6. Mitigation Monitoring and Reporting Plan

2 3 Pursuant to Public Resources Code Section 21081.6 and Section 15097 of the California Environmental 4 Quality Act (CEQA) Guidelines, when an agency finds that mitigation measures have been required in, or 5 incorporated into, a project to avoid or substantially lessen its significant environmental effects, the 6 agency must adopt a program for monitoring or reporting on such mitigation measures. The purpose of 7 this Mitigation Monitoring and Reporting Plan (MMRP) is to ensure effective implementation of the 8 applicant proposed measures (APMs) and mitigation measures required by the California Public Utilities 9 Commission (CPUC) that Pacific Gas and Electric Company (the applicant) has agreed to implement as 10 part of the proposed Sanger Substation Expansion Project (proposed project). The MMRP, which is outlined in Table 6-1, includes: 11 12 13 Each significant impact identified in the Initial Study/Mitigated Negative Declaration (IS/MND) •

- APMs and mitigation measures that the applicant is required to implement as part of the proposed
 project to reduce significant impacts to less than significant
- 16 Monitoring requirements
- 17 Timing for implementation of APMs and mitigation measures
- Indicators for determining the effectiveness of implementation of APMs and mitigation measures
- 19 Reporting requirements
- This MMRP is a draft program. The CPUC will formalize this MMRP for inclusion in the Final IS/MND, prior to construction, to include specific protocols that will be followed prior to, during, and after construction by the CPUC's and the applicant's designated environmental monitors and project staff (as described in Section 6.3, "Final Mitigation Monitoring and Reporting Plan"). The Final MMRP will include, but not be limited to, protocols and timelines for the following topics:
- Agency Jurisdiction
- Roles/Responsibilities
- 29 Communication
- 30 Compliance Verification and Reporting
- Project Changes, including Minor Project Refinements
 - Dispute Resolution
- The CPUC's designated Project Manager and environmental monitor (or monitors) will monitor the
 proposed project to verify full compliance with each APM and mitigation measure. The designated
- 36 Project Manager will verify all compliance documentation required by APMs and mitigation measures,
- and the designated environmental monitor will regularly visit the proposed project to verify APMs and
- 38 mitigation measures are being implemented as described in the MMRP.
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	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
Aesthetics		•	· · · · · · · · · · · · · · · · · · ·	·	· · · · · ·
APM AES-2: New source of substantial light or glare avoidance. Security lighting	CPUC verifies that PG&E installs	New sources of substantial light or glare will	Post construction	Expanded substation	PG&E, CPUC
at the substation will be directed on-site and will be hooded to reduce potential	new light sources which are to be	be directed on-site.			
visibility from off-site locations.	directed on-site.				
APM AES-3: Structures and equipment at the expanded substation will be a non-	CPUC verifies that PG&E installs	The visual effects of glare are minimized by	Post construction	Expanded substation	PG&E, CPUC
reflective finish and neutral gray color.	non-reflective and neutral gray	using non-reflective and neutral gray color			
	structures and equipment.	structures and equipment.			
MM AES-1 (supplements APM AES-2): Lighting utilized for night-time construction	CPUC verifies that PG&E light	All lighting for night-time construction or	During construction	Entire project area; not applicable to	PG&E, CPUC
and for security during construction shall be shielded and oriented away from	sources are shielded and are	security is shielded and directed away from		Fence Meadow Repeater Station.	
sensitive receptors.	directed away from sensitive receptors.	sensitive receptors.			
MM AES-2 (supplements APM AES-3): All conductor used for the proposed project	CPUC verifies that PG&E installs	The visual effects of glare are minimized by	During construction	All conductors	PG&E, CPUC
shall be non-specular.	non-specular conductors.	using non-specular conductors.			
Agriculture and Forestry Resources					
APM AGR-1: Agriculture impacts avoidance and compensation. To avoid	CPUC verifies that PG&E	Minimization of agriculture impacts. Any	Prior to construction – negotiate	All areas where crops would be impacted,	PG&E, CPUC
potential impacts on agriculture, PG&E will work with farmers to conduct its work	schedules work between harvest	agricultural infrastructure damaged by	with farmers	including access roads.	
between their harvest and planting periods where and whenever possible. In areas	and planting periods where and	construction activities is replaced or restored			
containing permanent crops that must be removed and replaced to gain access to	whenever possible. CPUC	to its pre-construction condition.	During construction – minimize		
pole sites for construction purposes, PG&E will provide compensation to farmers	verifies that PG&E compensates		disturbance to agricultural		
and/or landowners in accordance with PG&E's Property Damage Settlement	farmers and/or landowners when		operations		
Guidelines. Within 6 months of completion of project construction, PG&E shall also	permanent crops must be				
repair, replace or provide compensation for damage to fences, irrigation facilities and	removed or replaced in		Within 6 months post construction –		
other such agricultural intrastructure. Access across active crop areas will be	accordance with PG&E's		repair, replace, or compensate for		
negoliated with the farmers and/ or owners in advance of any construction activities.	Property Damage Settlement		damaged inirastructure		
	Guidelines. CPUC verifies triat				
	componentos for any agricultural				
	infrastructure damaged by				
	construction activities				
MM AGR-1: Farmland Construction Impact Mitigation (supplements APM AGR-	CPUC verifies that PG&F	Pre-construction conditions are recorded	Prior to construction – conduct	All areas where crops would be impacted.	PG&F. CPUC
1). PG&E shall implement the following measures for temporarily disturbed	completes pre-construction	and topsoil is restored within two months of	surveys	including access roads.	
Farmland:	surveys of Farmland and	construction completion.			
	restores topsoil.	' '	Post construction – restoration		
• The applicant shall survey agricultural fields prior to construction and return all					
temporary disturbance areas to pre-construction conditions (i.e, meeting the					
definition of Prime Farmland, Unique Farmland, or Farmland of Statewide					
Importance, as shown on the maps prepared pursuant to the Farmland Mapping					
and Monitoring Program of the California Resources Agency) after the					
completion of construction, except that crops will not be replanted.					
If topsoil is removed from an area to accommodate temporary construction					
activities, it shall be restored to preconstruction conditions within two months of					
the completion of construction, except that crops will not be replanted by PG&E.					

Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
Air Quality					
 APM AIR-1: Fugitive dust emissions minimization. Pursuant to SJVAPCD Regulation VIII, a Dust Control Plan will be prepared and submitted to SJVAPCD for approval within the required timeframe prior to commencing construction activities. Based on the SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts (SJVAPCD 2015b), the following are examples of fugitive dust control measures that may be included in the Dust Control Plan to minimize dust emissions: Apply water to unpaved surfaces and areas. Use non-toxic chemical or organic dust suppressants on unpaved roads and traffic areas. Limit or reduce vehicle speed on unpaved roads and traffic areas. Maintain areas in a stabilized condition by restricting vehicle access. Install wind barriers. During high winds, cease outdoor activities that disturb the soil. Keep bulk materials sufficiently wet when handling. Store and handle loose materials that could create dust in a three-sided structure. When storing bulk materials, apply water to the surface or cover the storage pile with a tarp. Don't overload haul trucks. Overloaded trucks are likely to spill bulk materials. Cover haul trucks with a tarp or other suitable cover. Or, wet the top of the load enough to limit visible dust emissions. Clean the interior of cargo compartments on emptied haul trucks prior to leaving a site. Prevent trackout by installing a trackout control device. Clean up trackout at least once a day. If along a busy road or highway, clean up trackout immediately. Monitor dust-generating activities and implement appropriate measures for maximum dust control. 	CPUC verifies that PG&E meets SJVAPCD Regulation VIII requirements and follows the example dust control measures described in the SJVAPCD Guidance for Assessing and Mitigating Air Quality Impacts.	Fugitive dust has been controlled inside the project area and on unpaved access roads.	During construction	Applies to all unpaved construction areas, stockpiles of earthen materials, and all areas where earth-moving or excavations activities occur.	PG&E, CPUC, SJVAPCD
ADM BIO 0: Date and finarms. No note or finarms are permitted within the project	CDLIC vorifies that DC&E	No nots or firoarms are permitted within the	During construction	Entiro project area	
area.	prohibits pets and firearms within the project area.	project area.			
APM BIO-11: Backfilling. Prior to backfilling or placement of structures, all excavation sites (e.g., holes excavated for pole butts, trenches, etc.) will be inspected to ensure no small vertebrates have been entrapped. All excavations with a potential for entrapment of wildlife will be backfilled or fully covered at the end of the work day. Alternatively, holes or trenches will include one or more escape ramps constructed of earth fill or wooden planks no less than 10 inches wide and reaching to bottom of trench at the close of each working day.	CPUC verifies that PG&E implements activities to minimize wildlife entrapment at the close of each day.	Excavation sites are covered at the end of each day or escape ramps are in place. Prior to backfilling, all excavations will be inspected to ensure no wildlife have been entrapped.	During construction	All project areas containing excavation sites	PG&E, CPUC

Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timina	Location	Responsible Agency
MM BIO-1: Biological Resources Worker Environmental Awareness Program.	An environmental training	All new construction personnel are	Prior to construction – submit	Entire project area; not applicable to	PG&E, CPUC
The applicant shall develop a Worker Environmental Awareness Program (WEAP).	program is prepared by PG&E,	adequately trained prior to the start of	training program to CPUC for review	Fence Meadow Repeater Station.	
Prior to the start of construction, all construction crew members and contractors shall	approved by CPUC, and	construction to avoid and/or minimize	and conduct training		
be required to attend the WEAP training presented by a CPUC-approved, qualified	implemented by PG&E CPUC	impacts on special status species during	5		
biologist. All construction crew members and contractors who attend the training shall	reviews the training logs and	project construction.	During construction – monitor		
sign a form indicating that they attended the training and understood the information.	sign-in sheets provided by PG&E		continued training		
Follow-up training shall be conducted as needed; new workers shall attend WEAP	and verifies that stickers		5		
training prior to beginning at the work site. A record of all trained personnel shall be	indicating training completion are				
kept on site, and a sticker indicating training completion shall be worn on all worker	worn on worker hard hats; CPUC				
hard hats.	verifies that PG&E provides				
	training to all construction				
The WEAP training shall include a review of the special status species and other	personnel.				
sensitive resources (e.g., nesting birds) that could exist in the project area, the	1				
locations where sensitive biological resources do or may occur, the limits of the work					
area, applicable laws and regulations, penalties for non-compliance, and APMs and					
mitigation measures to be implemented for avoidance of these sensitive resources.					
Additionally, personnel shall be trained for situations where it is necessary to contact					
a qualified biologist (e.g., should any sensitive biological resources such as an active					
nest be found during construction). If sensitive resources are found, the qualified					
biologist shall provide guidelines for the personnel to avoid impacts on them. All					
WEAP participants shall receive a brochure that outlines all this information including					
contact information for the appropriate environmental personnel.					
MM BIO-2: Pre-activity surveys for sensitive species. A CPUC-approved qualified	Pre-activity survey report	All activity areas where sensitive resources	Prior to construction	Entire project area; not applicable to	PG&E, CPUC, CDFW, USFWS
biologist shall conduct a pre-activity survey for all activities occurring near where	summarizing the results is	may be found are surveyed prior to		Fence Meadow Repeater Station.	
sensitive resources may be found within 7 days prior to work commencing. If there is	prepared by PG&E and reviewed	construction activities.			
no work in an area for 7 days, it shall be considered a new work area if construction	by CPUC and as appropriate by				
begins again. The biologist shall survey all suitable habitat for sensitive species	CDFW and/or USFWS before	Avoidance measures are implemented.			
within 100 feet of the activities (see MM BIO-4, MM BIO-6, or MM BIO-7 for	start of construction; CPUC				
additional nesting bird procedures). If any species listed by the state or federal	verifies that PG&E implements				
endangered species acts or protected by other statutes, or their signs, are found, the	any avoidance measures				
CPUC and the appropriate wildlife agencies shall be notified within 48 hours to	recommended by CPUC, CDFW,				
confirm appropriate avoidance measures. If it is determined that construction activity	and/or USFWS.				
cannot avoid areas where sensitive biological resources are present, the qualified					
biologist shall coordinate with the CPUC, CDFW, and/or USFWS, as necessary.					
It a potential San Joaquin kit fox den is found then a minimum buffer of 50 feet shall					
be implemented. For a known den, the butfer shall be 100 feet and for a natal den					
the avoidance butter shall be determined on a case-by-case basis in coordination					
with CDFW and USFWS. If dens cannot be avoided by these distances, a CPUC-					
qualified biologist shall determine occupation following the procedures outlined in					
USE wS Standardized Recommendations for Protection of the Endangered San					
Joaquin Kit Fox Prior to and During Ground Disturbance (USFWS 2011) and consult					
and coordinate with CDFW and USFWS.					

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	Monitoring/Reporting				
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MM BIO-3: Biological Monitoring. A CPUC-approved qualified biological monitor shall develop an appropriate schedule of monitoring to ensure that disturbance is minimized to sensitive resources to the greatest extent possible during project activities. The schedule shall ensure that a CPUC-approved qualified biological monitor (1.) visits the project area regularly (at a minimum of every 7 days); (2.) is present to monitor all ground disturbing activities, such as grading and trenching; and (3.) is present to monitor any observed special status species (observed sign or individual) that may be disturbed by project activities. Biological monitors shall be familiar with San Joaquin kit fox and burrowing owl. Avian biologists present during nesting bird season may act as the biological monitor if qualified.	CPUC verifies that a CPUC- approved biological monitor is present during ground disturbing activities, has conducted periodic surveys, and has flagged sensitive areas.	A monitor is present at least once every 7 days. Periodic surveys and flagging of sensitive areas. Avoidance of impacts to fullest extent feasible.	During construction	Entire project area; not applicable to Fence Meadow Repeater Station.	PG&E, CPUC
The biological monitor shall be responsible for ensuring that impacts on special status species, their associated habitat, and/or sensitive resources are avoided to the fullest extent possible, and the monitor shall have full authority to halt construction if the monitor observes actual or potential disturbances to sensitive resources. At a minimum of once per 7 days, the monitor shall survey all project components near where construction activities may occur in the next 7 days, as well as the irrigation ditch area. Where appropriate, monitors shall flag the boundaries of areas where activities need to be restricted to protect special status species. If a special status species is present in the project area while construction activities are occurring, the restricted areas shall be monitored to ensure their protection during construction.					
MM BIO-4: Mitigation for nesting birds (Supersedes APM BIO-14). The applicant	Nesting bird surveys and nest	Nesting bird survey reports document that all	Prior to construction – conduct	Entire project area; not applicable to	PG&E, CPUC, CDFW, USFWS
 activities are conducted during the nesting bird season (February 1 to September 15) for all species except Swainson's hawk and white-tailed kite (see MM BIO-7), and burrowing owl (see MM BIO-6). Nesting Bird Survey Requirements. If work is scheduled to occur during nesting bird season, then the following provisions shall be employed: A CPUC-approved qualified avian biologist shall conduct surveys for nesting birds within 7 days prior to the start of any construction-related activities. Areas shall be re-surveyed every 7 days while construction activities are occurring. If there is no work in an area for 7 days, it shall be considered a new work area if 	PG&E and results are reviewed by CPUC weekly and provided to CDFW and USFWS monthly. CPUC verifies that PG&E establishes proper buffers around nesting birds, follows the specified process for buffer reductions, and implements collision-reducing techniques for transmission line. CPUC approves buffer reduction	Buffers are established and maintained. Nesting bird database includes all necessary information. Construction avoids project related "take" and is compliant with applicable laws protecting birds.	During construction – conduct monitoring		
construction resumes. In addition, a CPUC-approved qualified monitor shall conduct pre-construction clearance sweeps for nesting birds at all access, staging and, work areas where suitable habitat is present within approximately 24 hours of construction activities each day during the nesting season.	requests from PG&E for special status species after review by USFWS and CDFW.				
 Surveys shall be conducted with the appropriate buffer, duration, level of effort, and timing based on level of construction disturbance, time of day, and environmental factors. Surveys shall be conducted within a 500 foot buffer of active work areas for raptors and a 250 foot buffer for non-raptors, at a minimum. 					
 Surveys shall be conducted at a minimum between February 1 and September 15; however, the survey season may need to begin earlier or end later depending on species and weather conditions. Survey results shall be provided to the CPUC each week. 					
 Avoid Impacts on Nesting Birds. When a nest of any avian or raptor species is located within 500 feet of a construction site, a CPUC-approved qualified avian biologist shall determine whether the nest is active. A nest shall be defined as active once a bird begins 					

Table 6-1 Draft M	itigation Monitoring and Reporting Plan					
		Monitoring/Reporting				
	APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
 nest construction of defined as a nest t are no longer depeter to prevent of distance from the nearest will fer to prevent of distance from the nearest will feet from the nearest will feet from the nearest will be implement not apply to construct to project-specific. If any active nest of acts or fully protect then the minimum appropriate wildliffee. As appropriate, near the nesting in construct or risk of entangler If construction requires the nest, then determined to be in PG&E shall adhered Collisions with Pow feasible. 	APMs and Mitigation Measures r when a raptor begins "nest decoration." An inactive nest is hat has been abandoned by the adult bird or once fledglings ndent on the nest site or parental care. , then the qualified biologist shall implement an exclusionary onstruction activities from occurring within a specified incrive nest. For active raptor nests located more than 500 feet ork site, and non-raptor active nests located more than 250 isst work site, no additional measures shall be implemented. A buffer of 500 feet for an active raptor nest or 250 feet for an est, as recommended by CDFW (Bahm pers. comm. 2016), ed when construction activities are occurring. Buffers shall uction-related traffic using existing roads that are not limited use (i.e., county roads, highways, etc.). f a species listed by the state or federal endangered species ed species (other than those specified MM BIO-7) is found, standard buffer shall be implemented and the CPUC and the agencies shall be notified immediately (within 48 hours). st deterrent strategies may be used to prevent birds from tion equipment or staged materials. This includes covering bs or covering small holes. Bird netting may not be used due nent. irres removal of a structure or tree that contains a known or removal of that structure must occur when the nest is hactive and, if feasible, outside of nesting season. e to recommendations published by APLIC's Reducing Avian yer Lines: The State of the Art in 2012 (APLIC 2012), as	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
Monitoring and Repo (using a geographic info shall be maintained in USFWS and CDFW mo	ting. Nest locations and exclusion buffers shall be mapped ormation system [GIS]) for all identified nests. The information a database; shall be provided to the CPUC weekly and to nthly; and shall include the following information:					
Date, time, and ler	gth of observation period					
 Status (active or in Species 	acuve					
 Nest location, inclu 	ding nest height					
Behavioral observa	ations					
Site conditions, inc	luding construction activities					
 Nest exposure Estimated date of the set of the set	nest establishment					
 Estimated date of Estimated fledge d 	ate					
Number of eggs or	hatchlings, if observed					
Buffer size implem	ented					
Nests protected by a qualified avian biologist necessary to ensure ac once a week during co inactive or until after co	standard buffer shall be observed by a CPUC-approved at a frequency and length of time the avian biologist deems stivities are not causing disturbance to the nest (minimum of instruction) until the biologist has determined that the nest is postruction ends in the work area (whichever occurs first). If					
the biologist observes t	ne birds becoming agitated or the incubating adult leaves the					

Affect and Unitation Measures Monitoring Responsible Timing Location Besponsible Agency Action Effectiveness Criteria Timing Location Besponsible Agency Border Descriteria Expland Location concertaints in the Address of the Hord Server in the Address of the Hord Hord Server in the Addres Address of the Hord Hord Hord Hord Hord Hord Hord	Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
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under der hentigt sesson unter supices inde besonder heitigt under der heitigt under der heitigt under heitigt und	work and expand the buffer. No avian reporting shall be required for construction					
normal source angula blace bard species are to between the paging and. Beller Bobachemes The provide a large stock on the paging bard sectors of the page stock on the page s	outside of the nesting season unless species are observed nesting outside of the					
The set of	normal season or special status bird species are observed in the project area					
Rule Reductions: It is specified in their days is related as a tagging second if days in a day is a day if is a ward if days is a day if is a ward if is a days if is a days if is a ward if is a w						
by case which shared on transmission backgoin and exclusion is labored with the backgoin of the displayed backgoin and bac	Buffer Reductions The specified buffer sizes for nests may be reduced on a case.					
bidge of the bits produce anomalised at the risk of the produced patient and the bits of the bits o	by case basis based on compelling biological and ecological reasoning (e.g. the					
wegening with the week of proven hardball, were the SCHOLESUPPORTUNE apartment water to be advected that we advect that we advected that we advect that we	biology of the bird species, concealment of the pest by tonography, land use type					
balaysis taring is not a subject buffer device result in the standardinary of the net of file. Unfor fuddion registers tail is built to independent and standarysis (a qualitat arise buffer execution within all hours. Buffer device is the CPU's request for a futfer execution within all hours. Buffer device is the CPU's request for a futfer execution within all hours. Buffer device is the CPU's request for a futfer execution within all hours. Buffer device is the CPU's request for a futfer execution within all hours. Buffer device is the CPU's request for a futfer execution within all hours. Buffer device is the CPU's request for a futfer execution within all hours. Buffer device is the comparison of the CPU's request for a futfer execution of AMI (BU's) with the comparison within the extended futfer, inclusing pupport type and the scandarding request futfer execution execution of the CPU-capensed futfer execution execution of the CPU-capensed futfer execution is the scandarding futfer execution of the CPU-capensed qualifies even biologis of the comparison of the CPU-capensed qualifies even biologis is the scandarding futfer execution of the CPU-capensed qualifies even biologis is the comparison of the CPU-capensed qualifies even biol is the comparison of the CPU-capensed qualifies e	vogotation, and the level of project activity), and if a CDUC approved gualified avian					
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 The starting () finalities () which sharped spreaders () bits (CPUC) and strin particle diversity (in the CPUC) be reviewed and proposed. The independent winn binging stall reported to the subject of proposed by the spreader diversity (in the cPUC) be reprived at the spreader diversity (in the requires truncation while diversity (in the requires truncation) while diversity (in the requires truncation) • Spreader • Spreader • Description () while exists be conducted within the reduction built or the reduction of the	of the next or failure. Puffer reduction requests shall be submitted to the independent					
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and it sources to PCRRS to requise the is funder-conclusion within 48 hours. Taking sources and MR 2013 shall be submitted to the appropriate working agencies and to the CMC to approved. The request musi include the fullowing: • Species • Location • Decenting conditions proved to the second the intervence of the second to the • Decenting conditions proved to the second to the intervence of the second to the • Species • Location • Decenting conditions proved to the second to the intervence of the second to the • Decenting conditions proved to the second to the intervence of the second to the sec	directly to the CDUC) to be reviewed and approved. The independent avian biologist					
Sector Spectra of Victor's Spectra of a very observation of a number of the sector of the New York of Spectra	chell recorded to DCP E/o request for a huffer reduction within 40 hours. Duffer					
Induction fractions to species with a back the forwards of the	Shall respond to PG&E'S request for a buller reduction within 48 hours. Buller					
and wind out/ y start be southed of the application window approaches wind in the decomposition of the application of the appli	reduction requests for special status species (other than those specified in wind BiO-o					
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Table 6-1	Draft Mitigation	Monitorina	and Re	porting Plan
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	Monitoring/Reporting	Effectiveness Oritoria	Timina	
APMS and Mitigation Measures	Action	Effectiveness Criteria	liming	
MM BIO-5: Wildlife Protection (Supersedes APMs BIO-4, -5, and -10). The applicant shall implement the following measures to ensure protection of all wildlife species.	CPUC verifies that PG&E implements measures to protect wildlife.	Measures are implemented to avoid and/or minimize impacts on wildlife, including speed limits for project vehicles, animal proofing trash containers, and flagging of disturbance	Prior to and during construction	Entire project area Fence Meadow R
 Vehicle speed limits on existing unpaved access routes shall not exceed 15 miles per hour and shall not exceed 10 miles per hour on overland access roads. County speed limits shall be followed on existing paved roads. Construction personnel shall avoid collision with wildlife. If night work is required, all lighting shall be shielded and point downward and away from any identified sensitive biological resources. All trash and debris shall be secured in animal-proof containers before the end of each workday. Containers shall be emptied at least once per week and disposed of at an appropriate off-site location. All construction personnel shall not harass any wildlife and shall allow wildlife to leave the work area on their own volition. 		limits.		
 Disturbance limits shall be visibly flagged to ensure construction personnel minimize the construction footprint 				
MM BIO-6: Specific Requirements for Burrowing Owl (Supersedes APM BIO- 13). A CPUC-approved qualified avian biologist familiar with burrowing owl biology and survey methods shall conduct a pre-construction survey for this species no more than 30 days prior to construction activities during the non-breeding season and no more than 14 days prior to construction during the breeding season (February 1 to August 31 with some variance by geographic location and climatic conditions; CDFW 2012). The biologist shall confirm whether the owls are occupying the site and whether they are actively nesting. If any burrowing owl or sign of an occupied burrow is observed, the CPUC shall be informed as soon as possible (and within 48 hours). Surveys shall include the irrigation ditch and any area with suitable habitat within 656 feet (200 meters) of the project activities. If access to areas with suitable habitat is restricted, the biologist shall visually survey with a spotting scope, binoculars, or other visual techniques.	CPUC verifies that PG&E conducts pre-construction surveys for burrowing owl according to the specification in this mitigation measure and implements avoidance measures recommended by CDFW in <i>Staff</i> <i>Report on Burrowing Owl.</i>	Impacts to burrowing owl are avoided by performing pre-construction surveys and avoiding burrowing owl burrows.	Prior to and during construction	Entire project area Fence Meadow R
If an occupied burrow is identified, the CPUC-approved qualified biologist shall immediately implement a minimum 200 meter (656 foot) buffer. Then an appropriate burrow-specific buffer shall be recommended by the CPUC-approved qualified biologist based on the circumstances (e.g., owl tolerance and construction activity level) and as explained by the Staff Report on Burrowing Owl Mitigation (CDFW 2012 or more recent), which shall be approved by the CPUC and then implemented.				
In areas where owl presence or owl sign is not found, weekly surveys for burrowing owl and its sign shall be conducted for the remainder of the first breeding season and all following breeding seasons. Survey areas shall include work areas where construction-related activities are occurring, and surveys shall adhere to the following procedures:				
• A CPUC-approved qualified avian biologist shall conduct surveys for nesting birds within 7 days prior to the start of any construction-related activities. Areas shall be re-surveyed every 7 days while construction activities are occurring. If there is no work in an area for 7 days, it shall be considered a new work area if construction resumes. In addition, a CPUC-approved qualified monitor shall conduct pre-construction clearance sweeps for nesting birds at all work areas				

Location	Responsible Agency
ct area; not applicable to low Repeater Station.	PG&E, CPUC
t area; not applicable to low Repeater Station.	PG&E, CPUC, CDFW

	Monitoring/Reporting			
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	L
 where suitable habitat is present within approximately 24 hours of construction activities each day during the nesting season. Surveys shall be conducted with the appropriate duration, level of effort, and timing based on level of construction disturbance, time of day, and environmental factors. Surveys shall be conducted in the irrigation ditch, and any area with suitable habitat within 656 feet (200 meters) of project activities, at a minimum. If access to areas with suitable habitat is restricted, the biologist shall visually survey with a spotting scope, binoculars, or other visual techniques. Surveys shall be conducted at a minimum between February 1 and September 15; however, the survey season may need to begin earlier or end later depending on species and weather conditions. Survey results shall be provided to the CPUC each week. 				
 MM BIO-7: Specific Requirements for Special Status Raptors (Supersedes APM BIO-12). A CPUC-approved qualified avian biologist shall conduct pre-construction surveys for Swainson's hawk and white-tailed kite in appropriate habitat within 0.5 miles of project construction activities prior to the start of construction during breeding season (i.e., the "first" breeding season). The avian biologist shall be familiar with the survey methods and biology of these species. Surveys for Swainson's hawk shall follow the protocols outlined in the Recommended Timing and Methodology for Swainson's Hawk Nesting Surveys in California's Central Valley (CDFW 2000a or more recent). If an active nest (i.e., when nest decoration begins) is identified within 0.5 miles of construction activities, then a CPUC-approved qualified avian biologist shall implement a 0.5 miles buffer around the nest. The CPUC and CDFW shall be informed of the nest as soon as possible (and within 48 hours). Requests to reduce standard buffers must be sent to the CPUC to be reviewed in coordination with CDFW. 	CPUC verifies that PG&E conducts pre-construction surveys for special status raptors according to the specifications in the mitigation measure and implements avoidance measure recommended by CDFW.	Impacts to special status raptors are avoided by performing pre-construction surveys and avoiding active nests.	Prior to and during construction	Within 0.5 miles of not applicable to I Repeater Station.
If no indication of Swainson's hawk or white-tailed hawk nesting (indications include vocalizations or observations of nesting activities, nests, perched adults, displaying adults, eggs, chicks) is found during protocol-level surveys, weekly surveys for nesting Swainson's hawk and white-tailed kite shall be conducted for the remainder of the breeding season in all work areas where any construction-related activities are occurring, according to the following procedures:				
 A CPUC-approved qualified avian biologist shall conduct surveys for nesting birds within 7 days prior to the start of any construction-related activities. Areas shall be re-surveyed every 7 days while construction activities are occurring. If there is no work in an area for 7 days, it shall be considered a new work area if construction resumes. In addition, a CPUC-approved qualified monitor shall conduct pre-construction clearance sweeps for nesting birds at all work areas where suitable habitat is present within approximately 24 hours of construction activities each day during the nesting season. Surveys shall be conducted with the appropriate duration, level of effort, and timing based on level of construction disturbance, time of day, and environmental factors. Survey areas shall include work areas and a 500-foot buffer, at a minimum. Surveys shall be conducted at a minimum between February 1 and September 15; however, the survey season may need to begin earlier or end later 				

Location	Responsible Agency
es of construction activities;	PG&E, CPUC, CDFW
to Fence Meadow ion.	

Table 6-1	Draft Mitigation	Monitorina	and Re	porting Plan
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	Monitoring/Reporting			
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location
Survey results shall be provided to the CPUC each week.			×	
 Survey results shall be provided to the CPUC each week. During subsequent breeding seasons following the first season, reconnaissance surveys for Swainson's hawk and white-tailed kite shall be performed in appropriate habitat and at the appropriate time within 0.5 miles of project construction activities in order to detect any new nesting activity. If no indication of nesting is found during reconnaissance surveys, weekly surveys for nesting Swainson's hawk and white-tailed kite shall be conducted for the remainder of the breeding season in all work areas where any construction-related activities are occurring (following procedures in the bullet points above). Cultural and Paleontological Resources APM CUL-4: Unanticipated discovery of human remains management. If human remains are discovered, work in the immediate vicinity will stop immediately and a PG&E Cultural Resources Specialist will be contacted. The location of the discovery will be secured to provent further impacts and the location will be kept confidential. 	CPUC verifies that PG&E implements protocols for unanticipated human remains discovery including balting work	Work is halted if unanticipated human remains are discovered and the proper protocols implemented.	During construction	Entire project area; not applicable to Fence Meadow Repeater Station.
The Cultural Resources Specialist will evaluate the discovery and will contact the Fresno County Coroner upon verifying that the remains are human. If the coroner determines the remains are Native American, the Native American Heritage Commission will be contacted and the remains will be left in situ and protected until a decision is made on their final disposition.	in the event of an unanticipated discovery.			
APM PAL-1: Worker's environmental resources training. All construction crew members must receive a paleontologically focused worker's environmental awareness training module prior to ground disturbance activities for the project. The module will be developed by the lead Paleontologist for the project and can be presented in person, through a safety tailboard, or in some other format, such as a brochure or videotape. The training module will cover the following topics: fossil/paleontological resource identification, discovery guidance, and the contact information of both the paleontological field monitor and the project paleontological resource specialist.	The training program is prepared by PG&E, approved by CPUC, and implemented by PG&E CPUC verifies that new employees are trained by reviewing training records kept by PG&E.	All personnel receive the CPUC-approved training prior to starting work on the project. All personnel are aware of the APMs and mitigation measures and can effectively implement the measures.	Prior to construction – submit training program to CPUC for review and conduct training During construction – monitor continued training	Entire project area; not applicable to Fence Meadow Repeater Station.
MM CUL-1: Cultural Resources Monitoring and Treatment (supersedes APM CUL-3). A CPUC-approved archaeologist that meets the Secretary of Interior's Professional Qualifications Standards for archaeology shall implement the following procedures if an unanticipated cultural resource is discovered during construction. Work shall be halted and excluded from within 100 feet of the resource. Protective barriers shall be installed with signage identifying the area as an "environmentally sensitive area." The CPUC shall be notified of the find. <u>The CPUC will notify parties who have requested notification of the find to the extent allowed, in consideration of confidentiality requirements.</u> Total avoidance of the resource is preferred, and no additional mitigation is necessary if it is avoided. The resource shall be recorded on California Department of Parks and Recreation 523 forms and filed at the South San Joaquin Valley Information Center.	The CRMTP is prepared by PG&E, approved by CPUC prior to the start of construction, and implemented by PG&E CPUC verifies that PG&E implements monitoring as described in the plan, including halting work in the event of an unanticipated discovery.	Archeological monitoring is conducted according to the CRMTP. Measures identified in the CRMTP are implemented if a previously undiscovered cultural resource is uncovered during construction.	Prior to construction – prepare, submit, and obtain approval of CRMTP During construction – follow CRMTP in case of resource discovery	Entire project area; not applicable to Fence Meadow Repeater Station.
in consultation with the CPUC if there is a potential for the resource to be historical (CEQA Guidelines section 15064.5(a)) or a unique archaeological resource (Public Resources Code 21083.2(g)). <u>The CPUC must provide a response to the CPUC-approved archaeologist within seven days regarding a resource that the CPUC-approved archaeologist has found not to be potentially historical or a unique archaeological resource. If the resource is not potentially a historical or unique archaeological resource, work can resume after the CPUC's concurrence. If the resource is potentially a historical or unique archaeological resource, the CPUC-</u>				

Location	Responsible Agency
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adow Repeater Station.	PG&E, CPUC
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adow Repeater Station.	
ject area; not applicable to	PG&E, CPUC
adow Repeater Station.	

Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
APMs and Mitigation Measures approved archaeologist shall prepare an Evaluation Plan that details the procedures to be used to determine whether the resource is a historical or unique archaeological resource. The Evaluation Plan shall be submitted to the CPUC for review. The CPUC will approve or request changes to the Evaluation Plan within 7 days of submittal by PG&E. Once approved, the Evaluation Plan shall be implemented, and a report shall be prepared that indicates whether the resource is a historical resource or unique archaeological resource. If the discovery is not historical or a unique archaeological resource and the CPUC concurs with that determination, work may proceed in the area of the discovery. If the discovery is historical or a unique archaeological resource, PG&E shall prepare a Data Recovery Plan that would reduce impacts to less than significant. The Data Recovery Plan shall be prepared in accordance with CEQA Guidelines section 15126.4(b)(3)(C) and PRC section 21083.2 and shall describe methods that will yield relevant information. The Data Recovery Plan shall be submitted to the CPUC for review and approval. The CPUC will approve or request changes to the Data Recovery Plan within 7 days of submittal by PG&E. Once approved, the applicant shall implement the plan. When the field work is completed, a Data Recovery Field Memo shall be prepared that briefly describes the data and materials recovery. The Data Recovery Field Memo shall be submitted to the CPUC for review and approval. The CPUC will approve or request changes to the Data Recovery Field Memo within 7 days of submittal by PG&E. Once the Data Recovery Field Memo within 7 days of submittal by PG&E. Once the Data Recovery Field Memo within 7 days of submittal by PG&E. Once the Data Recovery Field Memo within 7 days of submittal by PG&E. Once the Data Recovery Field Memo within 7 days of submittal by PG&E. Once the Data Recovery Field Memo within 7 days of submittal by PG&E. Once the Data Recovery Field Memo within 7 days of submittal	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
review and approval. Once approved, the Data Recovery Report and 523 forms shall					
be filed with the South San Joaquin Valley Information Center. MM CUL-2: Worker Education Program (supersedes APM CUL-1, supplements APM CUL-4). PG&E shall design and implement a Worker Education Program that shall be provided to all project personnel who may encounter and/or alter historical resources or unique archaeological resources, including construction supervisors and field personnel. No construction worker will be involved in field operations without having participated in the Worker Education Program. The Worker Education Program shall include, at a minimum:	The training program is prepared by PG&E, approved by CPUC, and implemented by PG&E CPUC verifies that new personnel are trained by reviewing training records.	All personnel receive the CPUC-approved training prior to starting work on the project. All personnel are aware of the APMs and mitigation measures and can effectively implement the measures.	Prior to construction – submit training program to CPUC for review and conduct training During construction – monitor continued training	Entire project area; not applicable to Fence Meadow Repeater Station.	PG&E, CPUC
 A review of archaeology, history, prehistory and Native American cultures associated with historical resources in the project vicinity; A review of the types of resources that could be uncovered in the area, including historical artifacts associated with the nonextant historical complex at the Sanger Substation site; A review of applicable local, state, and federal ordinances, laws, and regulations pertaining to historic preservation and Native American resources; A discussion of procedures to be followed in the event that unanticipated cultural resources or human remains are discovered during implementation of the project; A discussion of disciplinary and other actions that could be taken against persons violating historic preservation laws and PG&E policies; and A statement by the construction company or applicable employer agreeing to abide by the Worker Education Program, PG&E policies and procedures, and 					

Table 6-1	Draft Mitigation	Monitoring	and Re	porting F	Plan

	Monitoring/Reporting			
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	
other applicable laws and regulations.			y	
MM CUL-3 (supersedes APM PAL-2): Unanticipated paleontological resource discovery protocol. If a previously unidentified paleontological resource is discovered during construction, PG&E shall immediately require that work be halted within 100 feet of the resource; measures be put in place to prevent further impacts to the resources, such as protective barriers and/or signs, and/or coverings; that PG&E's CPUC-approved Cultural Resources Specialist (CRS) and paleontological resource specialist be notified; and that the CRS notify the CPUC. PG&E's CPUC-approved paleontological resource specialist shall examine the find and determine whether it is unique under Part V of CEQA Guidelines Appendix G. The CPUC-approved paleontologist may develop significance criteria for the fossils likely to be yielded by the Riverbank Formation, subject to CPUC approval (such criteria will be documented in the PRMMP discussed in MM CUL-4). In the absence of other agreed-upon criteria, a paleontological resource shall be considered unique if it meets the definition of a significant paleontological resource under the 2010 Society of Vertebrate Paleontology <i>Standard Procedures for the Assessment of Adverse Impacts to Paleontological Resources</i> definition:	CPUC verifies that PG&E implements protocols for unanticipated paleontological resource discovery, including halting work in the event on an unanticipated discovery.	Work is halted if an unanticipated paleontological resource is discovered and the proper protocols implemented.	During construction	Entire project a Fence Meadow
Significant paleontological resources are fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years).				
determine whether or not the resource is unique. <u>The CPUC must respond in writing</u> <u>within seven days stating whether the resource is unique and provide reasoning if it</u> <u>disagrees with the conclusion.</u> If the resource is determined not to be unique, work may commence in the area. If the resource is significant and can be avoided and thus not impacted, PG&E shall document the resource in accordance with professional standards, continue to flag the area for avoidance during construction, and take no further action. Preservation in place, i.e., avoidance, is the preferred method of mitigation for impacts to unique paleontological resources. However, if the resource is unique and cannot feasibly be avoided, PG&E shall consult with the				
CPUC to determine appropriate mitigation measuresMitigation methods may include ensuring that fossils are recovered, prepared, identified, catalogued, and analyzed according to current professional standards under the direction of a qualified paleontologist. Methods of recovery, testing, and evaluation shall adhere to current professional standards for recovery, preparation, identification, analysis, and curation, such as the 2010 Society of Vertebrate Paleontology <i>Standard Procedures</i> <i>for the Assessment of Adverse Impacts to Paleontological Resources</i> . Work may commence after data recovery (if undertaken) and upon approval by the CPUC.				
MM CUL-4 (supersedes APM PAL-3): Paleontological Resources Monitoring and Mitigation Plan. A qualified professional paleontologist shall prepare a Paleontological Resources Monitoring and Mitigation Plan (PRMMP) for the project before the onset of ground disturbing activities. The PRMMP shall be submitted to the CPUC for review and approval at least 30 days prior to the start of any excavation to 5 feet below ground surface. PG&E's CPUC-approved paleontological resource specialist shall direct implementation of the PRMMP.	The PRMMP is prepared by PG&E, reviewed by CPUC, and implemented by PG&E CPUC verifies that PG&E implements monitoring as described in the plan, including having a monitor present when applicable.	Paleontological monitoring is conducted according to the PRMMP, including having a monitor present when applicable.	Prior to construction – prepare, submit, and obtain approval of PRMMP During construction – monitoring is conducted as set forth in the PRMMP	Entire project a Fence Meadow

Location	Responsible Agency
t area; not applicable to ow Repeater Station.	PG&E, CPUC
t area; not applicable to ow Repeater Station.	PG&E, CPUC

Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
The PRMMP shall include full-time monitoring of excavations extending more than 5			5		
feet deep and auguring/boring extending to more than 5 feet deep and more than 3					
feet in diameter, or in lieu of full-time monitoring, the PRMMP shall include the					
following requirements:					
5 1					
Initial Monitoring:					
1. Prior to the start of construction, PG&E's CPUC-approved paleontological					
resource specialist shall identify a minimum number and array of excavation					
types (i.e. TSP foundation drilling, grading, retention pond) extending more than					
5 feet deep and auguring/boring extending to more than 5 feet deep and more					
than 3 feet in diameter sufficient to obtain data to determine whether the project					
area is likely to vield significant paleontological resources. The placement of the					
locations requiring monitor will be developed by the paleontologist in					
consultation with PG&E's construction team, and will focus on volume of soil to					
be disturbed to produce a representative sample. The PRMMP shall identify the					
methods used (e.g., microscopic examination of matrix samples, visual					
examination of excavated material) to make the determination.					
2. At all sites identified by PG&E's CPUC-approved paleontological resource					
specialist, a CPUC-approved paleontological field monitor shall monitor the					
excavation and auguring during the initial stages of construction (i.e. from the					
beginning of construction until a determination is made after initial monitoring as					
described in this item) to determine whether the project area is likely to yield					
significant paleontological resources					
Subsequent Monitoring: The results of initial monitoring shall be described in a					
memo, to be submitted to CPUC for review and approval. CPUC will review and					
either request revisions or approve the memo within 2 business days of submittal by					
PG&E. PG&E shall not reduce or stop monitoring until CPUC approves the memo.					
Based on the results of initial monitoring, the following measures shall be required					
and described in the PRMMP:					
If PG&E's CPUC-approved paleontological resource specialist determines that					
no part of the project area is likely to yield significant paleontological resources,					
further monitoring shall not be required. PG&E must still make available the					
paleontological resource specialist and paleontological field monitor (available to					
go to the work site as needed). Training provided pursuant to APM PAL-1 will					
enable work crews to identify likely fossils, and inform the appropriate parties if					
such deposits are identified.					
If PG&E's CPUC-approved paleontological resource specialist discovers					
significant paleontological resources or determines the project area is likely to					
yield significant paleontological resources, then continued monitoring shall be					
required as deemed appropriate by the paleontological resource specialist, in					
consultation with the CPUC and PG&E's construction team, based on the					
nature, location, and geologic context of the fossil(s), as well as the potential for					
further disturbance.					
It a paleontological resource is discovered at any time during initial monitoring,					
continued monitoring, or unmonitored construction, PG&E shall notify the CPUC					
immediately and the paleontological resource specialist will inspect the matrix for					
tossils. It a paleontological resource is discovered, MM CUL-3 shall be implemented.					

	Monitoring/Reporting			
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	
MM CUL-5: Undiscovered potential Tribal Cultural Resources. The following procedure shall be employed (after stopping work and following the procedure for determining eligibility in MM CUL-1) if a resource is encountered and determined by the project's qualified archaeologist to be eligible for the CRHR or a local register of historic resources and is associated with a California Native American Tribe(s) with a traditional and cultural affiliation with the geographic area of the proposed project:	CPUC verifies that PG&E properly analyzes and processes all potential Tribal Cultural Resources.	All collected cultural remains are properly cataloged, analyzed, and curated with appropriate institutions.	During construction	Entire project a Fence Meadow
 The project's qualified archaeologist shall notify the CPUC for appropriate action. PG&E will assist the CPUC if needed to identify the lead contact person for the California Native American Tribe(s) potentially associated with the cultural resource and with a traditional and cultural affiliation with the geographic area of the proposed project. The CPUC will contact the lead contact person to set up a meeting with PG&E and the CPUC. The project's qualified archaeologist shall participate with the CPUC in discussions with the California Native American Tribe(s) whether the resource is a "tribal cultural resource" as defined by PRC section 21084.3(b) and the tribe(s)' preferred method of mitigation, if the resource is determined to be a TCR. If no agreement can be reached for mitigation after discussions with the California Native American Tribe(s) or it is determined that the tribe(s)' preferred mitigation is not feasible, PG&E will implement one of the example mitigation measures listed in PRC section 21080.3(b), or other feasible mitigation. 				
Geology and Soils				•
APM GEO-2/APM WQ-1: Development and implementation of a Stormwater Pollution Prevention Plan (SWPPP). Because the project involves more than an acre of soil disturbance, a SWPPP will be prepared for the project as required by the state National Pollutant Discharge Elimination System (NPDES) General Permit for Discharges of Stormwater Associated with Construction Activity. This plan will be prepared in accordance with the Water Board guidelines and other applicable erosion and sediment control Best Management Practices (BMPs). Implementation of the plan will help stabilize disturbed areas and will reduce erosion and sedimentation. The SWPPP will designate BMPs that will be followed during and after construction of the project. Examples of erosion-minimizing measures that may be identified in the SWPPP include:	PG&E prepares and submits SWPPP to RWQCB; CPUC verifies that PG&E submits SWPPP and implements proper BMPs.	SWPPP is prepared and implemented.	Prior to construction – obtain NPDES General Permit and prepare SWPPP During construction – implement BMPs	Entire project a
 Using drainage control structures (e.g., straw wattles or silt fencing) to direct surface runoff away from disturbed areas. Strictly controlling vehicular traffic. Implementing a dust-control program during construction. Restricting access to sensitive areas. Using vehicle mats in wet areas. Revegetating disturbed areas, where applicable, following construction. 				
In areas where soils are to be temporarily stockpiled, soils will be placed in a controlled area and will be managed with similar erosion control techniques. Where construction activities occur near a surface waterbody or drainage channel and drainage from these areas flows towards a waterbody or wetland, stockpiles will be placed at least 100 feet from the waterbody or will be properly contained (such as berming or covering to minimize risk of sediment transport to the drainage). Mulching or other suitable stabilization measures will be used to protect exposed areas during and after construction activities. Erosion-control measures will be installed, as				

area; not applicable to w Repeater Station. PG&E, CPUC	
w Repeater Station.	
area PG&E, CPUC, RWQCB	

Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timina	Location	Responsible Agency
necessary, before any clearing during the wet season and before the onset of winter			y		
rains. Temporary measures, such as silt fences or wattles intended to minimize					
erosion from temporarily disturbed areas, will remain in place until disturbed areas					
have stabilized.					
The SWPPP will be designed specifically for the hydrologic setting of the project.					
Greenhouse Gases					
APM GHG-1: Minimize GHG emissions.	CPUC-designated environmental	Greenhouse gas emission minimization	Prior to construction – verify training	Entire project area	PG&E, CPUC
Minimize unnecessary construction vehicle idling time. The ability to limit	monitor verifies that PG&E	strategies are being implemented.	of workers		
construction vehicle idling time will depend on the sequence of construction	minimizes vehicle idling time,				
activities and when and where vehicles are needed or staged. Certain vehicles,	construction equipment is kept in		During construction		
such as large diesel-powered vehicles, have extended warm-up times following	proper working condition, and				
start-up that limit their availability for use following start-up. Where such diesel-	low-emission or electrical				
powered vehicles are required for repetitive construction tasks, these vehicles	equipment is used where				
may require more idling time. The project will apply a "common sense" approach	PC & E trains workers on vehicle				
to venicle use, so that folling is reduced as far as possible below the maximum of E conceptive minutes allowed by California law; if a vehicle is not required for					
5 CONSECUTIVE INITIALES ANOWED BY CAMOUTIA TAW, IT A VEHICLE IS NOT REQUIRED TO use immediately or continuously for construction activities, its ongine will be shut	use.				
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.					
Maintain construction equipment in proper working conditions in accordance					
with PG&E standards.					
Minimize construction equipment exhaust by using low-emission or electric					
construction equipment where feasible. Portable diesel fueled construction					
equipment with engines 50 hp or larger and manufactured in 2000 or later will					
be registered under the CARB Statewide Portable Equipment Registration					
Program.					
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.					
Encourage the recycling of construction waste where feasible.					
APM GHG-2: Minimize sulfur hexafluoride (SF ₆) emissions. To avoid and	PG&E provides documentation to	SF ₆ mitigation strategies, including record	During operation and maintenance	Expanded substation	PG&E, CPUC
minimize fugitive (leakage) SF $_6$ emissions, PG&E will incorporate the following	CPUC to show implementation of	keeping and maximum leakage rates, are			
measures:	SF ₆ emission reduction program.	implemented.			
Incorrecto Congor Substation into DC® E/o sustam wide CE, amission					
 Incorporate Sanger Substation into PG&E's system-wide SF6 emission reduction program. CADD has adopted the Degulation for Deducing Sulfur. 					
Hevefluoride Emissions from Cas Insulated Switchgear sections 05350 to					
95350 title 17 California Code of Regulations, which requires that company.					
wide SE ₄ emission rate not exceed 1 percent by 2020. Since 1998, $PG\&E$ has					
implemented a programmatic plan to inventory, track, and recycle SF_6 inputs.					
and inventory and monitor system-wide SF ₆ leakage rates to facilitate timely					
replacement of leaking breakers. PG&E has improved its leak detection					
procedures and increased awareness of SF ₆ issues within the company. X-ray					
technology is now used to inspect internal circuit breaker components to					
eliminate dismantling of breakers, reducing SF ₆ handling and accidental					
releases. As an active member of USEPA SF ₆ Emission Reduction Partnership					
for Electrical Power Systems, PG&E has focused on reducing SF ₆ emissions					
from its transmission and distribution operations and has reduced the SF ₆ leak					

Table 6-1 Draft Mitigation Monitoring and Reporting Plan					
	Monitoring/Reporting				
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
rate by 89 percent and absolute SF ₆ emissions by 83 percent.					
Require that the breakers at Sanger Substation have a manufacturer's					
guaranteed maximum leakage rate of 0.5 percent per year or less for SF ₆ .					
Maintain substation breakers in accordance with PG&E's maintenance					
standards.					
Comply with California Air Resources Board Early Action Measures as these					
policies become effective.					
Hazards and Hazardous Materials					
APM HAZ-1: Spill Prevention, Control, and Countermeasures (SPCC). In the	The site-specific SPCC Plan will	SPCC procedures and requirements are	Prior to construction – prepare	Entire project area; not applicable to	PG&E, CPUC
event of an accidental spill, the substation is equipped with a retention basin that	be prepared by PG&E, approved	implemented.	SPCC Plan and submit to CPUC for	Fence Meadow Repeater Station.	
meets SPCC Guidelines (40 CFR 112). The retention basin will be sufficiently sized	by CPUC, and implemented by		review and approval		
to accommodate the accidental spill of all mineral oil from the largest transformer	PG&E. CPUC will verify that		Design of the standard state		
located at the substation. The substation will also be equipped with lead-acid	PG&E Implements the SPCC,		During operation – Implement		
batteries to provide backup power for monitoring, alarm, protective relaying,	measures by CDUC designated		SPCC Plan		
Containment will be constructed around and under the battery racks, and the SDCC	ineasures by CPUC-designated				
will address containment from a battery leak	environmental morntor.				
A site-specific SPCC Plan will be prepared prior to the initiation of construction					
APM HA7-3: Shock hazard. All authorized personnel working on site, during either	CPUC verifies that PG&F installs	All personnel receive training prior to starting	Prior to construction – verify training	Substation and all power lines	PG&F, CPUC
construction or maintenance and operation, will be trained according to PG&E	fences and signs, and that PG&E	work on the project. Fence and signs	of workers		
standards. To minimize potential exposure of the public to electric shock hazards, an	designs electrical power lines in	installed and CPUC General Order 95			
8-foot-tall chain link fence topped with 1 foot of barbed wire will extend around the	accordance with CPUC General	Guidelines implemented. Security fence	During operation and maintenance		
perimeter of the expanded substation for a total of approximately 9 feet, thus	Order 95 Guidelines.	installed.	 verify implementation of design 		
restricting site access. Warning signs will be posted to alert persons of potential			elements		
electrical hazards. All electric power lines will be designed in accordance with CPUC					
General Order 95 Guidelines for safe ground clearances established to protect the					
public from electric shock.					
MM HAZ-1: Hazardous Materials Management Plan (supersedes APM HAZ-2	HMMP is prepared by PG&E and	Minimize exposure to hazardous materials or	Prior to construction – prepare,	Entire project area; not applicable to	PG&E, CPUC
and APM HAZ-4). Prior to construction, the applicant shall prepare a Hazardous	submitted to CPUC for review	nazardous waste.	submit, and obtain approval of	Fence Meadow Repeater Station.	
Materials Management Plan, which shall be implemented during construction to	and approval; CPUC verifies that		HIVINIP and conduct training		
prevent the release of hazardous materials and hazardous waste. The plan shall include the following requirements and precedures:	PG&E ITAINS WOLKELS Dy		During construction implement		
	designated environmental				
1 Training requirements for construction workers in appropriate work practices	verifies that PG&F implements				
including spill prevention and response measures. Additional training	HMMP by inspecting				
requirements for those performing excavation activities shall be required and	construction sites for presence of				
shall include training on types of contamination and contaminants (e.g.,	spill kits and other required				
petroleum hydrocarbons, asbestos, and hazardous materials [as defined by the	materials, inspection of				
California HSC]) and identifying potentially hazardous contamination (e.g.,	construction vehicles for leaks,				
stained or discolored soil and odor).	and proper handling of any				
2. Contain all hazardous materials at work sites and properly dispose of all such	hazardous materials.				
materials.					
a. Hazardous materials shall be stored on pallets within fenced and secured					
areas and protected from exposure to weather and further contamination.					
 n. Fuels driv invitiditis Stidli be stored utily di designated stagling afeas. Maintain bazardous material spill kits for small spills at all active work sites and 					
staning areas. Thoroughly clean up all spills as soon as they occur					
4 Store sorbent and barrier materials at all construction stading areas including					
staging areas used during activities for decommissioning. Sorbent and barrier					
materials will be used to contain runoff from contaminated areas and from					
accidental releases of oil or other potentially hazardous materials.					

Та	ble 6-1 Draft Mitigation Monitoring and Reporting Plan					
		Monitoring/Reporting				
	APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
5.	Perform all routine equipment maintenance at a shop or at the staging area and					
	recover and dispose of wastes in an appropriate manner.					
6.	Monitor and remove vehicles used for construction-related activities with chronic					
	or continuous leaks from use and complete repairs before returning them to					
7	operation.					
7.	Store shovels and drums at the staging areas. It small quantities of soil become					
	offsite disposal Large quantities of contaminated soil may be collected using					
	heavy equipment and stored in drums or other suitable containers prior to					
	disposal. Should contamination occur adjacent to staging areas because of					
	runoff, shovels and/or heavy equipment shall be used to collect the					
	contaminated material. Only trained construction workers shall handle					
	hazardous, and potentially hazardous, materials.					
8.	Transporting, shipping, and disposal procedures for hazardous waste.					
9.	Procedures for notifying applicant and agency personnel in the event of the					
	discovery of contaminated soil and/or groundwater. Contact information for					
	federal, regional, and local agencies, the applicant's environmental					
	coordinator(s) responsible for the cleanup of contaminated soli of groundwater,					
Thi	and incensed disposal facilities and fladiers.					
pric	ar to the start of construction of the proposed project					
MN	1 HA7-2: Fire Control Measures. PG&E shall implement the following measures.	CPUC-designated environmental	All personnel receive the CPUC-approved	Prior to construction – verify training	Fence Meadow Repeater Station	PG&F. CPUC
pric	or to and during work at the Fence Meadow Repeater Station:	monitor verifies that PG&E	training prior to starting work on the project.	of workers		
		prohibits smoking outside an	All personnel can effectively implement the			
1.	As part of the Worker Training Program, workers will be trained in fire prevention	appropriate designated area and	measures. Smoking is prohibited outside of	During construction – implement		
	and response practices to be implemented to minimize the risk of fire, and in the	provides required fire	designated area, required fire extinguishers	measures		
	event of fire, trained to provide immediate response. At minimum, construction	extinguishers. CPUC verifies that	are available, parking and idling does not			
	personnel shall be trained in fire reporting and incipient-stage fire prevention,	PG&E trains workers on fire	occur near combustible vegetation as			
	control, and extinguishing (i.e., the fire can be controlled or extinguished by	prevention and response by	required.			
	ponable life extinguishers, small nose systems, or ponable water supplies without the peed for protective clothing or breathing apparatus.)	reviewing training logs.				
2	Prohibit smoking at the worksites other than in designated areas chosen that are					
۷.	free of ignitable material. Require disposal of cigarette butts in a way that will not					
	ignite vegetation or other materials.					
3.	Ensuring an appropriate fire extinguisher is present before initiating and during					
	each hot-work activity (e/g/, welding, brazing, soldering, grinding, and arc					
	cutting).					
4.	Preventing vehicles with hot exhaust manifolds from idling on roads with					
	combustible vegetation under the vehicles.					
5. ¢	Do not park vehicles in areas with vegetation prone to ignition.					
0. Цы	cyulp all vehicles with a file exilinguisher.	1				1
	UI UIUYY AIIU WALEI QUAIILY M GEO-2/APM WO.1: Development and implementation of a Stormwater	See Geology and Soils	See Geology and Soils	See Geology and Soils	See Geology and Soils	See Geology and Soils
Po	Ilution Prevention Plan (SWPPP), See Geology and Soils.					

	Monitoring/Reporting			
APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	L
Noise				
APM NOI-2: Construction equipment noise reduction devices and low noise equipment. PG&E shall include noise control requirements in specifications provided to construction contractors. Such contract specifications would include, but not be limited to, performing all work in a manner that minimizes noise; use of equipment with effective mufflers; use of "quiet" equipment (i.e., equipment that incorporates noise control elements into the design—compressors have "quiet" models) whenever possible; using equipment that is specifically designed for low noise emissions and equipment powered by electric or natural gas as opposed to diesel or gasoline; and undertaking the most noisy activities during the daytime to minimize disturbance to surrounding residents.	CPUC verifies that PG&E uses noise reduction devices and low noise equipment.	Construction equipment noise is reduced by implementing noise reduction devices or using low noise equipment.	During construction.	Entire project area
APM NOI-3: Placement of stationary construction equipment. Stationary equipment used during construction will be located at a minimum distance of 200 feet from sensitive noise receptors.	CPUC verifies that stationary equipment used during construction is located 200 feet from sensitive noise receptors.	Stationary equipment is located more than 200 feet from sensitive noise receptors.	During construction.	Entire project area
APM NOI-4: Minimization of unnecessary engine idling. Unnecessary engine idling will be limited. (See APM GHG-1.)	CPUC verifies engine idling is limited.	Engine idling is limited.	During construction.	Entire project area
APM NOI-6: Noise disruption minimization through residential notification. Residents in areas of heavy construction noise will be notified prior to commencing construction activities. Notification will include written notice and the posting of signs in appropriate locations with a contact number that residents can call with questions and concerns.	CPUC verifies residents in area will be notified prior to heavy construction noise activities begin.	Residents are notified prior to heavy construction noise commencing.	During construction.	Entire project area
Traffic and Transportation				
 MM TRAN-1: Traffic Management Plan (supersedes APM TRAN-1). A Traffic Management Plan shall be prepared upon determination of the final construction schedule and precise locations and durations of lane closures and other project details. Measures to be included in the plan that would allow for: Safe vehicle passage shall adhere to the California Manual on Uniform Traffic Control Devices. Avoidance of truck queuing on South McCall Avenue of trucks waiting to enter the substation construction site. Potential measures include: 	CPUC verifies that PG&E prepares and implements a Traffic Management Plan. CPUC verifies that PG&E implements measures to avoid queueing of trucks and vehicles on South McCall Avenue. PG&E ensures that vehicle speeds do not go above 15 mph on unpaved roadways used to access the site.	Avoid queuing on South McCall Avenue. Vehicle speeds remain below or at 15 mph. Allow for safe vehicle passage during lane closures. Repair all damaged roads pre-project pavement conditions.	Prior to construction – prepare a Traffic Management Plan and document pre-project road conditions. During construction – implement Traffic Management Plan Post construction – document road conditions and repair damaged roadways	Substation site an
 Flaggers and/or signage to halt traffic and direct traffic at lane closures and to allow traffic to pass when construction is halted. Scheduling lane closures at off-peak times. Notification of emergency services providers of the timing, location, and duration of lane closures. Requirement that emergency vehicle access is maintained at all times. Scheduling construction deliveries and employee arrival to be spread out throughout the day. Implementing traffic control within the substation site to move vehicles to allow arriving vehicles to enter the site. The Traffic Management Plan shall also include the following measures: Limit Vehicle Speeds: Vehicle speeds shall be limited to 15 miles per hour on unpaved roadways used to access the site during construction. PG&E shall notify owners of property on which internal access roads are located at least one week in advance that the internal access road will be used for construction 	CPUC verifies that PG&E posts signage along South McCall Avenue and East Jensen Avenue when there is the possibility of slow trucks exiting the site. Signage shall adhere to the California Manual on Uniform Traffic Control Devices. CPUC verifies that PG&E repairs any roads damaged by project vehicle traffic to pre-project conditions; and verifies that PG&E documents roadway conditions before and after construction along East Jensen			

Location	Responsible Agency			
t area.	PG&E, CPUC			
t area.	PG&E, CPUC			
t area.				
t died.	PG&E, CPUC			
te and South McCall Avenue	PG&F CPUC			

		Monitoring/Reporting				
	APMs and Mitigation Measures	Action	Effectiveness Criteria	Timing	Location	Responsible Agency
traffic.	*	Avenue and South McCall				
Slow Truck	Narning: During truck delivery and exit hours, PG&E shall post	Avenue.				
signage at ap	propriate locations (e.g., along South McCall and East Jensen					
Avenues) wa	rning drivers when there is a possibility for slow trucks to exit the					
substation sit	e onto South McCall Avenue. Signage shall adhere to the					
California Ma	nual on Uniform Traffic Control Devices.					
Road Dama	e Repair: PG&E shall repair to pre-project conditions any roads					
damaged by	project vehicle traffic. PG&E shall document roadway conditions					
with photogra	physic prior to project activities along East Jensen Avenue and South					
McCall Aven	ie adjacent to the project area and extending 0.25 miles from the					
project area.	PG&E shall also take photographs after the project is completed					
and after any	repairs that document restoration of pre-project pavement					
conditions.						
Emergency	Service Provider Notification: PG&E shall notify the provider of					
the location,	date, time, and duration of the lane closure. PG&E shall make					
provisions to	maintain emergency vehicle access at all times in coordination with					
local emerge	ncy service providers, such as allowing for bypass of slow vehicle					
traffic during	lane closures.					
0						
To the extent that	compliance with applicable permit requirements, e.g., obtaining the					
required encroach	ment permit from Fresno County, would reduce identified					
significant traffic ir	npact(s) consistent with the performance standards set forth in MM					
TRAN-1, PG&E m	ay submit such permit(s) in lieu of addressing that impact, subject					
to review and app	roval by CPUC prior to the start of construction.					
Key:						
APM	applicant proposed measure					
BIMP	best management practices					
CARD	California Department of Fish and Wildlife					
CPUC	California Public Utilities Commission					
CFR	Code of Federal Regulations					
CRMTP	Cultural Resources Monitoring and Treatment Plan					
dBA	A-weighted decibels					
HMMP	Hazardous Materials Management Plan					
hp IS/MND	horsepower					
IS/IVINP MM	mitigation measure					
mnh	miles per hour					
NCP	National Oil and Hazardous Substances Pollution Contingency Plan					
NPDES	National Pollutant Discharge Elimination System					
PG&E	Pacific Gas and Electric Company					
PRMMP	Paleontological Resources Monitoring and Mitigation Plan					
KWQCB	Regional Water Quality Control Board					
	Sullur Nexatiuoride San Joaquin Vallov Air Pollution Control District					
SPCC	Sail Juaquin Valley Air Fundion Control District					
SWPPP	Stormwater Pollution Prevention Plan					
USEPA	U.S. Environmental Protection Agency					
USFWS	U.S. Fish and Wildlife Service					

1 The CPUC-designated Project Manager and environmental monitor will keep a record of any incidents of

- 2 non-compliance with mitigation measures, APMs, or other conditions of project approval, which will be
- 3 supplied to the applicant and the CPUC. In all instances of non-compliance, the CPUC's designated
- 4 Project Manager or environmental monitor may discuss necessary compliance corrections with the
- 5 construction supervisor and/or the applicant's Project Manager. Continued non-compliance or non-
- 6 compliance that puts environmental resources at risk will be reported immediately to the CPUC Project
- 7 Manager. The CPUC (-designated environmental monitor, designated Project Manager, or the CPUC
- 8 Project Manager) may decide to halt work due to non-compliance.
- 9 10

6.1 Minor Project Refinements

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12 This section describes the CPUC's process for staff approval of Minor Project Refinements (MPRs) that

13 may be necessary due to changes needed after the applicant's final engineering of elements of the

14 proposed project. During the course of construction, circumstances may arise that require minor

15 deviations from the project as approved. The CPUC, along with the IS/MND environmental monitors,

16 would evaluate any proposed deviations from the approved project to ensure they are consistent with

- 17 CEQA requirements. Depending on its nature, a requested deviation would be processed as a Minor
- 18 Project Change (MPC) or be the subject of a Petition for Modification (PFM) submitted by the applicant 19 to the CPUC.
- 19 to the 20

21 MPCs would be strictly limited to minor project changes that do not trigger additional permit

requirements, do not increase the severity of a significant impact or create a new significant impact, and are within the geographic scope of the IS/MND.

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If a project change would create or have the potential to create a new significant impact, increase the severity of a significant impact, or occur outside the geographic area evaluated in the IS/MND, PG&E would be required to submit a PFM. The CPUC would evaluate the PFM under CEQA, as appropriate, to determine what form of supplemental environmental review would be required.

30 6.2 Dispute Resolution

The following procedure will be observed for dispute resolution:

- **Step 1.** Disputes and complaints (including those of the public) should be directed first to the CPUC-designated Project Manager for resolution. The CPUC Project Manager will attempt to resolve the dispute.
- Step 2. Should this informal process fail, the CPUC Project Manager may initiate enforcement or compliance action to address deviations from the proposed project or adopted MMRP.
- 39 • **Step 3.** If a dispute or complaint regarding the implementation or evaluation of the MMRP cannot 40 be resolved informally or through enforcement or compliance action by the CPUC, any affected 41 participant in the dispute or complaint may file a written "notice of dispute" with the CPUC 42 Executive Director or his/her designee. This notice should be filed in order to resolve the dispute in a timely manner, with copies concurrently served on other affected participants. Within 10 43 days of receipt, the CPUC Executive Director or designee(s) shall meet and confer with the filer 44 45 and other affected participants for the purposes of resolving the dispute. The CPUC Executive Director shall issue an Executive Resolution describing his/her decision, and serve it on the filer 46 47 and other affected participants.

• **Step 4.** If one or more of the affected parties is not satisfied with the decision as described in the resolution, such party(ies) may appeal it to the CPUC via a procedure to be specified by the CPUC.

Parties may also seek review by the CPUC through existing procedures specified in the CPUC Rules of
Practice and Procedure for formal and expedited dispute resolution, although a good faith effort should
first be made to use the foregoing procedure.

9 6.3 Final Mitigation Monitoring and Reporting Plan

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11 A Final MMRP will be prepared for the Final IS/MND that incorporates any changes to the proposed

12 project or mitigation measures that are made as a result of public review of the Draft IS/MND and further 13 consideration of the proposed projects by the CPUC.