

PG&E's Paradise Mitigation Database

<p><i>Timing of Action:</i> Construction</p>	<p><i>Mitigation Measure</i></p>	<p><i>Implementation Actions</i></p>	<p><i>Monitoring Requirements</i></p>	<p><i>Status</i></p>
<p>Topic: Air Quality</p>				
<p>III-1:</p> <p>All plant debris generated by clearing and pruning activities during construction and operation of the proposed project shall be disposed of in a manner other than controlled burning.</p>		<p>PG&E to clear and prune as described</p>	<p>CPUC Environmental Monitor site visit to verify compliance.</p>	<p>*Plant debris has been chipped and spread over designated areas as agreed by the Town to minimize the growth of broom along the Trailway. Larger material was offered to the landowners and/or cut for firewood at their request. Larger material not wanted by the landowners was chipped and spread as described above.</p>
<p>MM 4-2:</p> <p>Although the fugitive dust associated with project construction is insignificant relative to the ambient PM10 levels, the following measures have been incorporated into the project to ensure PM10 emissions are minimized during construction activities:</p> <ul style="list-style-type: none"> --All construction areas, unpaved access roads, and staging areas will be watered as needed during dry soil conditions, or soil stabilizers will be applied. --All trucks hauling soil and other loose material will be covered or have at least two feet of freeboard. Construction vehicles will use paved roads to access the construction site wherever possible. --Vehicle speeds will be limited to 15 mph on unpaved roads and construction areas, or as required to control dust. --Streets will be cleaned daily if visible soil material is carried onto adjacent public streets. --Soil stabilizers will be applied to inactive construction areas on an as needed basis. --Exposed stockpiles of soil and other excavated materials will be enclosed, covered, watered twice daily, or applied with soil binders as needed. --Vegetation will be replanted in disturbed areas as quickly as possible following the completion of construction. 		<p>PG&E to operate as described</p>	<p>CPUC Environmental Monitor site visit to verify compliance.</p>	<p>Dust control measures will be implemented as necessary throughout construction. Vehicle speed and traffic has been limited when working off the pavement to minimize dust. Small crews and limited trips on and off pavement have kept the concentration of airborne material to a minimum. The project's Vegetation Management, Erosion Control and Restoration Plan provides details on replanting of disturbed areas. Replanting will take place during the fall or spring following construction, weather and soil conditions permitting.</p>

Topic: Biological Resources

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<p><i>Timing of Action:</i> Construction</p>	<p><i>Mitigation Measure</i></p>	<p><i>Implementation Actions</i></p>	<p><i>Monitoring Requirements</i></p>	<p><i>Status</i></p>
---	----------------------------------	--------------------------------------	---------------------------------------	----------------------

Topic: Biological Resources

MM 5-6: (con)

To prevent destruction of active nests of bird species that are either special-status or protected by the Migratory Bird Treaty Act, all trees and shrubs should be removed outside the nesting season (i.e., vegetation removal for the project should take place between August and February).

PG&E to submit letter report documenting removal timing

CPUC to review report

See Measure IV-1 regarding removal of vegetation related to the nesting period.

MM 5-9: (con)

PG&E will comply with Endangered Species Act requirements for mitigating impacts to valley elderberry longhorn beetle. PG&E will avoid and protect the habitat whenever possible in the "core" and "buffer zones." The core area is within 20 feet of the dripline of any elderberry plants; the buffer zone is within 100 feet of any elderberry plant. Protective measures to be followed are:

--Fence and flag all areas to be avoided. Provide a minimum construction setback of at least 20 feet from the dripline of each elderberry plant and a minimum setback from vegetation clearing of 100 feet from any elderberry plant.

--Brief all workers on the need to avoid damaging the elderberry plants and the possible penalties for not complying with these requirements.

--Put up signs identifying the location of the habitat to be avoided.

--Restore damage done, including providing erosion control and revegetating with appropriate native species.

--No pesticides or fertilizers should be used in the core and buffer areas.

Where it is not possible to avoid elderberry plants, they shall be transplanted if they are likely to survive the transplant effort. For every elderberry stem that is 1.0" or greater in diameter at ground level that is adversely affected, mitigation acceptable to the USFWS will be developed. All necessary permits will be obtained, in consultation with USFWS.

PG&E shall comply with all terms

CPUC Environmental Monitor site visit to verify compliance.

See Mitigation Measure MM 5-9 (pre-con).

Topic: Cultural and Historic Resources

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
Topic: Cultural and Historic Resources				
V-1: (con) If previously unidentified cultural materials and/or features are discovered during construction, all work in the immediate area will cease, and PG&E's Cultural Resources Specialist and CPUC's Environmental Monitor will be immediately contacted for identification and evaluation. In accordance with Article 5, Section 15064.5.f. of the CEQA Guidelines, the specialist shall prepare a site-specific mitigation plan if the materials and/or features are determined to be significant and cannot be avoided. The mitigation plan shall be subject to review and approval by local, State, and Federal agencies before any archaeological mitigation construction begins. If human remains are encountered, PG&E's Cultural Resources Specialist and the County Coroner will be contacted for identification and appropriate measures will be undertaken in accordance with Article 5, Section 15064.5.e of the CEQA Guidelines.		PG&E to provide training and document (with agenda and list of attendees) to CPUC	CPUC to review documentation; CPUC Environmental Monitor site visit to verify compliance.	See Mitigation Measure V-1: (pre-con).
V-2: (con) In the event that PG&E needs to use land in undisturbed areas that it does not own for laydown or staging areas off the power line ROW, PG&E will be required to conduct all required surveys with appropriate mitigation consistent with the applicant proposed measures listed in Table B-1 of the Initial Study to reduce all impacts associated with development of the laydown or staging area to non-significant levels. Survey reports and proposed mitigation actions shall be submitted to the CPUC for review and approval. The site may not be used by PG&E until PG&E has demonstrated to the CPUC that its action will reduce all potential impacts to a level that would be less than significant.		PG&E to provide reports to CPUC	CPUC to review and approve PG&E's survey reports.	Surveys to be scheduled and performed as soon as additional needs, if any, are identified. A report will be provided to CPUC documenting these surveys and avoidance of project impacts.
MM 6-4: (con) Should ground disturbing activity become necessary outside of the cultural resources survey area identified above (Section 6.1), any affected areas will be surveyed by PG&E's Cultural Resources Specialist and CPUC's Environmental Monitor prior to initiating the activity in order to ensure that no cultural resources sites will be impacted. (NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)		PG&E to submit survey report to CPUC	CPUC to review report	This is included as a pre-construction measure in the Neg. Dec. (see Mitigation Measure V-2 and MM 6-4: (pre-con). Mitigation will be implemented during construction if necessary.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Cultural and Historic Resources				
MM 6-3: (con) If previously unidentified cultural materials and/or features are discovered during construction, all work in the immediate area will cease, and PG&E's Cultural Resources Specialist and CPUC's Environmental Monitor will be immediately contacted for identification and evaluation. In accordance with Article 5, Section 15064.5.f. of the CEQA Guidelines, the specialist will determine appropriate mitigation measures if the materials and/or features are determined to be significant and cannot be avoided. If human remains are encountered, PG&E's Cultural Resources Specialist and the County Coroner will be contacted for identification and appropriate measures will be undertaken in accordance with the Native American Graves Protection and Repatriation Act (NAGPRA) and Article 5, Section 16054.5.e of the CEQA Guidelines.		PG&E to provide training and document (with agenda and list of attendees) to CPUC	CPUC to review documentation; CPUC Environmental Monitor site visit to verify compliance.	This is included as a pre-construction measure in the Neg. Dec. (see V-1). Mitigation will be implemented during construction if necessary. See Mitigation Measure MM 6-3: (pre-con).
(NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)				
<i>Topic:</i> Geology and Soils				
MM 8-2: Over excavation and replacement with engineered fill or other ground treatment will be implemented where necessary.		PG&E to comply during construction	CPUC Environmental Monitor site visit to verify compliance	To date, over excavation or replacement with engineered fill has not been necessary.
<i>Topic:</i> Hydrology and Water Quality				
MM 9-3: New dirt and gravel power line access roads are proposed in rural, undeveloped areas where waterways occur. No culverts or outfalls exist in the vicinity of the proposed roads. Best Management Practices for road construction in watershed areas, including water bars and detention basins, will be used to manage runoff volumes and rates as closely as possible to pre-project conditions. At each pole site, a concrete foundation approximately six feet in diameter and up to 16 feet deep will be constructed. This impervious material will restrict stormwater infiltration within the foundation footprint. However, impact from construction of the pole foundations will be insignificant, because the total area impacted by pole foundations will be very small.		PG&E to construct as described	CPUC Environmental Monitor site visit to verify compliance	One new access road approximately 50' long and 15' wide has been constructed from an existing access road to a pole location (located between Skyway and Neal Road). Two waterbars were installed along the road to divert water from the disturbed area to a well vegetated area. Permanent erosion control will be installed as described in the project's Vegetation Management, Erosion Control and Restoration Plan.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Noise				
MM 11-2: "Quiet" equipment (i.e., equipment that incorporates noise control elements into the design; compressors and jackhammers have "quiet" models) will be used during construction.		PG&E to implement as defined	Environmental Monitor site visit to verify compliance	Construction equipment has been limited to an auger, rubber-tired backhoe, boom truck, and crew pick-up truck. Dump trucks and cement trucks are scheduled to minimize the number of trips to the project area and are generally made less than once a day. Equipment is run intermittently and turned-off when not in use.
MM 11-5: Temporary sound barriers or sound curtains will be employed, if necessary, under the following conditions: --Construction within 100 feet of businesses --Sensitive receptors will be exposed to construction noise for more than one day		PG&E to implement as defined	Environmental Monitor site visit to verify compliance	Foundation hole drilling occurred within 100 feet of the Skyway Motel on Skyway. This activity was coordinated with the property owner. Temporary sound barriers were not necessary due to the short duration of construction and limited equipment at the site. This mitigation measure will be implemented during subsequent activities if necessary.
MM 11-1: Compressors and other small stationary equipment will be shielded with portable barriers as necessary to reduce noise to nearby receptors.		PG&E to implement as defined	Environmental Monitor site visit to verify compliance	Mitigation Measure has not been applicable to construction activities or equipment to date.
MM 11-3: Equipment exhaust stacks/vents will be directed away from buildings when feasible. (NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)		PG&E to implement as defined	Environmental Monitor site visit to verify compliance	Mitigation Measure has not been applicable to construction activities or equipment to date.
MM 11-4: Truck traffic will be routed away from noise-sensitive areas where feasible.		PG&E to implement as defined	Environmental Monitor site visit to verify compliance	Truck traffic has been minimal to date and has had a negligible effect on ambient noise levels in the vicinity of the project area.

Topic: Public Health and Safety

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
--	----------------------------------	--------------------------------------	---------------------------------------	----------------------

Topic: Public Health and Safety

<p>MM 12-1:</p> <p>PG&E vehicles used in construction activities will be equipped with portable fire extinguishers weighing five pounds or more, and/or a five gallon, back carried extinguisher. In addition to any requirements imposed by the Butte County and Paradise Fire Departments, the following measures will be implemented during the construction of the power line:</p> <p>--In accordance with the 1994 Uniform Fire Code Section 1109.5, PG&E will inform its construction and maintenance workforce that "Lighted matches, cigarettes, cigars or other burning objects shall not be discarded in such a manner that could cause ignition of other combustible material."</p> <p>--Any motor, engine, welding equipment, cutting torch, grinding device or equipment from which a spark, fire or flame may originate will not be used without first (a) clearing away all flammable material for a distance of 10 feet, and (b) having on hand a round-point shovel with an overall length of not less than 46 inches and a water-filled backpack pump fully equipped and ready to use. This does not apply to power saws and other portable tools powered by a gasoline-fueled internal combustion engine (Public Resources Code 4427).</p> <p>--Any portable gasoline-powered tool (chainsaws, etc.) will not be used within 25 feet of any flammable materials without providing one round-point shovel with an overall length of not less than 46 inches or a fire extinguisher having a rating of 2-BC or larger. The fire tools must be unobstructed and within 25 feet of the tool operation at all times (PRC 4431).</p> <p>--Motor vehicles will not be parked or operated outside of cleared work areas except for the specific purpose of vegetation clearing.</p> <p>Construction equipment and fire fighting equipment shall meet the following requirements:</p> <p>--The exhausts of all equipment powered by gasoline, diesel, or other hydrocarbon fuel will be equipped with effective spark arrestors.</p> <p>--The spark arrestor must prevent the escape from the exhaust of carbon or other flammable particles over 0.0232 of an inch.</p> <p>--Motor trucks, truck tractors, buses, and passenger vehicles, except motorcycles, are not subject to this provision if their exhaust systems are equipped with mufflers (PRC 4442).</p> <p>--In addition to the requirements of PRC 4427 described above, all welding rigs shall be equipped with a minimum 20 lb. (or 2-10 lb.) fire extinguisher and a minimum of 5 gallons of water in a fire-fighting apparatus.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>PG&E vehicles are equipped with fire extinguishers, a Pulaski, and a long-handled shovel. In addition, a trailer-mounted water tank is stored at the yard on Elliot Road. Construction equipment and fire fighting equipment used on this project meet the standards outlined for this mitigation measure.</p>
---	--	---	--	---

Topic: Transportation and Traffic

*** Mitigation Measure has been completed.**

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Transportation and Traffic				
<p>MM 14-1: (con)</p> <p>Construction activities shall occur on road shoulders or in non-traffic lanes, where feasible, to avoid unnecessary lane closures.</p> <p>Coordination shall occur between PG&E and the Butte County and Town of Paradise Departments of Public Works to minimize conflicts with the design, location, and construction of other projects.</p> <p>PG&E shall notify Town of Paradise and Butte County residents of scheduled lane closures.</p> <p>PG&E shall use traffic control personnel during lane closures. Standard traffic control techniques will include flagmen, warning signs, cones, and lights.</p>		<p>PG&E to implement as defined; provide CPUC documentation of coordination with local agencies</p>	<p>Environmental Monitor site visit to verify compliance; CPUC to review coordination documentation</p>	<p>See Mitigation Measure 14-1: (pre-con).</p>
<p>MM 14-4: (con)</p> <p>--The Butte County Transportation Authority shall be notified of lane closures that will potentially affect bus stops in the project area.</p> <p>--The Paradise Unified School District and the Town of Paradise shall be notified of lane closures that will potentially affect bus stops in the project area.</p>		<p>PG&E to implement as defined; provide CPUC documentation of coordination with local agencies</p>	<p>Environmental Monitor site visit to verify compliance; CPUC to review coordination documentation</p>	<p>See Mitigation Measure 14-4: (pre-con).</p>
<p>MM 14-2:</p> <p>Access to all residences and properties near the project will be maintained at all times.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>To date, all roads driveways, and the Trailway have remained open throughout construction.</p>

Topic: Utilities and Service Systems

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Utilities and Service Systems				
MM 7-1: (con)	Mitigation measures will ensure that impacts to other utilities will be less than significant: --PG&E will conduct surveys prior to construction to locate underground and overhead utilities. All utilities near project facilities will be put on the construction plan maps. --During construction, before any ground disturbance occurs, Underground Service Alert (USA) will be contacted to verify the location of existing underground utilities. --Representatives from non-PG&E utilities will be notified in advance of construction if construction will be occurring near their lines, and PG&E will coordinate with them. --PG&E will locate poles and string conductors at a safe distance from intersecting and adjacent power line structures, conductors, and telephone wires in accordance with the distances specified in the CPUC General Order No. 95.	PG&E to comply with stated requirements	CPUC to review documentation; CPUC Environmental Monitor site visit to verify compliance.	Surveys complete. Notifications will be made and documented by crew foremen during construction.
<i>Topic:</i> Visual Resources				
MM 15-4:	To reduce the need for vegetation clearing and pruning along the Paradise Memorial Trailway and Neal Road, PG&E will site power line poles such that conductors use the clear space along the trail and roadway as much as practicable. PG&E will site power line poles away from the trail as much as practicable to allow vegetative screening of the base of the poles as seen from the trail. (NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)	PG&E to implement as defined	Environmental Monitor site visit to verify compliance	*This mitigation measure has been incorporated into the design of the project.
MM 15-6:	To reduce the contrast and dominance of the Paradise Substation as seen from the Paradise Memorial Trailway and the Paradise High School baseball field, PG&E will paint the existing block wall a non-contrasting, and non-reflective (i.e., flat) color to match the foreground color of the ponderosa pine forest. PG&E will select colors as determined in the field using the Munsell Soil Color Coding.	PG&E to implement as defined	Environmental Monitor site visit to verify compliance	PG&E will consult with the Town to determine an appropriate color to paint the existing block wall based on the Munsell Color Chart.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

Timing of Action: Construction	Mitigation Measure	Implementation Actions	Monitoring Requirements	Status
---	---------------------------	-------------------------------	--------------------------------	---------------

Topic: Visual Resources

<p>MM 15-3: (con)</p> <p>To reduce the perceived scale of power poles, to compensate for the loss of shade, and to mitigate for the loss of privacy to adjacent residences along the paved portions of the Paradise Memorial Trailway, PG&E will:</p> <p>--Prior to project construction, prepare revegetation planting plans and specifications in coordination with the Town of Paradise. Emphasize design goals of using native shrubs of sufficient height to screen the trail user from adjacent land uses; provide low trees that could be easily maintained to reflect power line maintenance and fire management guidelines yet also provide shade on the trail; and screen the base of the power line poles as seen from the trail.</p> <p>--During the first spring after project construction, implement revegetation designs. Maintain plants, until re-established, for a two-year establishment period.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>See Mitigation Measure 15-3: (pre-con) for the pre-construction component of this mitigation measure. Native trees have been propagated at local nurseries and are scheduled to be planted during October and November, 2001 by a revegetation contractor. The contractor will follow the guidelines outlined in the project's Vegetation Management, Erosion Control and Restoration Plan. Activities will be coordinated between the planting and powerline crews to ensure that the trees are not damaged during construction.</p>
---	--	---	--	--

(NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)

<p>MM 15-1: (con)</p> <p>To reduce the potential for reflection of sunlight from project facilities, reduce color contrasts, and visually unify the project with the surrounding characteristic landscape, PG&E will:</p> <p>--Throughout the project area, though not standard practice, use only non-specular conductors that do not reflect sunlight.</p> <p>--As seen from the Paradise Memorial Trailway and Skyway, use self-weathering steel poles. Self-weathering steel poles will oxidize over time thereby reducing reflection and color contrasts.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>This mitigation measure has been incorporated into the design of the project.</p>
--	--	---	--	--

Timing of Action: Post-construction	Mitigation Measure	Implementation Actions	Monitoring Requirements	Status
--	---------------------------	-------------------------------	--------------------------------	---------------

Topic: Biological Resources

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Post-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
---	----------------------------------	--------------------------------------	---------------------------------------	----------------------

Topic: Biological Resources

<p>MM 5-4:</p> <p>To reduce impacts to the riparian habitat along Segment 3, the width of the clearing required for vehicles will be minimized. After construction, the area disturbed will be revegetated with native species found in that drainage to a condition similar to that found prior to disturbance. The noxious plant Himalayan blackberry will be removed from the revegetation site and from up to 25 feet from the revegetation areas. The revegetation will be designed, conducted, and monitored by a qualified botanist or revegetation specialist. Impacts to riparian and freshwater seep vegetation in the northern and southern tributaries of Nance Creek (Segment 3) will be avoided. Construction equipment will cross these drainages in areas devoid of vegetation. If disturbance to vegetation cannot be avoided, vegetation will be restored to pre-construction conditions under the direction of a qualified specialist in wetland restoration.</p>		<p>PG&E to submit revegetation proposal and document completed revegetation actions</p>	<p>CPUC to review report</p>	<p>PG&E has utilized an approved access road off Skyway and planned construction to avoid the riparian habitat along Segment 3. Construction equipment will not be required to cross these drainages.</p>
--	--	---	------------------------------	---

Topic: Public Health and Safety

<p>MM 12-3:</p> <p>PG&E will adhere to the CPUC's General Order No. 95 concerning the requirements for maintaining appropriate tree clearances from power line facilities. PG&E will conduct routine surveillance of the power line, monitoring tree growth to ensure that safety and operation requirements are adhered to.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>To be implemented during the operation and maintenance phase of the project.</p>
--	--	---	--	---

Topic: Transportation and Traffic

<p>MM 14-3:</p> <p>PG&E will repair and restore damage to public roads and nearby areas caused by project construction.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>PG&E has met with the Town and discussed repairs of the Trailway and roads. A walk through will be conducted following construction to determine where repairs will be required.</p>
---	--	---	--	---

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
--	----------------------------------	--------------------------------------	---------------------------------------	----------------------

Topic: Air Quality

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

Timing of Action: Pre-construction	Mitigation Measure	Implementation Actions	Monitoring Requirements	Status
Topic: Air Quality				
MM 4-1: All personnel working on the project will be trained prior to starting work on methods for minimizing air quality impacts during construction.		PG&E to provide training and document (agenda and list of attendees) to CPUC	CPUC to review documentation	Attendee sign-in lists will be submitted to the CPUC on a regular basis throughout construction. This mitigation measure is on-going.
MM 4-3: Although short-term construction vehicle emissions are minimal relative to the ambient emission levels and would not result in significant impacts, the following measures will be incorporated into the project to reduce emissions during construction activities: --Carpooling will be encouraged among construction workers through contractor bid specifications and project orientation training for workers. --Vehicles used in construction activities will be tuned per the manufacturers' recommended maintenance. --Vehicle idling time will be minimized.		PG&E to document in letter to CPUC	CPUC to review letter	PG&E's training program encourages workers to carpool to the project site and minimize vehicle idling time. Attendee sign-in lists will be submitted to the CPUC on a regular basis throughout construction. This mitigation measure is on-going.

Topic: Biological Resources

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
---	---------------------------	-------------------------------	--------------------------------	---------------

Topic: Biological Resources

MM 5-9: (pre-con)

PG&E will comply with Endangered Species Act requirements for mitigating impacts to valley elderberry longhorn beetle. PG&E will avoid and protect the habitat whenever possible in the "core" and "buffer zones." The core area is within 20 feet of the dripline of any elderberry plants; the buffer zone is within 100 feet of any elderberry plant. Protective measures to be followed are:

- Fence and flag all areas to be avoided. Provide a minimum construction setback of at least 20 feet from the dripline of each elderberry plant and a minimum setback from vegetation clearing of 100 feet from any elderberry plant.
- Brief all workers on the need to avoid damaging the elderberry plants and the possible penalties for not complying with these requirements.
- Put up signs identifying the location of the habitat to be avoided.
- Restore damage done, including providing erosion control and revegetating with appropriate native species.
- No pesticides or fertilizers should be used in the core and buffer areas.

Where it is not possible to avoid elderberry plants, they shall be transplanted if they are likely to survive the transplant effort. For every elderberry stem that is 1.0" or greater in diameter at ground level that is adversely affected, mitigation acceptable to the USFWS will be developed. All necessary permits will be obtained, in consultation with USFWS.

PG&E shall comply with all terms

CPUC
Environmental
Monitor site visit to verify compliance.

A 20-foot buffer zone has been established. PG&E has copied CPUC the letters sent to the USFWS documenting the protocol for protecting elderberry plants. Due to reoccurring vandalism of the ribbon marking the buffer zone, the ribbon has been left down. Single lath and flagging have been installed at each end of the buffer zone to establish a less conspicuous visual boundary. The ribbon around the perimeter of the buffer zone will be reinstalled as new crews move into the area.

*** Mitigation Measure has been completed.**

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Biological Resources				
<p>MM 5-1:</p> <p>PG&E will provide a qualified botanist to survey the proposed power line in Butte County for special-status plants that bloom in April or May and that may occur in the project area. Based on the presence of suitable habitat, these species include Butte County fritillary (<i>Fritillaria eastwoodiae</i>), Red Bluff dwarf rush (<i>Juncus leiospermus</i> var. <i>leiospermus</i>) and veiny monardella (<i>Monardella douglasii</i> ssp. <i>venosa</i>). A survey is not required in the Town of Paradise because no suitable habitat for these species is found in the Town of Paradise limits along the power line route.</p> <p>If any of these or any other special-status species are found in the power line route, PG&E will ensure avoidance of these populations through one or more of the following techniques:</p> <ul style="list-style-type: none"> --Relocating power poles or laydown areas --Careful removal of canopy trees --Temporary construction fencing --Construction worker training and construction monitoring by a qualified botanist <p>The method(s) used to avoid populations of special-status plants will be proposed by PG&E Technical and Ecological Services and approved by the California Department of Fish and Game prior to implementation. If populations of special-status plants cannot be avoided, PG&E will modify the project to minimize impacts to special-status plants. In addition, PG&E will design and conduct mitigation for direct impacts to special-status plants in proportion to the status and rarity of the species and the magnitude of the impact. Such mitigation will be approved prior to implementation by the CDFG and the CNPS.</p>		<p>PG&E to perform surveys & submit survey report to CPUC, documenting avoidance proposals</p>	<p>CPUC Environmental Monitor to verify surveys; CPUC to review documentation</p>	<p>* Final surveys completed 5/19/00. No populations of sensitive plant species within the proposed area of disturbance. Copy of report provided to CPUC on 1/4/01. This mitigation measure has been completed.</p>
<p>MM 5-8:</p> <p>To reduce the chance of affecting pallid bat roosts during winter hibernation or during reproduction, if hollow trees are to be removed, they will be inspected first to insure that no bat roosts are present. Removal of a tree that provides roosting cover will be delayed until the tree can be removed without impacts to pallid bats. Trees containing bats will not be removed until they are unoccupied.</p>		<p>PG&E shall inspect trees for bats</p>	<p>CPUC Environmental Monitor to verify inspections;</p>	<p>* PG&E's biological consultant surveyed trees along the project route for potential pallid bat roosts prior to tree clearing operations and a protocol was developed for removing potential bat roosting trees and ensuring that the trees were unoccupied. Seven potential bat roosting trees were removed on 2/27/01 and 2/28/01 in accordance with the protocol. No evidence of bats was noted during this operation. This mitigation measure has been completed.</p>

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Biological Resources				
MM 5-7: To mitigate loss of biological diversity and to prevent the further spread of French broom on the Paradise Memorial Trailway, PG&E will develop a vegetation management plan in consultation with the Town of Paradise to reduce the amount of this noxious weed present.		PG&E to submit vegetation management plan to CPUC & Town of Paradise	CPUC to review report	* This mitigation measure has been completed.
MM 5-3: In order to assess the impacts on special-status amphibians, habitat assessments will be conducted prior to construction activities. Due to the seasonal nature of the water courses, habitat assessments and surveys should be completed immediately prior to construction activities rather than during a previous year or alternate season to best assess true impacts on a species. Based on the results of the initial habitat assessments, species-specific surveys may be completed. In any case and regardless of the results of the surveys, impacts to any identified special-status species will be avoided or at least minimized to a level of no significance by implementing the mitigation procedures described below.		PG&E to perform surveys and document findings in a letter to CPUC	CPUC to review report	Habitat assessments and surveys completed 4/12/00 and a report was submitted to the CPUC on 1/5/01. Additional surveys were completed on 6/28/01. To date PG&E has avoided crossing the drainages and has planned construction access to avoid crossing the drainages throughout all stages of construction.
MM 5-5: To reduce the chance of spreading or introducing noxious plants in the project area, PG&E will ensure that all construction vehicles are thoroughly washed prior to entering wildlands (i.e., prior to going off-road). In the growing season after construction, a qualified biologist will survey the power line corridor for new infestations of yellow star thistle or substantial new infestations of any other noxious weeds, including those listed in Table 5-2. If such infestations are found, PG&E will eradicate them using proven methods such as herbicides or biological control agents. PG&E will coordinate these efforts with the Butte County Department of Agriculture.		PG&E to survey for Thistle, and document subsequent actions in a letter	CPUC to review report	Noxious weed control was addressed in the CPUC Weekly Status Report dated June 15, 2001. Since yellow star thistle was noted throughout the project area, an effort will be made to reduce the potential of spreading this noxious weed to uninfested areas outside the project area. The Vegetation Management, Erosion Control and Restoration Plan identifies equipment/vehicle cleaning procedures. The plan was provided to the CPUC on 1/24/01. The pre-construction component of this mitigation measure has been completed.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Biological Resources				
<p>MM 5-2:</p> <p>If construction of the proposed project occurs outside the nesting season for special-status birds or birds protected by the Migratory Bird Treaty Act (i.e., if construction does not occur between March and July), no pre-construction mitigation will be required. If construction takes place during the nesting season for any of the species listed in Table 5-6 or for species protected under the Migratory Bird Treaty Act, pre-construction surveys should be conducted in late winter (February-March) to locate nests that could be destroyed during construction. These nests should be avoided, if possible. If they cannot be avoided nests should be removed before the adults return and begin reproduction.</p> <p>The wooden poles along Segments 4 and 5 that would be removed should be surveyed at the same time for evidence of cavities used by cavity nesting birds. Any cavities should be inspected thoroughly to insure that they harbor no wildlife. If a cavity is empty, it should be covered with sheet metal to prevent nesting. The wooden poles should be inspected shortly before removal to determine whether a cavity used by nesting birds is present at the time of construction (despite precautions taken). If a nest is present, the pole should be left in place until nesting is complete, if possible. If this is not possible, the section of pole containing the cavity should be mounted at a similar height on a pole set nearby.</p>		<p>PG&E to survey wood poles and document findings in a letter to CPUC</p>	<p>CPUC Environmental Monitor to verify surveys; CPUC to review documentation</p>	<p>Surveys for nest cavities within poles will be conducted immediately prior to pole removal and the results of the surveys will be provided to the CPUC. No poles are scheduled for removal until November, 2001.</p>
<p>MM 5-10:</p> <p>Should construction activity become necessary outside of the biological resources survey area identified above (Section 5.1), any affected areas will be surveyed by a qualified biologist prior to initiating the activity in order to ensure that no special-status biological resources will be impacted.</p>		<p>PG&E shall complete surveys and submit letter report to CPUC</p>	<p>CPUC to review report</p>	<p>Surveys will be scheduled and performed if additional workspace needs, if any, are identified. A report will be provided to CPUC documenting these surveys and avoidance of project impacts.</p>
<p>MM 5-11:</p> <p>To avoid further disturbance to riparian vegetation along Segment 3, maintenance access to the proposed 115kV power line and the existing 60kV power line will be from Neal Road and Skyline Boulevard but will not cross Nance Creek between the two access points except in emergencies. Vehicles will cross tributaries to Nance Creek only in areas devoid of vegetation.</p>		<p>PG&E to submit letter describing maintenance access proposal</p>	<p>CPUC to review letter</p>	<p>The project only crosses tributaries to Nance Creek. PG&E construction and maintenance vehicles will avoid crossing these drainages by utilizing an approved access road between the two tributaries.</p>

*** Mitigation Measure has been completed.**

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Biological Resources				
MM 5-6: (pre-con) To prevent destruction of active nests of bird species that are either special-status or protected by the Migratory Bird Treaty Act, all trees and shrubs should be removed outside the nesting season (i.e., vegetation removal for the project should take place between August and February).		PG&E to submit letter report documenting removal timing	CPUC to review report	Tree removal and trimming required for construction has been completed. If additional removal or trimming is necessary during the nesting season, PG&E's biologist will coordinating with PG&E's clearing supervisor to ensure that surveys are complete and no nesting birds are present prior to any clearing work.
<i>Topic:</i> Cultural and Historic Resources				
MM 6-4: (pre-con) Should ground disturbing activity become necessary outside of the cultural resources survey area identified above (Section 6.1), any affected areas will be surveyed by PG&E's Cultural Resources Specialist and CPUC's Environmental Monitor prior to initiating the activity in order to ensure that no cultural resources sites will be impacted. (NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)		PG&E to submit survey report to CPUC	CPUC to review report	* A report was sent to CPUC on 1/4/01 regarding the survey completed for the laydown area on Neal Road. This mitigation measure is complete, unless additional staging areas are required.
MM 6-1: The train depot and immediate vicinity shall be spanned by the power line if practicable to avoid potential indirect impacts to this structure.		PG&E to submit pole location design to CPUC	CPUC to review proposed pole locations	* Drawings of site and pole locations were submitted to CPUC 1/04/01. This mitigation measure has been completed.
V-2: (pre-con) In the event that PG&E needs to use land in undisturbed areas that it does not own for laydown or staging areas off the power line ROW, PG&E will be required to conduct all required surveys with appropriate mitigation consistent with the applicant proposed measures listed in Table B-1 of the Initial Study to reduce all impacts associated with development of the laydown or staging area to non-significant levels. Survey reports and proposed mitigation actions shall be submitted to the CPUC for review and approval. The site may not be used by PG&E until PG&E has demonstrated to the CPUC that its action will reduce all potential impacts to a level that would be less than significant.		PG&E to provide reports to CPUC	CPUC to review and approve PG&E's survey reports.	* Surveys will be scheduled and performed if additional needs, if any, are identified. A report was provided to CPUC on 1/4/01 documenting the survey for the laydown area on Neal Road and requesting approval by 1/22/01. This mitigation measure is complete, unless additional staging areas are required.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> <i>Pre-construction</i>	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Cultural and Historic Resources				
MM 6-2:	Prior to construction, all construction personnel will receive environmental training. Training will emphasize the importance of the cultural resource sites in the vicinity and discuss the possibility that previously unidentified cultural resources may become apparent during ground-disturbing activities, and how to respond if they are discovered.	PG&E to provide training and document (with agenda and list of attendees) to CPUC	CPUC to review documentation	All personnel are required to attend environmental training prior to working on the project. A copy of the training materials was provided to the CPUC in the 1/11/01 submittal. A list of attendees to the training program will be maintained throughout the project. This mitigation measure is on-going.
V-1: (pre-con)	If previously unidentified cultural materials and/or features are discovered during construction, all work in the immediate area will cease, and PG&E's Cultural Resources Specialist and CPUC's Environmental Monitor will be immediately contacted for identification and evaluation. In accordance with Article 5, Section 15064.5.f. of the CEQA Guidelines, the specialist shall prepare a site-specific mitigation plan if the materials and/or features are determined to be significant and cannot be avoided. The mitigation plan shall be subject to review and approval by local, State, and Federal agencies before any archaeological mitigation construction begins. If human remains are encountered, PG&E's Cultural Resources Specialist and the County Coroner will be contacted for identification and appropriate measures will be undertaken in accordance with Article 5, Section 15064.5.e of the CEQA Guidelines.	PG&E to provide training and document (with agenda and list of attendees) to CPUC	CPUC to review documentation; CPUC Environmental Monitor site visit to verify compliance.	Cultural resource protective measures and appropriate response to unidentified resources will be discussed in the environmental training program. A copy of the training materials was provided to CPUC in the 1/24/01 submittal. A list of attendees to the training will be maintained throughout the project. This mitigation measure is on-going.
XIII-1:	PG&E shall submit a report to the Town of Paradise which describes plans to accomplish the Town of Paradise's objectives to preserve the integrity and strength of the surface of the Memorial Trailway. The report shall be submitted to the Town of Paradise Public Works Department and the CPUC at least 30 days prior to the planned construction start date. Construction will not be allowed to commence along Segment 5 until the CPUC is satisfied that PG&E has addressed the concerns of the Town of Paradise regarding the trailway surface. At conclusion of project construction, the CPUC mitigation monitor will verify that all construction damage to the surface has been professionally repaired.	PG&E to provide report to the Town of Paradise and the CPUC	CPUC to review and approve PG&E's report.	PG&E has had continued discussions with the Town regarding Trailway protection and repair measures. The Trailway protection plan summarizing protection measures was submitted to the Town and the CPUC on 12/22/00. The pre-construction component of this mitigation measure has been completed.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Cultural and Historic Resources				
<p>MM 6-3: (pre-con)</p> <p>If previously unidentified cultural materials and/or features are discovered during construction, all work in the immediate area will cease, and PG&E's Cultural Resources Specialist and CPUC's Environmental Monitor will be immediately contacted for identification and evaluation. In accordance with Article 5, Section 15064.5.f. of the CEQA Guidelines, the specialist will determine appropriate mitigation measures if the materials and/or features are determined to be significant and cannot be avoided. If human remains are encountered, PG&E's Cultural Resources Specialist and the County Coroner will be contacted for identification and appropriate measures will be undertaken in accordance with the Native American Graves Protection and Repatriation Act (NAGPRA) and Article 5, Section 16054.5.e of the CEQA Guidelines.</p> <p>(NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)</p>		<p>PG&E to provide training and document (with agenda and list of attendees) to CPUC</p>	<p>CPUC to review documentation; CPUC Environmental Monitor site visit to verify compliance.</p>	<p>This is included as a pre-construction measure in the Neg. Dec. (see V-1). Mitigation will be implemented during construction if necessary. A copy of the training materials was provided to the CPUC in the 1/11/01 submittal. The pre-construction component of this mitigation requirement has been completed.</p>
<i>Topic:</i> Geology and Soils				
<p>MM 8-1:</p> <p>A geologist or geotechnical engineer will evaluate slope stability and assist in selection of power line pole locations in steep slope areas to eliminate or minimize potential impacts from landslides, rock falls, or other slope instability. All poles will conform with the structural requirements of the CPUC's General Order 95.</p>		<p>PG&E to submit letter describing areas of geologic concern and actions taken</p>	<p>CPUC to review report</p>	<p>* Pole locations were based on standard design criteria, including the geologic and slope stability in the area. PG&E has addressed the requirements in a letter to the CPUC 1/11/01. Poles generally will not be located on steep slopes. This mitigation measure has been completed.</p>
<i>Topic:</i> Hydrology and Water Quality				
<p>MM 9-4:</p> <p>PG&E will revise their Spill Prevention, Countermeasure, and Control (SPCC) plan for the Paradise Substation in response to alterations due to the proposed project. The plans will include engineered methods for containing and controlling any oil release (e.g., retention pond, mote, berms, or some combination), and preparations for a quick and safe cleanup. The plan will be submitted to Butte County for review.</p>		<p>PG&E to submit Plan to CPUC and Butte County</p>	<p>CPUC and Butte County to review plan</p>	<p>*PG&E has revised the SPCC to reflect the new transformer that will be installed at the substation. A copy of this plan is on-site and stored in the control room. The existing engineered containment structures were previously enlarged and will continue to be used to contain and control any oil release. This mitigation measure has been completed.</p>

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
---	---------------------------	-------------------------------	--------------------------------	---------------

Topic: Hydrology and Water Quality

<p>MM 9-1:</p> <p>PG&E will prepare an erosion and sediment transport control plan that will be submitted to Butte County and the Town of Paradise along with the grading permit application. This plan will follow the standards in the Manual of Erosion and Sedimentation Control Measures (ABAG 1981), and practices recommended by the Natural Resources Conservation Service. Implementation of the plan will stabilize graded areas and waterways, and minimize erosion and sedimentation. The plan will designate Best Management Practices (BMPs) for construction. The construction crews will install erosion controls such as hay bales, water bars, covers, sediment fences, sensitive area access restrictions (e.g., fencing), vehicle mats in wet areas, and retention/settlement ponds where necessary and appropriate before initiating extensive clearing and grading. Subsequent mulching, seeding, or other suitable stabilization measures will protect exposed areas during, and subsequent to, construction activities.</p> <p>A workers' training program will be established to communicate environmental concerns and appropriate work practices to all field personnel. A construction monitoring program will ensure that the plans are followed throughout construction.</p>		<p>PG&E to submit plan and conduct training (documented by submittal of agenda and attendee list)</p>	<p>CPUC, Butte County, Town of Paradise to review plan; CPUC Environmental Monitor site visit to verify compliance</p>	<p>Erosion control has been addressed in the environmental training program. A copy of the training materials was provided to the CPUC in the 1/11/01 submittal. The Erosion Control Plan was submitted to the CPUC in the 12/22/00 package. The pre-construction component of this requirement has been completed.</p>
--	--	---	--	---

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Hydrology and Water Quality				
<p>MM 9-2:</p> <p>PG&E will prepare a Hazardous Substance Control and Emergency Response Plan that will include preparations for quick and safe cleanup of accidental spills. This plan will be submitted with the grading permit application. The plan will prescribe procedures for reducing the potential for significant impacts to surface and ground water in the unlikely event of an oil spill, prescribe methods for safe collection and disposal of hazardous substances generated during construction activities, and include an emergency response program to ensure quick and safe cleanup of accidental chemical spills. The plan will identify areas where refueling and vehicle maintenance activities, temporary storage of unused concrete, and storage of hazardous materials will be permitted.</p> <p>A workers' education program will be established for all field personnel prior to initiating fieldwork to provide training in appropriate spill response methods. A monitoring program will be established to ensure that the plans are followed.</p> <p>The existing SPCC containment system will be used at the substation to retain a release in the extremely unlikely event of a catastrophic failure of oil-filled electrical equipment during equipment removal, installation, or operation. Additionally, oil-absorbent material, tarps, and storage drums may be used to contain and control any minor releases.</p> <p>Excess water and liquid concrete that escapes the pole foundation pours will be directed to bermed areas adjacent to the borings where the water will infiltrate or evaporate and the concrete will remain and begin to set. Once the excess concrete has been allowed to set up (but before it is dry), it will be removed and recycled or transported to an approved landfill for disposal.</p>		<p>PG&E to submit plan and conduct training (documented by submittal of agenda and attendee list)</p>	<p>CPUC, Butte County, Town of Paradise to review plan; CPUC Environmental Monitor site visit to verify compliance</p>	<p>PG&E has incorporated hazardous substance control and clean-up requirements into the project's training materials. A copy of these training materials was provided to the CPUC in the 1/24/01 submittal. PG&E's Environmental Inspector will ensure implementation of these protective measures during site inspections. The pre-construction component of this mitigation measure has been completed.</p>

Topic: Land Use

*** Mitigation Measure has been completed.**

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Land Use				
<p>MM 10-1:</p> <p>Prior to construction, PG&E will notify landowners immediately adjacent to proposed construction about construction activities. The notice will contain information about the timing and nature of the activities. A PG&E contact person will be designated and a telephone number and address provided to the notified parties to allow them to obtain information and comment about project construction.</p>		<p>PG&E to provide CPUC with a copy of the advanced notice for review and approval. PG&E shall also provide the CPUC with documentation of mailing a 72-hour advance notice to all businesses and residents and document attempts in person or telephone follow up.</p>	<p>CPUC to review notice</p>	<p>* Initial notification information provided to the Town and adjacent property owners and businesses. Copies of this notification were provided to the CPUC on 12/22/00. This mitigation measure has been completed.</p>
<i>Topic:</i> Noise				
<p>MM 11-8:</p> <p>To achieve lower nighttime noise, the new transformer may be operated at reduced loading and without fan cooling between the hours of 10:00PM and 7:00AM.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>* No pre-construction actions are required.</p>
<p>MM 11-7:</p> <p>Design specifications for the proposed transformers must meet or exceed 45 MVA, 115/12kV transformers will meet 69 dBA, OA rating and 72 dBA, FA rating.</p>		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>* These design requirements have been met. This mitigation measure has been completed.</p>
<i>Topic:</i> Public Health and Safety				

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<i>Timing of Action:</i> Pre-construction	<i>Mitigation Measure</i>	<i>Implementation Actions</i>	<i>Monitoring Requirements</i>	<i>Status</i>
<i>Topic:</i> Public Health and Safety				
MM 12-4: PG&E shall update the Hazardous Material Business Plan and SPCC Plan as needed, and will employ proper use, storage and disposal methods for hazardous materials and wastes. (See MM 9-2 for additional hazardous waste mitigation efforts.)		PG&E to provide submit Plan for CPUC review	CPUC to review plan	*PG&E has revised the SPCC to reflect the new transformer that will be installed at the substation. A copy of the plan is on-site and stored in the control room. The existing engineered containment structures were previously enlarged and will continue to be used to contain and control any oil release. This mitigation measure has been completed.
<i>Topic:</i> Transportation and Traffic				
MM 14-1: (pre-con) Construction activities shall occur on road shoulders or in non-traffic lanes, where feasible, to avoid unnecessary lane closures. Coordination shall occur between PG&E and the Butte County and Town of Paradise Departments of Public Works to minimize conflicts with the design, location, and construction of other projects. PG&E shall notify Town of Paradise and Butte County residents of scheduled lane closures. PG&E shall use traffic control personnel during lane closures. Standard traffic control techniques will include flagmen, warning signs, cones, and lights.		PG&E to implement as defined; provide CPUC documentation of coordination with local agencies	Environmental Monitor site visit to verify compliance; CPUC to review coordination documentation	PG&E continues to coordinate with Butte County and the Town of Paradise regarding lane closures and work on road shoulders. A copy of the encroachment permits was submitted to the CPUC on 3/8/01 as documentation of the coordination with the Town and Butte County. Notification of lane closures was made in the public notice sent to the CPUC on 12/22/00.
MM 14-5: PG&E will notify Town of Paradise residents of scheduled lane closures. Signs will be placed at the main trailway crossroad points (Neal Road, Foster Road, Fir Road, and Elliot Road) notifying Trailway users of trail closures.		PG&E to implement as defined; provide CPUC documentation that residents were notified	Environmental Monitor site visit to verify compliance; provide CPUC documentation that residents were notified	PG&E continues to coordinate with Butte County and the Town of Paradise regarding lane closures and work on road shoulders. A copy of the encroachment permits was submitted to the CPUC on 3/8/01 as documentation of the coordination with the Town and Butte County. Notification of lane closures was made in the public notice sent to the CPUC on 12/22/00.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

Timing of Action: Pre-construction	Mitigation Measure	Implementation Actions	Monitoring Requirements	Status
---	---------------------------	-----------------------------------	------------------------------------	---------------

Topic: Transportation and Traffic

<p>MM 14-4: (pre-con)</p> <p>--The Butte County Transportation Authority shall be notified of lane closures that will potentially affect bus stops in the project area.</p> <p>--The Paradise Unified School District and the Town of Paradise shall be notified of lane closures that will potentially affect bus stops in the project area.</p>		<p>PG&E to implement as defined; provide CPUC documentation of coordination with local agencies</p>	<p>Environmental Monitor site visit to verify compliance; CPUC to review coordination documentation</p>	<p>PG&E will continue to coordinate with Butte County and the Paradise Unified School District and the Town of Paradise regarding lane closures that could potentially affect bus stops in the project area.</p>
---	--	---	---	--

Topic: Utilities and Service Systems

<p>MM 7-1: (pre-con)</p> <p>Mitigation measures will ensure that impacts to other utilities will be less than significant:</p> <p>--PG&E will conduct surveys prior to construction to locate underground and overhead utilities. All utilities near project facilities will be put on the construction plan maps.</p> <p>--During construction, before any ground disturbance occurs, Underground Service Alert (USA) will be contacted to verify the location of existing underground utilities.</p> <p>--Representatives from non-PG&E utilities will be notified in advance of construction if construction will be occurring near their lines, and PG&E will coordinate with them.</p> <p>--PG&E will locate poles and string conductors at a safe distance from intersecting and adjacent power line structures, conductors, and telephone wires in accordance with the distances specified in the CPUC General Order No. 95.</p>		<p>PG&E to comply with stated requirements</p>	<p>CPUC to review documentation; CPUC Environmental Monitor site visit to verify compliance.</p>	<p>* Surveys complete. U.S.A notifications will be made and documented by crew foremen during construction. This mitigation measure has been completed.</p>
---	--	--	--	---

Topic: Visual Resources

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001

<p><i>Timing of Action:</i> Pre-construction</p>	<p><i>Mitigation Measure</i></p>	<p><i>Implementation Actions</i></p>	<p><i>Monitoring Requirements</i></p>	<p><i>Status</i></p>
---	----------------------------------	--------------------------------------	---------------------------------------	----------------------

Topic: Visual Resources

<p>MM 15-5:</p> <p>To minimize the need for excessive vegetation clearing from the power line right-of-way, PG&E will prepare a detailed power line clearing plan for power line Segment 5 (along the Paradise Memorial Trailway) and power line Segment 4 (along Skyway) in consultation with the Town of Paradise that takes into account:</p> <ul style="list-style-type: none"> --Basic principles of feathering and scalloping the power line easement. --Pruning ponderosa and foothill pine trees where possible along the sides of the power line easement rather than removing them. --Retaining lower vegetation under power line conductors based on current clearance guidelines. <p>Prior to clearing activities, PG&E will identify and tag in the field those trees and major shrubs (taller than 10 feet) to be removed, trees to be pruned, and trees to remain within the power line easement. PG&E shall continue to coordinate with and seek input from the Town of Paradise, Butte County, and the Paradise Fire Department.</p>		<p>PG&E to provide clearing plan to CPUC and Town of Paradise for review</p>	<p>CPUC and Town of Paradise to review plan</p>	<p>* Flagging/marketing completed in the field. A vegetation removal plan was submitted to the Town and CPUC on 12/18/00. This mitigation measure has been completed.</p>
--	--	--	---	---

(NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)

<p>MM 15-3: (pre-con)</p> <p>To reduce the perceived scale of power poles, to compensate for the loss of shade, and to mitigate for the loss of privacy to adjacent residences along the paved portions of the Paradise Memorial Trailway, PG&E will:</p> <ul style="list-style-type: none"> --Prior to project construction, prepare revegetation planting plans and specifications in coordination with the Town of Paradise. Emphasize design goals of using native shrubs of sufficient height to screen the trail user from adjacent land uses; provide low trees that could be easily maintained to reflect power line maintenance and fire management guidelines yet also provide shade on the trail; and screen the base of the power line poles as seen from the trail. --During the first spring after project construction, implement revegetation designs. Maintain plants, until re-established, for a two-year establishment period. 		<p>PG&E to implement as defined</p>	<p>Environmental Monitor site visit to verify compliance</p>	<p>PG&E has prepared a revegetation plan which specifies planting materials, methods, and schedules for installing native trees and shrubs along the Paradise Memorial Trailway. The pre-construction component of this mitigation measure has been completed.</p>
--	--	---	--	--

(NOTE: Measure has been modified since PG&E submitted its PEA to the CPUC in January, 2000.)

*** Mitigation Measure has been completed.**

Updated Monday, October 01, 2001

Timing of Action: Pre-construction	Mitigation Measure	Implementation Actions	Monitoring Requirements	Status
Topic: Visual Resources				
MM 15-1: (pre-con) To reduce the potential for reflection of sunlight from project facilities, reduce color contrasts, and visually unify the project with the surrounding characteristic landscape, PG&E will: --Throughout the project area, though not standard practice, use only non-specular conductors that do not reflect sunlight. --As seen from the Paradise Memorial Trailway and Skyway, use self-weathering steel poles. Self-weathering steel poles will oxidize over time thereby reducing reflection and color contrasts.		PG&E to implement as defined	Environmental Monitor site visit to verify compliance	This mitigation requirement has been incorporated into project plans and designs. The pre-construction component of this requirement has been completed.
MM 15-2: To reduce the number of power line poles along the Paradise Memorial Trailway, PG&E will coordinate the placement of poles to accommodate existing service lines as much as possible.		PG&E to implement as defined; provide CPUC documentation that PG&E coordinated with other utilities	Environmental Monitor site visit to verify compliance; provide CPUC documentation that residents were notified	This requirement has been incorporated into the project's design. The pre-construction component of this mitigation measure has been completed.

Timing of Action: Pre-operations	Mitigation Measure	Implementation Actions	Monitoring Requirements	Status
Topic: Biological Resources				
IV-1: Where feasible, tree trimming and removal of shrubs and trees should be avoided during the nesting period of March through July. PG&E shall submit a plan to CPUC outlining the criteria and conditions that would make tree trimming and removal of shrubs and trees necessary within the said nesting period. The plan shall also provide specific procedures that PG&E will follow prior to and during trimming activities to ensure that impacts associated with disturbance of birds protected under the Migratory Bird Treaty Act are less than significant.		PG&E to submit Vegetation Management Plan to CPUC prior to project operations	CPUC to review and approve PG&E's Vegetation Management Plan	See Mitigation Measure MM 5-6.

* Mitigation Measure has been completed.

Updated Monday, October 01, 2001