

## 6. Mitigation Monitoring Plan

An Initial Study has been prepared to assess the Eldorado-Lugo-Mohave Series Capacitor Project's potential environmental effects. The Initial Study is prepared based on information in the Proponent's Environmental Assessment (PEA), additional information provided by SCE, project site visits, and supplemental research. The majority of the Proposed Project's impacts would occur during project construction. As part of SCE's application, Applicant Proposed Measures (APMs) were proposed to reduce potentially significant adverse impacts related to project construction and operation.

SCE, as the Applicant and project proponent, would be responsible for implementing all applicable measures, including the adopted mitigation measures and conditions of project approval, as well as conditions imposed in any permits or regulations administered by other responsible agencies. CPUC is responsible for monitoring and reporting on required mitigation.

The purpose of this Mitigation Monitoring Plan is to ensure effective implementation of each APM (that has not been superseded), as well as the mitigation measures identified in the Initial Study and imposed by the CPUC as part of project approval. Upon approval of the Proposed Project by the CPUC, the CPUC and SCE will establish a formal Mitigation Monitoring Compliance and Monitoring Program (MMCRP) derived for the information below that will detail the responsibilities of all parties, communication protocols, reporting requirements, plans to be submitted, mitigation measures to be implemented, etc. The MMCRP will be the basis for the CPUC's environmental monitoring and reporting activities throughout project construction, including during site rehabilitation and restoration after construction is completed. The MMCRP will be prepared and instituted prior to any notices to proceed (NTPs) being issued or the initiation of any construction.

The MMCRP will include the information provided in Table 6-1 (at the end of this section):

- The APMs SCE proposed as part of the project that are not superseded by mitigation measures;
- The mitigation measures that SCE has agreed to and that SCE or its agents and contractors must implement as part of the Proposed Project;
- The actions required to implement these measures;
- The monitoring requirements; and
- The timing of implementation for each measure.

A CPUC-designated environmental monitor will carry out all construction field monitoring to ensure full implementation of all measures. In all instances where non-compliance occurs, the CPUC's designated environmental monitor will issue a warning to the construction foreman and SCE's project manager. Continued non-compliance shall be reported to the CPUC's designated project manager. Any decisions to halt work due to non-compliance will be made by the CPUC. The CPUC's designated environmental monitor will keep a record of any incidents of non-compliance with mitigation measures, APM, or other conditions of project approval. Copies of these documents shall be supplied to the CPUC.

### 6.1 Minor Project Refinements

This section describes the CPUC's process for staff approval of Minor Project Refinements (MPRs) that may be necessary due to changes needed after the applicant's final engineering of elements of the proposed project. During the course of construction, circumstances may arise that require minor deviations from the project as approved. The CPUC, along with the IS/MND environmental monitors, would evaluate any proposed deviations from the approved project to ensure they are consistent with CEQA requirements.

Depending on its nature, a requested deviation would be processed as an MPR or be the subject of a Petition for Modification (PFM) submitted by the applicant to the CPUC. MPRs would be strictly limited to minor project changes that do not trigger additional permit requirements, would not have the potential to increase the severity of a significant impact or create a new significant impact, and are within the geographic scope of the IS/MND.

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

## 6.2 Dispute Resolution

The following procedure will be observed for dispute resolution *between CPUC staff and the applicant*:

- Disputes and complaints should be directed to the CPUC Project Manager for resolution.
- Should this informal process fail, the CPUC Project Manager may initiate enforcement or compliance action to address deviations from the approved project.

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Aesthetics	
<b>MITIGATION MEASURE</b>	<p><b>MM AES-1: Minimize visual contrast in project design.</b> In the final design of approved project structures, SCE shall use design fundamentals that reduce the visual contrast of new facilities with the characteristic landscape. These include surface treatments; siting and location; reduction of visibility; repetition of form, line, color, and texture of the landscape; and reduction of unnecessary disturbance. New and modified transmission structures shall be of a dulled galvanized steel consistent with that of existing structures. SCE shall treat the surfaces of other structures and new buildings visible to the public such that: (a) their colors minimize visual contrast by blending with the characteristic landscape colors; and (b) their colors and finishes do not create excessive glare. The steel used to repair or strengthen structures, new steel structures, and conductors, and OPGW shall have surfaces that are non-specular and non-reflective. Project elements with colored surfaces shall be in hues and tones that do not contrast with the surrounding landscape and are consistent with the palette of natural colors that occur in the area.</p> <p>SCE shall provide for review by the CPUC, BLM, and NPS, a draft Project Design and Surface Treatment Plan describing the siting, placement, and other design considerations to be employed to minimize Proposed Project contrast. The draft plan must explain how the design will minimize visual intrusion and contrast by effectively blending earthwork, vegetation manipulation, and facilities with the landscape. The Project Design and Surface Treatment Plan shall describe the colors and textures to be applied to all new facility structures, buildings, walls, fences, and components to be constructed.</p> <p>The draft Project Design and Surface Treatment Plan shall be submitted at least 60 days prior to the start of construction. If the CPUC notifies SCE that revisions to the plan are needed, SCE shall within 30 days of receiving that notification, prepare and submit for review and approval a revised plan to the CPUC.</p>
Timing	Pre-construction and Construction Phases
Plan/Reporting Requirement	SCE to submit Project Design and Surface Treatment Plan at least 60 days prior to construction
Effectiveness Criteria	Visual contrasts are minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM AES-2: Screen construction activities from view.</b> To reduce significant impacts associated with construction yards, staging areas, and material and equipment storage</p>

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	<p>areas shall be visually screened using temporary screening fencing, with the exception of construction yards, staging areas, and material and equipment storage areas on existing substation properties. Fencing will be of an appropriate structure, material, and color for each specific location. This requirement shall not apply if SCE can demonstrate that construction yards are located away from areas of high public visibility including public roads, residential areas, and public recreational facilities or the yards are in areas where high winds pose a risk of the screening detaching and creating a hazard. For any site that SCE proposes to exempt from the screening requirement, SCE shall define the site on a detailed map demonstrating its visibility from nearby roads, residences, or recreational facilities to the agency having jurisdiction over the land (CPUC, BLM, or NPS) for review and approval at least 60 days prior to the start of construction at that site.</p>
Timing	Pre-construction and Construction Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Construction activities are effectively screened from view
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM AES-3: Minimize vegetation removal and ground disturbance.</b> Only the minimum amount of vegetation necessary for the construction of structures and facilities shall be removed during construction. In particular, vegetation within the ROW and ground clearing at the foot of each tower and between towers shall be limited to the clearing necessary to comply with requirements of CPUC General Order 95 and other regulatory requirements. Scars from temporary work areas and access road may be highly visible when located on hill slopes and along ridges, or when visible from elevated vantage points. In order to reduce visual impacts, the boundaries of all areas to be disturbed shall be delineated consistent with the requirements of Biological Resources Mitigation Measure BR-3. Staking, flagging, or other appropriate means shall define construction work areas, such as capacitor site grading areas, staging yards, and pulling sites. Stakes and flagging shall be installed before construction and in consultation with the Project Biologist and the agency’s Environmental Monitor or Visual Specialist. Areas staked or flagged shall be as small as possible in order to minimize the visibility of ground disturbance from sensitive viewing locations such as roads, trails, residences, and recreation facilities and areas. Parking areas and staging and disposal site locations shall be similarly located in areas approved by the Project Biologist and the agency’s Environmental Monitor or Visual Specialist prior to the start of construction. All disturbances by Proposed Project vehicles and equipment shall be confined to the staked and flagged areas.</p>
Timing	Construction Phase
Plan/Reporting Requirements	None
Effectiveness Criteria	Vegetation removal and ground disturbance is minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM BR-7: Restore or revegetate temporary disturbance areas.</b> (The full text of this mitigation measure is provided in Section 5.4, Biological Resources. It would require restoration and revegetation of disturbed areas, which would reduce visual impacts.)</p>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Impacts to wildlife are avoided or minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM AES-4: Minimize night lighting at new project facilities.</b> At the project’s new in-line series capacitors and fiber optic repeater facilities, SCE shall avoid night lighting where possible and minimize its use under all circumstances. To ensure this, SCE shall implement the following general principles and specifications:</p>

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	<ul style="list-style-type: none"> <li>▪ When used, portable truck-mounted lighting shall point away from roads and from residences within 1,000 feet.</li> <li>▪ White lighting (metal halide &amp; LED) (a) shall only be used when necessitated by specific work tasks; and (b) shall be less than 5000 Kelvin color temperature.</li> <li>▪ All lamp locations, orientations, and intensities shall be the minimum needed for safety and security.</li> <li>▪ Light fixtures that could be visible from beyond project facility boundaries shall have cutoff angles sufficient to prevent lamps and reflectors from being visible beyond the project facility boundary, including security lighting.</li> <li>▪ If security lighting is installed, motion sensors are to be used to activate the security lighting; lights shall operate continuously only when the area is occupied.</li> <li>▪ All temporary construction lighting, including at yards, and all permanent exterior lighting shall include: (a) lamps and reflectors that are not visible from beyond the construction site or facility including any off-site security buffer areas; (b) lighting that does not cause excessive reflected glare; and (c) directed lighting that does not illuminate the nighttime sky, except for required FAA aircraft safety lighting, if required.</li> <li>▪ Lighted nighttime maintenance is to be minimized or avoided as a routine practice and should occur only during emergencies.</li> </ul>
Timing	Construction Phase
Plan/Reporting Requirements	None
Effectiveness Criteria	Night lighting is minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Air Quality**

**MITIGATION MEASURE**

**MM AQ-1: Prepare and implement a Dust Control Plan.** SCE shall avoid visible fugitive dust emissions by implementing the following dust control measures derived from MDAQMD Rule 403.2. Prior to commencing earth-moving activity, SCE shall prepare and submit to the MDAQMD, Clark County DAQ, CPUC, BLM and NPS a **Dust Control Plan** that describes all dust control measures that will be implemented for the project, including, but not limited to:

- Use periodic watering for short-term stabilization of disturbed surface area to minimize visible fugitive dust emissions. If used, non-water-based or chemical soil stabilizers and dust suppressants shall be non-toxic and must not cause loss of vegetation, adverse odors, or additional emissions of ozone precursor reactive organic gases (ROG) or volatile organic compounds (VOC).
- Provide stabilized access route(s) to the project site as soon as is feasible and enforce a maximum 15 mile per hour vehicle speed limit on any unpaved surface.
- Stabilize graded site surfaces upon completion of grading when subsequent development is delayed or expected to be delayed more than thirty days, except when such a delay is due to precipitation that dampens the disturbed surface sufficiently to eliminate visible fugitive dust emissions.
- Maintain natural topography to the extent possible.
- Construct parking lots and paved areas first, where feasible.
- Take actions sufficient to prevent project-related trackout or spills onto publicly maintained paved surfaces, and cleanup project-related trackout or spills on publicly maintained paved surfaces within 24 hours.
- Cover loaded haul vehicles or provide adequate freeboard while operating on publicly maintained paved surfaces.
- Reduce non-essential earth-moving activity under high wind conditions, gusts exceeding 25 miles per hour.

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Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE to submit Dust Control Plan to MDAQMD, Clark County DAQ, CPUC, BLM and NPS prior to commencing earth-moving activity
Effectiveness Criteria	Visible fugitive dust emissions are avoided
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Biological Resources**

<b>MITIGATION MEASURE</b>	<p><b>MM BR-1: Conduct biological monitoring and reporting.</b> The following provisions shall apply to the approved project during the construction and post-construction restoration phases.</p> <p><b>Lead biologist:</b> SCE shall propose one or more lead biologist(s) and submit their resume(s) to the CPUC and BLM for concurrence, no less than 60 days prior to the start of any ground-disturbing activities, including those occurring prior to site mobilization (including, but not limited to geotechnical borings or hazardous waste evaluations). At minimum the lead biologist will hold a bachelor’s degree in biological sciences, zoology, botany, ecology, or a closely related field; have at least three years of experience in field biology and at least one year of direct field experience with biological resources found in or near the project area, <i>OR</i> relevant education and experience that demonstrates the ability to carry out the tasks required of a lead biologist. The resume(s) shall demonstrate to the satisfaction of the CPUC and BLM the appropriate education and experience to accomplish the assigned biological resources tasks.</p> <p>The lead biologist will be SCE’s primary point of contact to CPUC, BLM, NPS, CDFW, and USFWS regarding any biological resource issues and implementation of related mitigation measures and permit conditions throughout project construction and post-construction restoration work. In addition, the lead biologist will oversee supervision and training of biological monitors (below) and preparation and submission of all monitoring reports and notifications (below).</p> <p>If the lead biologist is replaced, the specified information of the proposed replacement must be submitted to the CPUC and BLM at least ten working days prior to the termination or release of the preceding lead biologist. In an emergency, SCE shall immediately notify the CPUC and BLM to discuss the qualifications and approval of a short-term replacement while a permanent lead biologist is proposed for consideration.</p> <p><b>Biological monitors:</b> SCE shall assign qualified biological monitors to the project to monitor all work activities with the potential to impact special status species or their habitat during the construction phase. Work sites or activities considered to have no potential to impact special-status species or habitats will be subject to review and approval by CPUC in coordination with CDFW, USFWS, and BLM.</p> <p>Monitors are responsible for ensuring that impacts to special-status species, native vegetation, wildlife habitat, and sensitive or unique biological resources are avoided or minimized to the fullest extent safely possible. Monitors are also responsible to ensure that work activities are conducted in compliance with the retained APMs, mitigation measures, permit conditions, and other project requirements.</p> <p>Resumes of all biological monitors, including specialty monitors (including but not limited to bat, nesting bird, and special-status species monitors), shall be provided for concurrence by the CPUC and BLM, at least 10 working days prior to the monitor commencing field duties. The resumes shall demonstrate, to the satisfaction of the CPUC and BLM, the appropriate education and experience to accomplish the assigned biological resources tasks.</p> <p>SCE shall provide training to biological monitors, in addition to WEAP (see Mitigation Measure BR-2) and prior to the monitor commencing field duties, on biological resources present or potentially present on the Proposed Project, as well as mitigation measures,</p>
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permit requirements, project protocols, and the duties and responsibilities of a biological monitor.

Biological monitors shall inform construction crews daily of any environmentally sensitive areas (ESAs), nest buffers, or other resource issues or restrictions that affect the work sites for that day. Biological monitors shall communicate with construction supervisors and crews as needed (e.g., at daily tailgate safety meetings (“tailboards”), by telephone, text message, or email) to provide guidance to maintain compliance with mitigation measures and permit conditions. SCE shall ensure that adequate numbers of monitors are assigned to effectively monitor work activities and that communications from biological monitors are promptly directed to crews at each work site for incorporation into daily work activities. If biological monitors are unavailable for a tailboard meeting, the construction supervisors shall communicate all ESA, nest buffers, or other resource restrictions to crews during the meeting. SCE shall ensure that biological monitors are provided with an accurate daily construction work schedule as well as updated information on any alterations to the daily construction work schedule. This information shall also be provided to CPUC/BLM monitors. SCE shall ensure that biological monitors are provided with up-to-date biological resource maps and construction maps in hardcopy or digital format. These maps shall also be provided to CPUC/BLM monitors.

Monitors shall be familiar with the biological resources present or potentially present, ESAs, nest buffers, and any other resource issues at the site(s) they are monitoring, as well as the applicable mitigation measures and permit requirements. Monitors shall exhibit diligence in their monitoring duties and refrain from any conduct or potential conflict of interest that may compromise their ability to effectively carry out their monitoring duties.

**Biological monitor duties and responsibilities:** Throughout the duration of construction, SCE shall conduct biological monitoring and have biological monitors on site at all times when project activities are occurring in any area where there is a potential to impact sensitive biological resources or jurisdictional waters, including but not limited to vegetation removal/trimming/disturbance, all ground-disturbing work activities, and initial “drive and crush” in the project area, including work sites, yards, staging areas, access roads, and any area subject to project disturbance. Pre-construction activities (e.g., for geotechnical borings, hazardous waste evaluations, etc.) and post-construction restoration shall also be monitored by a biological monitor during all such activities.

Each day, prior to work activities at each site requiring monitoring, a biological monitor shall conduct clearance surveys (“sweeps”) for sensitive plant or wildlife resources that may be located within or adjacent to the construction areas. If sensitive resources are found, the biological monitor shall take appropriate action as defined in all adopted mitigation measures, retained APMs, and permit conditions. Work activities shall not commence at any work site until the clearance survey has been completed and the biological monitor communicates to the contractor that work may begin.

Biological monitors shall clearly mark sensitive biological resource areas with staking, flagging, or other appropriate materials that are readily visible and durable. The monitors will inform work crews of these areas and the requirements for avoidance and will inspect these areas at appropriate intervals for compliance with regulatory terms and conditions. The biological monitors shall ensure that work activities are contained within approved disturbance area boundaries at all times.

Biological monitors shall have the authority and responsibility to halt any project activities that are not in compliance with applicable mitigation measures, retained APMs, permit conditions, or other project requirements, or will have an unauthorized adverse effect on biological resources.

Handling, relocation, release from entrapment, or other interaction with wildlife shall be performed consistent with mitigation measures, safety protocols, permits (including CDFW and USFWS permits), and other project requirements.

Biological monitors shall, to the extent safe, practicable, and consistent with mitigation measures and permit conditions, actively or passively relocate wildlife out of harm’s way.

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	<p>On a daily basis, biological monitors shall inspect construction areas where animals may have become trapped, including equipment covered with bird exclusion netting, and release any trapped animals. Daily inspections shall also include areas with high vehicle activity (e.g., yards, staging areas), to locate animals in harm’s way and relocate them if necessary. If safety or other considerations prevent biological monitors from aiding trapped wildlife or wildlife in harm’s way, SCE shall consult with the construction contractor, CDFW, wildlife rehabilitator, or other appropriate party to obtain aid for the animal, consistent with Mitigation Measure BR-7 (Ensure wildlife impact avoidance and minimization).</p> <p>At the end of each work day, biological monitors shall verify that excavations, open tanks, and trenches have been covered or have ramps installed to prevent wildlife entrapment and communicate with work crews to ensure these structures are installed and functioning properly.</p> <p>Biological monitors shall regularly inspect any wildlife exclusion fencing daily to ensure that it remains intact and functional. Any need for repairs to exclusion fencing shall be immediately communicated to the responsible party, and repairs shall be carried out in a timely manner, generally within one work day.</p> <p><b>Reporting:</b> SCE shall prepare and implement a procedure for communication among biological monitors and construction crews, to ensure timely notification (i.e., daily or sooner, as needed) to crews of any resource issues or restrictions. SCE will notify the CPUC and BLM of the procedure and will maintain records of daily communication. SCE will provide CPUC and BLM on-line access to project resource management maps and GIS data.</p> <p>Monitoring activities shall be thoroughly and accurately documented on a daily basis. SCE shall prepare and submit daily, weekly, annual, and final monitoring reports to the CPUC and BLM. Prior to the start of monitoring activities, SCE shall provide proposed monitoring report formats, describing content and organization, for CPUC and BLM review and approval in consultation with CDFW and USFWS.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall prepare and submit daily, weekly, annual, and final monitoring reports to the CPUC and BLM. Prior to the start of monitoring activities, SCE shall provide proposed monitoring report formats, describing content and organization, for CPUC and BLM review and approval in consultation with CDFW and USFWS.
Effectiveness Criteria	Impacts to biological resources are minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM BR-2: Prepare and implement a Worker Environmental Awareness Program (WEAP).</b> SCE shall prepare and implement a project-specific Worker Environmental Awareness Program (WEAP) to educate on-site workers about the Proposed Project’s sensitive environmental issues. The WEAP shall be presented by the lead biologist or a biological monitor to all personnel on-site during the construction phase, including but not limited to surveyors, engineers, inspectors, contractors, subcontractors, supervisors, employees, monitors, visitors, and delivery drivers. If the WEAP presentation is recorded on video, it may be presented by any competent project personnel. Throughout the duration of construction, SCE shall be responsible for ensuring that all on-site project personnel receive this training prior to beginning work. A construction worker may work in the field along with a WEAP-trained crew for up to 5 days prior to attending the WEAP training. SCE shall maintain a list of all personnel who have completed the WEAP training. This list shall be provided to the CPUC and BLM upon request.</p> <p>The WEAP shall consist of a training presentation, with supporting written materials provided to all participants. At least 60 days prior to the start of ground-disturbing activities, SCE shall submit the WEAP presentation and associated materials to the CPUC and BLM for review and approval in consultation with the USFWS and CDFW.</p>

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The WEAP training shall include, at minimum:

- Overview of the project, the jurisdictions the project route passes through (e.g., San Bernardino County, CA; Clark County, Nevada; CSLC; BLM; NPS; BOR; DOD) and any special requirements of those jurisdictions.
  - Overview of the federal and state Endangered Species Acts, Bald and Golden Eagle Protection Act, Migratory Bird Treaty Act, and the consequences of non-compliance with these acts.
  - Overview of the project mitigation and biological permit requirements, and the consequences of non-compliance with these requirements.
  - Sensitive biological resources on the project site and adjacent areas, including nesting birds, special-status plants and wildlife and sensitive habitats known or likely to occur on the project site, project requirements for protecting these resources, and the consequences of non-compliance.
  - Construction restrictions such as limited operating periods, Environmentally Sensitive Areas (ESAs), and buffers and associated restrictions, and other restrictions such as no grading areas, flagging or signage designations, and consequences of non-compliance.
  - Avoidance of invasive weed introductions onto the project site and surrounding areas, and description of the project's weed control plan and associated compliance requirements for workers on the site.
  - Function, responsibilities, and authority of biological and environmental monitors and how they interact with construction crews.
  - Requirement to remain within authorized work areas and on approved roads, with examples of the flagging and signage used to designate these areas and roads, and the consequences of non-compliance.
  - Procedure for obtaining clearance from a biological monitor to enter a work site and begin work (including moving equipment), and the requirement to wait for that clearance.
  - One-hour hold (or other method SCE will use to halt work when necessary to maintain compliance) and the requirement for compliance.
  - Nest buffers and associated restrictions and the consequences of non-compliance. Procedure and time frame for halting work and removing equipment when a new buffer is established. Discussion of nest deterrents.
  - Explanation that wildlife must not be harmed or harassed. Procedures for covering pipes, securing excavations, and installing ramps to prevent wildlife entrapment. What to do and who to contact if dead, injured, or entrapped animals are encountered.
  - General safety protocols such as hazardous substance spill prevention, containment, and cleanup measures; fire prevention and protection measures; designated smoking areas (if any) and cigarette disposal; safety hazards that may be caused by plants and animals; and procedure for dealing with rattlesnakes in or near work areas or access roads.
  - Project requirements that have resulted in repeated compliance issues on other recent transmission line projects, such as dust control, speed limits, track out (dirt or mud tracked from access roads or work sites onto paved public roads or other areas), personal protective equipment (PPE), work hours, working prior to clearance, and waste containment and disposal.
  - Printed training materials, including photographs and brief descriptions of all special-status plants and animals that may be encountered on the project, including behavior, ecology, sensitivity to human activities, legal protection, penalties for violations, reporting requirements, and protection measures.
  - Contact information for SCE, construction management, and contractor environmental personnel, and who to contact with questions.
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	<ul style="list-style-type: none"> <li>▪ Training acknowledgment form to be signed by each worker indicating that they understand and will abide by the guidelines, and a hardhat sticker so WEAP attendance may be easily verified in the field.</li> </ul> <p><b>WEAP Lite.</b> An abbreviated version of WEAP training (“WEAP lite”) may be used for individuals who are exclusively delivery drivers, concrete truck drivers, or visitors to the project site, and will be provided by a qualified project biologist, biological monitor, or environmental field staff prior to those individuals entering or working on the project. Short-term visitors (total of 5 days or less per year) to the project site who will be riding with and in the company of WEAP-trained project personnel for the entire duration of their visit(s) are not required to attend WEAP or WEAP lite training. WEAP lite presentations shall be tailored to delivery/concrete truck drivers and visitors as well as the situation and emphasize project requirements that are relevant to those individuals and that situation.</p> <p><b>WEAP Refreshers.</b> Biological monitors or environmental field staff will periodically present brief WEAP refresher presentations at tailboards to help construction crews and other personnel maintain awareness of environmental sensitivities and requirements. A 5- to 10-minute informal talk will be presented at each of the project’s main contractor/ subcontractor tailboards at least once a week.</p> <p>When a contractor or subcontractor resumes work after a long break, a biological monitor or environmental field staff will provide an extended WEAP refresher presentation (10-20 minutes) at each of the contractor/subcontractor tailboards on the first day back to work.</p>
Timing	Pre-construction and Construction Phases
Plan/Reporting Requirements	At least 60 days prior to the start of ground-disturbing activities, SCE shall submit the WEAP presentation and associated materials to the CPUC and BLM for review and approval in consultation with the USFWS and CDFW
Effectiveness Criteria	All on-site project personnel receive this training prior to beginning work
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM BR-3: Minimize native vegetation and habitat loss.</b> Final engineering of the project shall minimize the extent of disturbance and removal of native vegetation and habitat, to the extent safely possible. Work activities and roadways will avoid or minimize direct or indirect effects to sensitive habitat types or jurisdictional waters and provide buffer areas to minimize disturbance. Project access will utilize existing routes or bridges over jurisdictional waters wherever possible.</p> <p>Consistent with project safety and security protocols, landowner preferences, and any other applicable regulations or requirements, existing gates on project access roads will be closed and secured when project personnel enter or leave an area.</p> <p>Prior to beginning any ground-disturbing activities, SCE shall provide CPUC and BLM with final engineering GIS shapefiles depicting all temporary and permanent disturbance areas, as well as summary data on temporary and permanent disturbance for each vegetation or habitat type.</p> <p>On completion of project construction, SCE shall provide CPUC and BLM with GIS shapefiles of all actual temporary and permanent disturbance areas, and summary data of all discrepancies between final engineering and “as-built” conditions for each vegetation or habitat type.</p> <p>To the extent feasible and safe, vegetation removal within work areas will be minimized and construction activities will implement drive and crush access and site preparation rather than grading. Stockpiling of spoils and salvaged topsoil will be located in previously disturbed areas and/or will avoid native habitat areas.</p> <p>Prior to any construction, equipment or crew mobilization at each work site, work areas will be marked with staking or flagging to identify the limits of work and will be verified by project environmental staff and CPUC Environmental Monitor. Staking and flagging will</p>

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	clearly indicate the work area boundaries. Where staking cannot be used, traffic cones, traffic delineators, or other markers shall be used. Staking and flagging or other markers shall be in place during construction activities at each work site and refreshed as needed. Coded flagging colors or color combinations will be consistent and uniform across the project. All work activities, vehicles, and equipment will be confined to approved roads and staked and flagged or marked work areas.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Native vegetation and habitat loss are minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance

<b>MITIGATION MEASURE</b>	<p><b>MM BR-4: Restore or revegetate temporary disturbance areas.</b> [Replaces APM BIO-01 to provide further specificity.] SCE will implement a restoration or revegetation plan for all temporarily disturbed sites. Given that temporary impacts to desert tortoise habitat is considered a permanent impact in this MND and under BLM’s Programmatic Biological Opinion (BO) provides federal take authorization for the Project, SCE will mitigate for all desert tortoise habitat impacts as permanent impacts through compensatory mitigation. These temporarily disturbed sites will be subject to revegetation (i.e., re-establishment of vegetation to minimize long-term erosion, dust, and weed infestation) but habitat restoration will not be required. SCE will be required to implement habitat restoration at temporarily disturbed sites not mitigated through off-site compensation. SCE will provide a Habitat Restoration and Revegetation Plan (HRRP) to cover all temporarily disturbed sites, identifying sites to be subject to revegetation alone and those to be restored. The HRRP will describe, at a minimum, which revegetation or restoration method (e.g., natural revegetation, planting, or reseeding with native seed stock in compliance with the Proposed Project’s SWPPPs) will be implemented at each temporarily disturbed site. It will include the plant species or habitats to be restored or revegetated, the restoration or revegetation methods and techniques, and the monitoring periods and success criteria.</p> <p>All temporarily disturbed areas will be subject to revegetation and site management activities and success criteria of the Proposed Project’s SWPPP/Erosion Control Plan (HWQ-1) and the Integrated Weed Management Plan (BR-5) to ensure soil stabilization, vegetation cover, and weed prevention. In addition to those requirements, for any temporarily disturbed area not subject to compensatory mitigation (BR-8), the HRRP shall include:</p> <ul style="list-style-type: none"> <li>▪ Restoration goals and objectives for each portion of the project area, based on vegetation type and jurisdictional status of each site.</li> <li>▪ Quantitative success criteria for each restoration site, area, or category.</li> <li>▪ Implementation details, including but not limited to topsoil stockpiling and handling; post-construction site preparation; soil decompaction and recontouring; planting and seeding palettes to include only native, locally sourced materials with confirmed availability from suppliers; fall or other suitable season planting or seeding dates (seeding outside the fall season may increase the risk of revegetation failure and need for subsequent remedial reseeding, irrigation, or other measures).</li> <li>▪ Maintenance details, including but not limited to irrigation or hand-watering schedule and equipment, erosion control, and weed control measures.</li> <li>▪ Monitoring and Reporting, specifying monitoring schedule and data collection methods throughout establishment of vegetation with key indicators of successful or unsuccessful progress, and quantitative criteria to objectively determine success or failure at the conclusion of the monitoring period.</li> <li>▪ Contingency measures such as reseeding, replanting, drainage repairs, adjustments to irrigation or weeding schedule, and extension of maintenance beyond the original schedule, to repair or remediate sites not on track to meet success criteria, or not meeting the criteria at the close of the originally scheduled monitoring period.</li> </ul>
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	<ul style="list-style-type: none"> <li>▪ A Gantt Chart or similar exhibit identifying all components of the HRRP, including acquisition of plant materials, specifying site preparation and seeding or planting dates, identifying entity to perform each task (e.g., EPC contractor or restoration contractor) and indicating critical path activities.</li> </ul> <p>The Draft HRRP shall be submitted to CPUC and BLM review and approval prior to the beginning of ground-disturbing activities. SCE shall incorporate all requested revisions in coordination with the CPUC and BLM and finalize the HRRP within 12 months from the start of construction.</p> <p>For all restoration areas, if a fire, flood, or other disturbance beyond the control of SCE, CPUC, and BLM damages the area within the monitoring period, SCE shall be responsible for a one-time replacement. If a second event occurs, no replacement is required.</p> <p>For all revegetation (per SWPPP requirements) or restoration sites (per the HRRP), only seed or potted nursery stock of locally occurring native species will be used. Seeding and planting will be informed by Chapter 5 of <i>Rehabilitation of Disturbed Lands in California</i> (Newton and Claassen, 2003). The list of plants observed during botanical surveys of the project area will be used as a guide to site-specific plant selection.</p> <p>Monitoring of the restoration sites will continue annually for up to 5 years or until the defined success criteria in the HRRP are achieved. SCE will be responsible for implementing remediation measures as needed. Following remediation work, each site will still be subject to the success criteria required for the initial restoration. The monitoring period for remediation work will be concurrent with the monitoring period required for the initial restoration.</p> <p><b>Reporting.</b> For all restoration areas, SCE will provide annual reports to the CPUC and BLM verifying the total vegetation acreage subject to temporary and permanent disturbance, identifying which items of the HRRP have been completed, and which items are still outstanding. The annual reports will also include a summary of the restoration activities for the year, a discussion of whether success criteria were met, any remedial actions conducted and recommendations for remedial action, if warranted, that are planned for the upcoming year. Each annual report will be submitted within 90 days after completion of each year of restoration work.</p>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	<p>SCE will submit a Habitat Restoration and Revegetation Plan (HRRP) to CPUC and BLM review and approval prior to the beginning of ground-disturbing activities.</p> <p>SCE will provide annual reports to the CPUC and BLM</p>
Effectiveness Criteria	Temporarily disturbed areas are restored or revegetated
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM BR-5: Prepare and Implement an Integrated Weed Management Plan.</b> [Supersedes APM BIO-03.] SCE shall prepare and implement an Integrated Weed Management Plan (IWMP) describing the proposed methods of preventing or controlling project-related spread or introduction of weeds. The IWMP also must meet BLM’s requirements for NEPA disclosure and analysis if herbicide use is proposed for the project. A Draft IWMP shall be submitted to the CPUC and BLM for review and approval at least 60 days prior to SCE’s application for Notice to Proceed, and no pre-construction activities (e.g., for geotechnical borings, hazardous waste evaluations, etc.), construction, equipment or crew mobilization, or project-related ground-disturbing activity shall proceed until the IWMP is approved.</p> <p>For the purpose of the IWMP, “weeds” shall include designated noxious weeds, as well as any other non-native weeds or pest plants identified on the weed lists of the California Department of Food and Agriculture, the California Invasive Plant Council, or identified by BLM as special concern. The IWMP will include the contents listed below. The IWMP will be implemented throughout project pre-construction, construction, and post-construction</p>

**Table 6-1. Mitigation Monitoring Program**

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revegetation phases, including throughout implementation of the HRRP (Mitigation Measure BR-4). The IWMP will include the information defined in the following paragraphs.

**Background.** An assessment of the Proposed Project’s potential to cause spread of invasive non-native weeds into new areas, or to introduce new non-native invasive weeds into the ROW. This section must list known and potential non-native and invasive weeds occurring on the ROW and in the project region and identify threat rankings and potential consequences of project-related occurrence or spread for each species. This section must also identify control goals for each species (e.g., eradication, suppression, or containment) likely to be found within the Proposed Project area.

**Pre-construction weed inventory.** SCE shall inventory weeds in all areas (both within and outside the ROW) subject to project-related vegetation removal/disturbance, “drive and crush,” and ground-disturbing activity. The weed inventory shall also include vehicle and equipment access routes within the ROW and all project staging and storage yards. Weed occurrences shall be mapped and described according to density and area covered.

**Pre-construction weed treatment.** Weed infestations identified in the pre-construction weed inventory shall be evaluated to identify potential for project-related spread and potential benefits (if any) of pre-construction treatment, considering the specific weeds, potential seed banks, or other issues. The IWMP will identify any infestations to be controlled or eradicated prior to project construction, or other site-specific weed management requirements (e.g., avoidance of soil or transport and site-specific vehicle washing where threat or spread potential is high). Control and follow-up monitoring of pre-construction weed treatment sites will follow methods identified in appropriate sections of the IWMP.

**Prevention.** The IWMP shall specify methods to minimize potential transport of new weed seeds onto the ROW, or from one section of the ROW to another. The ROW may be divided into “weed zones,” based on known or likely invasive weeds in any portion of the ROW. The IWMP will specify inspection procedures for construction materials and equipment entering the Proposed Project area. Vehicles and equipment may be inspected and cleaned at entry points to specified portions of the ROW, and before leaving work sites where weed occurrences must be contained locally. Construction equipment shall be cleaned of dirt and mud that could contain weed seeds, roots, or rhizomes. Equipment shall be inspected to ensure it is free of any dirt or mud that could contain weed seeds, and the tracks, outriggers, tires, and undercarriage will be carefully washed, with special attention being paid to axles, frame, cross members, motor mounts, underneath steps, running boards, and front bumper/brush guard assemblies. Other construction vehicles (e.g., pick-up trucks) that will be frequently entering and exiting the site will be inspected and washed on an as-needed basis. Tools such as chainsaws, hand clippers, pruners, etc., shall be cleaned of dirt and mud before entering project work areas.

All vehicles shall be washed off-site when possible. If off-site washing is infeasible, on-site cleaning stations will be set up at specified locations to clean equipment before it enters the work area. Wash stations will be located away from native habitat or special-status species occurrences. Wastewater from cleaning stations will not be allowed to run off the cleaning station site. When vehicles and equipment are washed, a daily log must be kept stating the location, date and time, types of equipment, methods used, and personnel present. The log shall contain the signature of the responsible crewmember. Written or electronic logs shall be available to BLM and CPUC monitors on request.

Erosion control materials (e.g., hay bales) must be certified free of weed seed before they are brought onto the site. The IWMP must prohibit on-site storage or disposal of mulch or green waste that may contain weed material. Mulch or green waste will be removed from the site in a covered vehicle to prevent seed dispersal and transported to a licensed landfill or composting facility.

The IWMP must specify guidelines for any soil, gravel, mulch, or fill material to be imported into the Proposed Project area, transported from site to site within the

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Proposed Project area, or transported from the Proposed Project area to an off-site location, to prevent the introduction or spread of weeds to or from the Proposed Project area.

**Monitoring.** The IWMP shall specify methods to survey for weeds during pre-construction, construction, and restoration phases; and shall specify qualifications of botanists responsible for weed monitoring and identification. It must include a monitoring schedule to ensure timely detection and immediate control of new weed infestations to prevent further spread. Surveying and monitoring for weed infestations shall occur at least two times per year through the close of the restoration phase, to coincide with the early detection period for early season and late season weeds (i.e., species germinating in winter and flowering in late winter or spring, and species germinating later in the season and flowering in summer or fall). It also must include methods for marking invasive weeds on the ROW and recording and communicating these locations to weed control staff. The map of weed locations (discussed above) shall be updated at least once a year. The monitoring section shall also describe methods for post-eradication monitoring to evaluate success of control efforts and any need for follow-up control.

**Control.** The IWMP must specify manual and chemical weed control methods to be employed. The IWMP shall include only weed control measures with a demonstrated record of success for target weeds, based on the best available information. The plan shall describe proposed methods for promptly scheduling and implementing control activity when any project-related weed infestation is located (e.g., located on a project disturbance site), to ensure effective and timely weed control. Weed infestations must be controlled or eradicated upon discovery, and before they go to seed, to the extent feasible with the goal to prevent further spread. All proposed weed control methods must minimize the extent of any disturbance to native vegetation, limit ingress and egress to defined routes, and avoid damage from herbicide use or other control methods to any environmentally sensitive areas identified within or adjacent to the ROW.

New weed infestations shall be treated at a minimum of once annually until eradication, suppression, or containment goals are met. For eradication, when no new occurrences are observed for three consecutive years, the weed occurrence can be considered eradicated and weed control efforts may cease for the site.

Manual control shall specify well-timed removal of weeds or their seed heads with hand tools; seed heads and plants must be disposed of in accordance with guidelines from the San Bernardino County Agricultural Commissioner and Nevada Department of Agriculture, if such guidelines are available.

The chemical control section must include specific and detailed plans for any herbicide use. It must indicate where herbicides will be used, which herbicides will be used, and specify techniques to be used to avoid drift or residual toxicity to wildlife and native vegetation or special-status plants, consistent with BLM's *Vegetation Treatments Using Herbicides on BLM Lands in 17 Western States* (BLM, 2007) and *National Invasive Species Management Plan* (NISC, 2008). Only state and BLM-approved herbicides may be used. Herbicide treatment will be implemented by a Licensed Qualified Applicator. Herbicides shall not be applied during or within 24 hours of predicted rain. Only water-safe herbicides shall be used in riparian areas or within channels (engineered or not) where they could run off into downstream areas. Herbicides shall not be applied when wind velocities exceed six (6) mph. All herbicide applications will follow U.S. Environmental Protection Agency label instructions and will be in accordance with federal, state, and local laws and regulations.

**Reporting schedule and contents.** The IWMP shall specify the reporting schedule and contents of each report.

Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
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**Table 6-1. Mitigation Monitoring Program**

Plan/Reporting Requirements	SCE shall prepare and implement an Integrated Weed Management Plan and submit CPUC and BLM for review and approval at least 60 days prior to SCE’s application for Notice to Proceed  The IWMP shall specify the reporting schedule and contents of each report
Effectiveness Criteria	The spread or introduction of non-native weeds is avoided
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**MITIGATION MEASURE**      **MM BR-6: Minimize and mitigate impacts to special-status plants.** [Supersedes APM BIO-02.]

**Pre-construction survey.** SCE shall conduct focused pre-construction surveys for federal- and state-listed and other special-status plants within suitable habitat. All special-status plant species (including listed threatened or endangered species, and CNPS California Rare Plant Rank (CRPR) 1 and 2 ranked species likely to be impacted by project activities shall be documented in pre-construction survey reports. Surveys shall be conducted by a qualified botanist during the appropriate season in all suitable habitat within 50 feet of disturbance areas. The field surveys and reporting must conform to current CDFW botanical field survey protocol (CDFG, 2018). Where any special-status plants may be discovered, the survey area will extend beyond the ROW to determine the extent of the local occurrence, to evaluate the significance of any project impacts. The reports will describe any conditions that may have prevented target species from being located or identified, even if they are present as dormant seed or below-ground rootstock. If pre-construction survey areas conducted in years of poor rainfall or following other extreme events (e.g., recent intense overgrazing or wildfire), then the project shall use data from 2016/2017 and 2019 surveys to define population area and maximum number of individuals (Note, the unusually high rainfall in 2017 and 2019 are likely to better define rare plant locations and have more accurate results than subsequent years with lower rainfall). For species not previously detected on surveys but for which have a high potential to occur, reference populations will be used to determine if the species is detectable for pre-construction surveys conducted in suitable habitat. Prior to initial ground disturbance at individual construction work areas, SCE shall submit pre-construction field survey reports along with maps showing locations of survey areas and special-status plants to the CPUC and BLM for review and approval in coordination with CDFW.

**Native cactus and Yucca.** Most native cactus and shrubby *Yucca* species (Joshua tree and Mohave yucca) can be successfully salvaged and transplanted, and yuccas often provide an important vertical component to wildlife habitat. Therefore, native cactus (excluding chollas in the genus *Cylindropuntia*) and yuccas (including Joshua trees, *Y. brevifolia*), shall be avoided or salvaged as follows:

SCE will prepare and implement a cacti and yucca salvage plan. The goal shall be maximum practicable survivorship of salvaged plants. The Plan will include at minimum: (a) species and locations of plants identified for salvage; (b) criteria for determining whether an individual plant is appropriate for salvage; (c) the appropriate season for salvage; (d) equipment and methods for collection, transport, and re-planting plants or seed banks, to retain intact soil conditions and maximize success; (e) a requirement to mark each plant to identify the north-facing side prior to transport, and replant it in the same orientation; (f) details regarding storage of plants or seed banks for each species; (g) location of the proposed recipient site, and detailed site preparation and plant introduction techniques for top soil storage, as applicable; (h) a description of the irrigation, weed control, and other maintenance activities; (i) success criteria, including specific timeframe for survivorship and reproduction of each species; and (j) a detailed monitoring program, commensurate with the Plan’s goals.

**Mitigation.** SCE shall mitigate impacts to any state or federally listed plants or CRPR 1 or Nevada ranked S1, S2, or S3 species that may be located on the project disturbance areas or surrounding buffer areas through one or a combination of the following strategies. Additionally, impacts to CRPR 2 ranked plants occurring in California will be similarly mitigated.

**Table 6-1. Mitigation Monitoring Program**

Avoidance of special-status plants will be the preferred strategy wherever feasible. Where avoidance is not feasible, and the project would directly or indirectly affect more than 10 percent of a local occurrence,<sup>1</sup> by either number of plants (shrubs and trees) or extent of occupied habitat (annuals or perennial herbs), SCE shall prepare and implement a mitigation plan to consist of off-site compensation, salvage, horticultural propagation / off-site introduction, or a combination of these.

- **Avoidance.** Work areas shall be located to avoid or minimize impacts to special-status plants to the greatest extent possible. Effective avoidance through project design shall include a buffer area surrounding each avoided occurrence, where no project activities will take place. The buffer area will be clearly staked, flagged, and signed for avoidance prior to the beginning of ground-disturbing activities, and maintained throughout the construction phase. At minimum, the buffer for shrub species shall be equal to twice the drip line (i.e., two times the distance from the trunk to the canopy edge) to protect and preserve the root systems. The buffer for herbaceous species shall be a minimum of 50 feet from the perimeter of the occupied habitat or the individual(s). However, for locations in the mountains, a larger buffer may need to be applied to shrub and herbaceous species if the construction monitors determine there is a risk of indirect effects from erosion or inundation. If a smaller buffer is necessary due to other project constraints, SCE will develop and implement site-specific monitoring and put other measures in place to avoid the take of the species, with the approval of the CPUC and BLM, in coordination with CDFW.
- **Off-site compensation.** SCE shall provide compensation lands consisting of habitat occupied by the impacted CRPR 1 or 2 ranked plant populations at a 1:1 ratio of acreage and number of plants for any occupied habitat directly impacted (whether temporary or permanent) by the project. Occupied habitat will be calculated on the project site and on the compensation lands as including each special-status plant occurrence and a surrounding 50-foot buffer area. If compensation is selected as a means of mitigating special-status plant impacts, it may be accomplished by purchasing credit in an established mitigation bank, acquiring conservation easements, or direct purchase and preservation of compensation lands. Compensation for these impacts may be “nested” or “layered” with compensation for habitat loss described in Mitigation Measure BR-8.
- **Salvage.** SCE shall consult with a qualified restoration ecologist or horticulturist regarding the feasibility and likely success of salvage efforts for each species. If salvage is deemed to be feasible, based on prior success with similar species, then SCE shall prepare and implement a Special-status Plant Salvage and Relocation Plan, to be reviewed and approved by the CPUC and BLM, in consultation with CDFW and USFWS, prior to direct or indirect disturbance of any occupied habitat. For special-status plants, excluding cacti and Yuccas (see above), the goal shall be to improve existing populations or establish new populations. For cacti and yuccas, the goal shall be maximum practicable survivorship of salvaged plants. The Plan will include at minimum: (a) species and locations of plants identified for salvage; (b) criteria for determining whether an individual plant is appropriate for salvage; (c) the appropriate season for salvage; (d) equipment and methods for collection, transport, and re-planting plants or seed banks, to retain intact soil conditions and maximize success; (e) for shrubs, cacti, and yucca, a requirement to mark each plant to identify the north-facing side prior to transport, and replant it in the same orientation; (f) details regarding storage of plants or seed banks for each species; (g) location of the proposed recipient site, and detailed site preparation and plant introduction techniques for top soil storage, as applicable; (h) a description of the irrigation, weed control, and other maintenance activities; (i) success criteria, including specific timeframe for survivorship and reproduction of each species; and (j) a detailed monitoring program, commensurate with the Plan’s goals.

<sup>1</sup> An occurrence for a plant is defined as any population or group of nearby populations located more than 0.25 miles from any other population (CDFW, 2009).

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	<p>Annual monitoring reports shall be submitted to CPUC and BLM for five years or until the relocation effort is deemed successful on agreement of SCE and the CPUC. Reports shall include, but not be limited to, details of plants salvaged, stored, and transplanted (salvage and transplanting locations, species, number, size, condition, etc.); adaptive management efforts implemented (date, location, type of treatment, results, etc.); and evaluation of success of transplantation.</p> <ul style="list-style-type: none"> <li>▪ <b>Horticultural propagation and off-site introduction.</b> If salvage and relocation is not believed feasible for special-status plants, then SCE shall consult with a qualified entity to develop an appropriate experimental propagation and relocation strategy, based on the life history of the species affected. The Plan will include at minimum: (a) collection and salvage measures for plant materials (e.g., cuttings), seed, or seed banks, to maximize success likelihood; (b) details regarding storage of plant, plant materials, or seed banks; (c) location of the proposed propagation facility, and proposed methods; (d); time of year that the salvage and other practices will occur; (e) success criteria; and (f) a detailed monitoring program, commensurate with the Plan’s goals.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	<p>Prior to initial ground disturbance at individual construction work areas, SCE shall submit pre-construction field survey reports along with maps showing locations of survey areas and special-status plants to the CPUC and BLM for review and approval in coordination with CDFW</p> <p>SCE will prepare and implement a cacti and yucca salvage plan</p> <p>Annual monitoring reports shall be submitted to CPUC and BLM for five years or until the relocation effort is deemed successful on agreement of SCE and the CPUC</p>
Effectiveness Criteria	Impacts to special-status plants are minimized and mitigated
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM BR-7: Ensure wildlife impact avoidance and minimization.</b> SCE shall undertake the following measures during the construction and revegetation phases to avoid or minimize impacts to wildlife resources.</p> <ul style="list-style-type: none"> <li>▪ <b>Minimize traffic impacts.</b> SCE will specify and enforce a maximum 15 mile per hour vehicle speed limit on access roads within the ROW and project vicinity. No project-related pedestrian or vehicle traffic will be permitted outside defined work site or access route boundaries.</li> <li>▪ <b>Minimize lighting impacts.</b> Night lighting, when in use, shall be designed, installed, and maintained to prevent side casting of light towards surrounding fish or wildlife habitat.</li> <li>▪ <b>Avoid use of toxic substances.</b> Soil bonding and weighting agents used for dust suppression on unpaved surfaces shall be non-toxic to wildlife and plants.</li> <li>▪ <b>Minimize noise and vibration impacts.</b> To minimize disturbance to wildlife nesting or breeding activities in surrounding habitat, project-related helicopter use shall be avoided or managed to the extent feasible from January 1 to August 31. Unnecessary noise (e.g., blaring radios) shall be avoided.</li> <li>▪ <b>Water.</b> Potable and non-potable water sources such as tanks, ponds, and pipes shall be covered or otherwise secured to prevent animals (including birds) from entering. Prevention methods may include storing all water within closed tanks, covering open storage ponds or tanks with 2-centimeter netting, or other means as applicable. Water applied to roads and construction areas for dust abatement shall use the minimal amount needed to meet safety and air quality standards. Water sources (e.g., hydrants, tanks, etc.) shall be checked periodically by biological monitors to ensure they are not creating open water sources by leaking or consistently overfilling trucks.</li> <li>▪ <b>Worker guidelines.</b> All trash and food-related waste shall be contained in vehicles or covered trash containers and removed from the site regularly. Workers shall not feed wildlife or bring animals or pets to the project site with the exception of ADA-compliant</li> </ul>

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service animals. Except for law enforcement personnel, no workers or visitors to the site shall bring firearms or weapons.

- **Wildlife netting or exclusion fencing.** SCE may install temporary netting or permanent screening or fencing around equipment, work areas, or project facilities to prevent wildlife exposure to hazards such as toxic materials or vehicle strikes or prevent birds from nesting on equipment or facilities. Bird deterrent netting will be maintained free of holes and will be deployed and secured on the equipment in a manner that prevents wildlife from becoming trapped inside the netted area or within the excess netting. The biological monitor will inspect netting (if installed) twice daily, at the beginning and close of each work day, with the exception of netting installed in established material yards, which will be inspected at least once daily. The biological monitor will inspect exclusion fence (if installed) weekly and will inform SCE of any needed repairs; SCE shall promptly repair any damage to the exclusion fencing. Temporary netting shall be removed and properly disposed of following the completion of project activities.
- **Wildlife entrapment.** Project-related excavations shall be secured to prevent wildlife entry and entrapment. Holes and trenches shall be backfilled, securely covered, or fenced. Excavations that cannot be fully secured shall incorporate appropriate wildlife ramp(s) at a slope of no more than a 3:1 ratio, or other means to allow trapped animals to escape. Biological monitors shall provide guidance to construction crews to ensure that wildlife ramps or other means are sufficient to allow trapped animals to escape. At the end of each work day, a biological monitor shall ensure that excavations have been secured or provided with appropriate means for wildlife escape.  
All pipes or other construction materials or supplies that CPUC monitors determine to present a risk to wildlife will be covered or capped in storage or laydown areas. No pipes or tubing of the size and nature that may entrap wildlife will be left open either temporarily or permanently, except during use or installation. Any construction pipe, culvert, or other hollow materials will be inspected for wildlife before it is moved, buried, or capped.
- **Dead animals.** Dead animals (of non-special-status species) large enough to subsidize ravens found on unpaved project roads, work areas, or the ROW shall be reported to the appropriate local animal control agency within 24 hours, to minimize raven subsidies. A biological monitor shall safely move the carcass out of the road or work area as needed. Dead animals of special-status species found on unpaved project roads, work areas, or the ROW shall be reported to CDFW within one work day and the carcass handled as directed by CDFW.
- **Injured special-status wildlife.** SCE shall create and implement guidelines for dealing with injured or entrapped special-status wildlife found on or near project roads, work areas, or the ROW, and provide these guidelines to all biological monitors. If an animal is entrapped, a qualified biological monitor shall free the animal if feasible, or work with construction crews to free the animal, in compliance with applicable safety regulations and project requirements. If biological monitors cannot free the animal or the animal is too large or dangerous for monitors to handle, SCE shall contact and work with animal control, CDFW, or other qualified party to obtain assistance for the animal as soon as possible.

SCE shall ensure that one or more qualified biological monitors receive training in the safe and proper handling and transport of injured wildlife and are provided with the appropriate equipment. These trained and equipped monitors shall be available to capture and transport injured wildlife to a local wildlife rehabilitator or veterinarian as needed. If the injured animal is too large or dangerous for monitors to handle, or a trained and equipped monitor is not available, SCE shall contact and work with a local wildlife rehabilitator, animal control, CDFW, or other qualified party to obtain assistance for the animal as soon as possible. A list of qualified wildlife rehabilitators, veterinarians, and animal control agencies will be maintained to ensure a timely response to requests for support. SCE shall bear the costs of veterinary treatment and rehabilitation for any wildlife

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	injured by project-related activities and any injured wildlife found on or near project roads, work areas, or the ROW, unless the injuries are clearly not project-related, as determined by a qualified biologist. Additionally, any entrapped or injured special-status species found on project roads (with the exception of public roads), work areas, or the ROW shall be reported to the appropriate resource agency within one work day.
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Impacts to wildlife are avoided or minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**MITIGATION MEASURE**      **MM BR-8: Compensate for desert tortoise habitat loss.** [Supersedes APM BIO-05.] SCE shall compensate for all desert tortoise habitat loss through off-site habitat acquisition and management, or through participation in an approved in-lieu fee compensatory mitigation bank, or other agency approved mitigation strategies. This mitigation measure will be applicable to all temporary and permanent project disturbance to natural habitat types, (i.e., all vegetation types identified in Table 5.4-2, excluding active agriculture, barren, and developed lands). This compensatory mitigation for desert tortoise will also mitigate for habitat impacts to other native wildlife species.

Habitat compensation shall be accomplished by acquisition of mitigation land or conservation easements or by providing funding for specific land acquisition, endowment, restoration, and management actions. SCE shall prepare a Habitat Compensation Plan to be reviewed and approved by the CPUC- and, BLM, in coordination with the USFWS and CDFW.

SCE shall acquire and protect, in perpetuity, compensation habitat to mitigate impacts to biological resources as detailed below. SCE shall be responsible for the acquisition, initial protection and or habitat improvement. SCE may convey title of the compensation lands to a public agency such as BLM, NPS, or CDFW or the lands may be held by a private conservation entity. If the land is conveyed to BLM, it shall be within a land use designation such as Area of Environmental Concern, wilderness, or similar designation consistent with long-term management for biological resource values and excluding incompatible land uses (e.g., energy development). If it is conveyed to CDFW, or retained under private ownership, it shall be covered by a conservation easement or other terms acceptable to CDFW. If there is any conflict between the requirements of this mitigation measure and requirements of any resource agency permit (e.g., USFWS Biological Opinion or CDFW Incidental Take Permit), the more stringent requirement shall apply.

The acreages of compensation land shall be based upon final engineering calculation of impacted acreage for each resource and on ratios set forth in this measure, or a USFWS Biological Opinion, a CDFW Streambed Alteration Agreement, a CDFW Incidental Take Permit, or the Consistency Determination, whichever presents a higher ratio. Acreages will be adjusted as appropriate for other alternatives or future modifications during implementation.

Compensation shall be provided for impacts to the following resources, at the ratios specified below (acres acquired and preserved to acres impacted). These ratios reflect multiple biological resource values, including habitat suitability for special-status species.

- Previously disturbed lands (agriculture, developed/disturbed) and open water: n/a (no habitat compensation required)
- Undisturbed land, including suitable desert tortoise habitat outside designated critical habitat: 1:1
- Suitable desert tortoise habitat within designated critical habitat: 5:1

The Habitat Compensation Plan must specify compensation acreage for each habitat type, based on final engineering. Final compensation requirements may be adjusted to account

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	<p>for any deviations in project disturbance, according to the as-built shapefiles aerial imagery.</p> <p><b>Compensation Land Selection Criteria.</b> Criteria for the acquisition, initial protection and habitat improvement, and long-term maintenance and management of compensation lands for impacts to biological resources shall include all of the following:</p> <ul style="list-style-type: none"> <li>▪ Compensation lands will provide habitat value that is equal to or better than the quality and function of the habitat impacted by the project, taking into consideration soils, vegetation, topography, human-related disturbance, wildlife movement opportunity, proximity to other protected lands, management feasibility, and other habitat values, subject to review and approval by CPUC and BLM;</li> <li>▪ Potential compensation sites where creosote rings are found will be prioritized where feasible, and where consistent with the other selection criteria;</li> <li>▪ To the extent that proposed compensation habitat may have been degraded by previous uses or activities, the site quality and nature of degradation must support the expectation that it will regenerate naturally when disturbances are removed and SCE will receive appropriate ratio credits for restoration;</li> <li>▪ Be near larger blocks of lands that are either already protected or planned for protection, or which could feasibly be protected long-term by a public resource agency or a non-governmental organization dedicated to habitat preservation;</li> <li>▪ Not have a history of intensive recreational use or other disturbance that might cause future erosion or other habitat damage, and make habitat recovery and restoration infeasible;</li> <li>▪ Not be characterized by high densities of invasive species, either on or immediately adjacent to the parcels under consideration, that might jeopardize habitat recovery and restoration;</li> <li>▪ Not contain hazardous wastes that cannot be removed to the extent that the site could not provide suitable habitat;</li> <li>▪ Have water and mineral rights included as part of the acquisition, unless the CPUC and BLM, in consultation with CDFW and USFWS, agree in writing to the acceptability of land without these rights.</li> </ul> <p><b>Review and Approval of Compensation Lands Prior to Acquisition.</b> SCE shall submit a Draft Habitat Compensation Plan for review and approval by the CPUC and BLM describing the parcel(s) intended for protection. This Plan will discuss the suitability of the proposed parcel(s) as compensation lands in relation to the selection criteria listed above.</p> <p><b>Management Plan.</b> If the compensation land is held by a private entity, SCE or approved third party shall prepare a management plan for the compensation lands in consultation with the entity that will be managing the lands. The goal of the management plan will be to support and enhance the long-term viability of the biological resources. The Management Plan must be submitted for review and approval to the CPUC and BLM, in consultation with CDFW and USFWS. If the land is conveyed to a public agency, SCE will coordinate with the agency as needed to identify management planning needs (if any).</p> <p><b>Compensation Lands Acquisition Requirements.</b> Compensation land parcels, management planning and funding mechanism, management entities, habitat protection and improvement measures, title conveyance, conservation easement language and easement holder, all will be subject to review and approval by CPUC and BLM in coordination with CDFW and USFWS.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall submit a Draft Habitat Compensation Plan for review and approval by the CPUC and BLM

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	If the compensation land is held by a private entity, SCE or approved third party shall prepare a management plan to be submitted for review and approval by CPUC and BLM, in consultation with CDFW and USFWS
Effectiveness Criteria	Impacts for all loss of desert tortoise habitats are compensated
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>BR-9: Conduct surveys and avoidance for special-status reptiles.</b> [This measure incorporates and supersedes APM BIO-04].</p> <ul style="list-style-type: none"> <li>▪ Pre-activity Surveys: No more than seven days prior to the onset of ground-disturbing activities, an agency-approved biologist — with experience monitoring and handling desert tortoise — will conduct a pre-activity survey in all work areas within potential desert tortoise, banded Gila monster, desert rosy boa, or Mojave fringe-toed lizard habitat, plus an approximately 300-foot buffer. If potentially suitable burrows, sand fields, or rock piles are found, they shall be checked for occupancy. All desert tortoise burrows within the pre-activity survey area (including desert tortoise pallets) must be flagged or marked using an alternate method with minimal potential risk of cuing predators, to be developed in coordination with CDFW so that they may be avoided during work activities. Proposed actions will avoid disturbing desert tortoise burrows to the extent possible. However, burrows may be excavated if they can't be avoided and would be impacted by construction activities. If a tortoise must be handled or a potential tortoise burrow must be excavated, the biologist shall proceed according to the Desert Tortoise (Mojave Population) Field Manual (USFWS 2009) or any requirements of the USFWS and CDFW incidental take authorizations. No desert tortoise may be handled except under explicit authorization from USFWS and CDFW.</li> <li>▪ Monitoring: The approved tortoise biologist shall be available on site to monitor any work areas for desert tortoise, banded Gila monster, desert rosy boa, and Mojave fringe-toed lizard as needed. The approved tortoise biologist shall also be responsible for performing surveys prior to Proposed Project activities in suitable habitat for all three species. The approved tortoise biologist will have the authority to halt all non-emergency actions (as soon as safely possible) that may result in harm to desert tortoise, and will assist in the overall implementation of all adopted protection measures for special-status reptiles. As an alternative to full-time on-site monitoring, selected work areas (e.g., the series capacitors) may be enclosed by desert tortoise exclusion fencing and then covered by two complete 100 percent coverage clearance surveys. If exclusion fencing is installed, the agency-approved tortoise biologist shall monitor installation.</li> <li>▪ Desert Tortoise in Work Area: In the event that a desert tortoise is encountered in the work area, all work shall cease and the approved biologist must be contacted. Work shall not recommence until the animal has voluntarily moved to a safe distance away from the work area unless incidental take permits have been obtained to allow handling. Desert tortoises may be moved by an agency-approved biologist as authorized by state and federal incidental take permits if necessary to move them out of harm's way. Encounters with special-status herpetofauna will be reported to an approved biologist. Encounters with desert tortoise will be documented and provided to the California Department of Fish and Wildlife (CDFW), BLM, and U.S. Fish and Wildlife Service (USFWS). In the event that a dead or injured desert tortoise is observed, the approved biologist shall notify SCE's herpetologist and report the incident to the CDFW, BLM, and USFWS.</li> <li>▪ Under Vehicle Checks: Desert tortoises and other wildlife commonly seek shade during the hottest times of the day. All employees shall be required to check under their equipment or vehicles before they are moved. If special-status wildlife is encountered, the vehicle shall not be moved until the animal(s) have voluntarily moved to a safe distance away from the parked vehicle. Desert tortoises and special-status species may be moved by the approved biologist, if necessary, to move them out of harm's way.</li> </ul>

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	<ul style="list-style-type: none"> <li>▪ Handling Desert Tortoise: Only an agency-approved biologist may move or handle desert tortoises as authorized by state and federal incidental take permits. When a desert tortoise is moved, the approved biologist will be responsible for taking appropriate measures to ensure that the animal is not exposed to harmful temperature extremes. The approved biologist shall follow the appropriate protocols outlined in the Desert Tortoise (Mojave Population) Field Manual (USFWS 2009) when handling desert tortoises or excavating their burrows as described in the state and federal take authorizations.</li> <li>▪ Excavation of Desert Tortoise Burrows: Should it prove necessary to excavate a desert tortoise from its burrow to move it out of harm’s way, excavation shall be done using hand tools, either by or under the direct supervision of an approved biologist. Excavation of desert tortoise burrows will occur no more than seven days before the onset of construction activities at any given site. All desert tortoises removed from burrows must be placed in an unoccupied burrow that is approximately the same size as the one from which it was removed. If an existing burrow is unavailable, the approved biologist shall construct or direct the construction of a burrow of similar shape, size, depth, and orientation as the original burrow following guidelines in the Desert Tortoise (Mojave Population) Field Manual (USFWS 2009). To ensure their safety, desert tortoises moved during inactive periods must be monitored for at least two days after placement in the new burrows or until the end of the construction activity.</li> </ul> <p>If desert tortoises need to be moved at a time of day when ambient temperatures could harm them (i.e., at temperatures lower than 40 degrees Fahrenheit (°F) or higher than 90°F), they must be held overnight in a clean cardboard box. These desert tortoises shall be kept in the care of the approved biologist under appropriate controlled temperatures and released the following day when temperatures are favorable. All cardboard boxes shall be appropriately discarded after one use.</p> <ul style="list-style-type: none"> <li>▪ Vehicle Travel: Motor vehicles shall be limited to maintained roads and designated routes. If additional routes are needed, they must first be surveyed and approved by the approved biologist.</li> <li>▪ Raven Management: SCE shall prepare (for CPUC review and wildlife agency approval) and implement a Raven Management Plan (RMP) to minimize avian predation of desert tortoise for the Proposed Project. The purpose of the RMP is to utilize methods that deter raven depredation of juvenile desert tortoises, and other wildlife species. The RMP is not intended to eliminate or control raven populations, but will target offending ravens that have been found to prey upon desert tortoises. The RMP will incorporate an adaptive management strategy for immediate implementation following construction of the Proposed Project. The RMP will be evaluated after three years of implementation, or as needed, if avian predation becomes apparent. The following activities may be implemented as part of the RMP: 1) Common raven nest/power line monitoring, 2) Funding of offending raven control via contract with the U.S. Department of Agriculture, and 3) Alternative control strategies developed in coordination with USFWS (e.g. egg-oiling, laser deterrents, etc.). Mutual and timely cooperation between SCE and the BLM, USFWS, and CDFW is central to effective implementation of the RMP.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall prepare (for CPUC review and wildlife agency approval) a Raven Management Plan (RMP)
Effectiveness Criteria	Impacts to special-status reptiles are minimized
Verification Responsibility	Pre-construction surveys are submitted to the CPUC
<b>MITIGATION MEASURE</b>	<b>MM BR-10: Prepare and implement a Nesting Bird Management Plan.</b> [Supersedes APM BIO-06.] SCE shall prepare and implement a Nesting Bird Management Plan (NBMP) in coordination with CPUC, BLM, CDFW, and USFWS. The NBMP shall describe methods to minimize potential project effects to nesting birds and avoid any potential for unauthorized

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take. Where scheduling allows SCE will endeavor to conduct clearing of any vegetation, site preparation in open or barren areas, or other project-related activities that may adversely affect breeding birds outside the nesting season. Project-related disturbance including construction and pre-construction activities shall not proceed within 300 feet of active nests of common bird species or 500 feet of active nests of raptors or special-status bird species (except for golden eagle) until approval of the NBMP by CPUC and BLM in consultation with CDFW and USFWS.

**NBMP Content.** The NBMP shall include: (1) definitions of default nest avoidance buffers for each species or group of species, depending on characteristics and conservation status for each species and the nature of planned Project activities in the vicinity; (2) a notification procedure for buffer distance reductions should they become necessary; (4) a pre-construction survey protocol (surveys no longer than 7 days prior to starting work activity at any site); (5) a monitoring protocol, to be implemented until adjacent construction activities are completed or the nest is no longer active, including qualifications of monitors, monitoring schedule, and field methods, to ensure that any project-related effects to nesting birds will be minimized; and (6) a protocol for documenting and reporting any inadvertent contact with or effects to birds or nests. The NBMP will be applicable throughout the nesting season (beginning January 1 for raptors, February 1 for most other birds, and continuing through the end of August).

**Golden eagles.** SCE shall review all available USFWS data to identify known golden eagle nest sites or territories in the vicinity of the Project route. SCE shall either assume that known nest sites are occupied or at its discretion conduct nesting season surveys within a 1 mile radius of the portions of the project area where suitable nesting habitat may exist and where work will occur during the breeding season (December 1 through July 31). If a potentially occupied nest (based either on assumption or field data) is detected within 1 mile of the project, SCE shall implement a one-mile line-of-sight and one-half mile no line-of-sight buffer to ensure that project construction activities do not result in injury or disturbance to golden eagles.

**Nest deterrents.** The NBMP shall describe any proposed measures or deterrents to prevent or reduce bird nesting activity on project equipment or facilities, such as buoys, visual or auditory hazing devices, bird repellents, securing of materials, and netting of materials, vehicles, and equipment. It shall also include timing for installation of nest deterrents and field confirmation to prevent effects to any active nest; guidance for the contractor to install, maintain, and remove nest deterrents according to product specifications; and periodic monitoring of nest deterrents to ensure proper installation and functioning and prevent injury or entrapment of birds or other animals. In the event that an active nest is located on project facilities, materials or equipment, SCE will avoid disturbance or use of the facilities, materials or equipment (e.g., by red-tag) until the nest is no longer active.

**Communication.** The NBMP shall specify the responsibilities of construction monitors with regard to nests and nest issues and specify a direct communication protocol to ensure that nest information and potential adverse impacts to nesting birds can be promptly communicated from nest monitors to construction monitors, so that any needed actions can be taken immediately.

The NBMP shall specify a procedure to be implemented following accidental disturbance of nests, including wildlife rehabilitation options. It also shall describe any proposed measures, and applicable circumstances, to prevent take of precocial young of ground-nesting birds such as killdeer or quail. For example, chick fences may be used to prevent them from entering work areas and access roads. Finally, the NBMP will specify a procedure for removal of inactive nests, including verification that the nest is inactive and a notification/approval process.

**Reporting.** Throughout the construction phase of the project, nest locations, project activities in the vicinity of nests (including helicopter traces), and any adjustments to buffer areas shall be updated and available to CPUC monitors on a daily basis. All buffer

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	reduction notifications and prompt notifications of nest-related non-compliance and corrective actions will be made via email to CPUC monitors. The draft NBMP shall include a proposed format for daily and weekly reporting (e.g., spreadsheet available online, tracking each nest). In addition, the NBMP shall specify the format and content of nest data to be provided in regular monitoring and compliance reports. At the end of each year's nest season, SCE will submit an annual NBMP report to the CPUC, BLM, CDFW, and USFWS. Specific contents and format of the annual report will be reviewed and approved by the CPUC and BLM in consultation with CDFW and USFWS.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall prepare and implement a Nesting Bird Management Plan (NBMP) for approval by CPUC and BLM in consultation with CDFW and USFWS  The draft NBMP shall include a proposed format for daily and weekly reporting  At the end of each year's nest season, SCE will submit an annual NBMP report to the CPUC, BLM, CDFW, and USFWS
Effectiveness Criteria	Compliance with Nesting Bird Management Plan
Verification Responsibility	Agencies or Agency Monitor will verify compliance, pre-construction surveys are submitted to the CPUC

<b>MITIGATION MEASURE</b>	<p><b>MM BR-11: Conduct surveys and avoidance for burrowing owl.</b> [Supersedes APM BIO-07.] Burrowing owl surveys shall be conducted in accordance with the most current CDFW guidelines in Appendix D of the Staff Report on Burrowing Owl Mitigation (CDFG, 2012; or updated guidelines as they become available) in all potential habitat, regardless whether or not the previous assessment identified burrows. SCE shall take measures to avoid impacts to any active burrowing owl burrow within or adjacent to a work area. The default buffer for a burrowing owl burrow is 300 feet for ground construction, and 300 feet horizontal and 200 feet vertical for helicopter construction. Effectiveness of the buffer area will be monitored, and adjustments will be made if necessary. The Nesting Bird Management Plan (Mitigation Measure BR-10) will specify a procedure for adjusting this buffer, if needed. Binocular surveys may be substituted for protocol field surveys on private lands adjacent to the project site only when SCE has made reasonable attempts to obtain permission to enter the property for survey work but was unable to obtain such permission.</p> <p>If active burrowing owl burrows are located within project work areas, SCE may passively relocate the owls by preparing and implementing a Burrowing Owl Passive Relocation Plan, as described below. SCE shall prepare a draft Burrowing Owl Passive Relocation Plan for review and approval by CPUC and BLM in consultation with CDFW and USFWS prior to the start of any ground-disturbing activities. SCE may not initiate burrowing owl passive relocation prior to finalization of the Plan and approval by CPUC and BLM. No active relocation shall be permitted. No passive relocation of burrowing owls shall be permitted during breeding season, unless a qualified biologist verifies through non-invasive methods that an occupied burrow is not occupied by a mated pair, and only upon authorization by CDFW. The Plan shall include, but not be limited to, the following elements:</p> <ul style="list-style-type: none"> <li>▪ <b>Assessment of Suitable Burrow Availability.</b> The Plan shall include an inventory of existing, suitable, and unoccupied burrow sites within 500 feet of the affected project work site. Suitable burrows will include inactive desert kit fox, ground squirrel, or desert tortoise burrows that are deep enough to provide suitable burrowing owl nesting sites, as determined by a qualified biologist. If two or more suitable and unoccupied burrows are present in the area for each burrowing owl that will be passively relocated, then no replacement burrows will need to be built.</li> <li>▪ <b>Replacement Burrows.</b> For each burrowing owl that will be passively relocated, if fewer than two suitable unoccupied burrows are available within 500 feet of the affected project work site, then SCE shall construct at least two replacement burrows within 500 feet of the affected project work site. Burrow replacement sites shall be in areas of</li> </ul>
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	<p>suitable habitat for burrowing owl nesting, and subject to minimal human disturbance and access. The Plan shall describe measures to ensure that burrow installation or improvements would not affect sensitive species habitat or any burrowing owls already present in the relocation area. The Plan shall provide guidelines for creation or enhancement of at least two natural or artificial burrows for each active burrow within the project disturbance area, including a discussion of timing of burrow improvements, specific location of burrow installation, and burrow design. Design of the artificial burrows shall be consistent with CDFW guidelines (CDFG, 2012; or more current guidance as it becomes available) and shall be approved by the CPUC, BLM, CDFW, and USFWS.</p> <ul style="list-style-type: none"> <li>▪ <b>Methods.</b> Provide detailed methods and guidance for passive relocation of burrowing owls, outside the breeding season. An occupied burrow may not be disturbed during the nesting season (generally, but not limited to, February 1 to August 31), unless a qualified biologist determines, by non-invasive methods, that it is not occupied by a mated pair. Passive relocation would include installation of one-way doors on burrow entrances that would let owls out of the burrow but would not let them back in. Once owls have been passively relocated, burrows will be carefully excavated by hand and collapsed by, or under the direct supervision, of a qualified biologist.</li> <li>▪ <b>Monitoring and Reporting.</b> Describe monitoring and management of the replacement burrow site(s) and provide a reporting plan. The objective shall be to manage the relocation area for the benefit of burrowing owls, with the specific goal of maintaining the functionality of the burrows for a minimum of two years. Monitoring reports shall be available to the CPUC and BLM on a weekly basis.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation
Plan/Reporting Requirements	<p>SCE shall prepare a draft Burrowing Owl Passive Relocation Plan for review and approval by CPUC and BLM in consultation with CDFW and USFWS</p> <p>Monitoring reports shall be available to the CPUC and BLM on a weekly basis</p>
Effectiveness Criteria	Impacts to Burrowing Owl are avoided or minimized
Verification Responsibility	Pre-construction surveys are submitted to the CPUC
<b>MITIGATION MEASURE</b>	<p><b>MM BR-12: Conduct surveys and avoidance for bats.</b> SCE shall conduct surveys for roosting bats within 200 feet of project work areas within 14 days prior to any grading of rocky outcrops or removal of large trees (12 inches in diameter or greater at 4.5 feet above grade) with loose bark or other cavities, foliage, and palm fronds. Surveys shall be conducted during the breeding season (1 March to 31 July) and the non-breeding season. Surveys shall be performed by a qualified bat biologist (i.e., a biologist holding a CDFW collection permit and a Memorandum of Understanding or equivalent agreement with CDFW allowing the biologist to handle bats). The resume of the biologist shall be provided to the CPUC and BLM for concurrence in consultation with CDFW and USFWS prior to the biologist beginning field duties on the project. Surveys shall include a minimum of one day and one evening.</p> <p>Any active bat roosts, including occupied day roosts, maternity roosts, and hibernacula, must be identified and clearly marked. An exclusion area will be established 165 feet from any active roost, and these areas will be avoided during construction activities. Ingress and egress along established routes will be permitted in those areas, and additional buffer reductions may be considered in coordination with the qualified bat biologist, CPUC, and CDFW. If active roosts are found, then SCE will either (1) delay construction activities at these sites until the roost is no longer active, or (2) conduct follow-up focused surveys to determine if the sites support special-status bat species. If the roost is occupied by common species, then work activities may proceed. SCE shall consult with a bat specialist in order to determine when the breeding cycle for the special-status bats is completed. SCE shall consult with CDFW regarding eviction of non-breeding bats.</p>

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	SCE shall submit documentation providing pre-construction survey results and any avoidance of roosting and nursery sites to the CPUC and BLM for review and approval.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall submit documentation providing pre-construction survey results and any avoidance of roosting and nursery sites to the CPUC and BLM for review and approval
Effectiveness Criteria	Impacts to bats are avoided or minimized
Verification Responsibility	Pre-construction surveys are submitted to the CPUC
<b>MITIGATION MEASURE</b>	<p><b>MM BR-13: Conduct surveys and avoidance for American badger, ringtail, and desert kit fox.</b> SCE shall conduct pre-construction surveys for desert kit fox, ringtail, and American badger no more than 30 days prior to initiation of construction activities. Surveys shall be conducted in areas that contain habitat for these species and shall include project disturbance areas and access roads plus a 200-foot buffer surrounding these areas. SCE shall submit documentation providing pre-construction survey results to the CPUC and BLM for review and approval. If dens are detected, each den shall be classified as inactive, potentially active, active non-natal, or active natal.</p> <p>Inactive dens located in project disturbance areas may be excavated by hand and backfilled to prevent reuse, only upon confirmation that they are inactive.</p> <p>Active or potentially active dens shall be flagged and project activities, with exceptions as listed below, within 100 feet (non-natal dens) or 200 feet (natal dens, or any active den during the breeding season) shall be avoided. Ingress/egress of construction vehicles and equipment through buffers and low intensity activities such as inspections and BMP maintenance within buffers is allowed, provided a qualified biologist determines that these activities will not impact dens or denning animals. Buffers may be modified with concurrence of CPUC and BLM, in consultation with CDFW and USFWS. If active dens are found within project disturbance areas and avoidance is not possible, SCE shall take action as specified below, after notifying and obtaining concurrence from CPUC, BLM, and CDFW.</p> <p><b>Active and potentially active non-natal dens.</b> Outside the breeding season, any potentially active dens that would be directly impacted by construction activities shall be monitored by a qualified mammologist or biologist for three consecutive nights using a tracking medium (such as diatomaceous earth or fire clay) or infrared camera stations at the entrance. If no tracks are observed in the tracking medium or no photos of the target species are captured after three nights, the den may be excavated and backfilled by hand. If tracks are observed, the den may be progressively blocked with natural materials (rocks, dirt, sticks, and vegetation piled in front of the entrance) for the next three to five nights to discourage continued use. After verification that the den is no longer active, the den may be excavated and backfilled by hand.</p> <p><b>Active natal dens.</b> Active natal dens (any den with cubs or pups) or any den active during the breeding season will not be excavated or passively relocated. The cub or pup-rearing season is generally from January 15 through mid-September. A 200-foot no-disturbance buffer shall be maintained around all active natal dens. Discovery of an active natal den that could be impacted by the project shall be reported to the CPUC, BLM, and CDFW within 24 hours of the discovery along with a map of the den location and a copy of the survey results. A qualified biologist shall monitor the natal den until he or she determines that the pups have dispersed. Any disturbance to denning animals or activities that might disturb denning activities shall be prohibited within the buffer zone. Once the pups have dispersed, methods listed above for non-natal dens may be used to discourage den reuse. After verification that the den is unoccupied, it shall then be excavated by hand and backfilled to ensure that no animals are trapped in the den.</p> <p>If canine distemper is reported in desert kit fox on the site or surrounding areas, then SCE shall coordinate with CPUC, BLM, and CDFW to identify appropriate actions prior to continuing implementation of this mitigation measure in respect to desert kit fox. Any obser-</p>

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	<p>vations of a kit fox that appears sick or any kit fox mortality shall be reported to CPUC, CDFW, and BLM within one work day.</p> <p>In the event that passive relocation techniques fail, SCE shall contact the CPUC, BLM, and CDFW to explore other relocation options.</p> <p>All den monitoring and excavation activities and passive relocations shall be documented and reported to the CDFW, BLM, and CPUC in weekly monitoring reports, and a written summary will be included in each annual monitoring report.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	<p>SCE shall submit documentation providing pre-construction survey results to the CPUC and BLM for review and approval</p> <p>All den monitoring and excavation activities and passive relocations shall be documented and reported to the CDFW, BLM, and CPUC in weekly monitoring reports, and a written summary will be included in each annual monitoring report</p>
Effectiveness Criteria	Impacts to American badger, ringtail, and desert kit fox are avoided or minimized
Verification Responsibility	Pre-construction surveys are submitted to the CPUC
<b>Cultural Resources</b>	
<b>MITIGATION MEASURE</b>	<b>APM-CUL-02: Cultural Resources Survey.</b> SCE would perform surveys prior to construction for any Proposed Project areas not yet surveyed (e.g., new or modified staging areas, pull sites, or other work areas).
Timing	Pre-construction and Construction Phases
Plan/Reporting Requirements	As required by CRMP
Effectiveness Criteria	Impacts to cultural resources are minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>MM CR-1: Retain a Cultural Resources Specialist.</b> Prior to the start of construction, a project Cultural Resources Specialist (CRS) whose training and background conforms to the U.S. Secretary of Interior’s Professional Qualifications Standards, as published in Title 36, Code of Federal Regulations, part 61 (36 C.F.R., part 61) shall be retained by SCE to supervise monitoring of construction excavations and to prepare a Cultural Resources Management Plan (CRMP) for the approved project. Their qualifications shall be appropriate to the needs of the project, specifically an archaeologist with demonstrated prior experience in the southern California desert and previous experience working with Southern California Tribal Nations. A copy of their qualifications shall be provided to the CPUC for review and approval. The project Cultural Resources Specialist shall use the services of Cultural Resources Monitors, tribal monitors and Field Crew as needed, to assist in mitigation, monitoring, and curation activities, as outlined in the CRMP. A copy of all proposed cultural staff qualifications shall be provided to the CPUC for review and approval prior to beginning work.
Timing	Pre-construction
Plan/Reporting Requirements	None
Effectiveness Criteria	Retention of a cultural resources specialist
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>MM CR-2: Cultural resources environmental awareness training.</b> Project personnel, including cultural resources monitors and tribal monitors, shall receive training that includes sensitivity training provided through participating tribes in video format regarding the appropriate work practices necessary to effectively implement the APMs and mitigation measures related to cultural resources and tribal cultural resources, including human remains. Training shall be required for all personnel before they begin

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	work on a project site and repeated as needed for all new personnel before they begin work on the Project. This training program shall be submitted to the CPUC for approval at least 30 days before the start of construction and include procedures to be followed upon the discovery or suspected discovery of archaeological materials, tribal cultural resources, and human remains, consistent with the procedures set forth in the CRMP. This training may be integrated with a broader Worker Environmental Awareness Training program. Documentation of the training will be provided to the BLM and CPUC. The CPUC will provide documentation to the consulting tribes.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	See MM BR-2
Effectiveness Criteria	All on-site project personnel receive this training prior to beginning work
Verification Responsibility	Agencies or Agency Monitor will verify compliance

<b>MITIGATION MEASURE</b>	<p><b>MM CR-3: Prepare and implement a Cultural Resources Management Plan.</b> Prior to the beginning of construction, SCE shall submit at least 90 days before construction a Cultural Resources Management Plan (CRMP) for the project to the BLM and CPUC for review. The CPUC will submit the CRMP to representatives of consulting tribes for a 30-day review and comment period prior to approving the CRMP. The CPUC will in good faith consider any comments received from consulting tribes and incorporate such comments into the CRMP as deemed feasible. A single plan document that meets the requirements of both BLM and CPUC is acceptable. The CRMP shall be implemented under the direction of the SCE and the project Cultural Resources Specialist. The CRMP shall be prepared at the sole expense of the project proponent and shall meet all regulatory requirements. At a minimum the CRMP must address the following:</p> <ul style="list-style-type: none"> <li>▪ The duties of the project Cultural Resources Specialist and associated staff shall be fully explained, including oversight/management, monitoring, and reporting duties with respect to known cultural resources and tribal cultural resources as well as site evaluation, data collection, and reporting for any newly identified resources discovered during project activities. The professional standards and ethical guidelines for all cultural resource personnel will be clearly outlined in the CRMP.</li> <li>▪ No collection of artifacts is authorized or planned for this project. If an unanticipated discovery requires evaluation via excavation and artifact collection, the retention/disposal, and permanent and temporary curation policies shall be specified. The decision-making process for identifying which artifacts are curated or reburied, where they are reburied and the individuals, including tribal participants, making these decisions shall be described. These policies shall apply to cultural resources materials and documentation resulting from evaluation and treatment of cultural resources and tribal cultural resources discovered during project activities.</li> <li>▪ The CRMP shall define and map all known prehistoric and historic resources eligible to the NRHP and CRHR within 100 feet of proposed work areas. How these resources will be avoided and protected during construction will be described. Avoidance measures to be used will be described, including where and when they will be implemented. How avoidance measures and enforcement of Environment Sensitive Areas (ESAs) will be coordinated with construction personnel will be included.</li> <li>▪ The implementation sequence and the estimated time frames needed to accomplish all project-related tasks (i.e., evaluation of new resources resulting in work stoppage, time to complete reports, etc.) during the project activities and any post-project analysis phases of the project, if necessary, shall be specified. The intensity of monitoring proposed for each resource that may be impacted by project activities shall be outlined in the CRMP.</li> <li>▪ Person(s) expected to perform each monitoring and, if necessary, treatment task, their responsibilities, and the reporting relationships between project construction management and the monitoring and treatment team shall be outlined in the CRMP.</li> </ul>
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**Table 6-1. Mitigation Monitoring Program**

	<ul style="list-style-type: none"> <li>▪ Tribal Monitors shall be retained to monitor ground disturbing activities within 100 feet of prehistoric and protohistoric resources. Tribal Monitors shall be retained for data recovery within prehistoric and protohistoric resources identified for data recovery. The ELM Project area spans multiple Tribal areas. The Tribe affiliated with a specific area will be considered first to provide Tribal Monitors. If multiple Tribes or Tribal Organizations are affiliated with a specific area, Tribal Monitors will be selected on a rotating basis. The CRMP will describe the roles and responsibilities of the monitors. Tribal monitors will be compensated. All impact-avoidance measures (such as the presence of monitors) to prohibit or otherwise restrict access to sensitive resource areas that are to be avoided during ground disturbance, construction, and/or operation shall be described. Areas where these measures are to be implemented shall be identified. The description shall address how these measures would be implemented prior to the start of ground disturbance and how long they would be needed to protect the resources from project-related impacts.</li> <li>▪ The commitment to record resources on Department of Parks and Recreation (DPR) 523 forms, to map, and to photograph all newly identified cultural resources over 50 years of age shall be stated. Participating tribes may offer their perspective regarding the newly identified cultural resource. Comments by tribes may be documented on the DPR 523c, parts A13 (Interpretation) and A14 (Remarks).</li> <li>▪ The commitment to curate all artifacts retained as a result of any archaeological investigations in accordance with the appropriate requirements and the California State Historical Resources Commission’s Guidelines for the Curation of Archaeological Collections, into a retrievable storage collection in a public repository, museum, or reburial at the request of tribal representatives shall be stated. The different curation policies for archaeological material collected on BLM land as opposed to private or state land, shall be clearly articulated.</li> <li>▪ The commitment of SCE to pay all curation or reburial fees for artifacts recovered and for related documentation produced during cultural resources investigations conducted for the project shall be stated. Should consulting tribes request that artifacts not be reburied, the CRMP shall identify a curation facility that could accept cultural resources materials resulting from project cultural resources investigations on private or state land. Tribal monitors shall be present for any reburials.</li> <li>▪ A final report shall be prepared presenting the results of the monitoring efforts. The contents, format, and review and approval process of the final report shall meet appropriate federal, state, and local guidelines.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	<p>SCE shall prepare and submit for approval a Cultural Resource Management Plan (CRMP) to the BLM and the CPUC for review and approval at least 60 days prior to the start of construction. In addition, the CRMP will be submitted to Native American interested parties for review</p> <p>The CRMP shall detail reporting of results within one year of completion of field studies</p>
Effectiveness Criteria	Compliance with the CRMP
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-4: Inadvertent discovery of cultural or tribal cultural resources.</b> If previously undiscovered resources are identified during project activities all activities within 100 feet (30 meters) of the resource shall halt. The onsite construction supervisor and SCE shall be notified. SCE will notify the CPUC and BLM of the discovery. The monitoring team shall flag-off the area. SCE and its cultural resource specialist will coordinate with the CPUC, BLM, NPS and tribal representatives as appropriate, on avoidance measures.</p> <p>If the resource cannot be avoided, methods of resource evaluation, and methods of mitigation will be discussed with all appropriate parties. Work may be temporarily diverted to activities that are outside of 100 feet (30 meters) of the discovered or suspected resource. The resource shall be evaluated to determine whether it is eligible for the NRHP,</p>

**Table 6-1. Mitigation Monitoring Program**

	<p>CRHR, a unique archaeological resource, a tribal cultural resource, or part of a larger culturally sensitive landscape area or traditional cultural property. If the resource is determined not to be significant, work may recommence in the area. If the resource is determined significant work shall remain halted within 100 feet (30 meters) of the area of the find, SCE shall consult with the BLM, CPUC, and representatives of the consulting tribes as appropriate regarding methods to ensure that no adverse effect and no substantial adverse change would occur to the significance of the resource. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to cultural resources. Other methods of mitigation, described below, shall only be used if it is determined the method would provide equivalent or superior mitigation of the impacts to the resource. The alternative methods of mitigation may include data recovery and documentation of the information contained in the resource to answer questions about local prehistory or history. The methods and results of the evaluation or data recovery work at an archaeological find shall be documented in a professional-level technical report to be filed with the California Historical Resources Information System (CHRIS). Work in the area may commence upon completion of treatment, as approved by the BLM and CPUC.</p> <p>If data recovery of resources is necessary, additional archaeologists shall perform the excavation while the monitoring team(s) continues to monitor construction. Additionally, the tribes shall be offered the opportunity to monitor data recovery efforts at prehistoric sites in addition to construction efforts, under the same contract terms. This opportunity shall be additionally be extended to tribes that consulted on this project, but for which a tribal monitor was not provided for construction efforts.</p>
Timing	Pre-construction, Construction, and Post Construction Phases
Plan/Reporting Requirements	SCE shall report the discovery of any cultural resources
Effectiveness Criteria	Compliance with the CRMP and mitigation measure
Verification Responsibility	Agencies or Agency Monitor will verify compliance.
<b>MITIGATION MEASURE</b>	<b>MM CR-5: Avoidance of cultural and tribal cultural resources.</b> When project work is planned within 100 feet of a known prehistoric-era cultural resource or a tribal cultural resource, or any resources that are eligible for the CRHR and/or NRHP, avoidance areas shall be established and monitors shall be present as outlined in the CRMP. ESAs shall be established with a 50 foot buffer around each resource prior to project activities, except where the 50-foot buffer would encroach on a work area, in which event the ESA buffer shall be the near edge of the identified work area. Monitoring teams shall include one qualified cultural resources monitor and one Native American monitor at prehistoric sites. ESAs shall be established by a qualified cultural resources monitor. The timing and intensity of the monitoring may vary according to the type of resource and the nature of the work planned and shall be determined in consultation with consulting tribes, as appropriate.
Timing	Pre-construction, Construction, and Post Construction Phases
Plan/Reporting Requirements	SCE shall implement required avoidance requirements, including buffers
Effectiveness Criteria	Compliance with the CRMP and mitigation measure
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>MM CR-6: Prepare monitoring reports.</b> Upon completion of cultural resources and tribal cultural resources monitoring, SCE shall prepare a single report that summarize the monitoring efforts and the results, analyses, and conclusions of the monitoring program. Individual volumes per land ownership will be included and provide additional details. Copies of the report shall be submitted to both the CPUC and BLM within 60 days of the close of construction. Thereafter, consistent with individual agency policy, each agency will disseminate to the consulting tribes the report applicable to land under that agency's jurisdiction. Draft reports under CPUC jurisdiction will be submitted to consulting tribes for a 30-day review and comment period concurrent with agency review. If no new

**Table 6-1. Mitigation Monitoring Program**

	resources were discovered during construction, a letter report shall be submitted to the CPUC and BLM summarizing monitoring efforts. If resources were identified during construction, the reports shall be consistent with the California Archaeological Resources Management Reports (ARMR) and commensurate with the nature and significance of the identified resource(s). If artifacts are collected, they shall be curated at a recognized curation facility unless consulting tribes request that the Native American artifacts be reburied on site. Documentation associated with any newly identified resources shall be filled with the CHRIS, if appropriate.
Timing	Post Construction
Plan/Reporting Requirements	SCE shall prepare and submit required report
Effectiveness Criteria	Delivery of draft/final report
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-7: Inadvertent discovery of human remains on state owned land or private property.</b> In the event that human remains or suspected human remains are identified, SCE shall comply with California law (Heath and Safety Code Section 7050.5; PRC Sections 5097.94, 5097.98, and 5097.99). The area shall be flagged off and all project activities within 200 feet (60 meters) of the find shall immediately cease. The CPUC-approved Cultural Resources Specialist and SCE shall be immediately notified. SCE shall immediately contact the Medical Examiner at the County Coroner's office, BLM, CPUC as well as representatives of consulting tribes. The Medical Examiner has two (2) working days to examine the remains. If the Medical Examiner believes the remains are Native American, they shall notify the California Native American Heritage Commission (NAHC) within 24 hours. If the remains are not believed to be Native American, the appropriate local law enforcement agency will be notified.</p> <p>The NAHC will immediately notify the person or tribe it believes to be the most likely descendant (MLD) of the remains, and the MLD has 48 hours to make recommendations to the landowner or representative for the respectful treatment or disposition of the human remains and any associated grave goods. If the MLD does not make recommendations within 48 hours, the remains shall be reinterred in the location they were discovered and the area of the property shall be secured from further disturbance. If there are disputes between the landowner and the MLD, the NAHC shall mediate the dispute and attempt to find a solution. If the mediation fails to provide measures acceptable to the landowner, the landowner or their representative shall reinter the remains and associated grave goods and funerary objects in an area of the property secure from further disturbance. The location of any reburial of Native American human remains shall not be disclosed to the public and shall not be governed by public disclosure requirements of the California Public Records Act, Cal. Govt. Code § 6250 et seq., unless otherwise required by law. The Medical Examiner shall withhold public disclosure of information related to such reburial pursuant to the specific exemption set forth in California Government Code Section 6254(r).</p>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Laws, statutes, and regulations are followed for the treatment of human remains
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-8: Inadvertent discovery of human remains on federal land.</b> If potential human remains are discovered during any Project activity on lands administered by federal agencies, all activities within 200 feet that will cease immediately. SCE will take appropriate steps to secure and protect human remains and any funerary objects from further disturbance. SCE will notify the BLM and the County Coroner (California Health and Safety Code 7050.5(b)) immediately. If the remains are determined to be Native American or if Native American cultural items pursuant to the Native American Graves Protection</p>

**Table 6-1. Mitigation Monitoring Program**

	and Repatriation Act (NAGPRA) are uncovered, the remains shall be treated in accordance with the provisions of NAGPRA (43 CFR 10) and the Archaeological Resources Protection Act (43 CFR 7). SCE shall assist and support the federal agency, as appropriate, in all required NAGPRA and Section 106 actions, government to-government and consultations with Native Americans, agencies, and consulting parties as requested by the federal agency. SCE shall comply with and implement all required actions and studies that result from such consultations.
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Laws, statutes, and regulations are followed for the treatment of human remains
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>Geology and Soils</b>	
<b>MITIGATION MEASURE</b>	<p><b>MM PAL-1: Retain qualified paleontological staff.</b> Project Paleontologist – Prior to the start of ground disturbance, a qualified paleontologist to serve as Project Paleontologist shall be retained by SCE. The qualifications of the Project Paleontologist shall be submitted to CPUC and BLM for approval. This individual shall retain a BLM paleontological resource use permit for the project and other appropriate permits. To do so this individual shall have the following qualifications as stipulated in BLM Manual 8270-1:</p> <ul style="list-style-type: none"> <li>▪ Professional instruction in a field of paleontology relevant to the work proposed (vertebrate, invertebrate, trace, paleobotany, etc.), obtained through: <ul style="list-style-type: none"> <li>– Formal education resulting in a graduate degree from an accredited institution in paleontology, or in geology, biology, botany, zoology or anthropology if the major emphasis is in paleontology; or</li> <li>– Equivalent paleontological training and experience including at least 24 months under the guidance of a professional paleontologist who meets qualification above that provided increased responsibility leading to professional duties similar to those in qualification above; and</li> </ul> </li> <li>▪ Demonstrated experience in collecting, analyzing, and reporting paleontological data, similar to the type and scope of work proposed in the application;</li> <li>▪ Demonstrated experience in planning, equipping, staffing, organizing, and supervising crews performing the work proposed in the application;</li> <li>▪ Demonstrated experience in carrying paleontological projects to completion as evidenced by timely completion and/or publication of theses, research reports, scientific papers and similar documents.</li> </ul> <p>As described in BLM Instruction Manual (IM) 2009-011, the Project Paleontologist will serve as the Principal Investigator (PI) under the BLM permit and is responsible for all actions under the permit, for meeting all permit terms and conditions, and for the performance of all other personnel. This person is also the contact person for the project proponent, CPUC, and the BLM.</p> <p>Additional Paleontological Staff – The Project Paleontologist may obtain the services of Paleontological Field Agents, Field Monitors, and Field Assistants, if needed, to assist in mitigation, monitoring, and curation activities. These individuals must meet the qualifications described in BLM IM 2009-011.</p>
Timing	Pre-construction
Plan/Reporting Requirements	None
Effectiveness Criteria	Qualified paleontological staff are retained
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Table 6-1. Mitigation Monitoring Program**

<b>MITIGATION MEASURE</b>	<p><b>MM PAL-2: Provide paleontological environmental awareness training.</b> SCE will provide worker’s environmental awareness training on paleontological resources protection as part of its WEAP required under Mitigation Measure BR-2, Prepare and implement a Worker Environmental Awareness Program. This training may be administered by the project paleontologist as a stand-alone training or included as part of the overall worker’s environmental awareness training. At a minimum, the training would include the following:</p> <ul style="list-style-type: none"> <li>▪ the types of fossils that could occur at the project site;</li> <li>▪ the types of lithologies in which the fossils could be preserved;</li> <li>▪ the procedures that should be followed in the event of a fossil discovery; and</li> <li>▪ penalties for disturbing paleontological resources.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	See MM BR-2
Effectiveness Criteria	All on-site project personnel receive this training prior to beginning work
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM PAL-3: Prepare and implement a Paleontological Resource Mitigation and Monitoring Plan (PRMMP).</b> [Supersedes APM CUL-04] Prior to the start of the project, SCE shall submit a Paleontological Mitigation and Monitoring Plan (PRMMP) for the project to the CPUC and BLM for review and approval. The PRMMP shall be prepared and implemented under the direction of the Project Paleontologist and shall address and incorporate mitigation measures PAL-1, PAL-3 and PAL-4. The PRMMP shall be based on Society of Vertebrate Paleontology (SVP) assessment and mitigation guidelines and meet all regulatory requirements. A monitoring plan indicates the avoidance or treatments recommended for the area of the proposed disturbance and must at a minimum address the following:</p> <ul style="list-style-type: none"> <li>▪ Identification and mapping of impact areas of high sensitivity that will be monitored during construction;</li> <li>▪ A coordination strategy to ensure that a qualified paleontologist will conduct monitoring at the appropriate locations at the appropriate intensity;</li> <li>▪ The significance criteria to be used to determine which resources will be avoided or recovered for their data potential;</li> <li>▪ Procedures for the discovery, recovery, preparation, and analysis of paleontological resources encountered during construction, in accordance with standards for recovery established by the SVP;</li> <li>▪ Provisions for verification that the project proponent has an agreement with a recognized museum repository, for the disposition of recovered fossils and that the fossils shall be prepared prior to submittal to the repository as required by the repository (e.g., prepared, analyzed at a laboratory, curated, or cataloged);</li> <li>▪ Specifications that all paleontological work undertaken by the project proponent shall be carried out by qualified paleontologists with appropriate current permits, including but not limited to a Paleontological Resources Use Permit (for work on public lands administered by BLM) and any other permits required by other jurisdictions;</li> <li>▪ Description of monitoring reports that will be prepared which shall include daily logs, monthly reports, and a final monitoring report with an itemized list of specimens found to be submitted to the BLM, the CPUC, the project proponent and the designated repository within 90 days of the completion of monitoring;</li> <li>▪ The implementation sequence and the estimated time frames needed to accomplish all project-related tasks during the ground-disturbance and post-ground-disturbance analysis phases of the project shall be specified; and</li> </ul>

**Table 6-1. Mitigation Monitoring Program**

	<ul style="list-style-type: none"> <li>▪ Person(s) expected to perform each of the tasks, their responsibilities, and the reporting relationships between project construction management and the mitigation and monitoring team shall be identified.</li> <li>▪ All impact-avoidance measures (such as flagging or fencing) to prohibit or otherwise restrict access to sensitive resource areas that are to be avoided during ground disturbance, construction, and/or operation shall be described. Any areas where these measures are to be implemented shall be identified. The description shall address how these measures would be implemented prior to the start of ground disturbance and how long they would be needed to protect the resources from project-related impacts.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	Prior to the start of the project, SCE shall submit a Paleontological Mitigation and Monitoring Plan (PRMMP) for the project to the CPUC and BLM for review and approval
Effectiveness Criteria	Compliance with PRMMP
Verification Responsibility	Agencies or Agency Monitor will verify compliance

<b>MITIGATION MEASURE</b>	<p><b>MM PAL-4: Conduct monitoring for paleontological resources.</b> The applicant shall continuously comply with the following during all ground disturbing activities during the project:</p> <ul style="list-style-type: none"> <li>▪ All ground disturbing activity in Proposed Project work areas identified with unknown, high, or very high paleontological sensitivity (PFYC U, PFYC 4, or PFYC 5) should be monitored on a full-time basis by a BLM- approved Paleontological Field Agent who will work under the supervision of the BLM- permitted paleontologist and principal investigator.</li> <li>▪ Ground disturbing activity that exceeds 5 feet in depth in work areas underlain by Holocene units shall be monitored part time. Spot-checking shall take place at least once a day and be conducted by a Qualified Paleontologist.</li> <li>▪ The level of effort and intensity for monitoring shall be modified as needed by a Qualified Paleontologist, in consultation with the appropriate agency personnel, based on the sediment types, depths, and distributions observed during monitoring throughout the life of the project.</li> <li>▪ Project activities shall be diverted when data recovery of significant fossils is warranted, as determined by the Project Paleontologist. Monitoring shall be conducted as follows: <ul style="list-style-type: none"> <li>– Monitoring of ground disturbance shall consist of the surface collection of visible vertebrate and significant invertebrate fossils within the project site. Upon discovery of paleontological resources by paleontologists or construction personnel, work in the immediate area of the find shall be halted and diverted and the Project Paleontologist shall be notified. Once the find has been inspected and a preliminary assessment has been made, the Project Paleontologist will notify SCE. SCE will notify the CPUC, BLM, and MNP of the discovery within 24 hours. If recovery of a large or unusually productive fossil occurrence is warranted, earth-moving activities shall be diverted temporarily around the fossil locality, and a recovery crew shall be mobilized to remove the material as quickly as possible. The monitor shall be permitted to photograph and/or draw stratigraphic profiles of cut surfaces and take samples for analysis of microfossils, dating, or other specified purposes in accordance with the PMMP.</li> <li>– Recovered specimens shall be prepared to a point of identification, including washing of sediments to recover smaller fossil remains. Once excavation has reached specified depths, salvage of fossil material from the sidewalls of the cut shall resume. Specimens shall be identified and curated into a repository with retrievable storage.</li> </ul> </li> <li>▪ All significant fossil specimens recovered from the project site as a result of the paleontological monitoring and mitigation program shall be treated (prepared, identified, curated, and catalogued) in accordance with the designated repository requirements.</li> </ul>
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	Samples shall be submitted to a laboratory, acceptable to the designated repository, for identification, dating, and microfossil and pollen analysis.
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Compliance with PRMMP
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Hazards and Hazardous Materials**

<b>MITIGATION MEASURE</b>	<p><b>MM HH-1: Prepare and implement a Hazardous Materials and Waste Management Plan.</b> SCE shall prepare and implement a Project-specific Hazardous Materials and Waste Management Plan pursuant to Title 24, Part 9 of the California Code of Regulations (CCR) that identifies hazardous materials to be transported, used, and stored on site for the proposed construction activities — as well as hazardous wastes generated onsite as a result of the proposed construction activities — and appropriate management procedures according to the specifications outlined below.</p> <ul style="list-style-type: none"> <li>▪ <b>Hazardous Materials and Hazardous Waste Handling:</b> The Plan will include the following components: (1) the program shall identify types of hazardous materials to be used during the project and the types of wastes that would be generated; (2) proper hazardous materials use, storage and disposal requirements as well as hazardous waste management procedures; and (3) all project personnel shall be provided with project-specific training to ensure that all hazardous materials and wastes associated with the project are handled in a safe and environmentally sound manner and disposed of according to applicable rules and regulations. Specifically, employees handling wastes shall have or receive hazardous materials training and shall be trained in hazardous waste procedures, spill contingencies, waste minimization procedures and treatment, storage and disposal facility (TSDF) training in accordance with current OSHA Hazard Communication Standard and Title 22 CCR. The Plan shall identify the landfill facilities that are authorized to accept the types of waste generated and hauled, and these landfills shall be used for hazardous waste disposal during construction.</li> <li>▪ <b>Transport of Hazardous Materials:</b> Hazardous materials that would be transported by truck include fuel (diesel fuel and gasoline) and oil and lubricants for equipment. Containers used to store hazardous materials would be properly labeled and kept in good condition. The Plan shall include written procedures for the transport of hazardous materials used in accordance with U.S. Department of Transportation and Caltrans regulations. A qualified transporter would be selected to comply with U.S. Department of Transportation and Caltrans regulations. The Plan shall identify proposed trucking routes.</li> <li>▪ <b>Fueling and Maintenance of Construction Equipment:</b> Written procedures for fueling and maintenance of construction equipment shall be included in the Plan. Refueling and maintenance procedures may require vehicles and equipment to be refueled on site or by tanker trucks. Procedures will require the use of drop cloths made of plastic, drip pans and trays to be placed under refilling areas to ensure that chemicals do not come into contact with the ground. Refueling would be located in areas where absorbent pad and trays would be available. The fuel tanks would also contain a lined area to ensure that accidental spillage does not occur. Drip pans or other collection devices would be placed under the equipment at night to capture drips or spills. Equipment would be inspected daily for potential leakage or failures. Hazardous materials such as paints, solvents, and penetrants would be kept in an approved locker or storage cabinet.</li> <li>▪ <b>Fueling and Maintenance of Helicopters:</b> Written procedures for fueling and maintenance of helicopters shall be included in the Plan. Procedures may require helicopters be refueled at construction work areas, helicopter staging areas, or local airports. Procedures would include the use of drop cloths made of plastic, drip pans and trays to be placed under refilling areas to ensure that chemicals do not come into contact with the</li> </ul>
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**Table 6-1. Mitigation Monitoring Program**

	<p>ground. Refueling areas shall be identified in the Plan and necessary spill response materials shall be available within each refueling area.</p> <ul style="list-style-type: none"> <li>▪ <b>Emergency Release Response Procedures:</b> The Plan shall include emergency response procedures in the event of a release of hazardous materials. The Plan must prescribe hazardous materials handling procedures for reducing the potential for a spill during construction and would include an emergency response program to ensure quick and safe cleanup of accidental spills. Hazardous materials shall not be stored near drains or waterways. Fueling shall not take place within 50 feet of drains or waterways with flowing water or within 75 feet of drains or waterways that are dry. All construction personnel, including environmental monitors, would be made aware of state and federal emergency response reporting guidelines for accidental spills.</li> </ul> <p>The Plan shall be submitted to CPUC and BLM 30 days prior to the start of construction for review and approval by the CPUC.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall prepare a Project-specific Hazardous Materials and Waste Management Plan to be submitted to CPUC and BLM 30 days prior to the start of construction for review and approval by the CPUC
Effectiveness Criteria	Compliance with the Hazardous Materials and Waste Management Plan
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>MM HH-2: Manage discovery of unanticipated contamination.</b> In the event that contaminated media are encountered during construction requiring excavation, SCE shall stop work, contact SCE’s Safety and Environmental Specialist (SES), request a site assessment, and notify the proper authorities. The potentially contaminated soil should first be segregated into lined stockpiles, dump trucks, or roll-off containers. Samples are to be collected and analyzed to determine the appropriate handling, treatment, and disposal options. If the analytical results indicate that the soils are hazardous, the affected soils would be properly managed on location and transported to a Class I Landfill or other appropriate soil treatment or recycling facility using a Uniform Hazardous Waste Manifest. Work at the affected site would continue at that location only when given clearance by the SES.
Timing	During Construction and Post Construction Phases
Plan/Reporting Requirements	Manage contaminated media in accordance with mitigation measure requirements
Effectiveness Criteria	Compliance with applicable laws and regulations
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>Hydrology and Water Quality</b>	
<b>MITIGATION MEASURE</b>	<b>MM HWQ-1: Implement an Erosion Control Plan.</b> SCE shall develop and submit an Erosion Control Plan to the CPUC and BLM for review at least 60 days prior to construction. The Erosion Control Plan may be part of the Stormwater Pollution Prevention Plan (SWPPP) and kept onsite and readily available on request.
	Soil disturbance at structures and access roads is to be minimized and designed to prevent long-term erosion. The Erosion Control Plan shall include:
	<ul style="list-style-type: none"> <li>▪ The location of all soil-disturbing activities, including but not limited to new and/or improved access and spur roads.</li> <li>▪ The location of all streams and drainage structures that would be directly affected by soil-disturbing activities (such as stream crossings or public storm drains by the right-of-way and access roads).</li> <li>▪ BMPs to protect drainage structures, such as public storm drains, downstream of soil disturbance activities.</li> </ul>

**Table 6-1. Mitigation Monitoring Program**

- Design features to be implemented to minimize erosion during construction and during operation (if the project feature is to remain permanent after construction).
- If soil cement is proposed, the specific locations must be defined in the Plan, and evidence of approval by the appropriate jurisdiction shall be submitted to the CPUC and BLM prior to its use.
- The location and type of BMPs that would be installed to prevent off-site sedimentation and to protect aquatic resources.
- Specifications for the implementation and maintenance of erosion control measures and a description of the erosion control practices, including appropriate design and installation details.
- Proposed schedule for inspection of erosion control/SWPPP measures and schedule for corrective actions/repairs, if required. Erosion control/SWPPP inspection reports shall be provided to the CPUC EM.

Locations requiring erosion control/SWPPP corrective actions/repairs shall be tracked, including dates of completion, and documented during inspections. Inspections and monitoring shall be performed in compliance with the Federal and California Construction General Permits. The inspection reports shall be maintained and kept with their respective SWPPP, kept on site as required by the Federal and State Construction General Permits, and made available upon request to the RWQCB, CPUC, BLM, and representatives of the traversed counties and cities. Additionally, an Annual Report shall be filed for each reporting period in compliance with Federal and California Construction General Permit reporting requirements.

SCE shall submit Grading Plans to the CPUC and BLM for approval that define the locations of the specific features listed above.

SCE shall submit to the CPUC and BLM evidence of possession of applicable required permits for the representative land disturbance prior to engaging in soil-disturbing construction/demolition activities. Such permits may include, but are not limited to, a CWA Section 402 NPDES California General Permit for Storm Water Discharges Associated with Construction Activities (General Permit) from the applicable Regional Water Quality Control Board(s) (RWQCBs), and the Federal General Permit for Storm Water Discharges Associated with Construction Activities on Tribal Land.

Prior to any ground disturbance in stream channels or other waters jurisdictional to the State of California or the Federal Government, SCE shall obtain a Streambed Alteration Agreement from the California Department of Fish and Wildlife, a Section 404 permit from the USACE, and a CWA Section 401 certification from the SWRCB and submit to the CPUC and BLM evidence of possession of such Agreement/permits.

Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall develop and submit an Erosion Control Plan to the CPUC and BLM for review at least 60 days prior to construction
Effectiveness Criteria	Compliance with the Erosion Control Plan
Verification Responsibility	Agencies or Agency Monitor will verify compliance

<b>MITIGATION MEASURE</b>	<p><b>MM HWQ-2: Prepare and implement an HDD Fluid Management Plan.</b> If Horizontal Directional Drilling (HDD) is required, an HDD Fluid Management Plan shall be prepared and implemented. The plan shall include, at a minimum, the following measures:</p> <ul style="list-style-type: none"> <li>▪ Worst-case scenario development and response effort descriptions.</li> <li>▪ Drilling pressure monitoring to ensure pressures do not exceed those needed to penetrate the formation.</li> <li>▪ Monitoring by a minimum of two monitors (located both upstream and downstream) throughout drilling operations to ensure early detection and swift response in the event of a surface expression of drilling fluid.</li> </ul>
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**Table 6-1. Mitigation Monitoring Program**

	<ul style="list-style-type: none"> <li>▪ Site-specific contingency measures shall be developed for the drill site, taking into consideration terrain, access, resource sensitivities, and proximity of suitable areas for staging response equipment for the unanticipated surface expression of drilling fluid.</li> <li>▪ Agency notification procedures.</li> <li>▪ Training for responding personnel.</li> <li>▪ Prevention, containment, clean up, and disposal of released drilling mud. Preventative measures shall include incorporation of the recommendations of a pre-construction geo-technical investigation to determine the most appropriate drilling depth and drilling mud mixture for the HDD bore site. Containment shall be accomplished through construction of temporary berms/dikes and use of silt fences, straw bales, absorbent pads, straw wattles, and plastic sheeting. Clean up shall be accomplished with plastic pails, shovels, portable pumps, and vacuum trucks.</li> <li>▪ A copy of the Streambed Alteration Agreement (SAA) shall be provided in the Plan. If the SAA also requires development of a similar plan to address HDD fluid management, that plan, as approved by CDFW, may be used to satisfy this measure provided it adequately addresses the requirements identified herein, as determined by the CPUC and BLM.</li> </ul>
Timing	Construction
Plan/Reporting Requirements	If Horizontal Directional Drilling (HDD) is required, an HDD Fluid Management Plan shall be prepared
Effectiveness Criteria	Compliance with the HDD Fluid Management Plan
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>Noise</b>	
<b>MITIGATION MEASURE</b>	<p><b>MM N-1: Limit construction noise levels.</b> SCE shall ensure that all construction activities occur within the following hours, during which construction noise would be exempt from local ordinances: in San Bernardino County and City of Hesperia, between 7:00 a.m. to 7:00 p.m. Monday through Saturday, except Federal holidays, unless an alternate schedule is coordinated with the applicable local jurisdiction. Additionally, SCE shall implement the following construction noise reduction methods as precautionary measures, as identified in the Noise Technical Report (Appendix K to SCE’s PEA (Eilar, 2017)):</p> <ul style="list-style-type: none"> <li>▪ Turn off equipment when not in use.</li> <li>▪ Limit the use of enunciators or public address systems, except for emergency notifications.</li> <li>▪ Equipment used in construction should be maintained in proper operating condition, and all loads should be properly secured, to prevent rattling and banging.</li> <li>▪ Schedule work to avoid simultaneous construction activities that both generate high noise levels.</li> <li>▪ Use equipment with effective mufflers.</li> <li>▪ Minimize the use of backup alarms.</li> </ul>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Construction noise is limited
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM N-2: Provide advance notification of construction noise.</b> Sixty days prior to construction, SCE shall prepare and submit a public notice mailer format to the CPUC for approval. The details of notification may be modified in consultation with CPUC as warranted by the circumstances.</p>

**Table 6-1. Mitigation Monitoring Program**

	No less than 15 days prior to construction that would occur within 500 feet of residences, businesses, or other occupied structures, SCE shall distribute a public notice mailer. The notice shall state the type of construction activities that will be conducted, and the location and duration of construction. The notice shall identify, and SCE shall provide a public liaison person before and during construction to respond to concerns of residents about construction noise. SCE shall also establish a toll-free telephone number for receiving questions or complaints during construction and develop procedures for responding to callers. SCE shall address all complaints within one week of when the complaint is filed, and shall provide to the CPUC, within 15 days of the end of each month, a monthly report with records of all complaints and responses. SCE shall mail the notice to all residents or property owners within 500 feet of the right-of-way or within 1,000 feet of helicopter fly yards and flight paths.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall provide to the CPUC, within 15 days of the end of each month, a monthly report with records of all complaints and responses
Effectiveness Criteria	Advance notification of construction activities is provided
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Transportation**

<b>MITIGATION MEASURE</b>	<p><b>MM T-1: Prepare and implement a Construction Traffic Control Plan.</b> Prior to the start of construction of a project component that could affect traffic (e.g., OPGW reconductoring over public roadways), SCE shall submit a Construction Traffic Control Plan for review and approval by state and local agencies responsible for public roads that would be directly affected by the construction activities and/or would require permits and approvals. The Construction Traffic Control Plan shall include, but not be limited to:</p> <ul style="list-style-type: none"> <li>▪ The locations and use of flaggers, warning signs, barricades, delineators, cones, arrow boards, etc. according to standard guidelines outlined in the Manual on Uniform Traffic Control Devices, the Standard Specifications for Public Works Construction, and/or the California Joint Utility Traffic Control Manual.</li> <li>▪ The locations of all road or traffic lane segments that would need to be temporarily closed or disrupted due to construction activities.</li> <li>▪ The locations where guard poles, netting, or similar means to protect transportation facilities for any construction work requiring the crossing of a local street, highway, or rail line are proposed.</li> <li>▪ The use of continuous traffic breaks operated by the Highway Patrol on state highways (if necessary).</li> <li>▪ Plans to coordinate in advance with emergency service providers to avoid restricting the movements of emergency vehicles. Police departments and fire departments shall be notified in advance by SCE of the proposed locations, nature, timing, and duration of any roadway disruptions, and shall be advised of any access restrictions that could impact their effectiveness. At locations where roads will be blocked, provisions shall be ready at all times to accommodate emergency vehicles, such as immediately stopping work for emergency vehicle passage, or providing short detours, or developing alternate routes in conjunction with the public agencies.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	Prior to the start of construction, SCE shall submit a Construction Traffic Control Plan for review and approval by state and local agencies responsible for public roads that would be directly affected by the construction activities and/or would require permits and approvals
Effectiveness Criteria	Compliance with Traffic Control Plans
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Table 6-1. Mitigation Monitoring Program**

<b>MITIGATION MEASURE</b>	<p><b>MM T-2: Repair roadways and transportation facilities damaged by construction activities.</b> If roadways, sidewalks, medians, curbs, shoulders, or other such transportation features are damaged by project construction activities, as determined by Caltrans or other public agency responsible for the transportation feature, such damage shall be repaired and restored to the pre-project condition by SCE. Prior to construction, SCE shall establish the pre-construction conditions of the roads within 500 feet in each direction of project access points (where heavy vehicles will leave public roads to reach unpaved access roads, yards, or other project sites) and confer with state and local agencies regarding roads in the agency’s jurisdiction to be crossed by the project components. Establishment of existing conditions may include dated photographic or video documentation.</p> <p>At the end of major construction, SCE shall coordinate with each affected jurisdiction to confirm what repairs are required. Any damage demonstrable to the project is to be repaired to the pre-construction condition within 60 days from the end of all construction, or on a schedule mutually agreed to by SCE and the affected jurisdiction. If multiple projects or users access the same transportation features, SCE will pay its fair share of the required repairs. SCE shall provide CPUC and affected jurisdictions (as applicable) proof when any necessary repairs have been completed.</p>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Roadways and transportation facilities damaged by construction are repaired
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM T-3: Prepare and implement a final helicopter use plan.</b> SCE and its contractor shall prepare and obtain approval of a Final Helicopter Use Plan 30 days prior to using helicopters to transport personnel, materials, or equipment for the deconstruction of existing project facilities or construction of new or replacement project facilities. The plan shall identify the specific locations requiring deconstruction or construction work using helicopters. The Final Helicopter Use Plan shall draw upon protocols and methods used on previous transmission line projects and shall be submitted to CPUC and BLM for approval. The Federal Aviation Agency (FAA) has jurisdiction over U.S. airspace, aircraft, aircraft operations, airports, and pilots. To the extent that they do not conflict with any FAA requirements, the following shall apply to helicopter use and be incorporated in the Final Helicopter Use Plan.</p> <ul style="list-style-type: none"> <li>▪ All aircraft and pilots shall be in full compliance with applicable FAA requirements and standards.</li> <li>▪ On the day before a flight, helicopter flight information shall be provided by email to CPUC/BLM monitors regarding the specific sites to be used for helicopter retrieval of materials, equipment, or personnel and the destination of the materials, equipment, or personnel being transported. Information provided in the email shall include pilot name, contact number, aircraft type, aircraft registration number, aircraft color, work/flight area, anticipated beginning and completion times, and scope of work.</li> <li>▪ The specific locations requiring deconstruction or construction work using helicopters shall be identified.</li> <li>▪ Temporary staging of materials outside of approved yards or on access or spur roads shall not occur without prior approval of CPUC or BLM, as appropriate.</li> <li>▪ The yards to and from which helicopters would fly (fly yards) shall be identified and shall be of sufficient size to ensure safe operations, given the other activities occurring at the yards and the vicinity.</li> <li>▪ Fly yards shall be no closer than a horizontal distance of 475 feet from occupied residences to avoid unacceptable nuisances.</li> <li>▪ Site-specific steps taken to avoid nuisances and ensure safe refueling shall be identified for each fly yard.</li> </ul>

**Table 6-1. Mitigation Monitoring Program**

- Flight paths that minimize flights in wilderness areas and near schools, hospitals, nursing homes, and other sensitive group receptors shall be identified and followed.
  - Except in an emergency, helicopters shall land or hover near the ground only in areas previously approved for landing, and all dust control and biological and cultural resource protection requirements shall apply.
  - External loads will be secured by appropriate rigging, including boxing, netting, choking, and cabling, or other suitable means. Only qualified riggers shall prepare and attach external loads to helicopters, and rigging shall be appropriate to the nature of the load, including the use of devices as necessary to prevent materials being lost in flight. Where appropriate to reduce load in-flight spinning and movement, drag chutes will be attached to loads. The need for drag chutes will be determined by the pilot and rigging personnel, where appropriate. At locations where rigging is to occur, a sufficient supply of appropriate rigging and containment materials in good repair shall be on hand at all times.
  - All aircraft are to be configured with weight sensors such that, when preparing to haul external loads, the pilot is able to determine the weight of the load being lifted.
  - Yards or landing zones shall have a designated qualified individual managing the movement of aircraft in and out of the yard or landing zone when flight activity is high.
  - Appropriate protocols for communication among pilots and between pilots and the ground shall be developed and implemented.
  - A GPS-based data system shall be installed in each aircraft.
    - The system shall identify for the pilot all project-approved project flight paths and those areas where overflights are restricted (such as seasonally restricted bird nesting areas and sensitive residential or institutional areas) and shall be updated as often as any flight restrictions are implemented or lifted.
    - The system shall automatically record and preserve flight data sufficient to identify the aircraft’s flight path, including altitude above ground. The system shall be capable of providing the information required with regard to flight path and aircraft identifier and provide a location “ping” no less frequently the once every 3 seconds. These data shall be collected daily and maintained by SCE or its contractor for a period of no less than six months and made available to CPUC or BLM upon request.
- The Helicopter Use Plan shall be submitted to CPUC and BLM for review and approval at least 30 days prior to the use of helicopters on the project. Once the Helicopter Use Plan is made final, a copy shall be provided as a courtesy to each jurisdiction through which the Project passes.

Timing	Pre-Construction, with updates as needed during Construction Phase
Plan/Reporting Requirements	SCE and its contractor shall prepare a Final Helicopter Use Plan 30 days prior to using helicopters to transport personnel, materials, or equipment for the deconstruction of existing project facilities or construction of new or replacement project facilities. The Plan shall be submitted to CPUC and BLM for approval
Effectiveness Criteria	Compliance with Helicopter Use Plan
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Tribal Cultural Resources**

<b>MITIGATION MEASURE</b>	<b>APM-TCR-1: Tribal Monitoring.</b> An archaeological monitor, and tribal monitor that is culturally affiliated with the project area, may be present for all ground-disturbing activities within or directly adjacent to previously identified TCR(s) and prehistoric resources as outlined in the CRMP. The archaeological and tribal monitors will consult the CRMP to determine when to increase or decrease the monitoring effort should the monitoring results indicate a change is warranted. Monitoring reports shall be prepared and submitted to the BLM and CPUC on a monthly basis.
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**Table 6-1. Mitigation Monitoring Program**

Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	Monitoring reports shall be prepared and submitted to the BLM and CPUC on a monthly basis
Effectiveness Criteria	Archaeological and Tribal Monitoring consistent with CRMP
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>APM-TCR-2: Tribal Engagement Plan.</b> A tribal engagement plan shall be prepared, which will detail how Native American tribes will be engaged and informed throughout the proposed project. The tribal engagement plan will be included in the CRMP.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	A tribal engagement plan shall be prepared, which will detail how Native American tribes will be engaged and informed throughout the proposed project
Effectiveness Criteria	Compliance with the CRMP
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>MM CR-1: Retain a Cultural Resources Specialist.</b> Prior to the start of construction, a project Cultural Resources Specialist (CRS) whose training and background conforms to the U.S. Secretary of Interior’s Professional Qualifications Standards, as published in Title 36, Code of Federal Regulations, part 61 (36 C.F.R., part 61) shall be retained by SCE to supervise monitoring of construction excavations and to prepare a Cultural Resources Management Plan (CRMP) for the approved project. Their qualifications shall be appropriate to the needs of the project, specifically an archaeologist with demonstrated prior experience in the southern California desert and previous experience working with Southern California Tribal Nations. A copy of their qualifications shall be provided to the CPUC for review and approval. The project Cultural Resources Specialist shall use the services of Cultural Resources Monitors, tribal monitors and Field Crew as needed, to assist in mitigation, monitoring, and curation activities, as outlined in the CRMP. A copy of all proposed cultural staff qualifications shall be provided to the CPUC for review and approval prior to beginning work.
Timing	Pre-construction
Plan/Reporting Requirements	None
Effectiveness Criteria	Retention of a cultural resources specialist
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<b>MM CR-2: Cultural resources environmental awareness training.</b> Project personnel, including cultural resources monitors and tribal monitors, shall receive training that includes sensitivity training provided through participating tribes in video format regarding the appropriate work practices necessary to effectively implement the APMs and mitigation measures related to cultural resources and tribal cultural resources, including human remains. Training shall be required for all personnel before they begin work on a project site and repeated as needed for all new personnel before they begin work on the Project. This training program shall be submitted to the CPUC for approval at least 30 days before the start of construction and include procedures to be followed upon the discovery or suspected discovery of archaeological materials, tribal cultural resources, and human remains, consistent with the procedures set forth in the CRMP. This training may be integrated with a broader Worker Environmental Awareness Training program. Documentation of the training will be provided to the BLM and CPUC. The CPUC will provide documentation to the consulting tribes.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	See MM BR-2
Effectiveness Criteria	All on-site project personnel receive this training prior to beginning work

**Table 6-1. Mitigation Monitoring Program**

Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-3: Prepare and implement a Cultural Resources Management Plan.</b> Prior to the beginning of construction, SCE shall submit at least 90 days before construction a Cultural Resources Management Plan (CRMP) for the project to the BLM and CPUC for review. The CPUC will submit the CRMP to representatives of consulting tribes for a 30-day review and comment period prior to approving the CRMP. The CPUC will in good faith consider any comments received from consulting tribes and incorporate such comments into the CRMP as deemed feasible. A single plan document that meets the requirements of both BLM and CPUC is acceptable. The CRMP shall be implemented under the direction of the SCE and the project Cultural Resources Specialist. The CRMP shall be prepared at the sole expense of the project proponent and shall meet all regulatory requirements. At a minimum the CRMP must address the following:</p> <ul style="list-style-type: none"> <li>▪ The duties of the project Cultural Resources Specialist and associated staff shall be fully explained, including oversight/management, monitoring, and reporting duties with respect to known cultural resources and tribal cultural resources as well as site evaluation, data collection, and reporting for any newly identified resources discovered during project activities. The professional standards and ethical guidelines for all cultural resource personnel will be clearly outlined in the CRMP.</li> <li>▪ No collection of artifacts is authorized or planned for this project. If an unanticipated discovery requires evaluation via excavation and artifact collection, the retention/disposal, and permanent and temporary curation policies shall be specified. The decision-making process for identifying which artifacts are curated or reburied, where they are reburied and the individuals, including tribal participants, making these decisions shall be described. These policies shall apply to cultural resources materials and documentation resulting from evaluation and treatment of cultural resources and tribal cultural resources discovered during project activities.</li> <li>▪ The CRMP shall define and map all known prehistoric and historic resources eligible to the NRHP and CRHR within 100 feet of proposed work areas. How these resources will be avoided and protected during construction will be described. Avoidance measures to be used will be described, including where and when they will be implemented. How avoidance measures and enforcement of Environment Sensitive Areas (ESAs) will be coordinated with construction personnel will be included.</li> <li>▪ The implementation sequence and the estimated time frames needed to accomplish all project-related tasks (i.e., evaluation of new resources resulting in work stoppage, time to complete reports, etc.) during the project activities and any post-project analysis phases of the project, if necessary, shall be specified. The intensity of monitoring proposed for each resource that may be impacted by project activities shall be outlined in the CRMP.</li> <li>▪ Person(s) expected to perform each monitoring and, if necessary, treatment task, their responsibilities, and the reporting relationships between project construction management and the monitoring and treatment team shall be outlined in the CRMP.</li> <li>▪ Tribal Monitors shall be retained to monitor ground disturbing activities within 100 feet of prehistoric and protohistoric resources. Tribal Monitors shall be retained for data recovery within prehistoric and protohistoric resources identified for data recovery. The ELM Project area spans multiple Tribal areas. The Tribe affiliated with a specific area will be considered first to provide Tribal Monitors. If multiple Tribes or Tribal Organizations are affiliated with a specific area, Tribal Monitors will be selected on a rotating basis. The CRMP will describe the roles and responsibilities of the monitors. Tribal monitors will be compensated. All impact-avoidance measures (such as the presence of monitors) to prohibit or otherwise restrict access to sensitive resource areas that are to be avoided during ground disturbance, construction, and/or operation shall be described. Areas where these measures are to be implemented shall be identified. The description shall address how these measures would be implemented prior to the start of ground disturbance and how long they would be needed to protect the resources from project-related impacts.</li> </ul>

**Table 6-1. Mitigation Monitoring Program**

	<ul style="list-style-type: none"> <li>▪ The commitment to record resources on Department of Parks and Recreation (DPR) 523 forms, to map, and to photograph all newly identified cultural resources over 50 years of age shall be stated. Participating tribes may offer their perspective regarding the newly identified cultural resource. Comments by tribes may be documented on the DPR 523c, parts A13 (Interpretation) and A14 (Remarks).</li> <li>▪ The commitment to curate all artifacts retained as a result of any archaeological investigations in accordance with the appropriate requirements and the California State Historical Resources Commission’s Guidelines for the Curation of Archaeological Collections, into a retrievable storage collection in a public repository, museum, or reburial at the request of tribal representatives shall be stated. The different curation policies for archaeological material collected on BLM land as opposed to private or state land, shall be clearly articulated.</li> <li>▪ The commitment of SCE to pay all curation or reburial fees for artifacts recovered and for related documentation produced during cultural resources investigations conducted for the project shall be stated. Should consulting tribes request that artifacts not be reburied, the CRMP shall identify a curation facility that could accept cultural resources materials resulting from project cultural resources investigations on private or state land. Tribal monitors shall be present for any reburials.</li> <li>▪ A final report shall be prepared presenting the results of the monitoring efforts. The contents, format, and review and approval process of the final report shall meet appropriate federal, state, and local guidelines.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	<p>SCE shall prepare and submit for approval a Cultural Resource Management Plan (CRMP) to the BLM and the CPUC for review and approval at least 60 days prior to the start of construction. In addition, the CRMP will be submitted to Native American interested parties for review</p> <p>The CRMP shall detail reporting of results within one year of completion of field studies</p>
Effectiveness Criteria	Compliance with the CRMP
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-4: Inadvertent discovery of cultural or tribal cultural resources.</b> If previously undiscovered resources are identified during project activities all activities within 100 feet (30 meters) of the resource shall halt. The onsite construction supervisor and SCE shall be notified. SCE will notify the CPUC and BLM of the discovery. The monitoring team shall flag-off the area. SCE and its cultural resource specialist will coordinate with the CPUC, BLM, NPS and tribal representatives as appropriate, on avoidance measures.</p> <p>If the resource cannot be avoided, methods of resource evaluation, and methods of mitigation will be discussed with all appropriate parties. Work may be temporarily diverted to activities that are outside of 100 feet (30 meters) of the discovered or suspected resource. The resource shall be evaluated to determine whether it is eligible for the NRHP, CRHR, a unique archaeological resource, a tribal cultural resource, or part of a larger culturally sensitive landscape area or traditional cultural property. If the resource is determined not to be significant, work may recommence in the area. If the resource is determined significant work shall remain halted within 100 feet (30 meters) of the area of the find, SCE shall consult with the BLM, CPUC, and representatives of the consulting tribes as appropriate regarding methods to ensure that no adverse effect and no substantial adverse change would occur to the significance of the resource. Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts to cultural resources. Other methods of mitigation, described below, shall only be used if it is determined the method would provide equivalent or superior mitigation of the impacts to the resource. The alternative methods of mitigation may include data recovery and documentation of the information contained in the resource to answer questions about local prehistory or history. The methods and results of the evaluation or data recovery</p>

**Table 6-1. Mitigation Monitoring Program**

	<p>work at an archaeological find shall be documented in a professional-level technical report to be filed with the California Historical Resources Information System (CHRIS). Work in the area may commence upon completion of treatment, as approved by the BLM and CPUC.</p> <p>If data recovery of resources is necessary, additional archaeologists shall perform the excavation while the monitoring team(s) continues to monitor construction. Additionally, the tribes shall be offered the opportunity to monitor data recovery efforts at prehistoric sites in addition to construction efforts, under the same contract terms. This opportunity shall be additionally be extended to tribes that consulted on this project, but for which a tribal monitor was not provided for construction efforts.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall report the discovery of any cultural resources
Effectiveness Criteria	Compliance with the CRMP and mitigation measure
Verification Responsibility	Agencies or Agency Monitor will verify compliance.
<b>MITIGATION MEASURE</b>	<b>MM CR-5: Avoidance of cultural and tribal cultural resources.</b> When project work is planned within 100 feet of a known prehistoric-era cultural resource or a tribal cultural resource, or any resources that are eligible for the CRHR and/or NRHP, avoidance areas shall be established and monitors shall be present as outlined in the CRMP. ESAs shall be established with a 50 foot buffer around each resource prior to project activities, except where the 50-foot buffer would encroach on a work area, in which event the ESA buffer shall be the near edge of the identified work area. Monitoring teams shall include one qualified cultural resources monitor and one Native American monitor at prehistoric sites. ESAs shall be established by a qualified cultural resources monitor. The timing and intensity of the monitoring may vary according to the type of resource and the nature of the work planned and shall be determined in consultation with consulting tribes, as appropriate.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall implement required avoidance requirements, including buffers
Effectiveness Criteria	Compliance with the CRMP and mitigation measure
Verification Responsibility	Agencies or Agency Monitor will verify compliance.
<b>MITIGATION MEASURE</b>	<b>MM CR-6: Prepare monitoring reports.</b> Upon completion of cultural resources and tribal cultural resources monitoring, SCE shall prepare a single report that summarize the monitoring efforts and the results, analyses, and conclusions of the monitoring program. Individual volumes per land ownership will be included and provide additional details. Copies of the report shall be submitted to both the CPUC and BLM within 60 days of the close of construction. Thereafter, consistent with individual agency policy, each agency will disseminate to the consulting tribes the report applicable to land under that agency’s jurisdiction. Draft reports under CPUC jurisdiction will be submitted to consulting tribes for a 30-day review and comment period concurrent with agency review. If no new resources were discovered during construction, a letter report shall be submitted to the CPUC and BLM summarizing monitoring efforts. If resources were identified during construction, the reports shall be consistent with the California Archaeological Resources Management Reports (ARMR) and commensurate with the nature and significance of the identified resource(s). If artifacts are collected, they shall be curated at a recognized curation facility unless consulting tribes request that the Native American artifacts be reburied on site. Documentation associated with any newly identified resources shall be filled with the CHRIS, if appropriate.
Timing	Post Construction
Plan/Reporting Requirements	SCE shall prepare and submit required report
Effectiveness Criteria	Delivery of draft/final report

**Table 6-1. Mitigation Monitoring Program**

Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-7: Inadvertent discovery of human remains on state owned land or private property.</b> In the event that human remains or suspected human remains are identified, SCE shall comply with California law (Health and Safety Code Section 7050.5; PRC Sections 5097.94, 5097.98, and 5097.99). The area shall be flagged off and all project activities within 200 feet (60 meters) of the find shall immediately cease. The CPUC-approved Cultural Resources Specialist and SCE shall be immediately notified. SCE shall immediately contact the Medical Examiner at the County Coroner's office, BLM, CPUC as well as representatives of consulting tribes. The Medical Examiner has two (2) working days to examine the remains. If the Medical Examiner believes the remains are Native American, they shall notify the California Native American Heritage Commission (NAHC) within 24 hours. If the remains are not believed to be Native American, the appropriate local law enforcement agency will be notified.</p> <p>The NAHC will immediately notify the person or tribe it believes to be the most likely descendant (MLD) of the remains, and the MLD has 48 hours to make recommendations to the landowner or representative for the respectful treatment or disposition of the human remains and any associated grave goods. If the MLD does not make recommendations within 48 hours, the remains shall be reinterred in the location they were discovered and the area of the property shall be secured from further disturbance. If there are disputes between the landowner and the MLD, the NAHC shall mediate the dispute and attempt to find a solution. If the mediation fails to provide measures acceptable to the landowner, the landowner or their representative shall reinter the remains and associated grave goods and funerary objects in an area of the property secure from further disturbance. The location of any reburial of Native American human remains shall not be disclosed to the public and shall not be governed by public disclosure requirements of the California Public Records Act, Cal. Govt. Code § 6250 et seq., unless otherwise required by law. The Medical Examiner shall withhold public disclosure of information related to such reburial pursuant to the specific exemption set forth in California Government Code Section 6254(r).</p>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Laws, statutes, and regulations are followed for the treatment of human remains
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM CR-8: Inadvertent discovery of human remains on federal land.</b> If potential human remains are discovered during any Project activity on lands administered by federal agencies, all activities within 200 feet that will cease immediately. SCE will take appropriate steps to secure and protect human remains and any funerary objects from further disturbance. SCE will notify the BLM and the County Coroner (California Health and Safety Code 7050.5(b)) immediately. If the remains are determined to be Native American or if Native American cultural items pursuant to the Native American Graves Protection and Repatriation Act (NAGPRA) are uncovered, the remains shall be treated in accordance with the provisions of NAGPRA (43 CFR 10) and the Archaeological Resources Protection Act (43 CFR 7). SCE shall assist and support the federal agency, as appropriate, in all required NAGPRA and Section 106 actions, government-to-government and consultations with Native Americans, agencies, and consulting parties as requested by the federal agency. SCE shall comply with and implement all required actions and studies that result from such consultations.</p>
Timing	Construction and Post Construction Revegetation Phases
Plan/Reporting Requirements	None
Effectiveness Criteria	Laws, statutes, and regulations are followed for the treatment of human remains
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Table 6-1. Mitigation Monitoring Program**

**Utilities and Service Systems**

<b>MITIGATION MEASURE</b>	<p><b>MM UT-1: Provide cathodic protection.</b> Prior to commencing construction or as soon as such data are available, if it is not available before construction, SCE shall determine and report to CPUC and BLM the location of adjacent utilities and other metallic or conducting objects susceptible to induced voltages and currents. The scope of SCE’s report shall include the results of an alternating current interference study by SoCalGas on the natural gas pipelines that parallel or cross portions of the Lugo-Mohave 500 kV Transmission Line. Prior to the in-service date of the Proposed Project series capacitors, SCE shall ensure that the necessary grounding or other appropriate measures to provide appropriate cathodic protection has been installed and shall confirm this to the CPUC and BLM.</p> <p>If SCE identifies other utilities near the 500 kV Transmission Lines that may be susceptible to increased risk of corrosion due to induced currents or voltages, SCE shall conduct or have conducted an alternating current interference study during construction of the ELM Project that evaluates the alternating current interference effects of the 500 kV transmission lines on such other utilities. The study shall include the development of a model using the maximum magnetic field levels for the transmission lines, including the conductor arrangement. For all utilities identified with a corrosion potential, SCE shall coordinate with the owner of the utility and use data gathered in the alternating current interference study to determine appropriate design measures to protect the utility from corrosion, such as ground mats or gradient control wires for cathodic protection of buried pipelines and other utilities. The study, summary of coordination with potentially affected utilities, and specifications of any design measures to be installed shall be submitted to the CPUC and BLM for review and approval at least 60 days prior to initiation of installation of such protection. All required protective and grounding work shall be completed prior to the in-service date of the Proposed Project series capacitors.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	The study, summary of coordination with potentially affected utilities, and specifications of any design measures to be installed shall be submitted to the CPUC and BLM for review and approval at least 60 days prior to initiation of installation of such protection
Effectiveness Criteria	Risk of corrosion is minimized
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>MITIGATION MEASURE</b>	<p><b>MM UT-2: Implement mitigation measures during pipeline protection work.</b> Any agreement between SCE on the one hand and any party undertaking installation of pipeline protection measures required as a result of the ELM Project on the other hand shall include a requirement that applicable mitigation measures required during construction of the ELM Project also apply to and be implemented during any required pipeline-related work. At a minimum, and to the extent that they apply in the geographic area of the pipeline work, these will include mitigation measures for impacts to biological resources, cultural and tribal cultural resources, and hazards and hazardous materials. The BLM and NPS may substitute equally effective mitigation measures or may require additional measures be implemented. A copy of the agreement between SCE and any other party for the pipeline work shall be provided to CPUC, BLM, and NPS. Business confidential information may be redacted, but the general nature of any redaction shall be identified. Absent a binding agreement between SCE and any other party to implement the required mitigation measures, or equally effective measures imposed by BLM and/or NPS, SCE will not be authorized to fund any of the required pipeline work.</p>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	A copy of the agreement between SCE and any other party for the pipeline work shall be provided to CPUC, BLM, and NPS
Effectiveness Criteria	Mitigation Measures are implemented during pipeline protection work
Verification Responsibility	Agencies or Agency Monitor will verify compliance

**Table 6-1. Mitigation Monitoring Program**

<b>MITIGATION MEASURE</b>	<b>MM UT-3: Provide safety features for induced currents on adjacent metallic objects.</b> Prior to commencing construction or as soon as such data are available, if it is not available before construction, SCE shall determine and report to CPUC and BLM the location of metallic or conducting objects that may present a shock hazard to the public due to induced voltages or currents. SCE shall prepare an Induced Current Touch study that evaluates the conductive and inductive interference effects of the 500 kV transmission lines and new overhead distribution lines on the identified conductive objects. The Induced Current Touch study, including the criteria and approach that were used to determine what objects could present a shock and the details of the grounding or other measures to be installed, shall be submitted to the CPUC and BLM for review and approval. Prior to the in-service date of the Proposed Project series capacitors, SCE shall install the necessary grounding or other appropriate measures to protect the public from hazardous shocks or arcing.
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases
Plan/Reporting Requirements	SCE shall prepare an Induced Current Touch study to the CPUC and BLM for review and approval
Effectiveness Criteria	Safety features for induced currents are provided
Verification Responsibility	Agencies or Agency Monitor will verify compliance
<b>Wildfire</b>	
<b>MITIGATION MEASURE</b>	<b>MM WF-1: Prepare and implement a Fire Management Plan.</b> A project-specific <b>Fire Management Plan</b> for construction of the ELM project shall be prepared by SCE and submitted for review and approval by the CPUC prior to initiation of construction. The draft copy of the Plan must also be provided to each responsible fire agency at least 90 days before the start of construction activities in areas designated as Very High or High Fire Hazard Severity Zones with a request for comments on the Plan’s adequacy within 30 days. Plan reviewers shall include CPUC, BLM, CAL FIRE, and San Bernardino County. Comments received on the draft Plan shall be provided to SCE from all other reviewers, and SCE shall resolve each comment in consultation with the commenting agency. CPUC shall approve the final Plan, which shall be provided to the Plan reviewing agencies at least 30 days prior to the initiation of construction activities in the Fire Hazard Severity Zones. SCE shall fully implement the Plan during all construction activities.  A qualified project Fire Marshal or person of similar title and experience shall be established by SCE to implement and enforce all provisions of the approved Fire Management Plan as well as perform other duties related to fire detection, prevention, and suppression for the project. The Fire Marshal shall monitor construction activities to ensure implementation and effectiveness of the plan.  The Plan shall cover: <ul style="list-style-type: none"> <li>▪ The purpose and applicability of the plan;</li> <li>▪ Responsibilities and duties;</li> <li>▪ Preparedness training and drills;</li> <li>▪ Procedures for fire reporting, response, and prevention that include: <ul style="list-style-type: none"> <li>– identification of daily site-specific risk conditions,</li> <li>– the appropriate tools and equipment needed on vehicles and to be on hand at sites,</li> <li>– reiteration of fire prevention and safety considerations during tailboard meetings, and</li> <li>– daily monitoring of the red-flag warning system with appropriate restrictions on types and levels of permissible activity;</li> </ul> </li> <li>▪ Coordination procedures with BLM and San Bernardino County fire officials;</li> <li>▪ Crew training, including fire safety practices and restrictions; and</li> <li>▪ Methods for verification that Plan protocols and requirements are being followed.</li> </ul>
Timing	Pre-construction, Construction, and Post Construction Revegetation Phases

**Table 6-1. Mitigation Monitoring Program**

Plan/Reporting Requirements	A project-specific Fire Management Plan for construction of the ELM project shall be prepared by SCE and submitted for review and approval by the CPUC prior to initiation of construction
Effectiveness Criteria	Compliance with the Fire Management Plan
Verification Responsibility	Agencies or Agency Monitor will verify compliance