PUBLIC UTILITIES COMMISSION

505 VAN NESS AVENUE
SAN FRANCISCO, CA 94102-3298

May 26, 2016

Ms. Alissa K. Turner, PE
Trisage Consulting
5418 Longley Lane, Suite A
Reno, NV 89511

Subject: ***Notice to Proceed (NTP) 3 – 625 and 650 Line Electrical Upgrade Project– Vegetation Management and Construction Activities Associated with Re-building the 650 Line - Phase 1B (Application No. 10-08-024).***

Dear Ms. Turner:

California Pacific Electric Company, LLC (CalPeco) has requested authorization from the California Public Utilities Commission (CPUC) to commence project activities associated with the 625 and 650 Line Electrical Upgrade Project during calendar year 2016. The covered activities under this Notice to Proceed (NTP) 3 are fully described in CalPeco's Notice to Proceed Requests #3 and #4 (NTP#3, NTP#4) for remaining Phase 1A activities not completed in 2015 and for Phase 1B, with conditions identified below.

The 650 Line Electrical Upgrade Project was evaluated in accordance with the California Environmental Quality Act (CEQA) and a Permit to Construct (PTC) was granted by the CPUC on March 26, 2015 (Decision 15-03-020). **NTP 3 is granted by CPUC for the proposed activities based on the following factors:**

- The Final EIS/EIS/EIR prepared for the 625 and 650 Line Electrical Upgrade Project defined required mitigation measures to be implemented prior to and during project construction. The relevant mitigation measures for pre-construction activities under this Notice to Proceed are summarized in *Attachment A* and shall be implemented by CalPeco and its designated contractor. CalPeco's compliance with the pre-construction component for each applicable measure is noted in the status table in *Attachment A.*

- All project activities will be conducted within areas identified in the Final EIS/EIS/EIR.

The conditions noted below shall be met by CalPeco and its contractors:

- CalPeco shall provide the CPUC with final survey results for mingan moonwort (*Botrychium minganense*) and documentation of coordination efforts with California Department of Fish and Wildlife (CDFW) regarding recommended avoidance/minimization measures to be implemented during construction prior to construction activities occurring in identified potential mingan moonwort habitat areas, as identified in APM-BIO-2.

- CDFW recommended a basic visual survey immediately prior to construction to ensure northern goshawk (*Accipiter gentilis*) and California spotted owl (*Strix occidentalis occidentalis*) have not moved into construction areas (APM-BIO-11). Survey documentation shall be provided to CPUC prior to initiation of construction activities.

- Nesting bird survey documentation (APM-BIO-18) and bat survey documentation (APM-BIO-20) indicates that a portion of the 2016 construction area has been surveyed and that additional surveys will be conducted as the project moves forward. Nesting bird and bat survey documentation (conducted no more than 30 days prior to construction) shall be provided to CPUC prior to construction in the surveyed areas.

- The Tahoe Regional Planning Agency (TRPA) has partially acknowledged their permit allowing only tree removal/timber operations to occur on US Forest Service, Lake Tahoe Basin Management Unit (LTBMU) lands within the Lake Tahoe Basin. An acknowledged permit from TRPA shall be provided to the CPUC prior to line construction activities on LTBMU lands and prior to tree removal, line construction, and substation construction activities occurring on non-LTBMU lands in the Lake Tahoe Basin (MM-4.7-4).

- APM-SOILS-1 requires preparation of a Storm Water Pollution Prevention Plan (SWPPP). The final SWPPP (and associated permit WDID issued by LRWQCB) covering the construction area between Brockway Summit and the Kings Beach substation shall be provided to CPUC prior to line construction activities occurring in the Lake Tahoe Basin. APM-SOILS-1 also requires a winterization plan to be prepared and incorporated into the SWPPP addressing erosion and sediment management on the project site during the winter months. Because all activities under NTP 3 are anticipated to be completed by October 15, 2016, all Best Management Practices (BMPs) associated with erosion and sediment management will either be removed from the project site, or will be a component of permanent site restoration activities in compliance with the Habitat Restoration Plan, prior to winter months.

- Approval of final road design plans by the US Forest Service, LTBMU shall be provided prior to any construction activity occurring on National Forest System lands, in accordance with MM-4.6-3a.

- Blasting is not permitted under NTP 3, consistent with the documentation provided by CalPeco.

Sincerely,

/s/ Michael Rosauer

Michael Rosauer
CPUC Environmental Project Manager

cc: *S. Eckardt, Dudek*
Att: *Attachment A – Mitigation Measures*

ATTACHMENT A

Mitigation Measures

625 and 650 Line Electrical Upgrade Project - NTP #3
Attachment A

Applicable to NTP 3, Pre-Construction Requirements Met	
Applicable to NTP 3, See Conditions in NTP 3	
Not Applicable to NTP 3	

APM/ MM	Mitigation Measure	Applicability/Status	Notes
APM-SCE-1	The following measures will be implemented during construction: • Construction activities will be kept as clean and inconspicuous as practical. • Construction storage and staging will be screened, where practical, with opaque fencing from close-range residential views and public viewing areas. • Slash treatment will be chipping, mastication, or lop and scatter as determined by the applicable land owner/manager. • When "cut-tree" marks are utilized, marks will be placed on back sides of trees or away from views of the travelling public. • Within the immediate to middle-distance foreground (300 feet), log skidding trails will be re-graded, to the degree possible, back to their original, natural contour and rehabilitated with vegetation. • Non-affected timber and ground vegetation will be protected during harvesting and slash treatment. • Trees and vegetation within the "clear zone" that do not pose a risk to power lines will be preserved. • Visual diversity of the ground surface will be maintained through irregular scatter of limbs, seeding, and other means as practicable. • Barriers/boulders/downed logs will be placed in strategic locations to discourage the establishment of user-created trails. Implement restoration of temporary access ways in a manner that minimizes visibility from intersecting roads. • Cut stumps will be 6-inch maximum height measured from the uphill side.	Applicable to NTP-3	CalPeco provided Insignia (firm retained for biological monitoring services) scope of services which includes requirement to submit pre-construction photographs of skid trails to ensure re-grading back to original condition. Photo documentation of skid trails for unfinished areas of tree removal (Units 4 & 5) from 2015 has been provided to CPUC. Measure to be implemented and verified during construction.
APM-SCE-2	Self-weathering dark brown steel poles (CorTen), or equivalent, will be used for the power lines to reduce potential visual contrast.	Applicable to NTP-3	CalPeco provided a memo (dated May 15, 2015) from the engineer of record stating conformance with this measure. CalPeco provided verification of line design to use self-weathering poles in contracts on July 28, 2015.
APM-SCE-3	Non-specular conductors will be used for the power lines to reduce the potential for new sources of glare. Non-specular conductor has been either mechanically or chemically treated to reduce reflectivity and has a smooth matte finish which blends more naturally with the environment.	Applicable to NTP-3	CalPeco provided a memo (dated May 15, 2015) from the engineer of record stating conformance with this measure. CalPeco provided verification of line

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			design to use non-specular conductor in contracts on July 28, 2015.
APM-SCE-4	A non-reflective finish will be used for substation equipment at all substations to reduce the potential for new sources of glare.	N/A to covered activities in NTP Request.	CalPeco provided verification that steel structures will be painted to ensure no new glare is introduced into the substation on July 28, 2015 for Phase 1A Northstar Substation scope. This will apply to Phase 2 substation equipment as well.
APM-SCE-5	Screening through landscaping and non-vegetative means will be installed at the Tahoe City Substation to the degree that the rebuilt substation will not be obvious to the casual observer, and will account for public views of the substation from all sides. Plant material will be appropriate to the local landscape setting and will be consistent with CalPeco's technical requirements for landscaping in proximity to substation and transmission facilities. More specifically, the following will be implemented: • With the property owner's permission, native conifer trees will be planted outside of the perimeter fence along the southwest and southeast sides of the substation site. Tree planting will replace existing trees that will be removed and will provide additional screening and landscape backdrop with respect to views from SR 89. • With the property owner's permission, on the southeast side of the substation, a mixture of trees and tall shrubs will be planted along the recreational trail adjacent to SR 89 to provide additional screening. • With the property owner's permission, at the western corner of the substation site, a mixture of shrubs will be planted outside of the perimeter fence in order to screen views from the recreation trail.	N/A to covered activities in NTP Request.	This measure applies to project design features/components not applicable at this time (Tahoe Substation-Phase 3 Design).
APM-SCE-6	Poles proposed in the vicinity of the highly visible clearing adjacent to Mount Watson Road will be placed so as to span the clearing or otherwise minimize their visibility from the Fiberboard Freeway.	N/A to covered activities in NTP Request.	This measure applies to project design features/components not applicable at this time (Mount Watson Road-Phase 3 Design).
APM-SCE-7	In cases where replacement poles for the 650 Line are adjacent to SR 267 and will be visible in unobstructed foreground public views from the roadway, poles will be carefully sited to eliminate or substantially reduce their visibility from the highway within the Tahoe Basin as compared to the existing 650 Line without causing new visual impacts from tree removal or construction of access ways that will be required to erect and maintain the line. Any revised alignment or pole placement will be reviewed and approved by applicable land owners, agencies, and utilities.	Applicable to NTP-3	CalPeco provided a memo (dated May 15, 2015) from the engineer of record stating conformance with this measure. This issue was also addressed through the selection of the set-back route in the EIS/EIS/EIR document (APM SCE-1).
APM-SCE-8	In cases where replacement poles for the 625 Line are adjacent to the Truckee River and will be visible in unobstructed foreground public views along the river or adjacent trails, poles will be carefully sited to minimize their visibility. The westernmost pole on the south bank of the Truckee River where the power line crosses the river will be placed far enough from the river so as to be substantially unseen from the pedestrian bridge. The remaining poles along the south bank of the river will be located southward, outside the river corridor and behind the trees that line the riverbank such that visibility of the power line is minimized as viewed from SR 89, the Truckee River, and the	N/A to covered activities in NTP Request.	This measure applies to project design features/components not applicable at this time (Applicable to Phase 3 Activities).

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	pedestrian bridge. Any revised alignment or pole placement will be reviewed and approved by applicable land owners, agencies, and utilities.		
APM-SCE-9	In consultation with the USFS and to reduce potential project visibility, selective, site-specific conifer tree planting will be considered in limited areas along the new 625 Line route where relatively unobstructed foreground views of new structures are seen from Mount Watson Road. Placement of new trees will not conflict with project operations or safety requirements.	N/A to covered activities in NTP Request.	This measure applies to revegetation/tree planting efforts not applicable at this time (Applicable to Phase 3 Activities).
APM-AQ-1	The applicant will submit a Construction Emission/Dust Control Plan to the NSAQMD and PCAPCD for approval prior to ground disturbance or vegetation removal associated with construction of the proposed project. The Dust Control Plan will summarize the APMs related to emissions control during construction.	Applicable to NTP-3	A letter from PCAPCD, dated May 23, 2016, was provided to Summit Line Construction (retained by Liberty Utilities), stating approval of the plan. A copy of this letter was provided to CPUC.
APM-AQ-2	Unpaved areas subject to vehicle access will be stabilized using water at least two times daily, or as needed to control fugitive dust. On NFS lands, unpaved roads will be watered at least as often as specified in Forest Service Handbook 2409.15 (USFS 1992). A locally approved chemical dust palliative, applied according to the manufacturer's recommendations, may be substituted for watering with approval from the applicable land owner/manager.	Applicable to NTP-3	CalPeco provided verification that chemical dust palliative will not be used during construction (water application will be the stabilization method). Measure to be implemented and verified during construction.
APM-AQ-3	All inactive, disturbed portions of the project's ROW will be covered, seeded, or watered, as needed to control fugitive dust, until suitable vegetative cover is established.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-4	Prior to any ground disturbance, sufficient water will be applied to the area to be disturbed in order to control fugitive dust emissions.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-5	If wind-driven fugitive dust cannot be stabilized using water or a chemical dust suppressant such that the resulting dust plume crosses the nearest property line, all grading and excavating activities must cease until dust can be effectively controlled.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-6	Exposed stockpiles (e.g., dirt, sand, etc.) will be covered and/or stabilized with water or a locally approved chemical dust stabilizer as needed to control fugitive dust emissions. When loading or unloading stockpiled material, material will be stabilized using water and/or drop heights will be minimized to control fugitive dust.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-7	Traffic speeds on unpaved roads and the ROW will be limited to 15 miles per hour.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-8	Construction vehicles and equipment will be cleaned to prevent dust, silt, mud and dirt from being tracked off-site prior to entering public roadways.	Applicable to NTP-3	Measure to be implemented and verified during construction.

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APM-AQ-9	Any visible trackout deposited on paved, public roadways will be cleaned up at the conclusion of each workday or at 24-hour intervals for continuous operation. If trackout extends for a cumulative distance greater than 50 feet, it will be cleaned up within 1 hour. Trackout will be cleaned with a wet sweeper or vacuum device.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-10	Trucks transporting bulk materials off-site will be maintained such that no spillage can occur from holes or other openings in the cargo compartments. Loads will be completely covered or the bulk material will be wetted and loaded to maintain 6 inches of freeboard from the top of the container.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-11	CalPeco will limit actively graded areas to a cumulative total of 5 acres per day in order to control fugitive dust. The total area of disturbance can exceed this acreage so long as the actively graded portion is below this threshold.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-12	Traffic will be controlled by flaggers or other methods, as necessary, to improve traffic flow along roadways in the project area.	Applicable to NTP-3	The Caltrans Encroachment Permit (applicable to the extent of the 650 Rebuild Project along SR 267) and Permit Extension Rider through December 15, 2016 have been provided to CPUC (see APM-TRN-1). Measure to be implemented and verified during construction.
APM-AQ-13	Construction activities in more populated areas will be scheduled during off-peak hours, to the extent practical, to minimize impacts to traffic flow.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-14	Vehicle idling time will be limited to a maximum of 5 minutes for vehicles and construction equipment, except where idling is required for the equipment to perform its task.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-AQ-15	All off-road diesel engines with a rated output of greater than 100 horsepower will, at a minimum, meet the Tier II California Emissions Standards for Off-Road Compression Ignition Engines. If reasonably available, Tier III engines will be employed.	Applicable to NTP-3	Equipment information sheets for both the line contractor (Summit Line Construction) and the Vegetation Management contractor (Mountain F. Enterprises, MFE) have been provided to CPUC. Measure to be implemented and verified during construction.
MM 4.13-1a	Develop and Implement a Construction Equipment Exhaust Emissions Control Plan. The applicant shall provide separate plans, for approval by PCAPCD and NSAQMD, demonstrating that the heavy-duty (50 horsepower hp] or more) land-based, off-road vehicles to be used for project-related demolition	Applicable to NTP-3	PCAPCD provided a clarification email on May 23, 2016 that the Dust Control Plan (DCP) (approved) is not typically a separately approved item than the

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	and construction activity in their respective jurisdictions, including owned, leased, and subcontractor equipment, shall achieve a project wide fleet-average 20 percent NOX reduction and 45 percent particulate reduction compared to the most current ARB fleet average that exists at the time of construction. Acceptable options for reducing emissions may include use of late-model engines, low-emission diesel products, alternative fuels, engine retrofit technology, after-treatment products, and/or other options as they become available. The applicant shall submit to PCAPCD and NSAQMD a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 hp, that will be used an aggregate of 40 or more hours during any portion of the construction project. The inventories shall include the horsepower rating, engine production year, and projected hours of use for each piece of equipment. The inventories shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs in the respective air district. At least 48 hours before the use of heavy duty off-road equipment, the applicant shall provide the respective air district with the anticipated construction timeline including start date, and name and phone number of the project manager and on-site foreman. The applicant shall use Sacramento Metropolitan Air Quality Management District's Construction Mitigation Calculator (SMAQMD 2012), which is approved by PCAPCD and NSAQMD, to identify an equipment fleet that achieves this reduction. This measure does not apply to the use of a helicopter during construction activity because there are no state or federal emissions standards for helicopters and, therefore, no established set of state-wide emission rates. Also, the availability of a more emissions-efficient helicopter suitable for the project is unknown.		'Construction Equipment Exhaust Emissions Control Plan', but rather one with the approved DCP. Current equipment information sheets from Summit Line Construction and MFE, along with an updated CARB certification for Summit Line Construction, have been provided to CPUC to satisfy the requirements of this MM. These lists will be updated and provided monthly as they were for Phase 1A. Measure to be implemented and verified during construction.
MM 4.13-1b	Pay Off-Site Mitigation Fee to PCAPCD to Off-Set NOX Emissions Generated by Construction Activity in Placer County. The applicant shall pay an off-site mitigation fee into PCAPCD's Clean Air Grants Program for the purpose of reducing NOX emitted by project construction activities in Placer County to a less-than-significant level (i.e., less than 82 lb/day). The applicant shall provide a detailed construction schedule to PCAPCD before each construction season (i.e., May through October) that identifies when construction activities at different portions of the project site in Placer County may occur. The applicant shall calculate the fees associated with each construction phase in consultation with PCAPCD staff and the applicant shall pay the specific fee amounts to PCAPCD before each construction phase. The calculation of daily NOX emissions shall be based on the cost rate established by PCAPCD's Clean Air Grants Program at the time each calculation and payment is made. PCAPCD's Clean Air Grants Program is part of ARB's statewide Carl Moyer Memorial Air Quality Standards Attainment Program. The program provides grant funding for cleaner-than-required engines and equipment. Grants are administered by PCAPCD to support reductions in emissions of key pollutants which are necessary to meet clean air commitments under regulatory requirements. Eligible projects include cleaner on-road, off-road, locomotive, lawn and garden, light duty passenger vehicles being scrapped and agricultural equipment	Applicable to NTP-3	A memo from CalPeco to CPUC dated July 28, 2015 commits to making mitigation payments. This memo applies to the entire 650 line route and construction. Documentation of this payment, when made at the conclusion of the 650 line upgrade, and if required by Placer County, will be submitted to CPUC for reference.

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	(ARB 2012; PCAPCD 2012). At the time of writing this EIS/EIS/EIR the cost rate is $17,080 to reduce 1 ton of NOX (ARB 2011; Kuklo, pers. comm., 2013).		
APM-BIO-1	Prior to construction, all CalPeco, contractor, and subcontractor project personnel will receive training from a qualified resource specialist regarding the appropriate work practices necessary to effectively implement the APMs and to comply with the applicable environmental laws and regulations, including appropriate wildlife avoidance measures, impact minimization procedures, the importance of sensitive resources, and the purpose and methods for protecting such resources. Among other topics, the training will also include a discussion of BMPs to reduce the potential for erosion and sedimentation during construction. Additionally, CalPeco and designated environmental monitors for project construction will coordinate with the applicable public land owners/managers on communication, documentation and reporting, and data submittal protocols.	Applicable to NTP-3	Updated WEAP training materials for 2016 activities have been provided to CPUC. To be verified during construction.
APM-BIO-2	CalPeco will conduct a complete floristic survey, including surveys for all special-status botanical species and invasive plants, during a time that coincides with the greatest number of blooming periods for target species. This survey will be conducted no more than one year prior to the start of construction. Occurrences of special-status botanical species and weed-infested areas will be flagged or fenced no more than 30 days prior to the start of construction. Flagging and fencing will be refreshed and maintained throughout construction. Implementation of this measure will occur in coordination with USFS.	Applicable to NTP-3, see conditions	Special status plants that were identified within the 650 project corridor and documented in the FINAL 650 Botanical Survey Report (12-04-14S) will be flagged and/or handled in the appropriate manner as indicated in the Report and as required by LTBMU and CDFW. Email communications with both LTBMU and CDFW indicate that the surveys already conducted for initial identification are sufficient for proceeding w/ Phase 1B. The exception is mingan moonwort, for which CDFW requested that updated surveys be done in 2016. The areas within the project corridor identified as being potential mingan moonwort habitat, near the southeast end of the project and in the Tahoe Basin, are being observed by project biologists. Once actual plant blooming occurs (expected mid-June 2016), the appropriate survey data/reporting will be developed and provided to LTBMU, CDFW and CPUC. Mapping that shows identified mingan moonwort reference sites within the project area have been provided to CPUC. No work shall occur in identified potential mingan moonwort habitat areas until updates 2016 surveys have been completed and confirmation of delivery of survey results to

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			CDFW has been provided to CPUC.
APM-BIO-3	CalPeco will complete an invasive plant risk assessment for all ground-disturbing activities.	Applicable to NTP-3	The Invasive Plant Risk Assessment document was submitted to the CPUC on June 21, 2015 and is applicable to Phases 1A and 1B.
APM-BIO-4	Before construction activities begin, CalPeco will treat invasive plant infestations where feasible. Treatments will be selected based on each species ecology and phenology. All treatment methods—including the use of herbicides—will be conducted in accordance with the law, regulations, and policies governing the land owner (e.g., TRPA in the Lake Tahoe Basin; LTBMU Forest Supervisor and Tahoe National Forest Supervisor on NFS lands). Land owners will be notified prior to the use of herbicides. In areas where treatment is not feasible, CalPeco will clearly flag or fence infested areas in order to clearly delineate work exclusion. Appropriate treatments will also be incorporated into tree removal and construction activities, such as a requirement that all cut live conifer stumps greater than 6 inches in diameter be treated with Sporax or an EPA-registered borate compound to prevent the spread of Annosus root disease.	Applicable to NTP-3	The Invasive Plant Treatment Implementation Plan for the 2016 construction season has been submitted to the CPUC. Documentation of landowner notification was submitted to the CPUC in April 2016. The Flagging, Fencing, and Signage Plan for the 650 Line portion of the Project, which addresses fencing installation for work exclusion purposes, was submitted to the CPUC on June 15, 2015.
APM-BIO-5	Vehicles and equipment will arrive at the project area clean and weed-free and will be inspected by the on-site environmental monitor for mud or other signs that weed seeds or propagules could be present prior to use in the project area. If the vehicles and equipment are not clean, the monitor will deny entry to the ROW and other work areas.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-6	Vehicles and equipment will be cleaned using high-pressure water or air at designated weed-cleaning stations after exiting an infested area. Cleaning stations will be designated by a botanist or invasive plant specialist and located away from aquatic resources.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-7	Only certified weed-free construction materials, such as sand, straw, gravel, seed, and fill, will be used throughout the project.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-8	If invasive plant-infested areas are unavoidable, invasive plants will be cut, if feasible, and disposed of in a landfill in sealed bags or disposed of or destroyed in another manner acceptable to the USFS, TRPA, USACE, or other agency as appropriate. If cutting is not feasible, layers of mulch, degradable geotextiles, or similar materials will be placed over the infestation area to minimize the spread of propagules by equipment and vehicles during construction. These materials will be secured so they are not blown or washed away.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-9	Exclusion zones will be established around any identified special-status botanical species. In consultation with a qualified biologist, CalPeco will first attempt to avoid effects of project implementation on special-status plants and protect occurrences *in situ*. In the event that a special-status plant occurrence cannot be avoided by construction activities, CalPeco will notify CPUC, CDFW, TRPA, and/or USFS, as applicable depending on the species regulatory status. CalPeco will consult with CDFW, TRPA, and/or USFS in order to establish appropriate	Applicable to NTP-3	The FINAL 650 Botanical Survey Report (12-04-14S) (December 2014), which includes survey results for special-status botanical species, was submitted to the CPUC on June 15, 2015 (see also APM-BIO-2).

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	mitigation measures. If seed collection or transplantation are selected as appropriate mitigations, then the following measures will apply: a) CalPeco will collect any mature seeds from the affected plants and store them at an appropriate native plant nursery or comparable facility; b) upon the completion of work, CalPeco will redistribute the seeds within the original location of the occurrence; c) CalPeco will establish performance standards for survivorship and will also monitor and document the success rate of the transplanted individuals for three consecutive growing seasons; d) if performance standards are not met, corrective measures will be implemented and monitoring and adaptive management continued until success criteria are met. Specifically for Plumas ivesia: if, through consultation with an occurrence's land manager, it is determined that Plumas ivesia plants cannot be avoided or protected *in situ*, then CalPeco will attempt to relocate all Plumas ivesia individuals. Plants that cannot be avoided during construction will be relocated to suitable habitat surrounding the 650 Line. If relocation is unsuccessful, CalPeco will consult with the CDFW and USFS in order to determine the cause of relocation failure and to establish appropriate corrective remedial measures.		The Flagging, Fencing, and Signage Plan for the 650 Line portion of the Project, which addresses fencing installation for work exclusion purposes, was submitted to the CPUC on June 15, 2015. Measure to be implemented and verified during construction.
APM-BIO-10	Any special-status botanical species identified during the floristic surveys will be documented, photographed, and submitted to the CNDDB. CalPeco will notify and provide documentation to CPUC, CDFW, TRPA, and/or USFS, as applicable depending on the species listing status.	Applicable to NTP-3	The FINAL 650 Botanical Survey Report (12-04-14S) (December 2014), which includes survey results for special-status botanical species and documentation, was submitted to the CPUC on June 15, 2015. This is applicable to Phase 1A & 1B (see also APM-BIO-2). Measure to be implemented and verified during construction.
APM-BIO-11	CalPeco will conduct protocol-level surveys during the appropriate season prior to construction in a particular area to determine whether northern goshawks or California spotted owls are nesting in planned work areas within suitable habitat along the new 625 Line, existing 625 Line, and 650 Line, including USFS-designated PACs or Home Range Core Areas (HRCAs).	Applicable to NTP-3, see conditions	CalPeco provided protocol-level survey data for northern goshawks (July-August 2014) and California spotted owls (June 2014) on June 15, 2015. CalPeco provided 2015 survey data (conducted June-July 2015) on July 30, 2015. Correspondence with CDFW and LTBMU stating sufficiency of surveys for 2016 activities has been provided to CPUC. Northern goshawk and California spotted owl survey area mapping has been provided to CPUC.

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			CDFW recommend a basic visual survey immediately prior to construction to ensure Northern goshawk and California spotted owl have not moved into the area in the interim period. Documentation of these surveys shall be provided to CPUC prior to initiation of construction activities.
APM-BIO-12	No vegetation management or treatment or other construction activities, other than vehicle passage on existing roadways, will occur within 0.25 mile of active California spotted owl nests during the breeding season (March 1 to August 31) or within 0.50 mile of active northern goshawk nests during the breeding season (February 15 to September 15), unless protocol-level surveys confirm that the birds are not nesting. A qualified biologist will have the ability to amend the start and end dates of these breeding seasons with concurrence from appropriate agencies if it can be determined that breeding has not started or that fledglings have left the nest. If the location of a nest site within a PAC is unknown, either surveys are required to locate the nest stand and determine nesting status or, as an alternative to surveys, an activity buffer will be applied to the 0.25-mile area surrounding the PAC. The activity buffer may be waived for activities of limited scope and duration, when a biological evaluation determines that such projects are unlikely to result in breeding disturbance considering their intensity, duration, timing, and specific location. Where a biological evaluation concludes that a nest site will be shielded from planned activities by topographic features that will minimize disturbance, the buffer distance may be modified in coordination with the USFS.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-13	To offset permanent removal of suitable habitat within designated PACs and HRCAs, CalPeco will assist the USFS in locating additional suitable habitat immediately adjacent to the PAC or HRCA removed to form a new PAC to support the USFS's goal of establishing additional PACs and maintaining specific acreages of California spotted owl and northern goshawk PACs and HRCAs. The amount of suitable habitat designated as a PAC or HRCA for each species is as follows: a spotted owl PAC is 300 acres, a northern goshawk PAC is 200 acres, and a spotted owl HRCA is 1,000 acres. CalPeco will coordinate with the USFS to identify areas of interest and understand the desirable components or key criteria of suitable habitat used for PAC and HRCA designation. As an alternative to assisting USFS in locating additional suitable habitat adjacent to a PAC or HRCA, CalPeco will provide monitoring support for new PAC or HRCA areas established by USFS as a result of the project. The specific objectives, timing, and duration of monitoring will be agreed upon by CalPeco and USFS.	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time. No new route through PACs is occurring. This will be addressed through Phase 3 work.
APM-BIO-14	CalPeco will conduct protocol-level surveys for willow flycatcher in the Martis Valley, within suitable habitat that could be affected by project activities associated with segments 650-4, 650-4A, and 650-4B. Suitable habitat within 200 feet of these segments is identified in Exhibit 4.7-7. (Additional suitable habitat not shown on Exhibit 4.7-7 is present along Martis Creek adjacent to these segments and may require consideration for surveys.) The survey will follow A Willow Flycatcher Survey Protocol for California (Bombay et al. 2003). The protocol	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities that occurred in 2015.

APM/ MM	Mitigation Measure	Applicability/Status	Notes
	requires a minimum of two survey visits to determine presence or absence of willow flycatcher: one visit during survey period 2 (June 15–25) and one during either survey period 1 (June 1–14) or period 3 (June 26–July 15). This measure is based on willow flycatcher sightings made in 2007 during field surveys to support the PEA, recent CNDDB records, and habitat mapping conducted during the 2012 surveys. If nesting willow flycatchers are discovered within the survey area, 250-foot exclusionary buffer zones will be established to exclude work during the breeding season—June through August—or until young have fledged the nest. If an area is given clearance to proceed with construction and nesting activities subsequently occur, it will be assumed that the nesting pair is acclimated to the ongoing disturbance of construction. If circumstances exist such that future activities may result in the abandonment or failure of the nest, as determined by a qualified biologist, an appropriate exclusionary buffer will be established by CalPeco, in coordination with the CDFW, to protect nesting birds.		
APM-BIO-15	Preconstruction biological surveys will be conducted no more than 30 days prior to construction activities to identify biological resources, including burrows and den sites, which could be impacted by construction activities. All burrows and den sites will be inspected for use by sensitive mammals, and buffers may be established based on occupation. If an area is given clearance to proceed with construction and burrowing or denning activities subsequently occur, it will be assumed that the individuals are acclimated to the ongoing disturbance of construction. However, the den will be flagged to prevent damage during construction. If circumstances exist such that future activities may result in the abandonment of the burrow or den site, as determined by a qualified biologist, an appropriate exclusionary buffer will be established by CalPeco, in coordination with CDFW, USFS, and, if necessary, the USFWS.	Applicable to NTP-3	CalPeco provided documentation of pre-construction survey completion to CPUC (May 18, 2016 Memo). Measure to be implemented and verified during construction.
APM-BIO-16	If a potentially active sensitive mammal burrow or den site is unavoidable, CalPeco will employ den-dusting or scoping to determine the species and reproductive status of the animal. If the burrow or den is determined to be active and does not contain young, CalPeco will excavate the burrow by hand, remove the den, or block the entrance to prevent re-entry until after the completion of work. If the animal is determined to be raising young, CalPeco will establish a 200-foot exclusionary buffer surrounding the burrow or den until it is determined that the young have left the den. After it is determined that young have left the den, CalPeco will commence hand excavation or removal of the den structure. CalPeco will contact CDFW, USFS and/or USACE prior to any den-dusting, scoping, burrow excavation, or den structure removal.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-17	Concurrent with the preconstruction surveys described in APM BIO-15, surveys will be conducted for amphibians, including eggs or juveniles, at aquatic habitat crossed by the project. If adults, juveniles, or eggs of sensitive amphibians are discovered, a permitted specialist will relocate the individuals to suitable habitat outside of the construction area. If amphibians are discovered in the construction area after the start of work, the environmental monitor will allow the individuals to leave under their own volition. As an alternative, an agency-approved biologist may relocate the individuals from the project area to similar, suitable habitat. CalPeco will coordinate with the CDFG, USFWS, USFS, and/or USACE prior to relocating any individuals. If it	Applicable to NTP-3	CalPeco provided documentation of pre-construction survey completion to CPUC (May 17, 2016 Memo). Measure to be implemented and verified during construction.

APM/ MM	Mitigation Measure	Applicability/Status	Notes
	is determined that surveys would have potential to result in harassment or other forms of take of a federally listed species (e.g., Sierra Nevada yellow-legged frog), survey and potential relocation methods will be coordinated with and authorized by USFWS.		
APM-BIO-18	For bird species not specifically addressed in other APMs, nesting bird surveys will be conducted no more than 30 days prior to construction activities if work is scheduled to occur during the breeding season—March to September. Exclusionary buffer zones (to be determined based on species-specific needs) will be created surrounding any active nests along the project alignment. Buffers will be established by a qualified biologist prior to the start of construction. If an area is given clearance to proceed with construction and nesting subsequently occurs, it will be assumed that the individuals are acclimated to the ongoing disturbance of construction. If circumstances exist such that future activities may result in the abandonment or failure of the nest, as determined by a qualified biologist, an appropriate exclusionary buffer will be established by CalPeco in coordination with the CDFW, USFS, and/or USACE.	Applicable to NTP-3, see conditions	CalPeco provided documentation of partial pre-construction survey data to CPUC (May 17, 2016 Memo). As noted in the memo, survey will be conducted as the project moves forward. Survey documentation for construction areas shall be provided to CPUC prior to construction activities occurring in those areas. Measure to be implemented and verified during construction.
APM-BIO-19	Power poles will be constructed to conform to the practices described in the Suggested Practices for Avian Protection on Power Lines Manual developed by the Avian Power Line Interaction Committee (2006).	Applicable to NTP-3	CalPeco provided a memo (dated May 15, 2015) from the engineer of record stating that line design was completed to conform to the Suggested Practices for Avian Protection on Power Lines Manual. Specifically, bird protection has been provided where bird contact could be made between the conductor and the steel pole or crossarm. This letter is applicable to Phase 1A & 1B. CalPeco Provided bird diverter specification sheets and locations on July 28, 2015.
APM-BIO-20	Bat surveys will be conducted in the spring, no more than 30 days prior to the start of construction, in order to identify active bat roosting sites, such as snags or dense trees. All potential roosting sites will be surveyed by a qualified biologist in order to determine usage. Specific survey methodologies will be determined in coordination with CDFW and the appropriate land manager (e.g., USFS, USACE). All non-active roosting sites will be trimmed within 30 days of the surveys in order to prevent new roosts from being established. If it is determined that an active roosting site will be impacted, CalPeco will consult with CDFW, USFS and/or USACE in order to acquire appropriate authorizations to remove the roosting sites. All active non-maternity roosting sites will be fitted with passive exclusion devices, such as one-way doors, and all bats will be allowed to leave voluntarily. Once it is confirmed that all bats have left the roost, crews will be allowed to continue work in the area. If a maternity roosting site is discovered, CalPeco will consult with the CDFW, USFS and/or USACE in order to establish appropriate exclusionary buffers until all young are determined to be volant by a qualified biologist. Once it is	Applicable to NTP-3, see conditions	CalPeco provided documentation of partial pre-construction survey data to CPUC (May 17, 2016 Memo). As noted in the memo, survey will be conducted as the project moves forward. Survey documentation for construction areas shall be provided to CPUC prior to construction activities occurring in those areas. Measure to be implemented and verified during construction.

APM/ MM	Mitigation Measure	Applicability/Status	Notes
	determined that all young are volant, passive exclusion devices will be installed and all bats will be allowed to leave voluntarily. Once it is determined by a qualified biologist that all bats have left the roost, crews will be allowed to work within the buffer zone.		
APM-BIO-21	Qualified environmental monitors will be present with each crew during all vegetation-removal activities to help ensure that impacts to biological resources are minimized to the extent possible. For all other construction activities, monitors will be allowed to cover up to 5 miles of the project area at once to allow multiple crews to work in close proximity to each other at the same time. Environmental monitors will have the authority to stop work or direct work in order to help ensure the protection of resources and compliance with all permits.	Applicable to NTP-3	Insignia Environmental has been retained to complete monitoring requirements in accordance with this APM. CalPeco provided names and resumes for qualified monitors to the CPUC for the 2016 construction season.
APM-BIO-22	An environmental monitor will inspect all pole excavations and areas of active construction on a daily basis for trapped wildlife. Wildlife found in active construction areas will be allowed to passively leave the site. If necessary, wildlife may be relocated by a qualified biologist. The construction foreman will notify the environmental monitor immediately if any wildlife enters or becomes trapped in the work area.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-23	Topsoil, where present, will be salvaged in areas that will be graded or excavated. Topsoil will be segregated, stockpiled separately from subsoil, and covered. These soil stockpiles, as well as any others created by the proposed project, shall have the proper erosion control measures applied until they are removed. The topsoil will then be replaced to the approximate location of its removal after project construction has been completed to facilitate revegetation of disturbed areas. Top soil will not be salvaged from areas infested with invasive plants.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-24	If invasive plant infestations are later identified throughout the course of construction in staging areas, parking areas, or access routes, they will be treated according to APM BIO-4 and BIO-8.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-25	If the environmental monitor determines that construction is occurring in an active mule deer fawning area, they will have the authority to temporarily halt or relocate work until the fawns move out of the project area. In addition, helicopter flight paths may be rerouted to avoid these areas if it is determined that helicopter use may impact fawns.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-26	Work areas will be clearly marked with fencing, staking, flagging, or another appropriate material. All project personnel and equipment will be confined to delineated work areas. In the event that work must occur outside of the work area, approval from lead and other agencies with jurisdiction over the property will be obtained prior to the commencement of activities.	Applicable to NTP-3	The Flagging, Fencing, and Signage Plan for the 650 Line portion of the Project, which addresses fencing installation for work area purposes, was submitted to the CPUC on June 15, 2015 and is applicable to Phase 1B.
APM-BIO-27	Helicopters will be used, where necessary, to avoid impacts to waterways or in areas of rough terrain. Appropriate measures, including regular watering, will be implemented at landing zones in order to control dust. Helicopter use within HRCAs, PACs, and TRPA disturbance zones will be prohibited if vegetation treatment restrictions are concurrently in place.	Applicable to NTP-3	Measure to be implemented and verified during construction.

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APM-BIO-28	CalPeco will minimize vegetation and tree removal to only the areas necessary for construction, with particular attention given to minimizing effects on riparian areas and preserving trees greater than 30 inches diameter at breast height (dbh).	Applicable to NTP-3	This APM is addressed through the project's Timber Harvesting Plans, Forest Management Plan, and USFS Timber Sale Contract (see also MM 4.7-4). Measure to be implemented and verified during construction.
APM-BIO-29	Skidding of trees will not be permitted in waters of the United States or waters of the State, including wetlands. Within these waters tree removal may be conducted by hand, use of cable systems, helicopter yarding, or use of ground based equipment when determined suitable for ground based mechanical harvest. Any work conducted in the vicinity of waters of the United States, waters of the State, and wetlands will have an environmental monitor present, consistent with the requirements of APM WQ-4. Other APMs applicable to the protection of aquatic resources will also be implemented.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-30	Prior to commencing construction in any area containing aquatic resources or potential wetlands, a qualified biologist will conduct a delineation of waters of the United States according to methods established in the USACE wetlands delineation manual (Environmental Laboratories 1987) and Western Mountains, Valleys, and Coast Region Supplement (Environmental Laboratories 2010). The delineation will map and quantify the acreage of all aquatic habitats on the project site and will be submitted to USACE for verification. CalPeco will determine, based on the verified wetland delineation and the project design plan, the acreage of impacts on waters of the United States and waters of the state that will result from project implementation. Impacts will be avoided to the extent practicable through the siting of poles and other facilities outside of delineated waters of the United States and waters of the state. Work in wetlands or wet meadow habitats with saturated soil conditions will be scheduled when soils are dry to the extent possible. If soils become saturated, timber mats will be installed along all vehicle and equipment access routes to minimize rutting. Prior to disturbance of waters of the United States or waters of the state, an environmental monitor will record via photographs and field notes the pre-disturbance condition of the water. Disturbed waters will be restored to preconstruction conditions and seeded with a native species, consistent with the vegetation community present prior to disturbance, to stabilize the soils and minimize the introduction of invasive plants, as specified by the USACE and RWQCB. In accordance with the USACE "no net loss" policy, all permanent wetland impacts will be mitigated at a minimum of a 1:1 ratio. This mitigation will come in the form of either contributions to a USACE-approved wetland mitigation bank or through the development of a Compensatory Mitigation and Monitoring Plan aimed at creating or restoring wetlands in the surrounding area (although creation is not authorized by TRPA in their jurisdiction).	Applicable to NTP-3	A Final 401 WQC for Phase 1A and the compensatory mitigation agreement w/ TRWC for Phase 1A identify the extent of coverage from Martis Valley to Brockway Summit was provided to CPUC on August 1, 2015. A Final 401 WQC for Phase IB was received May 23, 2016 and provided to CPUC and details of required compensatory mitigation are included.
APM-BIO-31	Visibility permitting, all excavations will be inspected for sensitive aquatic wildlife prior to dewatering. Wildlife found in excavations will be allowed to leave passively or will be relocated by a qualified biologist.	Applicable to NTP-3	CalPeco provided a Construction Operating Plan to CPUC on June 15, 2015, which includes a

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			Dewatering and Discharge Plan (Tab P). The Plan addresses this requirement. Measure to be implemented and verified during construction.
APM-BIO-32	If dewatering of an excavation is needed, all dewatering pump intakes will be fitted with filter screening to prevent impacts to aquatic wildlife that may accidentally enter excavations. Water will not be pumped directly from rivers, streams, ponds, or other waters of the U.S. or wetlands (although as stated above, dewatering of excavations is permitted).	Applicable to NTP-3	CalPeco provided a Construction Operating Plan to CPUC on June 15, 2015, which includes a Dewatering and Discharge Plan (Tab P). The Plan addresses this requirement. Measure to be implemented and verified during construction.
APM-BIO-33	All trash and food will be removed from the site at the end of each workday in order to deter wildlife from entering the site.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-34	No pets or firearms will be allowed in the project area.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-35	No harm, harassment, or collection of plant and wildlife species will be allowed. Feeding of wildlife will be prohibited.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-BIO-36	Prior to construction, CalPeco will develop a Restoration Plan that will address final clean-up, stabilization, and revegetation procedures for areas disturbed by the project. The plan will be consistent with, and implement related commitments and requirements included in the EIS/EIS/EIR project description, other APMs, mitigation measures, and agency permit requirements. The Restoration Plan will address loosening of any compacted soil, restoration of surface residue, and reseeding. If existing unpaved roads require modification to temporarily allow passage of construction equipment during the construction period, these roads will be returned to their original footprint after construction is complete. On NFS lands, restoration activities will be designed and implemented to meet invasive plant management guidelines and Visual Quality Objectives (VQO) for the area. Areas temporarily disturbed by cut and fill activities will be re-graded to blend with the natural topography. On public land, CalPeco will coordinate with the land management agency to determine an appropriate seed mix or tree planting plan as well as other elements of the plan applicable to lands managed by the agency. On private land, CalPeco will coordinate with the landowner and/or provide the landowner with a suggested seed mix based on consultation with the agency of jurisdiction. The plan will include approved seed mixes, application rates, application methods, methods to record pre-disturbance conditions, success criteria for vegetation growth, monitoring and reporting protocols, and remedial measures if success criteria are not met. If	Applicable to NTP-3	CalPeco provided documentation of USFS approval of Operating Plan on July 30, 2015.CalPeco updated the Habitat Restoration Plan for 2016 activities and in response to LTBMU comments (see also MM 4.7-5). An USFS Record of Decision for the project was fully executed on July 24, 2015. Work will occur on the LTBMU in 2016 under an executed USFS Special Use Authorization amendment for work on LTBMU lands.

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	broadcast seeding is determined to be the most feasible application method, seeding rates will be doubled relative to the standard seeding rate and the seeding method rationale will be explained. The plan will also include long-term erosion and sediment control measures, slope stabilization measures, criteria to determine the success of these measures, remedial actions if success criteria are not met, and monitoring and reporting procedures. As part of normal equipment inspections during project operation, an evaluation of access ways will be conducted to confirm that use has not resulted in compaction that will result in "coverage" per TRPA standards.		
APM-BIO-37	Decommissioning the existing 625 Line ROW and allowing natural regeneration of coniferous forest and other native vegetation types will assist in offsetting or reducing the permanent loss of trees and other vegetation along the new 625 Line ROW. Prior to the removal of poles and conductor, a qualified biologist or soil scientist will identify areas of the abandoned ROW that contain unnaturally compacted soil (resulting from unauthorized public use, development of user-created trails, or other factors) that could limit the natural reestablishment of vegetation and assess whether local treatments will be needed to facilitate native vegetation recruitment and development. CalPeco will consult with the applicable land owner/manager to verify that areas identified for treatments are appropriate (e.g., not part of a system road, authorized trail network, or other desired use) and secure approval for restoration. Restoration of these sites will be overseen by a qualified biologist and will likely consist of a combination of the following. • Barricade existing access points and post appropriate signage to discourage use. Also incorporate into restoration actions minimizing the visibility of potential access points from intersecting roadways. • Loosen compacted soil to a depth of 6 to 8 inches. • Incorporate logs, boulders, mulch and other materials into the disturbed area to discourage use. • Apply appropriate erosion control BMPs (e.g., installation of check dams, mulch, log and/or rock stabilization) in areas where evidence of sheet, rill, or gully erosion exists. • Seed with a certified weed-free seed mix, approved by the applicable land owner/manager, containing native, site-appropriate species. • Apply 1 to 2 inches of locally obtained mulch such as pine needles, wood chips, or tub grindings. • Monitor for new invasive plant invasions and expansion of existing weed populations following treatments, and implement weed control measures where needed. Post-treatment monitoring for invasive plants will be conducted annually for up to three years, similar to the frequency and duration specified for USFS land in the USFS Invasive Plant Risk Assessment prepared for the project. • Conduct post-treatment monitoring and reporting every two years for up to 10 years, to evaluate success of restoration treatments. The details of the monitoring and reporting program, including identification and implementation of potential adaptive management actions based on monitoring results, will be developed jointly by CalPeco, TRPA, and the land owner/manager.	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time. To be addressed under Phase 3.

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MM 4.7-2a	Compensate for Unavoidable Loss of Stream and Riparian Habitat. The following measures would be implemented to avoid or compensate for the loss or degradation of stream or riparian habitat, ensure consistency with Fish and Game Code Section 1602, and further reduce potential adverse effects on riparian habitats: • CalPeco shall compensate for permanent riparian habitat impacts at a minimum of a 1:1 ratio through contributions to a CDFW approved wetland mitigation bank or through the development and a 1:1 ratio through contributions to a CDFW approved wetland mitigation bank or through the development and creating or restoring in-kind habitat in the surrounding area. If mitigation credits are not available, stream and riparian habitat compensation shall include establishment of riparian vegetation on currently unvegetated bank portions of streams affected by the project and enhancement of existing riparian habitat through removal of nonnative species, where appropriate, and planting additional native riparian plants to increase cover, continuity, and width of the existing riparian corridor along streams in the project site and surrounding areas. Construction activities and compensatory mitigation shall be conducted in accordance with the terms of a streambed alteration agreement as required under Section 1602 of the Fish and Game Code. • The Compensatory Stream and Riparian Mitigation and Monitoring Plan shall include the following: o identification of compensatory mitigation sites and criteria for selecting these mitigation sites; o in kind reference habitats for comparison with compensatory riparian habitats (using performance and success criteria) to document success; o monitoring protocol, including schedule and annual report requirements (Compensatory habitat shall be monitored for a minimum of five years from completion of mitigation, or human intervention (including recontouring and grading), or until the success criteria identified in the approved mitigation plan have been met, whichever is longer); o ecological performance standards, based on the best available science and including specifications for native riparian plant densities, species composition, amount of dead woody vegetation gaps and bare ground, and survivorship; at a minimum, compensatory mitigation planting sites must achieve 80 percent survival of planted riparian trees and shrubs by the end of the five-year maintenance and monitoring period or dead and dying trees shall be replaced and monitoring continued until 80 percent survivorship is achieved; o corrective measures if performance standards are not met; o responsible parties for monitoring and preparing reports; and o responsible parties for receiving and reviewing reports and for verifying success or prescribing implementation or corrective actions.	Applicable to NTP-3	A final Streambed Alteration Agreement (SAA) was approved by CDFW on July 31, 2015. CalPeco submitted documentation to CPUC on August 4, 2015 regarding CDFW concurrence with CalPeco's proposed approach for quantifying riparian vegetation impacts (Measure 2.25 in the SAA) as they occur before developing the final MMCRP (Measure 3.1 in the SAA) for the project. (see also APM-BIO-30)
MM 4.7-2b	Compensate for Unavoidable Loss of SEZ.	Applicable to NTP-3	CalPeco provided documentation of USFS approval

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	The following measures would be implemented to ensure consistency with TRPA Code Section 61.3 and Fish and Game Code Section 1602 and further reduce potential adverse effects on SEZs, streams, and riparian habitat: • Within the Tahoe Basin, all reasonable alternatives, including bridge spans, pole spans, and facility relocation; shall be implemented to avoid or reduce the extent of encroachment into SEZs. • In instances where there is no feasible alternative to avoid an SEZ, CalPeco shall mitigate all impacts within the boundaries of SEZs by restoring SEZ habitat (land capability district 1b) in the surrounding area, or other appropriate area as determined by TRPA, at a minimum ratio of 1.5:1, consistent with TRPA Code. • CalPeco shall retain a qualified restoration ecologist to prepare a restoration plan (see APM BIO-36) that will address final clean-up, stabilization, and revegetation procedures for areas disturbed by the project. The restoration plan for SEZs shall include the following: o identification of compensatory mitigation sites and criteria for selecting these mitigation sites; o complete assessment of the existing biological resources in the restoration areas; o in kind reference habitats for comparison with compensatory SEZs (using performance and success criteria) to document success; o monitoring protocol, including schedule and annual report requirements (Compensatory habitat shall be monitored for a minimum of five years from completion of mitigation, or human intervention (including recontouring and grading), or until the success criteria identified in the approved mitigation plan have been met, whichever is longer); o ecological performance standards, based on the best available science and including specifications for native plant densities, species composition, amount of dead woody vegetation gaps and bare ground, and survivorship; at a minimum, compensatory mitigation planting sites must achieve 80 percent survival of planted vegetation by the end of the five-year maintenance and monitoring period or dead and dying plants shall be replaced and monitoring continued until 80percent survivorship is achieved; o corrective measures if performance standards are not met; o responsible parties for monitoring and preparing reports; and o responsible parties for receiving and reviewing reports and for verifying success or prescribing implementation or corrective actions.		of Operating Plan on July 30, 2015.CalPeco updated the Habitat Restoration Plan for 2016 activities and in response to LTBMU comments (see also MM 4.7-5 and APM-BIO-36) Design Compliance Letter from the Engineer of Record addressing the SEZ avoidance provided to CPUC.
MM 4.7-4	Conduct a Tree Survey; Avoid Late Seral/Old-Growth Forest; Compensate for Loss of Trees. A Registered Professional Forester (RPF) shall conduct a focused tree survey to identify, map, and tabulate the number of trees in each relevant size class (6 inches or greater on non-Federal lands in Placer County,	Applicable to NTP-3, see conditions	Documentation of tree removal totals, including those in identified old growth stands, has been provided to CPUC for all areas covered under

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	greater than 14 inches within the jurisdiction of TRPA, greater than 24 inches eastside, greater than 30 inches westside) that would be removed as a result of the project. Following completion of the focused tree survey, a timber harvest/tree removal plan shall be prepared by a RPF. The plan shall include applicable APMs and additional necessary prescriptions for tree removal, water quality protection, protection of preserved trees, slash disposal, fire protection, and tree replacement. The plan shall contain all information required to be in a tree information report under the Placer County tree ordinance, for obtaining a tree removal permit. The plan shall comply with the minimum standards for tree removal, as described under TRPA Code 61.1.6 and with CAL FIRE timber harvesting plan standards, as applicable, under the Forest Practice Act. Before implementing any project activities that involve tree removal, the timber harvest plan shall be submitted to CAL FIRE for review and approval. Once approved, the plan shall be incorporated into the project design and all conditions of approval shall be implemented. CalPeco shall obtain a tree removal permit from TRPA for tree removal within the Lake Tahoe Basin. For construction on non-Federal lands within Placer County, CalPeco will implement APM BIO-36 and APM BIO-37 to restore vegetation disturbed by the project and offset the loss of trees in the new 625 Line; however, this may not be sufficient to fully offset the loss of trees resulting from project implementation. If it is determined that the loss of trees protected under County ordinance cannot be fully offset through implementation of APM BIO-37, CalPeco shall either replace trees at an off-site location or contribute to the County's Tree Preservation Fund; as determined in coordination with the County and in accordance with the Placer County Tree Ordinance (12.16.080 Replacement program and penalties). Before Improvement Plans are approved, the applicant shall provide proof to the County that one, or a combination, of the mitigation options described above has been completed and/or funded. Proof of mitigation fulfillment will also be provided to CDFW. CalPeco shall avoid loss of old growth forest to the extent feasible. If loss of late seral/old growth forest is unavoidable, CalPeco shall compensate for the loss of late seral/old growth forest through the development and implementation of a forest management plan, prepared by a RPF, to facilitate establishment of late seral/old growth forest stands and enhance existing late seral/old growth forest stands. The forest management plan shall include management actions, such as fuels and vegetation treatments, to facilitate and enhance old-growth development within the existing 625 Line to be removed and/or other potential treatment areas. The forest management plan shall clearly describe how the project shall achieve TRPA threshold standards for late seral/old growth forest enhancement, identify priority locations where enhancement actions could be implemented to achieve the plan's objectives, and include a funding component for late seral/old growth forest enhancement projects. The forest management plan shall be approved by TRPA before removal of any forest stands identified as late seral/old growth forest.		Phases 1A and 1B. Approved Timber Harvesting Plans (THP) for Phases 1A and 1B have been provided to CPUC. Documentation of LTBMU approval to proceed with Settlement Sale timber operations on LTBMU land provided to CPUC. TRPA has partially acknowledged their permit allowing tree removal/timber operations to occur on LTBMU lands only within the Lake Tahoe Basin. An acknowledged permit from TRPA shall be provided to the CPUC prior to line construction activities on LTBMU lands and prior to tree removal, line construction, and substation construction activities occurring on non-LTBMU lands in the Lake Tahoe Basin. Forest management plan, and documentation of approval by TRPA, provided to CPUC.
MM 4.7-5	Utilize Local Native Seed and Notify Noxious Weed Coordinator. CalPeco shall utilize locally collected native seed sources for revegetation when possible. Plant and seed material shall be collected from or near the project area, from within the same watershed, and at a similar	Applicable to NTP-3	CalPeco provided the Construction Operating Plan (dated May 2015) to the CPUC on June 15, 2015, which includes a Habitat Restoration Plan (Tab M),

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	elevation when possible and with approval of the USFS botanist. Persistent nonnatives such as cultivated timothy (Phleum pretense), orchard grass (Dactylis glomerata), or ryegrass (Lolium spp.) shall not be used. After the project is completed, the USFS noxious weed coordinator shall be notified so that the project area can be monitored by the USFS if desired. Monitoring could be for up to three years (as funding allows) subsequent to project implementation to ensure additional nonnative invasive species do not become established in the areas affected by the project and to ensure that known nonnative invasive species do not spread.		which includes this measure. The Habitat Restoration Plan has been updated for 2016 to include LTBMU comments on seed mixes. Documentation of reviews and approvals from LTBMU has been provided to CPUC.
APM-CUL-1	To the extent feasible, project design will avoid disturbance to significant heritage and cultural resources recommended or considered eligible for listing in the NRHP or CRHR. Avoidance may be achieved by various means such as placing poles outside the resource and spanning conductor across the resource and adjusting access way boundaries to avoid a resource. Resources to be avoided within the APE, or those immediately adjacent to the APE, will be designated as exclusion zones for all construction activity, including tree removal, and will be clearly marked with fencing, staking, flagging, or another appropriate material. Signage will be placed on the markers identifying the exclusion zone and stating that construction vehicles, equipment, and personnel are not permitted in the exclusion zone. If complete avoidance is not feasible, construction and/or tree removal methods will be implemented that minimize potential impacts, such as hand excavating holes with an archeological monitor present to inspect spoils and using a helicopter for pole placement to avoid vehicles passing over the resource. Appropriate construction methods for each situation will be developed in coordination with a qualified archeologist, the land owner/manager, relevant federal or state agencies, and Native American representatives if a Native American site.	Applicable to NTP-3	CalPeco provided a memo (dated May 15, 2015) from the engineer of record stating conformance with this measure.
APM-CUL-2	The proposed Northstar Golf Course Staging Area is located adjacent to a known heritage and cultural resources site considered eligible for listing in the NRHP or CRHR. If needed, the boundary of the staging area will be adjusted to provide at least a 10-foot buffer between the edge of the staging area and the identified edge of the resource site. A temporary barrier such as a fence or K-rail will be installed at the edge of the staging area adjacent to the resource site. Signage will be placed on the barrier identifying the exclusion zone and stating that construction vehicles, equipment, and personnel are not permitted in the exclusion zone.	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time (staging area not used as part of this NTP).
APM-CUL-3	If impacts to known, unevaluated archaeological resources cannot be avoided, a detailed test excavation plan and research design that follows the Secretary of the Interior's standards and guidelines will be developed to evaluate the sites that will be impacted. The plan and research design will be provided to the relevant federal or state agencies and the SHPO for review and approval before implementation. If such sites are determined ineligible for National Register or California Register listing (with concurrence from the SHPO), the sites will require no further consideration. If any of the tested resources are determined eligible to either register (with SHPO concurrence), a detailed data recovery plan will be developed for those parts of the resources that would be damaged or destroyed by the project, and provided to the relevant federal or state agencies and the SHPO for review and approval. Results of test excavations and data recovery will also be provided to Tribal representatives. Data recovery excavations may be sufficient to reduce impacts to the resources to the less-than-significant level.	Applicable to NTP-3	CalPeco provided the Cultural Resources Protection, Monitoring and Unanticipated Discovery Plan to CPUC on June 15, 2015. This applies to Phase 1A and 1B.

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APM-CUL-4	If impacts to historic-era resources cannot be avoided during project activities, the resources will be evaluated by a qualified historical archaeologist in coordination with relevant federal or state agencies. If the resources are determined ineligible for National Register or California Register listing (with SHPO concurrence), the resources will require no further consideration. If any of the resources are determined eligible to either register (with SHPO concurrence), a detailed treatment plan will be developed for those resources, and provided to the relevant federal or state agencies and SHPO for review and approval. Treatment may include additional archival research and/or field recordation	Applicable to NTP-3	See APM-CUL-3. Measure to be implemented and verified during construction.
APM-CUL-5	As outlined at 36 CFR part 800, the implementing regulations of Section 106 of the NHPA, if NRHP-eligible heritage and cultural resources will be adversely affected by a proposed undertaking, a Memorandum of Agreement (MOA) or Programmatic Agreement (PA) will be developed and signed by appropriate parties (i.e., the LTBMU, Tahoe National Forest, USACE, ACHP, California SHPO, CPUC, interested tribes, local governments, and other parties) to identify appropriate treatment measures and implement procedures for mitigating adverse effects to the resources. If it is determined that the NRHP-eligible resources cannot be avoided or preserved in place through identification of construction exclusion zones, through route/project re-design, or capping an archaeological site with soil, mitigative treatment may include data recovery, archival research, and/or field recordation consistent with APMs CUL-3 and CUL-4, excavation as mitigation (data recovery restricted to the parts of the resource that would be damaged or destroyed by the project), archaeological monitoring during construction, Tribal monitoring, a plan for unanticipated discoveries, curation, reporting, or similar measures. Compliance with the requirements of Section 106 of the NHPA will also result in compliance with Chapter 67 Resource Protection of the TRPA Code of Ordinances, including Section 67.3.3 Resource Protection Plan.	Applicable to NTP-3	See APM-CUL-3. Measure to be implemented and verified during construction.
APM-CUL-6	CalPeco will ensure completion of heritage and cultural resources survey of all areas within the ultimate project APE of the selected alternative that have not already been surveyed, such as property where access was not previously available, future minor changes in the alignment of the power line and access roads or the location of other components that may be proposed because of engineering constraints, the need to avoid other sensitive resources, and other considerations. Each of these unsurveyed areas will be added to the project's APE as appropriate, and will be intensively surveyed prior to ground disturbance to document and record the presence or absence of heritage and cultural resources. The work may require preparation of a supplemental inventory report for review and approval by the relevant federal or state agencies. Where landowners may legally limit the ability to conduct surveys, the survey area may be restricted to only the area of ground disturbance, or other accommodations made in coordination with lead agencies participating in the Section 106 process (e.g., intensive monitoring during ground disturbance). Prior to any tree removal activities associated with project construction that occur outside of the APE in which cultural resources surveys have been completed, a cultural resources survey of the area will be performed by a professional archaeologist to help ensure no known resources would be impacted. If cultural resources are discovered, they will be treated consistent with the requirements of other applicable APMs.	Applicable to NTP-3	CalPeco provided documentation from the engineer of record on July 28, 2015 confirming that two sites are located outside of the 2016 scope of work (in the Truckee area) and no construction will occur in or around the areas. The Cultural Resource Monitoring Plan shows areas within the proposed 2016 scope have been cleared for cultural work.
APM-CUL-7	CalPeco will design and, with agency approval, implement a Worker Environmental Awareness Program (WEAP)	Applicable to NTP-3	The WEAP Program has been updated for 2016

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	that will be provided to all construction personnel and supervisors who will have the potential to encounter and alter heritage and cultural resources. The topics to be addressed in the WEAP will include, at a minimum: • types of heritage and cultural resources expected in the project area; • types of evidence that indicates heritage or cultural resources might be present (e.g., ceramic shards, trash scatters, lithic scatters); • roles and responsibilities of the construction monitors; • importance of avoiding areas flagged or otherwise identified as sensitive; • what to do if a worker encounters a possible resource; • what to do if a worker encounters bones or possible bones; and • penalties for removing or intentionally disturbing heritage and cultural resources, such as those identified in the Archeological Resources Protection Act (ARPA).		activities. Verification and sign-in sheets to be provided during construction.
APM-CUL-8	Prior to construction, CalPeco will prepare for agency approval a Construction Monitoring and Unanticipated Discovery Plan that will present, in detail, procedures to be implemented during construction (e.g., numbers of archaeological and Native American monitors, the qualifications of monitors [expertise in Washoe cultural resources], buffer zones, work stoppage guidelines). At a minimum, if a potential heritage or cultural resources is discovered, construction will be halted within 50-feet of the site until a qualified archeologist can evaluate the find. If the archeologist can determine at the time that the find would not be eligible for the NRHP or CRHR and does not contain human remains, construction may proceed after the find is properly documented and/or collected. Otherwise, applicable elements of other APMs will be implemented. The Construction Monitoring and Unanticipated Discovery Plan will also discuss procedures for immediate work stoppage and treatment in the event of discovery of human remains during construction activities.	Applicable to NTP-3	See APM-CUL-3. Measure to be implemented and verified during construction.
APM-CUL-9	If human remains are discovered, all work within 50 feet of the discovery site will halt immediately. CalPeco will notify the County Coroner, as stipulated in Section 7050.5 of the HSC. The Coroner will determine whether the remains are Native American and, if so, will contact the NAHC by telephone within 24 hours. The commission will follow the stipulations in Section 5097.98 of the PRC, including notification of those persons it believes to be most likely descended from the deceased Native American. If the commission is unable to identify a descendant, the descendant is unable to make a recommendation, or the landowner rejects the recommendation, the NAHC will mediate any dispute between the parties. Where such mediation fails to provide measures acceptable to the landowner, the landowner shall reinter the human remains and associated funerary items with appropriate dignity on the property, in a location not subject to further subsurface disturbance. If human remains are discovered on federally managed lands, the provisions of NAGPRA will apply. For NAGPRA-associated discoveries, it may be necessary to provide 24-hour, on-site security.	Applicable to NTP-3	See APM-CUL-3. Measure to be implemented and verified during construction.
APM-CUL-10	The WEAP prepared for other resources will also address the identification and appropriate treatment of potential fossil finds. If fossils or other paleontological resources are encountered during construction, all work	Applicable to NTP-3	See APM-CUL-7.

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	will be halted within a 30-foot radius of the find and a qualified paleontologist will be contacted to examine the find and evaluate its significance. If the find is deemed to have scientific value, the paleontologist and CalPeco will formulate a plan to either avoid impacts or to continue construction without disturbing the integrity of the find (e.g., by carefully excavating the material containing the resources under the direction of the paleontologist followed by routine conservation, laboratory preparation, and curation).		
APM-SOILS-1	Sediment control structures, such as silt fencing, coir logs, wattles, straw mulch, and straw bale check dams will be installed, as appropriate and effective given the situation, to contain sediment within construction work areas and staging areas. Where soils and slopes exhibit high erosion potential, additional sediment control structures, such as erosion control blankets, matting, and other fabrics may be installed. Implementation and maintenance of these BMPs and any others identified in the SWPPP will be monitored by a qualified environmental monitor to ensure effectiveness. In addition, a winterization plan will be prepared and incorporated into the SWPPP addressing erosion and sediment management on the project site during the winter months. Implementation, monitoring, and maintenance of BMPs will be adjusted accordingly during the winter months consistent with the winterization plan.	Applicable to NTP-3, see conditions	All NTP-3 activities will be completed in 2016, all BMPs will either be removed as temporary construction BMPs, or will fall into permanent site restoration in compliance with the Habitat Restoration Plan. The completed SWPPP for Phase 1B work within the Lake Tahoe Basin is pending completion. When complete, and an associated permit WDID is issued by LRWQCB, these will be provided to the CPUC. CalPeco provided a timber waiver from LRWQCB allowing tree removal activity only within the Lake Tahoe Basin.
APM-SOILS-2	A California Registered Professional Geologist or a California Registered Civil or Geotechnical Engineer will conduct a geotechnical analysis and prepare a Geotechnical Engineering Report that will be used to develop the final design of all project components (access ways, staging areas, substations stations, and poles) in order to avoid or minimize damage related to geologic hazards, including seismic activity, slope stability, and soil limitations (expansive and unstable soils) and to ensure that all applicable codes and seismic standards are adequately addressed in the design and construction of the project. The report will address and make recommendations on the following: • Access way and road design; • Structural foundations; • Grading practices; • Erosion/winterization; • Special problems discovered on-site (i.e., groundwater, expansive/unstable soils, etc.); • Slope stability; and • Post-construction restoration. The Geotechnical Engineering Report will also incorporate construction standards required by the CPUC and	Applicable to NTP-3	CalPeco provided documentation from the engineer of record on June 15, 2015 that the 650 line design has been completed based on a geotechnical assessment completed by a California Registered Professional Geotechnical Engineer. The geotechnical study (dated January 9, 2014) was completed within compliance of this APM and was included in the CPUC submittal.

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	standards recommended by the Institute of Electrical and Electronics Engineers (IEEE 693), "Recommended Practice for Seismic Design of Substations." The final design will be reviewed and approved by a Professional Engineer registered in the State of California prior to construction. The Geotechnical Report will be provided to the lead agencies. It is the responsibility of the applicant to provide for engineering inspection and certification that earthwork has been performed in conformity with the recommendations contained in the report.		
APM-HAZ-1	Prior to construction, all CalPeco, contractor, and subcontractor project personnel will receive training regarding the appropriate work practices necessary to effectively implement the APMs to comply with the applicable environmental laws and regulations associated with hazardous materials.	Applicable to NTP-3	WEAP training materials have been updated for 2016 activities and includes HAZ requirements.
APM-HAZ-2	Prior to the ground disturbance at the Brockway Substation parcel, if disturbance is determined to be necessary, a Phase I environmental site assessment (ESA) will be conducted for the site to determine if there is any surface or subsurface contamination. Recommendations included in the Phase I ESA will be implemented. If hazardous materials are identified, recommendations could include, but would not be limited to, a Phase II ESA and/or cleanup of known identified hazardous wastes. If contamination is found to be present, remediation will occur in accordance with all applicable federal, state, and local regulations.	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time (Brockway Substation parcel). To be addressed for activities proposed under Phase 2 and 3 as applicable.
APM-HAZ-3	During the Brockway Substation decommissioning process, the existing equipment to be removed will be tested in accordance with federal, state, and local standards to determine appropriate recycle, reuse, or disposal alternatives.	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time (Brockway Substation parcel).
APM-HAZ-4	CalPeco will coordinate with the Truckee-Tahoe Airport Land Use Commission (ALUC) to obtain approval of the height increase for the 132/650 Line double-circuit and the 650 Line to help ensure that the project will not create a new airport hazard in accordance with the Truckee-Tahoe ALUC Plan.	Applicable to NTP-3	CalPeco provided documentation of coordination with the Truckee-Tahoe ALUC and the ALUC's review and approval of applicable poles on May 24, 2016.
APM-HAZ-5	Prior to construction, CalPeco will prepare a Fire Suppression and Prevention Plan that will discuss necessary fire equipment to be stored at the project staging areas, appropriate protective wear, preconstruction and construction fire prevention measures, fire-fighting methods, and notification procedures in the event of a fire. This plan will be submitted to the USFS and/or TRPA, or other applicable land management agency for review and approval prior to the start of construction.	Applicable to NTP-3	CalPeco provided documentation of review and approval of the Fire Suppression and Prevention Plan by the USFS on May 16, 2016 and TRPA on May 6, 2016. The final CAL FIRE approved in-basin THP (5 MEG), dated May 23,2016, serves as confirmation that CAL FIRE approves the project Fire Prevention and Suppression Plan.
APM-HAZ-6	Smoking will only be allowed in designated cleared areas or enclosed vehicles to reduce the potential for wildfires.	Applicable to NTP-3	Measure to be implemented and verified during construction.
MM 4.10-2	Implement Blasting Safety Measures If blasting is required as part of project construction, CalPeco shall hire a blasting contractor licensed by the Federal Bureau of Alcohol, Tobacco, and Firearms and who possesses all other necessary licenses and certifications applicable to blasting in the project area. Prior to construction activities that require the use of explosives, the blasting contractor shall prepare and submit a Blasting Safety Plan (or similar document as	N/A to covered activities in NTP Request.	CalPeco provided a Construction Operating Plan to the CPUC on June 15, 2015, which included a Blasting Plan (Tab I) (conformance with NOI-4 and NOI-5 included).

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	required) to the Placer County Engineering and Surveying Division and the local fire protection district or department in which the blasting activity will take place. The plan shall, at a minimum, address the following. • Evidence of licensing as required by the US Department of Justice, Bureau of Alcohol, Tobacco, Firearms and Explosives, experience, and qualifications of all members of the blasting team. • Pre-blast notifications to the local fire department, residents, landowners, land management agencies, utilities, and others potentially affected by blasting operations. • The means for safe transportation and on-site storage and security of explosives in accordance with local, state and federal regulations. • The minimum acceptable weather conditions for blasting. • Minimum clearance distances between blasting and nearby land uses. • Traffic control standards and traffic safety measures (if applicable). • Requirement for provision and use of personal protective equipment. • Minimum standoff distances and description of blast impact zones and procedures for clearing and controlling access to the impact zones. • Procedures for handling, setting, wiring, and firing explosives. Also, procedures for handling misfires per federal code. • Type and quantity of explosives and description of detonation device. Sequence and schedule of blasting rounds, including general method of excavation, lift heights, etc. • Methods of matting or covering of blast area to prevent flyrock and excessive air blast pressure (where applicable). • Dust control measures in compliance with applicable air pollution control regulations (to interface with general construction dust control plan). • Emergency Action Plan to provide emergency telephone numbers and directions to medical facilities. Procedures for action in the event of injury. • Storage of and access to Material Safety Data Sheets for each explosive or other hazardous materials to be used. • Description of the insurance for the blasting work.		No Blasting is proposed in 2016.
MM 4.10-3	Prepare and implement a Hazardous Materials Contingency Plan. A hazardous materials contingency plan shall be prepared that describes the necessary actions that would be taken if evidence of contaminated soil or groundwater is encountered during construction. The contingency plan shall identify evidence that could indicate potential hazardous materials contamination, including soil discoloration, petroleum or chemical odors, presence of USTs, or buried building material. The plan shall include measures to protect worker safety if signs of contamination are encountered (e.g., stopping work in the vicinity of the potential contamination), identify sampling and analysis protocols for various substances that	Applicable to NTP-3	CalPeco provided a Construction Operating Plan to the CPUC on June 15, 2015, which included a Hazardous Materials Management and Spill Prevention Plan (Tab H, updated on July 30, 2015), which includes requirements for the SPCC (APM-WQ-1).

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	might be encountered (e.g., volatile organic compounds, hydrocarbons, heavy metals), and list required regulatory agency contacts if contamination is found. The plan shall also identify legal and regulatory processes and thresholds for cleanup of contamination. The project applicant shall retain the services of a qualified environmental contractor to prepare the contingency plan. The plan, and obligations to abide by and implement the plan, shall be incorporated into the construction and contract specifications of the project. The requirements of the plan shall be incorporated in the APM and work practices training that would be implemented as part of APM HAZ-1.		
MM 4.10-5	Power line shall be installed in compliance with height requirements approved by the Truckee Tahoe Airport Land Use Commission. If, as part of ALUC height review, any proposed power poles are classified as a hazard to flight by the ALUC, the pole heights shall be adjusted to conform with ALUC height requirements, as long as heights do not violate design and safety standards. Minor route adjustments within the existing 200-foot wide resource survey corridor may also be considered to assist in meeting height requirements. If a sufficient height reduction cannot be achieved, the power line in this area shall be installed underground.	Applicable to NTP-3	See APM-HAZ-4.
APM-WQ-1	All refueling will be conducted at least 100 feet away from waterways, within designated refueling stations. If refueling within 100 feet of a waterway or RCA is unavoidable, CalPeco will require that spill kits are on site, install secondary containment to control accidental spills, and notify an environmental monitor prior to fueling. Environmental monitors will regularly inspect refueling areas to help ensure that proper measures are being implemented in accordance with the project's SWPPP and Spill Prevention, Control and Countermeasure (SPCC) Plan.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-WQ-2	All concrete washouts will be conducted either into excavations where the concrete was poured, within designated concrete washout areas, or will be captured using a washout-recycling system. Crews will not be allowed to dispose of concrete directly onto the ground.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-WQ-3	Where feasible (e.g., landowner approval is provided, sufficient space with permeable surfaces is available, slopes are gentle enough to allow control of potential sediment transport), all stormwater or groundwater removed from excavations will be discharged overland into well-vegetated areas to promote the settling of sediment. If overland discharge is not possible, then water removed from excavations will be collected, treated, and disposed of consistent with requirements of the Lahontan Regional Water Quality Control Board and any other agencies with jurisdiction over the activity.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-WQ-4	When working near aquatic resources, poles and trees will be cut by hand and felled away from such features (unless there is an ecological reason to do otherwise that is approved by applicable regulatory agencies, such as adding coarse woody debris to a stream to enhance fish habitat). The skidding of poles and trees through aquatic resources will not be permitted. Within Stream Environment Zones (SEZs) poles and trees will be removed by hand, by cable system, or by helicopter. No mastication will occur in SEZs and no chip material will be left in SEZs unless approved for erosion control. Vehicles and equipment will be staged away from aquatic features, along	Applicable to NTP-3	Measure to be implemented and verified during construction.

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	designated access routes or within staging areas. If there are circumstances where disturbance to the bank or channel of an aquatic feature is unavoidable, CalPeco will restore the banks and channels to preconstruction conditions immediately afterwards. An environmental monitor will be present in all instances where disturbance to an aquatic feature may occur to ensure conditions of this APM and any other applicable APMs, permit conditions, and mitigation measures are complied with.		
APM-WQ-5	When construction activities are required adjacent to flowing streams or rivers, work will be conducted during low-flow conditions (i.e., when surface flow is restricted to the low-flow channel, as confirmed by the environmental monitor).	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-WQ-6	In areas where topsoil has not been salvaged, construction activities will be limited when the environmental monitor determines that the soil is too wet to adequately support vehicles and equipment. Where soil conditions are deemed too wet to work, one of the following measures will apply. Access will be limited to the minimum area feasible for construction. Where possible, vehicles and equipment will be routed around wet areas so long as the re-route does not cross into sensitive resource areas. If wet areas cannot be avoided and soil moisture is too high to strip topsoil, BMPs, including the use of wide-track or low ground pressure equipment or installation of prefabricated equipment pads or timber mats, will be implemented for use in these areas to minimize rutting and off-site sedimentation.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-WQ-7	CalPeco will minimize vehicle and equipment usage within and crossing of stream channels and other aquatic resources consistent with the requirements of other APMs. If vehicles and equipment must cross stream channels or other aquatic resources, CalPeco will construct shoo-fly access roads, install culvert crossings, or use other methods to access either side of the resource or utilize existing bridges, where feasible, in order to minimize the need to install temporary bridges. Limit crossings to no more than one for every 800 feet of channel. If there are no existing crossings and the construction of shoo-fly roads or other crossing methods may cause greater resource impact, CalPeco will install timber mats, slash mats, or other materials suitable for a temporary bridge. If bridges are installed over streams with discernible flow, all attempts will be made to span the channel. Temporary crossings on ephemeral or intermittent drainages will be constructed and removed, to the maximum extent feasible, when the channels are dry and will be removed before the winter season begins. These crossings will be designed to not obstruct water flow and fish passage and to accommodate flows from a 1 inch or greater precipitation event.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-WQ-8	CalPeco will obtain permits from appropriate regulatory agencies prior to commencing work in waters of the United States or waters of the state. Following construction, CalPeco will restore any impacted waterbodies and wetlands to pre-project conditions and compensate for any permanent wetland impacts in accordance with the US Army Corps of Engineer's "no net loss" policy.	Applicable to NTP-3, see conditions	A final Streambed Alteration Agreement was executed on July 31, 2015. ACOE permitting completed in 2015 and is applicable for entire 650 line. Final 401 Water Quality Certification (WQC) from

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			LRWQCB (August 10, 2015) for Phase IA (Northstar to /NTP-2 Brockway Summit) is complete. Final 401 WQC from LRWQCB for Phase 1B (Brockway Summit to Kings Beach substation) dated and received May 23, 2016. The completed SWPPP for Phase 1B work within the Lake Tahoe Basin is pending completion. When complete, and an associated permit WDID is issued by LRWQCB, these will be provided to the CPUC. (see APM-SOILS-1)
MM 4.6-3a	Follow USFS Guidance on Locating and Designing Roads to Protect Water Quality and Incorporate Erosion Control BMPs for all New Access Ways or Improvements to Existing Roads. Avoid Constructing Access Ways Steeper than 15 Percent Gradient Where Feasible and When Required Implement Site-Specific Proven BMPs to Prevent Concentrated Runoff and Gullying. During the project design process, the applicant shall follow USFS Guidance (USFS 2011) and coordinate directly with representatives of the LTMBU and Tahoe National Forest in their respective project areas to identify optimum siting, design and erosion control BMP type and placement for new access ways and modified access roads. USFS guidance on locating and designing roads to minimize problems and risks to water, aquatic, and riparian resources includes (USFS 2011) the following. Fit the terrain, limit the need for excavation, and prevent damage to resources. Avoid riparian areas, wetlands, meadows, overly steep slopes and unstable landforms to the extent practicable. Use bridges or raised prisms with diffuse drainage to sustain flow patterns. Set crossing bottoms at natural channel bed and wet meadow surfaces. Balance cut and fills, consider full bench construction or mechanically stabilized fills on unstable slopes or slopes greater than 60 percent Design road surfaces to dissipate intercepted water via outsloping, insloping with drains or crowning with drains Reduce hydrologic connectivity of the road segment and limit connectivity to water crossings Incorporate stormwater and erosion controls and properly spaced cross drains to disperse flows Design stable ditch configurations and include energy dissipaters at culvert outlets Designs will also include minimizing road sections with 15 percent or steeper gradients and outsloping and designing an adequate number of cross-drains. BMPs could include rolling dips, waterbars, rock-dissipaters, or other measures sufficient to meet USFS standards.	Applicable to NTP-3, see conditions	Final LTBMU approval of road design plans for construction activity occurring on LTBMU lands shall be provided prior to construction activity occurring on LTBMU lands.

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	More specific design criteria to be followed include the following. A typical 150-foot spacing for grade reversals. Locate grade reversals to hydraulically disconnect the road from surface waters. Use drainage dips as an exception when reverse grades cannot be achieved. Contour road alignments to have an average grade of 7 percent. Maximum road grade will equal ½ slope grade when over 7 percent. Maximum road alignment length of 150-feet over 7 percent grade. Avoid fall line locations.		
MM 4.6-3b	Incorporate into Annual Power Line Inspection and Maintenance Routines a Permanent ROW and Access Way/Road Inspection and Maintenance Program. Include observations and recordings of any aggravated compaction or erosion along the ROW and access ways/roads into the annual power line inspections. Note any evidence of rilling, gullying, rutting, or drainage capture along the ROW and access ways. Also note any effects of unauthorized access. Make repairs and implement measures in line with the USFS Guidance on Locating and Designing Roads to Protect Water Quality to reduce or eliminate any erosion issues including limiting public access via gates, placement of rocks or logs, plantings, or signage; minimizing compaction; interrupting, distributing and attenuating peak flows through rolling dips; check dams, and preventing road capture of drainages via culverts, fords crossings and other mechanisms.	Applicable to NTP-3	Once construction of the 650 Line Rebuild is complete, CalPeco will develop and/or amend their existing Operations Plan on USFS parcels to include the measures identified in MM 4.6-3b.
MM 4.6-5	Prepare and Implement a Dewatering and Discharge Plan. A dewatering and discharge plan shall be developed, submitted to TRPA and the LRWQCB for approval and implemented prior to initiating any excavation activities to protect groundwater resources in addition to surface waters in the event that groundwater is intercepted during project activities. The dewatering and discharge plan shall provide methods to protect groundwater during excavations from potential contaminant releases during equipment use and refueling, such as specific spill control and clean up and response measures in the vicinity of excavations. Additionally the dewatering and discharge plan shall include methods to collect and treat the sediment-laden water prior to releasing directly to a surface or groundwater source or demonstrate that it can be used to irrigate or applied as dust control without short-circuiting directly to surface waters.	Applicable to NTP-3	CalPeco provided a Construction Operating Plan to CPUC on June 15, 2015, which includes a Dewatering and Discharge Plan (Tab P).
APM-NOI-1	CalPeco will provide notice of construction to all property owners within 300 feet of the project by mail at least 1 week prior to the start of construction activities. The announcement will state the construction start date, anticipated completion date, hours of operation, and the project's website where questions can be asked and complaints can be received.	Applicable to NTP-3	CalPeco has provided the mailing list and notification letters to CPUC.

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APM-NOI-2	CalPeco will post a telephone number for excessive noise complaints in conspicuous locations in the vicinity of the project site when within 1,000 feet of residences.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-NOI-3	CalPeco will designate a Disturbance Coordinator, who will be responsible for responding to any local complaints about construction noise. The Disturbance Coordinator will determine the nature of the noise complaint and will propose reasonable measures to correct the problem.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-NOI-4	Construction activities, including any blasting and helicopter flights, will occur during the times established by local ordinances (and allowing for any exceptions that local agencies and ordinance conditions may provide)—8:00 a.m. to 6:30 p.m. in TRPA jurisdiction, 6:00 a.m. to 8:00 p.m. Monday through Friday and 8:00 a.m. to 8:00 p.m. Saturday and Sunday in Placer County and 7:00 a.m. to 9:00 p.m. Monday through Saturday and 9:00 a.m. to 6:00 p.m. on Sunday in the Town of Truckee—with the exception of certain activities where nighttime construction activities are necessary. These activities include, but are not limited to, the delivery of substation transformers, filling of substation transformers, system transfers, pouring of foundations, and pulling of the conductor across major roadways, which require continuous operation or must be conducted during off-peak hours per agency requirements.	Applicable to NTP-3	A line of clarification has been added in the Job Info Sheet from Columbia Helicopters, Inc. under 'Job Description' stating, "Helicopter flights will occur only between the hours of 8:00 am and 6:30 pm." Measure to be implemented and verified during construction.
APM-NOI-5	No blasting will occur within 50 feet of any existing building, or within 250 feet of a residence or other occupied structure, or in a location or manner that would be inconsistent with other APMs. If large rock outcroppings need to be removed and are within 50 feet of a building or 250 feet of an occupied structure, alternative methods to blasting, such as silent chemical demolition, may be used to break apart and remove the rock.	Applicable to NTP-3 (alternative methods, if used)	Measure to be implemented and verified during construction.
APM-NOI-6	All internal combustion-engine driven equipment will be equipped with intake and exhaust mufflers that are in good condition and appropriate for the equipment.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-NOI-7	Stationary noise-generating equipment will be located as far as possible from sensitive receptors when they adjoin or are within 1,000 feet of a construction area.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-NOI-8	Quiet air compressors and other stationary equipment will be utilized when possible within the Town of Truckee limits and within developed areas of Tahoe City and Kings Beach.	Applicable to NTP-3	Measure to be implemented and verified during construction.

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APM-NOI-9	Helicopter flight patterns will be designed to avoid and minimize flights over residential areas to the extent practical.	Applicable to NTP-3	A map of the helicopter work area has been added to clarify that veg management helicopter operations will occur on the north side of SR267, away from closest residential areas on south side of SR 267. Measure to be implemented and verified during construction.
APM-NOI-10	CalPeco will respond to third-party complaints of audible noise generated by operation of system facilities by investigating the complaints and by implementing feasible and appropriate measures. As a part of CalPeco's repair inspection and maintenance program, the power line will be patrolled and damaged insulators or other power line materials, which could cause interference and result in atypically loud corona noise, would be repaired or replaced.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-NOI-11	Caution will be exercised during construction to try to avoid scratching or nicking the conductor surface, which may provide points for corona generation to occur.	Applicable to NTP-3	CalPeco provided a memo (dated May 15, 2015) to the CPUC on June 15, 2015 from the engineer of record stating that Tri Sage has incorporated into the construction specifications the requirement that the line contractor will ensure means and methods that will avoid scratching or nicking the conductor surface. Additionally, CalPeco will retain a Quality Assurance Inspector that will be focused on verification of construction installation with all project drawings, contract, permits, construction operating plan and specifications.
MM 4.14-1	Potential construction activities outside allowable timeframes. For all construction activity that is to take place outside of allowable timeframes (typically nighttime construction) within 700 feet of any sensitive land use (e.g., houses, schools, churches, hospitals), the construction contractor shall ensure that noise levels at the nearest sensitive receptors do not exceed 45 dBA Leq in Placer County, 50 dBA Leq in the Town of Truckee, and applicable CNEL standards for TRPA PASs as shown in Table 4.14-3. To achieve compliance with these standards, the applicant shall: Install temporary noise curtains that meet the following parameters: Install temporary noise curtains as close as possible to the boundary of the construction site within the direct line of sight path of the nearby sensitive receptor(s). Temporary noise curtains shall consist of durable, flexible composite material featuring a noise barrier layer	Applicable to NTP-3	Measure to be implemented and verified during construction. during construction.

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	bounded to sound-absorptive material on one side. The noise barrier layer shall consist of rugged, impervious, material with a surface weight of at least one pound per square foot.		
APM-REC-1	A public-liaison will be assigned by CalPeco to provide the public with advance notification of construction activities at least 15 days prior to the start of construction activities. A project website will be developed for the public to ask questions about the construction process and schedule. Concerns related to dust, noise, odor, trail closures, and access restrictions associated with construction activities will be addressed within this program.	Applicable to NTP-3	See APM-NOI-1. CalPeco provided the name and contact information for the public-liaison on July 30, 2015. That same person will handle this responsibility for Phase 1B.
APM-REC-2	CalPeco will provide the USFS, in the form of an annual construction plan, with advance notice of all construction activities potentially within its jurisdiction and affecting recreation areas and trail systems, including temporary trail closures, within the forest. CalPeco will coordinate with USFS prior to preparation of the plan to avoid conflicts with known, scheduled, permitted events. Such avoidance will be reflected in the annual construction plan. Notification to USFS officials will be provided at least 60 days before construction begins in these areas.	Applicable to NTP-3	Email communication from CalPeco to LTBMU, dated April 28, 2016, as well as a news release regarding the in-basin portion of the project to be completed in 2016 was provided to CPUC. CalPeco submitted a Project Construction Operation Plan to LTBMU in support of the Special Use Permit Amendment. The LTBMU approval is reflected in the approved SUP Amendment. Measure to be implemented and verified during construction.
APM-REC-3	Signs advising recreationists of construction activities and directing them to alternative trails or bikeways will be posted at all trail access points or in locations as determined through coordination with the respective jurisdictional agencies. Signage describing the closures will be posted at trail access points one week prior to closures, will remain posted during the entire closure period, and will be removed upon completion of construction.	Applicable to NTP-3	Measure to be implemented and verified during construction.
APM-REC-4	Where helicopters will be used for construction, signage advising equestrians of the schedule for helicopter use will be posted at all equestrian trail-access points within the vicinity of the flight paths one week prior to helicopter activity. These signs will be checked and maintained daily until helicopter operation in the area ceases.	N/A to covered activities in NTP Request.	Measure to be implemented and verified during construction.
APM-REC-5	Pulling of conductor over the Truckee River will occur during the months of April, October, or November to minimize impacts to rafting operations.	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time. To be addressed in Phase 3 with Truckee River Crossing
APM-REC-6	CalPeco has agreed at the request of California State Parks to complete construction in the vicinity of Burton Creek State Park with no new access and with limited impact to the existing ROW for an agreed upon section of three poles. Excavation for pole installation in Segment 625-2 between southwest corner of Burton Creek State Park and the southernmost portion of Segment 625-3, where the State Park road meets the Fiberboard Freeway, will be done by hand; pole removal and replacement will be carried out by helicopter. All access	N/A to covered activities in NTP Request.	This measure applies to construction-phase activities not applicable at this time. To be addressed in Phase 3.

APM/ MM	Mitigation Measure	Applicability/Status	Notes
	ways created for the 625-Line between the end of pavement of the Fiberboard Freeway and the east west alignment of the existing 625 Line alignment in the vicinity of the southwest corner of Burton Creek State Park, will be closed to recreational access to prevent non-State Park system route and trail proliferation. This is an approximately 1,800 foot segment of the proposed 625 Line alignment.		
APM-REC-7	CalPeco will install access way barriers (e.g., gates where system maintenance and administrative access is anticipated, boulders, logs) and signage along any overland travel ways to minimize the possibility of establishing new recreational paths (both motorized and non-motorized). Other methods to manage recreational use, such as applying layers of mulch to prevent motorized route development, providing wayfinding signage to direct non-motorized use, and using restoration plantings to screen temporary access ways that are no longer used, can also be employed. Temporary access ways that are no longer used will be permanently blocked. These actions will be completed as prescribed under the Construction Operation and Maintenance Plan for the project that will be prepared by the Applicant and approved by the USFS prior to construction.	Applicable to NTP-3	CalPeco provided a Construction Operating Plan to CPUC on June 15, 2015, which includes a Travel and Access Plan (Tab J) that identifies consistency with this measure. CalPeco provided documentation to the CPUC on August 4, 2015 that the Construction Operating Plan was approved by the USFS on July 31, 2015.
APM-REC-8	Several APMs address management, protection, and restoration of physical conditions in the project construction zone (e.g., APMs SCE-1, BIO-23, BIO-28, BIO-36, SOILS-2). APM BIO-36 specifically calls for development and implementation of a site Restoration Plan. The Restoration Plan developed under APM BIO-36 will also address final clean-up, stabilization, and reconstruction of recreation areas and access points on NFS lands disturbed by the project. The plan will be consistent with, and implement related commitments and requirements included in the EIS/EIS/EIR project description, other APMs, and mitigation measures. The Restoration Plan will address restoration of the recreation facilities to a pre-construction condition, and will be consistent with the USFS Recreation Opportunity Spectrum (ROS) system, Built Environment Image Guide (BEIG), and accessibility requirements. Restoration activities will be sufficient to result in no permanent net loss of recreation facilities or loss of character to these facilities on NFS lands upon completion of the project.	Applicable to NTP-3	CalPeco provided an addendum to the Restoration Plan to CPUC on May 26, 2016. The addendum addresses restoration activities associated with reconstruction of recreation areas, as outlined in this APM.
APM-UTL-1	During the project design process, the applicant will coordinate with utility providers in the project area to identify the location of underground facilities in the vicinity of the selected alignment and staging areas. The final excavation and grading plans will avoid existing utilities where possible; and where it is not possible to avoid utilities, the applicant will coordinate with service providers to minimize disturbance. Prior to start of construction, the applicant will verify utility locations through field surveys and use of the Underground Service Alert (USA) services. Any buried utility lines will be clearly marked in construction areas. Prior to start of construction, the applicant will prepare a response plan to provide procedures to be followed in the event of accidental damage to a utility line. The plan will identify chain-of-command rules for notifying authorities and appropriate actions and responsibilities for ensuring the safety of the public and workers. Worker education training in response to such events will be conducted by the contractor. The applicant will provide adequate notice to utilities and affected customers of planned service disruptions associated with transmission line construction activities.	Applicable to NTP-3	CalPeco provided a Construction Operating Plan to CPUC on June 15, 2015, which included an Emergency Preparedness and Response Plan (revised on July 30, 2015). The Plan identifies APM UTL-1 requirements. Email communications with AT&T and Charter Communications regarding notice has been provided to CPUC.

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APM-TRAN-1	The applicant will develop and implement a Traffic Control Plan to minimize disruptions to surface travel and protect the safety of workers and the traveling public. The Traffic Control Plan will include, but not be limited to, the following: • coordination with local transportation agencies and emergency service providers for temporary lane and road closures and implementation of measures to maintain emergency vehicle access; • provide mechanisms to prevent construction activities from interfering with emergency response or emergency evacuation plans in the event an evacuation plan were to be activated during the construction period; • identification of any time restrictions on construction activities that could affect roadways; • traffic control measures (flagging methods, signage, reduced speeds in work zones, parking restrictions); • provision for maintaining safe pedestrian and bicycle travel (e.g., signage to direct pedestrians and bicyclists to safe routes around construction areas); and • public outreach advising the travelling public of construction activity and travel restrictions. The Traffic Control Plan measures will be monitored by the applicant for effectiveness and adjustments will be made as needed to the implementation of the Traffic Control Plan to further minimize travel disruptions and maintain safety. The Traffic Control Plan will meet the requirements of agencies with jurisdiction over the roadways being affected, such as Caltrans for I-80 and SR 267 effects, and TRPA if any actions trigger TRPA code 22.7.6 Traffic Mitigation requirements within the Lake Tahoe Basin.	Applicable to NTP-3	The only permit required from Caltrans is the Encroachment Permit, which was obtained for the entire 650 Rebuild Project in 2015. The Permit Extension Rider from Caltrans through December 15, 2016 was provided to CPUC. The line contractor has prepared a Traffic Control Plan for Phase 1B, which has been reviewed and accepted by Caltrans as of May 23, 2016.