Pole or Tower Removal
Pole 15/13					X	
Pole 15/14					X	
Pole 16/01					X	
Pole 16/02					X	
Pole 16/03					X	
Pole 16/04					X	
Pole 16/05					X	
Pole 16/06					X	
Pole 16/07					X	
Pole 16/08					X	
Pole 16/09					X	
Pole 16/10					X	
Pole 16/11					X	
Pole 16/12					X	
Pole 16/13					X	
Pole 16/14					X	
Pole 16/15					X	
Pole 16/16					X	
Pole 16/17					X	
Pole 16/18					X	
Pole 17/00					X	
Pole 17/01					X	
Pole 17/02					X	
Pole 17/03					X	
Pole 17/04					X	
Pole 17/05					X	
Pole 17/06					X	
Pole 17/07					X	
Pole 17/08					X	
Pole 17/12				X		X
Pole 17/15				X		X
Pole 17/16				X	X	X

Erosion Control/Storm Water Pollution Prevention Plan Compliance

ETIC Engineering (ETIC) crews implemented best management practices and administered measures related to the project's Storm Water Pollution Prevention Plan. ETIC crews deployed rock bags to secure exclusion fence gates at Tower Landing Zone (TLZ)-2 during the month of September. Rock bags were also deployed to secure straw wattles at a drainage crossing on the overland access road between Towers 2/13 and TLZ-2. An ETIC crew replaced silt fencing along the access road that had been improved between Poles 18/04 and 18/05. In addition, fiber rolls were removed from the work area for Pole 17/02 and gravel bags were installed at the work area for Pole 15/00.

Environmental Inspection/Biological Monitoring

The LEI and Environmental Inspectors (EIs) were on site each day that construction activities were occurring. Pre-construction wildlife surveys for California red-legged frog (*Rana draytonii*) and California tiger salamander (*Ambystoma californiense*) (CTS) were conducted each day prior to construction activities. Western pond turtle (*Actinemys marmorata*) surveys were conducted daily before construction activities began for project areas located adjacent to suitable aquatic and upland habitat within 0.3 mile of aquatic features.

Wildlife exclusion fences were inspected regularly by the LEI or EI. No special-status species were observed during inspection of the exclusion fences. ETIC crews, the LEI, and EIs made repairs to the wildlife exclusion fences as needed. Additional details regarding environmental inspection and monitoring activities are included in Attachment C: Mitigation Monitoring, Reporting, and Compliance Program. No special-status amphibian species were observed during the month of September. The EI and LEI conducted a survey of all landing zones and pull sites currently surrounded with exclusion fencing in order to assess any necessary repairs. Any necessary repairs were coordinated with ETIC. An ETIC crew installed exclusion fencing for TLZ-2 on September 7 and an ETIC crew installed an electric cattle fence at TP-6 on September 14.

Pre-construction Wildlife Surveys

Per Condition 7.3 of the California Department of Fish and Game (CDFG) Incidental Take Permit (ITP), pre-construction wildlife surveys for California red-legged frog (*Rana draytonii*) and CTS were conducted each day prior to construction activities by the LEI or EIs.

Avian Nesting Surveys

Insignia Environmental (Insignia) biologists conducted avian nesting surveys in accordance with the CDFG Streambed Alteration Agreement, Mitigation Measures BIO 3.4-5 and BIO-APM-21 of the MMRCP, and the Avian Mitigation Plan. No new nests have been located and avian nesting season was complete as of August 15 in accordance with the project's Avian Mitigation Plan; therefore, no additional avian nesting surveys are required at this time.

Sensitive Resource Sightings/Discoveries

One golden eagle (*Aquila chrysaetos*) was observed flying north of Pole 18/17 and another was observed near the access road to TP-5 on September 13. In addition, a golden eagle was observed perched on a fence approximately 200 feet south of Pole 16/18 on September 15. One golden eagle was observed perched on a fence approximately 200 feet south of Pole 16/18 and another golden eagle was observed flying in the vicinity of Tower 3/19 on September 17. One golden eagle was observed at Pole 18/18 on September 21 and another golden eagle was observed perched on Pole 19/04 on September 22. One golden eagle was observed flying in the vicinity of Pole 16/01 on September 24 and flying in the vicinity of Pole 16/14 on September 25.

The LEI monitored the relocation of two woodrat (*Neotoma sp.*) houses located along the access road between Towers 0/04 and 0/05 on September 5. Two PG&E crewmembers dismantled and relocated one ground and one aerial wood rat house in accordance with the project's Woodrat Plan. Crew members were equipped with gloves and respirators to avoid pathogen contamination. Sticks from both houses were consolidated and relocated due to the small and partial nature of the aerial wood rat house. Sticks were gathered and relocated approximately 30 feet west of the access road within a shaded location adjacent to the removed ground wood rat nest. A wood planter with some slats removed for an entrance way was utilized as a framework for the relocated houses. Sticks from the wood rat houses were distributed inside and around the outside of the wood planter to encourage wood rat habitation. Neither of the woodrat houses was active, as indicated by dried, old vegetation and sticks. No species were observed within any of the wood rat houses or during the relocation process.

No other sensitive species were observed within the project area in the month of September.

Cultural Resource Monitoring

Cultural resource monitor Justin Wisely (Far Western Anthropological Research Group, Incorporated) was present for trenching and excavation activities in areas of high cultural sensitivity for 3 days during the month of September. No cultural resources have been identified to date.

Non-Compliances

One Non-Compliance occurred on September 22 due to an unauthorized disturbance of approximately 0.023 acre of wetland at existing Tower 2/13 resulting from the removal of the existing tower and excavation of one footing for the replacement Tower 2/13. The LEI and EI were not aware that the wetland in question could not be impacted because the existing Tower 2/13, which was to be removed, was located within the wetland. In addition, the new Tower 2/13 had been incorrectly surveyed and located within the wetland. The EI's did not review the United States Army Corps of Engineers (USACE) permit on September 22 to confirm whether or not the wetland in question could be impacted. The correct location of the replacement Tower 2/13 was surveyed out of the wetland on October 8. It was assumed that the work area at the existing Tower 2/13 would be revegetated along with the other project work areas, at a later date. As a result, the disturbance was not described as a violation in the daily reports in September, since

working within the wetland was not identified as an unpermitted activity by the LEI or EI. The Non-Compliance was discovered on October 9 and agency notifications were made to the United States Fish and Wildlife Service, USACE, Regional Water Quality Control Board, CDFG, and the CPUC on October 11. An incident and Non-Compliance Resolution Report were prepared in October.

Other Issues and Concerns

One Occurrence was documented on September 6 as a hydraulic fluid leak occurred at Tower 0/06. The crew immediately shut off the equipment and contained the leak using a spill sock and a spill kit. No fluid dripped onto the soil and no further action was required to clean up the spill.

An Occurrence was documented from September 6 through 8 as a Terex Reedrill was left on site overnight at the work area for Tower 0/06, as it was unable to start and in need of repair. According to the revised Hazardous Substance Control and Emergency Response Plan as well as the Traffic Control Plan, vehicles and equipment should be stored overnight in a designated pull site or landing zone. Both plans were approved by the CPUC on June 29, 2012. As the Terex Reedrill was not stored within a designated pull site or landing zone, this incident was documented as an Occurrence. The mechanics worked to repair the Terex Reedrill on September 7 and 8; however, as repairs were not completed due to time constraints, the Terex Reedrill remained on site. Mechanics completed repairs on September 10 and the drill was removed from the right-of-way.

An Occurrence was documented on September 20 and 21 as the FMC track-digger utilized to auger footing holes was leaking. The leaks were wrapped and properly contained. No spills occurred and no fluid dripped onto the soil. This event was documented as an Occurrence as measure WQC-09 of the project's 401 Water Quality Certification specifies that all construction equipment used on site must be well maintained and checked daily for fuel, oil, and hydraulic fluid leaks or other problems that could result in spills of toxic materials. The LEI and EI informed the crews that the track-digger needed to be repaired or removed from the project site as soon as possible to prevent spills from occurring in the future.

One Occurrence was documented on September 22 when the FMC track-digger leaked hydraulic fluid from a hose while drilling at the work area for Tower 2/13. The equipment was shut off immediately and the hose was wrapped using a spill sock and spill kit. Approximately 24 ounces of hydraulic fluid spilled onto the soil at the work area for Tower 2/13 and three 5-gallon buckets of contaminated soil were removed and carried off site. The FMC track-digger drill was relocated to TLZ-2 and a Visqueen tarp was placed underneath the equipment. No further action was required to clean up the spill. The LEI notified the Environmental Field Specialist, John Villalobos, of the Occurrence. A mechanic diagnosed the FMC track digger on September 24 and demobilized it from the project site for repairs on September 25.

No other issues or concerns were observed or documented during the month of September.

Mitigation Monitoring, Reporting, and Compliance Program Summary

CPUC Third-Party Environmental Monitor Rachel Danielson (Environmental Science Associates) conducted a site visit with the LEI at Towers 0/04 through 0/06 on September 6. One

Occurrence was documented regarding a hydraulic fluid leak at Tower 0/06. No recommendations were identified at that time.

The CPUC Third-Party Environmental Monitor conducted a site visit with the LEI in the vicinity of Poles 16/17 and 16/18 on September 13 and in the vicinity of the crossing structure between Towers 5/33 and 5/34 and near Towers 3/21 and 3/22 on September 20. The CPUC Third-Party Environmental Monitor conducted a site visit with the LEI in the vicinity of Pole 13/07, PP-7A, and Poles 16/00 through 16/18 on September 27. No other issues or concerns were reported to PG&E following the site visits. The MMRCP Status Report provided in Attachment C: Mitigation Monitoring, Reporting, and Compliance Program includes additional details and the current implementation status of each mitigation measure.

Environmental Training

All new project personnel are required to attend an environmental training prior to beginning work on the right-of-way. Environmental trainings were provided on a daily basis as new employees arrived to the project. In September, 21 new employees were trained. A total of 353 project personnel have received the environmental orientation training to date. Attachment D: Environmental Training Log includes copies of the training sign-in sheets for the month of September.

Variance Requests

The following summarizes the status of variance requests for the project to date:

CPUC Variances

Variance Request Number	Description	Approval Date
1	The PG&E Llagas Substation Shoofly was changed from two temporary wood poles to six temporary wood poles.	9/27/11
2	Pole 13/07 was redesigned from a light-duty steel pole to a TSP in the Project Description of the MND.	9/27/11
3	The PG&E Natividad Switch Replacement site was added to the Project Description of the MND.	9/27/11
4	PP-1 and PP-2 were combined to one site.	10/14/11
5	Request for a new staging area located on Santa Ana Road in Hollister.	No longer proposed
6	Request for a new staging area located north of Poles 13/17 to 14/00, on property owned by Earthbound Farms.	12/14/11
7	Request for a change in the location and configuration of a power pole shoofly for the Anzar switch tower near Poles 13/01 and 13/02.	12/15/11
8	Request for a change in the locations of proposed access routes for Poles 13/09 and 13/10.	12/14/11
9	Modification of CPUC Mitigation Measure Bio 3.4-1 - to allow for fencing of staging areas, landing zones, and pull sites beyond the October 15, 2011, deadline. Modification of CPUC Mitigation Measure Bio 3.4-3 and 3.4-4 for American badger and San Joaquin kit fox to change the 14- to 30-day pre-construction biological survey timing to allow for surveys 1 to 30 days prior to construction in new areas.	11/22/11
10	Request for a new pull site located between Poles 14/01 and 14/02.	No longer proposed
11	Request for a new pole route between Poles 14/09 to 14/15.	02/03/12
12	Request for a new access road to Tower Landing Zone 4.	03/07/12
13	Request authorization to conduct soil hauling by truck.	03/02/12
14	Request authorization to use TP-1 as a landing zone.	01/25/12
15	Request a new pull site near Pole 20/03.	03/21/12
16	Request modification to applicant-proposed measure HAZ-3 to eliminate Federal Aviation Administration approval requirement.	Conditional approval 03/15/12
17	Request approval to utilize additional existing access roads.	03/02/12
18	Request approval to utilize overland access roads.	Conditional approval 03/21/12

Variance Request Number	Description	Approval Date
19	Request use of additional existing roads, existing roads that need improvement, and overland access routes to access project work areas.	05/21/12
20	Request the addition of PP-8A between Poles 20/02 and 20/02A.	On hold
21	Request use of additional overland access routes and a crane pad.	06/28/12
22	Request use of additional concrete washout locations.	08/06/12
23	Request use of an additional overland access route to Tower 6/39.	08/10/12
24	Request use of an existing road between Poles 18/13 and 18/14	Denied on 08/10/12
25	Request reclassification of an existing road between Poles 18/13 and 18/14.	09/07/12
26	Request additional crossing structure locations.	In development

Attachment A: Photographs

Photograph 1:

View of PG&E crew members removing an aerial woodrat (*Neotoma sp.*) house from a coast live oak (*Quercus agrifolia*).

Photograph 2:

View of PG&E crew members gathering sticks from the ground wood rat house into a wooden planter.

Photograph 3:

View of the relocated wood rat house with sticks surrounding the wooden planter utilized as a framework.

Photograph 4:

Electric fence installation and exclusion fence repair at TP-6.

Photograph 5:

An ETIC crew removing existing silt fence and excavating trenches for the installation of replacement silt fencing along the access road between Poles 18/04 and 18/05.

Photograph 6:

Crossing structure assembly north of Highway 156 near Tower 05/34.

Attachment B: Tree Trimming Table

Hollister Tree Trimming Table

September 2012

Date	Location	Species	Pre-Construction Condition*	Trimming Type	Estimated Percentage Trimmed[1]	Diameter at Breast Height (DBH) (in Inches)	Tower/Pole
09/05/12	Pamco/Gus Settrini	Coast Live Oak	5	Remove	100	7	Tower 0/04
	Pamco/Gus Settrini	Coast Live Oak	5	Remove	100	9	Tower 0/04
	Pamco/Gus Settrini	Coast Live Oak	5	Remove	100	6	Tower 0/04
	Pamco/Gus Settrini	Coast Oak Live	5	Remove	100	10	Tower 0/04
	Pamco/Gus Settrini	Coast Live Oak	5	Remove	100	12	Tower 0/04
	Pamoc/Gus Settrini	Coast Live Oak	5	Remove	100	5	Tower 0/04
09/24/12	Hodson Land	Coast Live Oak	6	Side	< 5	19	Tower 06/40
	Hodson Land	Coast Live Oak	6	Side	< 5	16	Tower 06/40
	Hodson Land	Coast Live Oak	6	Side	< 5	18	Tower 06/40
	Hodson Land	Coast Live Oak	6	Side	< 5	15	Tower 06/40

***Pre-Construction Condition Descriptions Provided by Contractor's Certified Arborist:**
0 = deceased
1 = evidence of massive past failures, extreme disease, and in severe decline.
2 = may be saved with attention to class 4 pruning, insect/pest eradication and future monitoring.
3 = some past failures, some pest or structural defects that may be mitigated by class 4 pruning.
4 = may have had minor past failures, excessive deadwood, or minor structural defects that can be mitigated with pruning.
5 = relatively healthy tree with little visual structural and or pest defects.
6 = healthy tree that probably can be left in its natural state.
7-9 = have had proper arbocultural pruning and attention or have no apparent structural defects
10 = specimen tree with perfect shape, structure and foliage in a protected setting (ie, park).

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[1] The percentage trimmed is an approximate estimate based on the tree canopy.
Trees were trimmed by necessity, based on the following criteria:

- For access roads, trees were trimmed based on the width of access needed for the construction vehicles
- For compliance, trees were trimmed based on the area needed to maintain adequate line clearance, in accordance with General Order 95
- All trims are prescribed to maintain the thrift and continued health of the tree

Attachment C: Mitigation Monitoring, Reporting, and Compliance Program

Hollister Reconductoring Project Mitigation Measure Status Report

Monday, October 01, 2012
4:22:23 PM

Report Criteria:
AGENCY: CPUC
SOURCE: MMCRP
TIMING: During; During and Post; Pre and During; Pre, During, and Post
LOCATION: All

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Air Quality	AIR-APM-01	01	Implement MBUAPCD dust control measures	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); and limit the area under construction at any one time as feasible.	Dust control measures were incorporated into the construction contract. All feasible and applicable dust control measures required by the Monterey Bay Unified Air Pollution Control District (MBUAPCD) are being implemented during construction.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Air Quality	AIR-APM-02	01	Manage 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;	PG&E incorporated the Best Management Practices (BMPs) described in this measure in the construction contract; therefore, the pre-construction portion of this measure is complete. PG&E has minimized tailpipe emissions to the extent practicable through the implementation of this measure whenever diesel-powered construction equipment has been utilized on the project. This measure will be continue to be implemented during construction.	Pre and During	On-going
Air Quality	AIR-APM-02	02	Manage tailpipe emissions	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.	Unnecessary idling is addressed in the environmental training program and is monitored throughout the day.	Pre and During	On-going
Air Quality	AIR-APM-02	03	Manage tailpipe emissions	Use ground equipment in place of helicopters where practicable.	PG&E will utilize ground equipment in place of helicopters to the extent possible. No helicopter work has been conducted on the pole segment of the project to date.	During	On-going
Air Quality	AIR-APM-03	01	Minimize greenhouse gas emissions	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; and minimize construction equipment exhaust by using low-emission or electric construction equipment where feasible.	Carpooling to the project site is encouraged. Construction waste is recycled to the extent feasible. Natural gas-powered vehicles and light-duty trucks, as well as low-emission construction equipment is used where feasible.	During	On-going
Biological	BIO-3.4-1	01	Special Status Species	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.	One Non-Compliance occurred on September 22 due to the unauthorized disturbance of a wetland at Tower 2/13. Please refer to the CPUC September Monthly Report for additional details. PG&E has taken steps to address the Non-Compliance and will avoid direct impacts to sensitive wetlands and ripairan areas when conducting work in new construction areas.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-3.4-1	02	Special Status Species	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 in sensitive habitat(s) or adjacent to sensitive plant or wildlife resources, 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. All amphibian exclusion fencing shall be monitored by the on-site environmental monitor or designated construction personnel daily to ensure that it is (1) functional; and (2) that wildlife, particularly amphibians or reptiles, are not congregating along the fence perimeter.	The United States (U.S.) Fish and Wildlife Service (USFWS) and the U.S. Army Corps of Engineers (USACE) approved a variance request on November 15, 2011, to extend the October 15, 2011 fencing requirement to December 3, 2011. The CPUC approved this variance request on November 22, 2011. The fencing of all pull sites, landing zones, staging areas and shoo-fly work areas utilized prior to April 15, 2012 was completed by December 3, 2011. Exclusion fencing was installed at Tower Pull Site 6 on April 24, 2012. In addition, the size of the exclusion fencing at the Lagunitas Switches area was reduced and an electric fence was installed on April 17, 2012. Exclusion fencing was installed at Pole Pull Site 7A on June 7, 2012 and at TLZ-2 on September 7, 2012. An electric fence was installed at TP-6 on September 14, 2012. Any additional exclusion fencing will be installed prior to October 15, 2012. A qualified biologist has monitored all fence installations and removals to date, and will monitor future fence work.	Pre and During	On-going
Biological	BIO-3.4-1	03	Special Status Species	All erosion control and landscaping specifications shall be restricted to natural-fiber, biodegradable meshes and coir rolls.	All erosion control materials have been and will continue to be restricted to natural fiber, biodegradable meshes, and coir rolls.	Pre and During	On-going
Biological	BIO-3.4-1	04	Special Status Species	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.	All project personnel will attend the project-specific awareness training prior to working in project areas. To date, 332 construction personnel have attended the environmental training.	Pre and During	On-going
Biological	BIO-3.4-1	05	Special Status Species	A preconstruction survey will be conducted each day by an onsite monitor immediately preceding construction activity that occurs within or adjacent to suitable habitat.	A pre-construction survey for California red-legged frog (CRLF) and California tiger salamander (CTS) has been conducted by an on-site biological monitor each day immediately prior to construction activities. To date, no special-status amphibian species have been observed. The on-site Biological Monitor will continue to implement this measure during construction.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-3.4-1	06	Special Status Species	Suitable habitat that is temporarily impacted by project-related activities will be restored to pre-project conditions.	Suitable habitat that is temporarily impacted by project-related activities will be restored to pre-project conditions.	During and Post	On-going
Biological	BIO-3.4-1	07	Special Status Species	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 prescribed by the U.S. Fish and Wildlife Service and California Department of Fish and Game. Mitigation shall be provided on-site through habitat enhancement and preservation, or through an alternative arrangement with the U.S. Fish and Wildlife Service (USFWS) and California Department of Fish and Game (CDFG). No agency-approved mitigation banks currently service the Proposed Project area; therefore, if an approved bank is not established prior to Proposed Project construction that can service mitigation needs for the Proposed Project, then at the discretion of the USFWS and CDFG funds may be (a) set aside in escrow toward the establishment of a regional California tiger salamander mitigation bank, or (b) paid to establish a California tiger salamander conservation program locally or in another region, for the purpose of acquiring suitable habitat.	PG&E provided the California Department of Fish and Game (CDFG) with a letter of credit in the amount of $1,911,150 toward the establishment of a conservation easement for off-site CTS mitigation on September 30, 2011. This letter of credit provides permanent protection and management of 85.95 acres of mitigation lands. The mitigation lands are defined as the French Ranch Property in the foothills above Hollister. The USFWS has agreed to this compensatory mitigation for CTS.	Pre, During, and Post	On-going
Biological	BIO-3.4-2	01	Mitigate impacts on Western pond turtle	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: 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.	The western pond turtle has been included in the environmental training program; therefore, the pre-construction portion of this measure is complete. An on-site Biological Monitor has performed western pond turtle surveys before daily construction activities began within suitable aquatic and upland habitat, such as within the Anzar Junction area. No special-status species have been observed. This measure will continue to be implemented throughout construction.	Pre and During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-3.4-3	03	Mitigate impacts on American badger	PG&E and/or its contractors shall implement the following measures for construction areas located in grasslands that provide potential habitat for American badger: 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.	Pre-construction surveys for the American badger have been conducted within 200 feet of work areas 1 to 30 days prior to construction. No American badger presence has been detected at any of the surveyed locations and no suitable dens have been found. This measure is complete for active construction locations because no protection measures are required. Additional surveys will be conducted for the remainder of the project prior to working in new areas.	During	On-going
Biological	BIO-3.4-3	04	Mitigate impacts on American badger	PG&E and/or its contractors shall implement the following measures for construction areas located in grasslands that provide potential habitat for American badger: If active, non-maternal dens are located, badgers will be passively relocated via installation of one-way doors.	Pre-construction surveys for the American badger have been conducted within 200 feet of work areas 1 to 30 days prior to construction. No American badger presence has been detected at any of the surveyed locations and no suitable dens have been found. This measure is complete for these locations because no protection measures are required. Additional surveys will be conducted for the remainder of the project prior to working in new areas.	During	On-going
Biological	BIO-3.4-3	05	Mitigate impacts on American badger	PG&E and/or its contractors shall implement the following measures for construction areas located in grasslands that provide potential habitat for American badger: 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.	Pre-construction surveys for the American badger have been conducted within 200 feet of work areas 1 to 30 days prior to construction. No American badger presence has been detected at any of the surveyed locations and no suitable dens have been found. This measure is complete for these locations because no protection measures are required. Additional surveys will be conducted for the remainder of the project prior to working in new areas.	During	On-going
Biological	BIO-3.4-4	04	Mitigate impacts on San Joaquin kit fox	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. 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.	Pre-construction surveys for SJKF have been conducted within 200 feet of work areas 1 to 30 days prior to construction. In addition, all potential dens have been monitored with use of a tracking medium for at least three consecutive nights. No SJKF presence or dens were detected at any of these locations. All excavated holes or trenches are inspected daily and covered overnight and all pipes are capped at both ends while not in use. A Biological Monitor will be present on site daily to monitor compliance with this measure.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-3.4-4	05	Mitigate impacts on San Joaquin kit fox	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. 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.	Pre-construction surveys for SJKF have been conducted within 200 feet of work areas 1 to 30 days prior to construction. In addition, all potential dens have been monitored with use of a tracking medium for at least three consecutive nights. No SJKF presence or dens were detected at any of these locations. All food-related trash items have been and will be removed from the project area daily. A Biological Monitor is on site daily to monitor compliance with this measure.	During	On-going
Biological	BIO-3.4-4	06	Mitigate impacts on San Joaquin kit fox	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. To prevent harassment and mortality of kit foxes or destruction of their dens, no pets shall be allowed in the project area.	No pets have been allowed in the project area. A Biological Monitor is on site daily to monitor compliance with this measure.	During	On-going
Biological	BIO-3.4-4	07	Mitigate impacts on San Joaquin kit fox	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. Suitable habitat that is temporarily impacted by project-related activities will be restored to pre-project conditions.	Suitable habitat that is temporarily impacted by project-related activities will be restored to pre-project conditions.	During and Post	On-going
Biological	BIO-3.4-4	08	Mitigate impacts on San Joaquin kit fox	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. 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.	PG&E is compensating for impacts to SJKF by restoring grassland habitats following construction, as described in the Habitat Mitigation Plan. The USFWS and CDFG have agreed to this mitigation for SJKF.	Pre, During, and Post	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-3.4-5	01	Mitigate impacts on Raptors and Nesting Birds	Project design, construction, and maintenance will conform with PG&E's corporate Avian Protection Plan and Avian Power Line Interaction Committee (APLIC) Guidelines.	The project was designed to conform with PG&E's corporate Avian Protection Plan and APLIC Guidelines; therefore, the pre-construction portion of this measure is complete. Construction and maintenance will conform with PG&E's Avian Protection Plan and APLIC Guidelines. In addition, a Biological Monitor is on site to monitor compliance with this measure daily during construction activities.	Pre, During, and Post	On-going
Biological	BIO-3.4-5	02	Mitigate impacts on Raptors and Nesting Birds	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.	An Avian Mitigation Plan has been developed for the project. The plan was submitted to the CPUC, USFWS, and CDFG and approved by the CPUC on August 4, 2011.	Pre and During	Complete
Biological	BIO-3.4-5	05	Mitigate impacts on Raptors and Nesting Birds	For golden eagle, construction contractors shall observe CDFG and USFWS 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.	Golden eagle helicopter surveys were conducted on March 2, April 10, April 30, and June 29, 2012. One previously observed bald eagle nest was confirmed to be fledged during the helicopter survey on June 29, 2012. In addition, a golden eagle nest was confirmed and observed to be fledged during the helicopter survey on June 29, 2012. Both nests were located more than 1 mile from the project and buffer zones were not necessary. Nesting bird surveys began in March 2012 around active construction areas and were conducted no more than 1 week prior to construction during the avian nesting season (March 2 through August 15). Avian nesting season is complete as of August 15; therefore, no additional nesting bird surveys are necessary at this time.	During	On-going
Biological	BIO-3.4-5	06	Mitigate impacts on Raptors and Nesting Birds	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.	Nesting bird surveys were conducted from March 2012 through August 2012 around active construction areas. Avian nesting season is complete as of August 15, 2012, and no active nests are currently present within the project area. As a result, no monitoring or buffer zones are necessary.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-3.4-5	07	Mitigate impacts on Raptors and Nesting Birds	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 and USFWS's Division of Migratory Birds shall will be consulted. While the USFWS issues limited take permits for golden eagle, this species and certain other raptors are protected under the Bald and Golden Eagle Protection Act and fully-protected under California law.	No construction activities have occurred within a raptor nesting buffer zone to date. Avian nesting season is complete as of August 15, 2012, and no active nests are currently present within the project area. As a result, no monitoring or buffer zones are necessary.	During	On-going
Biological	BIO-3.4-6	02	Implement measures for the protection and restoration of riparian and upland habitat	Affected riparian and upland habitat shall be restored to pre-project conditions.	All affected riparian and upland habitat will be restored to pre-project conditions following construction.	During and Post	On-going
Biological	BIO-3.4-7	01	Implement measures for the protection and restoration of native trees	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.	The record of protected trees removed during construction will be included in the Habitat Mitigation Plan following completion of construction. The plan for native tree replacement was included in the Habitat Mitigation Plan, which was submitted to the CPUC on August 17, 2011.	Pre, During, and Post	On-going
Biological	BIO-APM-01	01	Conduct environmental training and monitoring program for crews	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.)	PG&E has developed a project-specific environmental training program that will be attended by all project personnel prior to starting work on the project. Approximately 353 personnel have been trained to date.	Pre and During	Complete

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-02	01	Restrict vehicles to roadways and approved access routes	Restrict vehicles to established roadways and approved access routes and staging areas.	A Biological Monitor is on site daily to monitor compliance with this measure. The Hazardous Substance Control and Emergency Response Plan as well as the Traffic Control Plan were revised and approved by the CPUC on June 29, 2012 to allow equipment to remain overnight within designated pull sites or landing zones, as necessary. An Occurrence was documented from September 6 through 8, 2012 as a Terex Reedrill was left on site overnight at the work area for Tower 0/06. Please refer to the CPUC September Monthly Report for additional details.	During	On-going
Biological	BIO-APM-03	01	Retain an environmental monitor	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.	A Biological Monitor will be present on site during construction in sensitive habitat. The Biological Monitor will have the authority to stop work, if necessary.	During	On-going
Biological	BIO-APM-04	01	Set back staging areas from waterbodies	Staging areas will be set back at least 50 feet from streams, creeks, or other water bodies to avoid impacts on riparian habitat.	All staging areas have been set back at least 50 feet from streams, creeks, and other waterbodies to avoid impacts to riparian vegetation.	Pre and During	On-going
Biological	BIO-APM-05	01	Contact 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.	Construction personnel have been instructed to contact the environmental monitor if any special-status species have been observed. A communication protocol has been established as part of the project Field Reference Manual. The environmental monitor will be notified if special-status species are observed within project work areas. No construction personnel have observed special-status species in active work hours to date. The LEI notifies the Environmental Compliance Supervisor, who notifies PG&E and the appropriate agencies when a special-status species is observed during surveys or monitoring on the project.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-07	01	Additional APMs	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, CNDDB occurrences in relation to the project area, or results of prior biological resource assessment surveys.	Additional applicant-proposed measures (APMs) will be implemented, as necessary. PG&E submitted a site-specific exclusion buffer proposal to the CDFG on May 3 for two passerine nests along the tower line; however, the proposal was denied on May 4. No construction activities have occurred within nesting buffer zones to date. Avian nesting season is complete as of August 15, 2012, and no active nests are currently present within the project area. As a result, no monitoring or buffer zones are necessary. Two woodrat (Neotoma sp.) nests were relocated from the access road between Towers 0/04 and 0/05 on September 5, 2012. No species were observed within any of the woodrat houses or during the relocation process.	During	On-going
Biological	BIO-APM-08	01	Restore upland and riparian habitats 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.	A list of specific actions to restore habitats on disturbed sites was included in the Habitat Mitigation Plan.	Pre, During, and Post	On-going
Biological	BIO-APM-09	01	Implement sudden oak death prevention measures	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 and All tools used to perform the work shall be disinfected before leaving infested areas.	A Sudden Oak Death Prevention Plan was approved by the CPUC on August 4, 2011. The Sudden Oak Death Prevention Plan included BMPs to control the introduction and spread of sudden oak death. A Biological Monitor will be on site daily to ensure compliance with this measure.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-10	01	Avoid impacts to protected trees removed during construction	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).	All trees trimmed and removed are documented in a tree trimming table that is submitted to the CPUC on a monthly basis, as applicable. Wildlife and nesting clearance surveys have been conducted prior to all tree trimming activities during the nesting season. In addition, all tree trimming that has occurred during the avian nesting season has been monitored by a Biological Monitor. A Biological Monitor is on site daily to monitor compliance with this measure.	During	On-going
Biological	BIO-APM-11	01	Implement 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.	A Biological Monitor is on-site daily to monitor compliance with this measure. One Non-Compliance occurred on September 22 due to the unauthorized disturbance of a wetland at Tower 2/13. Please refer to the CPUC September Monthly Report for additional details.	During	On-going
Biological	BIO-APM-11	02	Implement protection measures for Waters of the United States	Delineate wetland areas, and restrict construction personnel and equipment from entering fenced protected areas.	One Non-Compliance occurred on September 22 due to the unauthorized disturbance of a wetland at Tower 2/13. Please refer to the CPUC September Monthly Report for additional details. Additional surveys of the remaining project areas, and fencing and/or flagging will be installed as necessary.	Pre and During	On-going
Biological	BIO-APM-11	03	Implement protection measures for Waters of the United States	Conduct all fueling of vehicles, equipment, and helicopters at least 100 feet from wetlands and other waterbodies.	All vehicle fueling to date has occurred within designated landing zones and staging areas that are located at least 100 feet from wetlands and other waterbodies. A Biological Monitor will be on site daily to monitor compliance with this measure.	During	On-going
Biological	BIO-APM-11	04	Implement protection measures for Waters of the United States	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).	To date, no road construction has occurred within the project area. A Biological Monitor will be on site daily to monitor compliance with this measure.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-12	01	Develop a wetland 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.	The Wetlands Mitigation Plan is included in the Habitat Mitigation Plan, which was submitted to the CPUC on August 17, 2011.	Pre, During, and Post	Complete
Biological	BIO-APM-14	01	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).	Two years of surveys for rare plants were conducted (2006 to 2008) in all project areas including staging areas, helicopter landing areas, and all new access roads. Only Pajaro manzanita was observed during the rare plant surveys, which was flagged for avoidance and has been avoided. No Pajaro manzanita plants have been removed. No other special-status plants, or potential habitat have been observed at any of the active work areas, access roads, pull sites, or any other active project area where construction has been conducted to date. All variance areas utilized to date were previously surveyed in the rare plant surveys (2006 to 2008), with the exception of a small portion of Tower Landing Zone (TLZ)-4, which was unable to be surveyed for rare plants due to the timing of the start of construction. However, fence checks and pre-construction wildlife clearance surveys have been and will continue to be regularly performed at TLZ-4. In addition, qualified biologists have conducted informal surveys for rare plants at TLZ-4. No sensitive plant species have been observed to date.	Pre and During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-15	01	Minimize impacts on special-staus 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:	Two years of surveys for rare plants were conducted (2006 to 2008) in all project areas including staging areas, helicopter landing areas, and all new access roads in the project area. Only Pajaro manzanita was observed during the rare plant surveys, which has been flagged for avoidance and has been avoided. No Pajaro manzanita plants have been removed to date. No other special-status plants, or potential habitat have been observed at any of the active work areas, access roads, pull sites, or any other active project area where construction has been conducted to date. A list of specific actions was prepared by a qualified botanist including, on-site restoration and reseeding plans. These actions were included in the Habitat Mitigation Plan which was submitted to the CPUC on August 17, 2011. Specific measures to avoid or minimize impacts to special-status plants will be implemented during construction. All variance areas utilized to date were previously surveyed in the rare plant surveys (2006 to 2008), with the exception of a small portion of Tower Landing Zone (TLZ)-4, which was unable to be surveyed for rare plants due to the timing of the start of construction. However, fence checks and pre-construction wildlife clearance surveys have been and will continue to be regularly performed at TLZ-4. In addition, qualified biologists have conducted informal surveys for rare plants at TLZ-4. No sensitive plant species have been observed to date.	Pre and During	On-going
Biological	BIO-APM-15	02	Minimize impacts on special-staus plants	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).	All Pajaro manzanita in the vicinity of the project has been flagged for avoidance and no plants have been removed to date. In areas where occupied Pajaro manzanita habitat does occur, vegetation clearing will be conducted after Pajaro manzanita has set seed and before flowering begins. A Biological Monitor will be on-site daily to monitor compliance with this measure.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-15	03	Minimize impacts on special-staus plants	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.	All Pajaro manzanita in the vicinity of the project has been flagged for avoidance and no plants have been removed to date. In addition, a Biological Monitor will be on-site daily to monitor compliance with this measure.	During	On-going
Biological	BIO-APM-15	04	Minimize impacts on special-staus plants	Where feasible, removal of entire Pajaro manzanita plants from the ground should be avoided.	To date, no Pajaro manzanita plants have been removed. A Biological Monitor is on-site daily to monitor compliance with this measure.	During	To be Implemented During
Biological	BIO-APM-16	01	Restore habitat for special-status plants	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.	A special-status plant restoration plan was developed by a qualified botanist as part of the Habitat Mitigation Plan.	Pre, During, and Post	Complete
Biological	BIO-APM-17	01	Control the 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.	As of November 1, 2011, PG&E has identified the location of noxious weed species of concern within areas that will be disturbed as part of the project. During this survey, 350 noxious weeds were identified. PG&E has prepared a Weed Control Plan, dated February 15, 2012, which includes the noxious weed survey results. Actions to prevent noxious weed establishment were described in the Habitat Mitigation Plan which was submitted to the CPUC on August 17, 2011. The project Storm Water Pollution Prevention Plan (SWPPP), which was certified on September 15, 2011, includes BMPs to minimize the introduction of noxious weeds. Weed control work, including line trimming, cutting heads, removing weeds, and bagging weeds has been conducted on the project to date.	Pre, During, and Post	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-18	01	Implement avoidance measures 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.	USFWS issued the Biological Opinion on May 9, 2011. The Biological Opinion contains measures to minimize impacts to CRLF and CTS. The USFWS provided an amendment to the Biological Opinion on September 22, 2011 (Reinitiation of Formal Consultation for the PG&E Hollister 115 kV Power Line Reconductoring Project [8-8-11-FS-59R]). A Biological Monitor will be on site daily to monitor compliance with this measure. In addition, a CTS 10(a)(1)(A) Permitted Biologist will be on site, as necessary, during ground-disturbing activities to avoid and minimize impacts to CTS.	Pre and During	To be Implemented During Construction
Biological	BIO-APM-19	01	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.	Refer to mitigation measure BIO-3.4-1, Task 7.	Pre, During, and Post	On-going
Biological	BIO-APM-20	01	Conduct vegetation trimming/removal during non-breeding season	To avoid removal of active nests, tree trimming, vegetation removal, and removal of towers should be conducted during the nonbreeding season (August 16–March 1). If this is not possible, APM BIO-21 will be implemented.	All tree trimming, vegetation removal, and removal of poles and towers that has been conducted during the breeding season has followed the requirements of APM BIO-21. See APM BIO-21 for additional details.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-21	01	Conduct preconstruction nesting bird surveys and develop 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.	PG&E has developed an Avian Mitigation Plan, which was approved by the CPUC on August 4, 2011. Pre-construction nesting bird surveys were conducted from March 2012 through August 2012 around active construction areas and were conducted no more than 1 week prior to any construction that occured within the avian nesting season. Avian nesting season is complete as of August 15, 2012; therefore, no additional nesting bird surveys are necessary at this time.	Pre and During	On-going
Biological	BIO-APM-22	01	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.	Use of helicopters to date has been restricted to necessary trips to remove towers, install power lines, and survey the right-of-way, as needed. Helicopter flight paths have been designed to minimize impacts to nests.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Biological	BIO-APM-24	01	Implement CDFG 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 with 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.	Pre-construction surveys for Western burrowing owl have been conducted in suitable habitat and in a 250-foot-wide buffer zone around the power line route, work areas, landing zones, staging areas, pull sites, and areas of access road improvements where ground disturbance is required. Western burrowing owls were observed along the access road to TP-5 and along the segment of the project from Pole 18/05 to Pole 19/11. In addition, burrows with evidence of burrowing owl activity were observed between Towers 4/33 to 6/40. However, the burrowing owls have not been observed during periodic surveys since March of 2012 and are believed to no longer be present in the project area. A memo regarding the status of the burrowing owls was submitted to the CDFG on March 7, 2012. PG&E will continue to provide the CPUC and CDFG with periodic updates regarding any burrowing owls observed within the project area. Additional pre-construction surveys will be conducted for the remainder of the project prior to working in new areas. In addition, a Biological Monitor will be on site daily to implement this measure.	During	On-going
Biological	BIO-APM-25	01	Implement avoidance measures 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.	The USFWS issued the Biological Opinion on May 9, 2011. The Biological Opinion specified avoidance and mitigation measures to minimize impacts to SJKF. The USFWS provided an amendment to the Biological Opinion on September 22, 2011 (Reinitiation of Formal Consultation for the PG&E Hollister 115 kV Power Line Reconductoring Project [8-8-11-FS-59R]). A Biological Monitor is on site daily to monitor complaince with the Biological Opinion.	Pre and During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Cultural and Paleontological	CR-3.5-1	01	Stop work if paleontological resources are found	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).	Paleontological resources were included in the environmental training program; therefore, the pre-construction portion of this measure is complete. No project activities are planned in areas with Pleistocene or Oligocene sedimentary rock units; therefore, no paleontological monitoring will be necessary.	Pre and During	On-going
Cultural and Paleontological	CR-APM-01	01	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).	PG&E has provided the CPUC with the name and qualifications of the Archaeological Monitor. The monitor has been on site throughout September 2012 and will continue to be on site to monitor ground-disturbing activities in areas that were documented as having high archaeological sensitivity. The archaeologist has the authority to halt work, if necessary.	During	On-going
Cultural and Paleontological	CR-APM-02	01	Stop work if previousley unknown cultutral resources are encountered	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.	Should any cultural resources be inadvertently discovered during site preparation or construction activities, this measure will be implemented as defined. No cultural resources have been discovered to date.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Cultural and Paleontological	CR-APM-03	01	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 Sate 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.	To date, no human remains have been discovered within the project area. If human remains are discovered during any phase of construction, this measure will be implemented as defined.	During	On-going
Hazards and Public Safety	HAZ-3.7-1	01	Implement best management practices	PG&E and/or its contractors shall implement construction best management practices, including, but not limited to the following: • 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 absorbent pads under vehicles when refueling to contain and capture any spilled fuel; • Properly dispose of discarded containers of fuels and other chemicals; • During routine maintenance of construction equipment, properly contain and remove grease and oils; 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).	Tarps and catch-basins have been used during refueling to contain and capture any spilled fuel. A Biological Monitor is on site daily to monitor compliance with this measure.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Hazards and Public Safety	HAZ-3.7-2	01	Prepare a Hazardous Substance Control and Emergency Response Plan (Plan) and implement it during construction	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.	PG&E has prepared a Hazardous Substance Control and Emergency Response Plan. The plan was approved verbally by the CPUC on September 21, 2011 and revised and approved by the CPUC on June 29, 2012. A Biological Monitor is on site daily to ensure the Hazardous Substance Control and Emergency Response Plan is implemented.	Pre and During	Complete
Hazards and Public Safety	HAZ-3.7-3	02	Prepare a Health and Safety Plan and implement it during construction	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.	PG&E has prepared a Health and Safety Plan. The plan was submitted to the CPUC on June 4, 2011 and was approved on August 4, 2011. The Health and Safety Plan is located in the Field Reference Manual for the project and is kept on site daily. In addition, the Health and Safety Plan is part of the environmental training program. PG&E Construction Inspectors are on site daily to ensure the Health and Safety Plan is implemented.	Pre and During	On-going
Hazards and Public Safety	HAZ-3.7-4	01	Ensure that a Workers Environmental Awareness Program is established and implemented	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 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.	PG&E has prepared an environmental training program and will communicate project requirements to all construction personnel prior to construction. The CPUC monitor attended the supervisor training on October 3, 2011. Additional trainings are conducted in the field for new project personnel. PG&E discussed this measure with the CPUC on November 17, 2011. To date, 353 personnel have received the environmental training. As agreed to by the CPUC, training logs have been and will continue to be submitted with each monthly compliance report.	Pre and During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Hazards and Public Safety	HAZ-3.7-5	01	Contain and control spills	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.	Spill response kits are on site in case of a hazardous material spill. A Biological Monitor is on site to monitor compliance with this measure daily. One Occurrence was documented on September 22, 2012 as a hydraulic fluid leak occurred at Tower 2/13. Please refer to the CPUC September Monthly Report for additional details.	During	On-going
Hazards and Public Safety	HAZ-3.7-6	01	Incorporate the Federal Aviation Administration (FAA) conditions outlined in FAA Aeronautical Studies 2009-AWP-1446-OE (FAA, 2009a) and 2009-AWP-1447-	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: 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; and poles 22/00 and 22/01 shall not exceed 82 feet above ground level (i.e., 381 feet above mean sea level).	This measure will be implemented during construction. No work has been conducted on Poles 22/00 and 22/01 to date.	During	To be Implemented During Construction
Hazards and Public Safety	HAZ-APM-01	01	Stop work if hazardous substances are encountered	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.	No hazardous substances have been discovered during construction to date. A Biological Monitor is on site daily to monitor compliance with this measure. If a hazardous substance is unexpectedly encountered, the Biological Monitor will stop work.	During	On-going
Hazards and Public Safety	HAZ-APM-02	01	Conduct groundwater sampling and testing if contamination is suspected	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.	No suspected contaminated groundwater has been encountered to date. A Biological Monitor is on site daily to monitor compliance with this measure.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Hazards and Public Safety	HAZ-APM-04	01	Develop 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.	PG&E has prepared a Fire Risk Management Plan. The Fire Risk Management Plan was submitted to the CPUC on June 24, 2011 and was approved on September 14, 2011. Information contained within the Fire Risk Management Plan was included as part of the environmental training program. PG&E Construction Inspectors are on site daily to ensure the Fire Risk Management Plan is implemented. Fire suppression equipment is clearly marked and kept adjacent to all work areas and in staging areas. 38 project personnel attended a fire protection training led by the California Department of Forestry and Fire Protection on March 13, 2012.	Pre and During	Complete
Hazards and Public Safety	PUB-APM-01	01	Maintain secure facilities	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.	PG&E Construction Inspectors are on site daily to ensure these measures are implemented, as needed. In addition, Environmental Inspectors and Biological Monitors ensure that all open holes are covered and anchor bolts on foundations without structures are capped daily following construction activities.	During	On-going
Hydrology and Water	HYDRO-3.8-1	01	Implement protective measures on steep slopes	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: •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).	No new access roads that are located within 300 feet of an existing surface water channel and that traverse a ground slope greater than 2 percent have been constructed on the project to date. This measure will be implemented, as necessary.	During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Hydrology and Water	HYDRO -APM-1	02	Prepare SWPPP	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.	Erosion control measures have been employed to control erosion from disturbed areas. A SWPPP Monitor has been retained on the project and conducts regular inspections. In addition, the Biological Monitor is on site daily to ensure compliance with this measure.	During	On-going
Hydrology and Water	HYDRO -APM-1	03	Prepare SWPPP	Drainage facilities in downstream offsite areas will be protected from sediment using BMPs consistent with CCRWQCB requirements.	Erosion control measures have been employed to control erosion from disturbed areas, consistent with CCRWQCB requirements. A SWPPP Monitor retained on the project conducts regular inspections. In addition, the Biological Monitor is on site daily to ensure compliance with this measure.	During	On-going
Hydrology and Water	HYDRO -APM-1	04	Prepare SWPPP	Vegetative cover will be established on the disturbed areas as soon as possible after disturbance.	This measure is ongoing. Vegetative cover will be established on the disturbed areas as soon as possible after disturbance.	During and Post	On-going
Hydrology and Water	HYDRO -APM-2	01	Develop 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.	PG&E provided measures to minimize the potential for, and effects of, spills of hazardous, toxic, or petroleum substances in the Hazardous Substance and Emergency Control Plan, which was submitted to the CPUC on September 21, 2011. The Biological Monitor is on site daily to ensure compliance with this measure. One Occurrence was documented on September 6, 2012 as a hydraulic fluid leak occurred at Tower 0/06. In addition, an Occurrence was documented on September 20 and 21 as a FMC track-digger utilized to auger footing holes was leaking and in need of proper maintenance. Please refer to the CPUC September Monthly Report for additional details.	Pre and During	Complete

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Noise	NOI-3.11-1	01	Limit work hours from seven a.m. to seven p.m.	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 or where necessary to ensure worker safety or to conduct certain work during electrical line clearances or during procedures that cannot be interrupted.	A memo requesting extension of work hours at the Earthbound Farms Staging Area to 6:00 a.m. and 8:00 p.m. Monday through Saturday was approved by the CPUC on May 21, 2012. Construction activities in the remainder of the project are limited to the hours between 7:00 a.m. and 7:00 p.m. A Biological Monitor is on site daily to monitor compliance with this measure.	During	On-going
Noise	NOI-3.11-2	01	Use portable barriers near residences	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.	To date, no construction activities involving the use of compressors or other small stationary equipment have been conducted within 100 feet of a residence. This measure will be implemented as necessary.	During	On-going
Noise	NOI-3.11-3	01	Develop a nightime noise reduction plan	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.	PG&E has prepared a Nighttime Noise Reduction Plan for work conducted within 500 feet of residences (Pole 13/07 of the project), which was submitted to the CPUC on March 29, 2012 and approved on April 12, 2012. No nighttime construction activities occurred within 500 feet of residences during the month of September.	Pre and During	Complete
Noise	NOI-3.11-3	02	Develop a nightime noise reduction plan	Plan construction activities to minimize the amount of nighttime construction.	Construction activities have been planned to minimize the amount of nighttime construction.	Pre and During	Complete
Noise	NOI-3.11-3	03	Develop a nightime noise reduction plan	Offer temporary relocation of residents within 200 feet of nighttime construction areas.	No nighttime construction activities occurred within 200 feet of a residence during the month of September. This measure will continue to be implemented as necessary.	During	Complete

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Noise	NOI-3.11-3	04	Develop a nightime noise reduction plan	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.	No stationary noise sources were utilized during nighttime construction activities during the month of September. Vehicles were parked between the nighttime activities and the nearest residences to block the line of sight and function as a temporary noise barrier. This measure will continue to be implemented as necessary.	During	Complete
Noise	NOI-APM-1	01	Implement noise control measures	Notify residents near future construction zones regarding the forecast schedule for nearby construction and provide project contact information.	Residents have been notified of construction and provided with project contact information near construction locations. Residents near future construction zones will be notified of construction and provided with project contact information prior to the beginning of construction activities.	Pre and During	On-going
Noise	NOI-APM-1	02	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: • 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.	PG&E has been implementing the noise abatement measures, as feasible. Compliance with this measure is monitored daily.	During	On-going
Noise	NOI-APM-2	01	Implement control measures for helicopter noise	Notify residents near future construction zones and along helicopter flight paths regarding the schedule and reasons for upcoming construction and flight operations.	Residents have been notified of construction and provided with project contact information near construction locations. Residents near future construction zones will be notified of construction and provided with project contact information prior to the beginning of construction activities.	Pre and During	On-going

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Noise	NOI-APM-2	02	Implement control measures for helicopter noise	Provide project contact information to facilitate response to noise complaints during the construction activity.	Residents have been provided with contact information for noise complaints during construction activities near current construction activities. Residents near future construction activities will be provided with contact information prior to the beginning of construction activities in these areas.	During	On-going
Noise	NOI-APM-2	03	Implement control measures for helicopter noise	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.	Helicopter flight paths have been and will be planned to avoid noise-sensitive receivers, to the extent feasible. Helicopter use has also been minimized to the extent feasible. In order to accommodate with Rancho Larios residents' requests, helicopter use will be minimized in this area during the summer months. No helicopter work has been conducted on the pole segment of the project to date. PG&E will coordinate with residents along the pole segment of the project if helicopter work is necessary.	During	On-going
Socioeconomics	PU-APM-02	01	Notify Underground Service Alert prior to beginning work on underground lines.	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.	Underground Service Alert has been notified at least 2 days prior to current construction activities in the underground portion of the power line. PG&E, or its contractor, will continue to notify the Underground Service Alert at least 2 days prior to initiation of construction activities in new locations of the underground portion of the power line.	Pre and During	On-going
Visual	AES-3.1-1	01	Light and Glare	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 Construction Lighting Mitigation Plan 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 Construction Lighting Mitigation Plan is approved by the CPUC. The Plan shall include but is not limited to the following measures: 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 has prepared a Construction Lighting Mitigation Plan. The plan was submitted to the CPUC on June 24, 2011, and approved on September 14, 2011. Compliance with this measure is monitored, as necessary.	Pre and During	Complete

Location: All

Measure Category Title	MMNo	TaskNo	Mitigation Measure	Task Text	Comments	Timing	Status
Visual	AES-APM-01	01	Limit construction hours	Construction activities that are visible to the public and scheduled to occur after 6:00 pm or on weekends should not continue past daylight hours (which vary according to season) unless required because of the 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.	Construction activities are scheduled to occur during daylight hours. No night work was conducted during the month of September.	During	On-going
Wilderness and Recreation	REC-APM-01	01	Avoid disrupting Rec Facilities along Juan Bautista de Anza National Historic Trail	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.	No construction activities have affected the use of the Juan Bautista de Anza National Historic Trail. The trail has remained fully accessible throughout construction activities performed to date.	During	On-going

Attachment D: Environmental Training Log

Crew-Level Environmental Training

Hollister 115kV Reconductor Project

Date: 9-5-12

This is to certify these individuals have completed a mandatory Crew-Level Environmental Training. By signing below, the participant indicates that they understand and shall abide by the guidelines set forth in the program materials.

Employee Name	Company	Signature
Bryan Plank	PG+E	
Zach Hosely	PG+E	
Chris Rockwell	PSC	
Jayson Borknondit	PSC Hollister	
Charles Reyes	PSC Hollister	
Bernie DeLeon	BATS	
David Hernandez	BATS	
LLOYD (BUTCH) Rush	Aldridge Electric	
Robert Belzone	Aldridge electric	
RAY MUELLER	OUTBACK DYBE INC.	
0/1 BYRON ELMORE	ETIC	
0/1 DAVID CARNERO	Etic	
5/2 Gary L. Ribeiro II	PG+E	
0/3 Chris Lewis	Outback	
0/3 DUANE Nevels	ETIC	
Don Hacklin	Outback	

Crew-Level Environmental Training

Hollister 115 kV Power Line Reconductoring Project

This is to certify these individuals have completed a mandatory Crew-Level Environmental Training. By signing below, the participant indicates that they understand and shall abide by the guidelines set forth in the program materials.

Employee Name	Company	Signature	Date
Clint Brewer	Outback		9-29-12
Devin Norcutt	Outback		↓
Charlie Brewer	Outback		↓
Justin Clark	Outback		↓
Zack Leonard	PG+E		10-1-12
Jeff Detamore	PG&E		10/1/12
Paul Elizondo Sr	outback Const.		10-1-2012
Mike Welsh	Outback const.		10-1-12
Juan C. Alvarado	Outback const		10-1-12
Ezequiel Mendieta	OUTback const		10-1-12
JERRY L. BOWEN	out BACK CONST		10-01-2012
Justin B. Jones	P.J. Helicopters		10-1-2012
Rick Keen	PJ Helicopters		10/1/12
David Gurnty	PG&E		10/2/12
Tyler Schafer	PG&E		10/2/12
JOHN BLACKBURN	PJ HELICOPTERS		10/2/12
GARIN KLINKER	PJ HELICOPTERS		10/2/12
LES WINBERGER	PG&E		10-5-12
Joyce Macdonald	PG&E	Joyce Macdonald	10/5/12