

G. Mitigation Monitoring and Reporting

The purpose of this Mitigation and Monitoring Plan (MMP) is to ensure that each mitigation measure, applicant proposed measure, or other condition of project approval is effectively implemented. The MMP, provided in Table G-1, includes the:

- Measures that Southern California Edison Company (SCE) must implement as part of the Project;
- The actions required to implement these measures;
- The monitoring requirements; and
- The timing of implementation for each measure.

An environmental monitor designated by the California Public Utilities Commission (CPUC) would carry out all construction field monitoring to ensure that all measures are fully implemented. In all instances where non-compliance occurs, the environmental monitor would issue a warning to the construction foreman and SCE project manager. Continued non-compliance shall be reported to the CPUC's designated project manager.

Any decisions to halt work due to non-compliance would be made by the CPUC. The CPUC's designated environmental monitor would keep a record of any incidents of non-compliance with mitigation measures, applicant proposed measures, or other conditions of project approval. Copies of these documents shall be supplied to SCE and the CPUC.

Dispute Resolution

It is expected that the MMP would reduce or eliminate many potential disputes. However, even with the best preparation, disputes may occur. In such event, the following procedure would be observed:

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

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
D.2 Land Use			
Impact LAND-1: Physical Division	No mitigation required	None	N/A
Impact LAND-2: Applicable Land Use Plan, Policy, or Regulations	AES-SCE-1 through AES-SCE-4 (see below)		
Impact LAND-3: Habitat Conservation Plan or Natural Community Conservation Plan	MM BIO-5a (see below)		
D.3 Visual Resources			
Impact VIS-1: Adverse Effect on a Scenic Vista	AES-SCE-1 (Revegetation): Implement a revegetation program that will help restore the visual quality of segments along State Scenic Highways.	AES-SCE-1: Implement revegetation plan.	Following site restoration activities and prior to operation
Impact VIS-2: Damage to Scenic Resources within a State Scenic Highway	AES-SCE-2 (Reflection and Contrast): Use only non-specular conductors. Use light duty and tubular steel poles for the proposed subtransmission line that will weather to be non-reflective.	AES-SCE-2: Use non-specular conductors, light duty steel, and tubular steel poles	During construction
Impact VIS-3: Degradation to Existing Visual Character	AES-SCE-3 (Reflection): Use galvanized electrical poles with a flat finish.	AES-SCE-3: Use galvanized electrical poles with a flat finish.	During construction
Impact VIS-4: New Source of Substantial Light or Glare Affecting Daytime or Nighttime Views	AES-SCE-4 (Presence): Locate poles off of ridgelines and site construction and permanent access roads such that they will be screened from view by existing vegetation.	AES-SCE-4: Locate poles off of ridgelines and site construction and permanent access roads such that they will be screened from view by existing vegetation	During construction
D.4 Biological Resources			
Impact BIO-1: Effects on Sensitive Biological Communities and Sensitive Species	MM BIO-1a (Environmentally Sensitive Areas): The Applicant shall reduce impacts to the habitat of the sensitive species listed in Tables D.4-2 and D.4-3 by engineering the project so that it minimizes its impacts to sensitive species. This can be accomplished by situating permanent project elements (i.e., roads and poles) away from known locations of special status species and communities. However, where this is not feasible, environmentally sensitive areas such as rare plant populations or specific breeding habitat will be identified in the field to minimize the possibility of inadvertent encroachment using the following avoidance and MMs:	MM BIO-1a though f	Prior to and during construction

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Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>a. Flagging or otherwise marking sensitive plant species will be done by a trained local botanist. Construction crews will avoid direct or indirect impacts to these flagged areas. Construction personnel shall be instructed to avoid intrusion beyond these marked areas.</p> <p>b. Monitoring the known locations of special status plant populations that might be found prior to or during the construction period, using a trained professional botanist. Monitoring while construction is taking place in the vicinity of the special status plant populations and for one year following construction to assess the effectiveness of protection measures.</p> <p>MM BIO-1b (Burrowing owls): If breeding burrowing owls are found during the pre-construction surveys, the burrows shall be flagged and an appropriate construction buffer, as determined by a qualified wildlife biologist, will be established to avoid direct and indirect impacts to active nests. If the appropriate buffer cannot be maintained or if non-breeding burrowing owls are found during the pre-construction surveys, the CDFG will be contacted by the Applicant's biologist to determine relocation protocols and additional mitigation requirements.</p> <p>MM BIO-1c (Noise Control): The Applicant shall avoid impacts to migratory and sensitive bird species protected under federal or state regulations by ensuring that construction or operational noise shall not exceed ambient levels during the nesting period. This shall be done through careful work scheduling and having properly functioning mufflers on construction vehicles to ensure that migratory and nesting birds are not impacted by construction noise, no vehicles, chain saws, or heavy equipment shall be operated within the exclusion zone of 250 feet until the nesting season is over, or until a qualified wildlife biologist has determined that nesting is finished and the young have fledged. If a certified wildlife biologist determines that any particular construction, operation, or maintenance activities pose a high risk of disturbing an active nest, the biologist will recommend additional, feasible measures to</p>		

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	<p>minimize the risk of nest disturbance. If work activities are found to result in harm to nesting birds, destruction of an active nest, or nest abandonment prior to fledging, the biologist will report this to the CDFG and USFWS.</p> <p>MM BIO-1d: (Pre-Construction Nesting Bird Surveys): To avoid the impacts to active nests (with eggs or young) of any protected bird, the Applicant shall implement one of the following:</p> <ul style="list-style-type: none"> a. Conduct all construction activity (including vegetation pruning or removal) during the non-breeding season (generally between August 16 and February 28) for most special status and non-special status migratory birds, and conduct pre-construction surveys in advance of construction if construction is scheduled during the nesting season (roughly February through August). b. If construction activities are scheduled to occur during the breeding season (generally between February or March through August), a qualified wildlife biologist will conduct pre-construction focused nesting surveys prior to any ground disturbing activity, tree trimming or vegetation removal activities. <p>MM BIO-1e (Special Status Plant Species): The limits of populations of sensitive plant species shall be flagged or otherwise marked by a certified botanist to ensure construction crews will avoid direct or indirect impacts to these populations. Construction personnel shall be instructed to avoid intrusion beyond these marked areas.</p> <p>The known locations of special status plant populations within the project footprint found prior to or during the construction period will be monitored using a qualified botanist. Monitoring will occur during ground disturbing construction activity in the vicinity of the special status plant populations to assure the effectiveness of protection measures. If impacts to the known location of the sensitive plant species are unavoidable, a certified botanist will be consulted to determine the best method for preservation of the affected population. After construction is complete, the affected species will be reintroduced to its original location. If the original location is made</p>		

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	<p>unsuitable by project construction, the populations will be relocated to the most proximate feasible location as determined by the certified botanist. The Applicant shall show that the reintroduction reaches at least a 1:1 ratio of original preconstruction and postconstruction populations two years after Project completion, and shall submit a post-construction report/technical memo to CPUC verifying the success of the reintroduction.</p> <p>MM BIO-1f (Special Status Terrestrial Species): Preconstruction surveys will be conducted by a certified wildlife biologist for all terrestrial special status species as defined by Table D.4-2. The locations of any sensitive species, and their habitats, shall be marked and avoided during final project design and construction. A qualified wildlife biologist will be on-site to conduct on-site biological monitoring for sensitive wildlife species including, but not limited to, those found in Table D.4-2.</p>		
<p>Impact BIO-2: Wetlands and Riparian Habitats</p>	<p>MM BIO-2a (Wetlands Avoidance and Restoration): A wetland delineation per the U.S. Army Corps of Engineers (USACE) Wetlands Delineation Manual (USACE 1987) will be conducted prior to construction if it is determined that there is any likelihood of a potential impact to a wetland. The delineation will use a three-parameter approach that includes an examination of vegetation, soils, and hydrology to determine the presence of wetlands. A wetland report will be prepared and submitted to the USACE for verification.</p> <p>Through this process, final calculations of jurisdictional wetland areas present in the project study area will be obtained for project permitting. Wetlands and aquatic resources such as intermittent and perennial creeks, drainages, and swales that occur within the ROW will be denoted as environmentally sensitive areas and will be avoided during construction to the degree practicable. Many of the larger creeks flow through culverts beneath existing roads and they will not be directly impacted. However, smaller creeks and resources may flow across the ROW and could be affected. Where avoidance of riparian and wetland areas is not feasible and work is required within jurisdictional wetlands, drainages, and other wetland habitats,</p>	<p>MM BIO-2a through d</p>	<p>Prior to and during construction</p>

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Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>the Applicant would obtain and comply with all necessary USACE and CDFG permits under the CWA and CDFG 1600 regulations. Adherence to any applicable regulatory requirements would reduce any potential impacts to less than significant levels.</p> <p>Additionally, potential hydrologic impacts would be minimized through the use of Best Management Practices (BMPs) such as water bars, silt fences, staked straw bales, and mulching and seeding of all disturbed areas. These measures will be designed to minimize ponding, eliminate flood hazards, and avoid erosion and siltation into any creeks, streams, rivers, or bodies of water.</p> <p>MM BIO-2b (Erosion Control): The BMPs included in the Storm Water Pollution Prevention Plan (SWPPP) will be implemented during construction to minimize impacts associated with erosion. BMPs will include the installation of sediment and erosion control structures to protect biological resources, including streams, as well as roadways and adjacent properties. Watering for dust control during construction will also be employed.</p> <p>MM BIO-2c (Hydrologic Impacts): Potential hydrologic impacts would be minimized through the use of BMPs such as water bars, silt fences, staked straw bales, and mulching and seeding of all disturbed areas. These measures will be designed to minimize ponding, eliminate flood hazards, and avoid erosion and siltation into any creeks, streams, rivers, or bodies of water.</p> <p>MM BIO-2d (Loss of Habitat): Mortality of individual species associated with wetland and riparian habitats will be reduced to less than significant by adoption of mitigations measure pertaining to sensitive species.</p>		
Impact BIO-3: Migratory Wildlife	No mitigation required	None	N/A
Impact BIO-4: Local Policies	MM BIO-4a (Tree Removal Permitting): Obtain a Tree Removal Permit from the County of Riverside. The County of Riverside, Roadside Tree Ordinance 12.08 requires permits for tree removal within county highway ROWs (County of Riverside 2004). In addition,	MM BIO-4a: Obtain a Tree Removal Permit from the County of Riverside	Prior to construction

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	<p>the County of Riverside requires that any future development in an identified sensitive vegetation area (including oak woodlands) must be evaluated individually and cumulatively for potential impact on vegetation (County of Riverside 1993). Mitigation will be coordinated, as required, with the appropriate public and resource agencies once tree removal permits or approvals for lost significant trees are obtained. Mitigation for lost trees may not be implemented within the ROW due to fire safety concerns and instead may be implemented in an alternative agency approved location.</p>		
<p>Impact BIO-5: Conservation Plans</p>	<p>MM BIO-5a (Western Riverside County MSHCP Compliance): The Applicant will comply with all regulations and policies outlined in the MSHCP. This will include but is not limited to:</p> <ul style="list-style-type: none"> a. The payment of Local Development Mitigation Fees and other relevant fees as set forth in Section 8.5 of the MSHCP b. Compliance with the Habitat Evaluation and Acquisition Negotiation Strategy (HANS) process or equivalent process to ensure application of the criteria and thus satisfaction of the local acquisition obligation c. Compliance with the policies for the Protection of Species Associated with Riparian/Riverine Areas and Vernal Pools set forth in Section 6.1.2 of the MSHCP d. Compliance with the policies for the Protection of Narrow Endemic Plant Species set forth in Section 6.1.3 of the MSHCP e. Compliance with survey requirements as set forth in Section 6.3.2 of the MSHCP f. Compliance with the Urban/Wildlands Interface Guidelines as set forth in Section 6.1.4 of the MSHCP g. Compliance with the BMPs and the siting and design criteria as set forth in Section 7.0 and Appendix C of the MSHCP 	<p>MM BIO-5a: Compliance with all regulations of MSHCP</p>	<p>Prior to and during construction</p>
<p>D.5 Cultural Resources</p>			
<p>Impact CUL-1: Adverse Change in the Significance of a Historical Resource</p>	<p>MM CUL-1a (Avoid Environmentally Sensitive Areas): Known historical resources located within the project APE shall be designated as Environmentally Sensitive Areas (ESAs), and will include a buffer of 100 feet beyond historical site boundaries. Site</p>	<p>MM CUL-1a through d</p>	<p>Prior to and during construction</p>

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	<p>information is confidential; therefore, site boundaries will be delineated in the Cultural Resources Treatment Plan (CRTP). All personnel involved in construction activities shall be instructed on how to avoid an ESA prior to construction operations. Avoidance of ESAs shall be achieved by shifting the proposed subtransmission line route, by spanning the site, by not placing any new utility poles or access roads, or redesigning the footprint of a facility. Design of access roads and pole locations shall result in complete avoidance of historical resources. A qualified archaeologist and/or architectural historian shall be on site to monitor all ground-disturbing work within 1,000 feet of an ESA.</p> <p>MM CUL-1b (Cultural Resources Treatment Plan): There are resources within the project area whose eligibility for the CRHR is undetermined due to lack of evidence. These resources may be found to be considered significant archaeological or cultural resources pending further investigation. If avoidance of these resources is NOT feasible, each site identified in the sections above as having an undetermined eligibility status must be tested and evaluated. Testing and evaluation may consist of surface collection and mapping, limited subsurface excavations, and the appropriate analyses and research necessary to characterize the artifacts and deposit from which they originated, archival research, and photo-documentation. Upon completion of the test level investigations for sites determined to be unique archaeological sites or historical resources as set forth in CEQA Guidelines Section 15064.5 the archaeologist shall submit its recommendations to the CPUC in a "Cultural Resources Treatment Plan" (CRTP) on the measures that shall be implemented to protect the sites. Appropriate measures for unique archaeological resources or historical resources could include preservation in place through planning construction to avoid the resources, capping cultural resources deposits with a layer of chemically stable soil, or incorporation of sites into parks, greenspace, or other open space. In the event that preservation of the resources is not feasible the CRTP should detail an appropriate data recovery plan which makes provisions for adequately recovering the scientifically consequential information from and about the</p>		

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	<p>resource in accordance with the Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitation, Restoring, and Reconstructing Historic Buildings (1995). Such studies shall be deposited with the California Historical Resources Regional Information Center. Any excavations of archaeological resources shall be monitored by a Native American Representative. A report detailing the results of all evaluation and data recovery activities shall be completed and submitted to the CPUC as well as the Eastern Information Center, and other agencies, as appropriate. Any artifacts recovered as a result of mitigation shall be donated to a qualified scientific institution or approved curation facility where they would be afforded long term preservation to allow future scientific study.</p> <p>The CRTP shall address procedures for working in ESAs or other areas deemed sensitive for encountering cultural resources. The CRTP shall include detailed procedures for encountering cultural resource sites or isolates; encountering human remains; requirements for contacting personnel qualified to assess a discovery and its treatment; collections and curation requirements; and compliance with applicable laws and regulations. Avoidance of known cultural resources is central to the current project objectives; however, the CRTP shall define protocol to reduce impacts to undiscovered cultural resources that may be encountered during construction to a Class II impact.</p> <p>MM CUL-1c (Construction Monitoring): Prior to any ground disturbing activities taking place in conjunction with this project the applicant shall provide evidence that an archaeologist has been retained by the landowner or subsequent project applicant and that the consultant(s) will be present during all grading and other significant ground disturbing activities. These consultants shall be selected from the roll of qualified archaeologists maintained by the County of Riverside. Should any cultural resources be discovered, the monitor is authorized to stop all grading in the immediate area of the discovery, and shall make recommendations to the CPUC on the measures that shall be implemented to protect the discovered resources, including</p>		

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	<p>but not limited to excavation and evaluation of the finds in accordance with Section 15064.5 of the CEQA Guidelines. If the resources are determined to be "historic resources" as defined in Section 15064.5, mitigation measures shall be identified by the monitor and recommended to the CPUC. Appropriate treatment for such previously undiscovered resources should be in accordance with the CRTP implemented in MM CUL-1b. No further grading shall occur in the area of the discovery until the CPUC approves the measures to protect these resources. Any archaeological artifacts recovered as a result of monitoring and mitigation shall be submitted to an approved curation facility for storage.</p> <p>All construction activities in ESAs, or any other area of the project deemed sensitive for containing cultural resources, shall be monitored by a qualified archaeologist. Since significant portions of the project site contain sedimentary deposits that may hold buried cultural resources, full-time cultural resources monitoring should be implemented during all phases of ground disturbing work in these areas (Figure D.5-1). A cultural resource monitor must meet the Secretary of the Interior Standards Qualifications as a professional archaeologist, and must be on the County of Riverside Cultural Resources Consultants list. The archaeological monitor(s) must also be familiar with the project area and therefore capable of anticipating the types of cultural resources that may be encountered.</p> <p>MM CUL-1d (Human Remains): In the event of the accidental discovery or recognition of human remains during project construction, the following steps shall be taken: There shall be no further excavation or disturbance of the site or any nearby area reasonably suspected to overlie adjacent human remains until the Riverside County Coroner is contacted to determine if the remains are prehistoric and that no investigation of the cause of death is required. If the coroner determines the remains to be Native American, then the coroner shall contact the Native American Heritage Commission within 24 hours, and the Native American Heritage Commission shall identify the person or persons it believes to be the Most Likely Descendent (MLD) from the deceased. The</p>		

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	MLD may make recommendations to the landowner or the person responsible for the excavation work for means of treating or disposing of, with appropriate dignity, the human remains and associated grave goods as provided in PRC Section 5097.98.		
Impact CUL-2: Adverse Change in the Significance of an Archaeological Resource	MM CUL-1a through MM CUL-1d (see above)		
Impact CUL-3: Indirectly Destroy a Unique Paleontological Resource or Site or Unique Geologic Feature	MM CUL-1b and MM Cul-1d (see above) MM CUL-3a (Paleontological Monitoring): A qualified paleontologist shall be present during ground-disturbing construction activities in areas of paleontological sensitivity. The Applicant shall prepare a map showing the areas underlain by the Silverado Formation in Temescal Canyon and under the Fogarty Station site. These shall be considered areas of paleontological sensitivity. The paleontological monitor shall have regional experience identifying paleontological resources, be an approved paleontologist listed with Riverside County, and shall work in accordance with MM CUL-1b .	MM CUL-3a: A qualified paleontologist shall be present during ground-disturbing construction activities in areas of paleontological sensitivity.	During construction
Impact CUL-4: Disturb Human Remains, Including Those Interred Outside of Formal Cemeteries	MM CUL-1a through MM CUL-1c (see above)		
D.6 Geology, Soils, and Mineral Resources			
Impact GEO-1: Adverse Effects to People and Structures Due to Seismic Activity	MM GEO-1a: All construction personnel shall adhere to the Applicant's worker safety guidelines and policies to avoid additional adverse effects to health and safety in the event of an earthquake during construction. A site-specific safety plan with seismic activity highlighted as a potential hazard during all onsite construction activity shall be submitted to the California Public Utilities Commission (CPUC) for review and approval at least 30 days before construction. MM GEO-1b: The Applicant shall perform design-level geotechnical investigations including site-specific seismic analyses to evaluate the peak ground acceleration for design of project components. The design guidelines determined in SCE-GEO-2 shall be implemented during construction of all project components. Compliance with this measure shall be documented to the CPUC at least 30 days before construction by submittal of reports describing potential peak ground	MM GEO-1a through d	Prior to and during construction

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Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>accelerations expected for design level earthquake and a description of how the design will accommodate this anticipated motion.</p> <p>MM GEO-1c: For overhead transmission lines, site-specific geotechnical investigations will be performed at proposed pole locations to evaluate the potential for fault surface rupture. Where significant potential for fault surface rupture exists, pole locations will be adjusted as possible. Incorporation of standard engineering practices in accordance with the UBC, CBC, and Alquist-Priolo Act as part of the project will ensure that people or structures are not exposed to fault rupture hazards such as strong seismic ground shaking, seismic-related ground failure such as liquefaction, and landslides.</p> <p>MM GEO-1d: Project design and construction shall be in conformance with current best standards for earthquake resistant construction in accordance with the CBC (Seismic Zone 4). In addition, project design shall follow the recommendations of the site-specific geotechnical investigation report in MM GEO-1b and Applicant Proposed Measure SCE-GEO-2.</p>		
<p>Impact GEO-2: Soil Erosion</p>	<p>MM GEO-2a: An erosion and sedimentation control plan shall be incorporated into the SWPPP for project construction activities to minimize onsite soil erosion and offsite sedimentation. The plan shall include site maps, identification of construction activities, and measures for providing erosion and sediment control. The erosion and sedimentation control plan as part of the SWPPP shall be submitted to the CPUC for review and approval at least 30 days before construction.</p>	<p>MM GEO-2a and b</p>	<p>Prior to construction</p>
<p>Impact GEO-3: Soil Stability</p>	<p>MM GEO-3a: The Applicant shall perform design-level geotechnical investigations to assess the potential for geological hazards to include liquefaction, unstable slopes, landslides, earth flows, debris flows, and expansive soils to affect the approved project structures. Where hazards are found to exist, appropriate engineering design and construction measures shall be incorporated into the final project design. Appropriate measures could include:</p>		

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	<ul style="list-style-type: none"> • Ground improvement of liquefiable zones • Incorporation of slack in underground portions of the telecommunications system • Positioning of project structures away from steep hillsides and steep drainages • Excavation of potentially expansive soils during construction and replacement with tested and engineered backfill • Redirection of surface water and draining away from expansive foundation soils <p>The Applicant shall submit a report of the geotechnical survey and proposed measures to reduce the potential impacts of geological hazards to the CPUC for review and approval at least 30 days before construction.</p>		
Impact GEO-4: Expansive Soils	MM GEO-3a (see above)		
Impact GEO-5: Wastewater Disposal	No mitigation required.	None	N/A
Impact GEO-6: Availability of a Known Valuable Mineral Resource	No mitigation required.	None	N/A
Impact GEO-7: Mineral Resource Recovery Sites	No mitigation possible.	None	N/A
D.7 Hydrology and Water Quality			
Impact HYD-1: Water Quality Standards and Waste Discharge Requirements	MM HYD-1a: All plans identified in HYDRO-SCE-1 and 3 shall be reviewed and approved by the Santa Ana RWQCB for compliance with the Santa Ana Water Quality Control Plan prior to initiation of construction. Verification of approval shall be provided to the California Public Utilities Commission (CPUC) at least 30 days before construction.	MM HYD-1a: Submit all plans to Santa Ana RWQCB and CPUC.	Prior to construction
Impact HYD-2: Groundwater Supplies and Recharge	No mitigation required	None	N/A
Impact HYD-3: Drainage Patterns, Erosion, and Siltation	HYDRO-SCE-1: The SWPPP would be submitted to Riverside County along with grading permit applications. Implementation of the SWPPP would help stabilize graded areas and waterways, and reduce erosion and sedimentation. The plan would designate BMPs	HYDRO-SCE-1 through 4	Prior to and during construction

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	<p>that would be adhered to during construction activities. Erosion-minimizing efforts such as straw wattles, water bars, covers, silt fences, and sensitive area access restrictions (for example, flagging) would be installed before clearing and grading began. Mulching, seeding, or other suitable stabilization measures would be used to protect exposed areas during construction activities. During construction activities, measures would be in place to ensure that contaminants are not discharged from construction sites. The SWPPP would define areas where hazardous materials would be stored, where trash would be in-place, where rolling equipment would be parked, fueled and serviced, and where construction materials such as reinforcing bars and structural steel members would be stored. Erosion control during grading of the construction sites and during subsequent construction would be in-place and monitored as specified by the SWPPP. A silting basin(s) would be established, as necessary, to capture silt and other materials, which might otherwise be carried from the site by rainwater surface runoff.</p> <p>HYDRO-SCE-2: An environmental training program would be established to communicate environmental concerns and appropriate work practices, including spill prevention and response measures and SWPPP measures, to all field personnel. A monitoring program would be implemented to ensure that the plans are followed by all personnel throughout the construction period.</p> <p>HYDRO-SCE-3: The SWPPP would include procedures for quick and safe cleanup of accidental spills during construction. This plan would be submitted to Riverside County with the grading permit application. The SWPPP would 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. The plan would identify areas where refueling and vehicle maintenance activities and storage of hazardous materials, if any, would be permitted.</p> <p>HYDRO-SCE-4: Dewatering operations would be performed if groundwater is encountered while excavating or constructing the</p>		

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	proposed subtransmission line, telecommunications line, or Fogarty Substation. These operations would include, as applicable, the use of sediment traps and sediment basins in accordance with BMP NS-2 (Dewatering Operations) from the California Storm water Quality Association's (CASQA) California Storm water BMP Handbook.		
Impact HYD-4: Draining Patterns and Flooding	No mitigation required	None	N/A
Impact HYD-5: Runoff Water and Storm Water Drainage Systems	<p>MM HYD-5a: The environmental training and monitoring program identified in HYDRO-SCE-2 shall be reviewed and approved by the Santa Ana RWQCB for compliance with the Santa Ana Water Quality Control Plan prior to initiation of construction. Verification of approval shall be provided to the CPUC at least 30 days before construction.</p> <p>MM HYD-5b: The SWPPP discussed in HYDRO-SCE-1 and 3 shall be reviewed and approved by the Santa Ana RWQCB for compliance with the Santa Ana Water Quality Control Plan prior to initiation of construction. Verification of approval shall be provided to the CPUC at least 30 days before construction.</p>	MM HYD-5a and b	Prior to construction
Impact HYD-6: Water Quality	No mitigation required	None	N/A
Impact HYD-7: Flood Hazard Zones	<p>MM HYD-7a: Aboveground project features such as the TSPs, poles, underground conduit, and substation shall be placed outside the flow path of watercourses unless an engineering analysis, reviewed by the CPUC, demonstrates that watercourse avoidance is not practicable, and that appropriate flood avoidance measures, such as raising foundations, have been taken to identify and prevent potential flooding and erosion hazards. The Applicant shall provide documentation to the CPUC at least 30 days before the start of the construction regarding which structures would be in flow paths and what protective measures, such as design specifications, are proposed.</p> <p>MM HYD-7b: Ensure all National Flood Insurance Program building requirements are followed.</p>	MM HYD-7a and b	Prior to construction
Impact HYD-8: Structures that Impede or Redirect Flood Flows	No mitigation required	None	N/A
Impact HYD-9: Flooding as a Result of Failure of a Levee or Dam	MM HYD-7a and MM HYD-7b (see above)		

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Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
Impact HYD-10: Inundation by Seiche, Tsunami, or Mudflow	No mitigation required	None	N/A
D.8 Hazards and Public Safety			
Impact HAZ-1: Environmental Hazards Due to the Use, Transport, or Storage of Hazardous Materials	No mitigation required	None	N/A
Impact HAZ-2: Environmental Hazards Due to Release of Hazardous Materials into the Environment	MM HAZ-2a: As part of the siting and engineering process for the proposed subtransmission line, the Applicant shall precisely locate all underground natural gas lines in the area. Prior to finalizing the engineering design, the Applicant shall contact the Underground Service Alert of Southern California (DigAlert 2006) to identify the exact locations of gas pipelines within the project area.	MM HAZ-2a: Locate all underground natural gas lines in the area using Underground Service Alert	Prior to construction
Impact HAZ-3: Hazardous Emissions within a Quarter Mile of a School	MM HAZ-2a (see above)		
Impact HAZ-4: Located on Hazardous Materials Site pursuant to Government Code Section 65962.5	No mitigation required	None	N/A
Impact HAZ-5: Public or Worker Safety Hazard Due to Proximity to a Public or Public Use Airport			
Impact HAZ-6: Public or Worker Safety Hazard Due to Proximity to Private Airstrip	MM HAZ-6a: The Applicant shall use visibility markers on all portions of the proposed subtransmission line within half a mile in either direction of I-15 where the line crosses I-15 near Nichols Road.	MM HAZ-6a: Use visibility markers on all portions of the proposed subtransmission line within half a mile in either direction of I-15 where the line crosses I-15 near Nichols Road	During construction
Impact HAZ-7: Interference with an Emergency Response Plan or Emergency Evacuation Plan	No mitigation required	None	N/A

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
Impact HAZ-8: Significant Hazards Associated with Wildfires	No mitigation required	None	N/A
D.9 Recreation			
Impact REC-1: Neighborhood and Regional Parks	No mitigation required	None	N/A
Impact REC-2: Construction of Recreational Facilities	No mitigation required	None	N/A
D.10 Air Quality			
Impact AIR-1: Net Emission Increase of Criteria Pollutants from Construction Activities	<p>MM AIR-1a: The following control measures shall be implemented to minimize impacts due to fugitive dust emissions:</p> <ul style="list-style-type: none"> • Stabilize unpaved roads with water or other stabilizing agents; • Install wheel washers where vehicles enter and exit construction sites onto paved roads or wash off trucks and equipment leaving sites; • Sweep streets at the end of the day if visible amounts of soil are carried onto adjacent public paved roads. Water sweepers with reclaimed water are recommended; • Install wind breaks at construction areas if activities cause persistent visible PM emissions beyond the work area; • Suspend excavation, trenching, grading, or other earthmoving activities if winds exceed 25 mph; and • Use all required best available control measures as outlined in Table 1 of SCAQMD Rule 403. <p>MM AIR-1b: All construction equipment greater than 50 hp shall meet the cleanest off-road emission standard available but, at minimum, meet Tier 3 emission standards and be equipped with Level 2 or 3 CARB-verified diesel emission control technology.</p> <p>MM AIR-1c: An equipment emission reduction plan shall be prepared</p>	MM AIR-1a through e	Prior to and during construction

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>for submission to the CPUC for review and approval at least 60 days prior to construction. The plan shall be incorporated into all contracts and contract specifications for construction work. The plan shall specify all project emission reduction measures and required mitigation measures related to construction equipment emission standards/controls as contractually required. The plan shall outline additional measures, as contractually required, to reduce or eliminate potential impacts associated with construction-related emissions of criteria air pollutants and toxic air contaminants. At minimum, the plan shall include the following additional measures:</p> <ul style="list-style-type: none"> • As feasible, reduce emissions of PM and other pollutants by using alternative clean fuel technology such as electric, hydrogen fuel cell, propane, or compressed natural gas-powered equipment with oxidation catalysts instead of gasoline- or diesel-powered engines. • Ensure that all construction equipment is properly tuned and maintained and shut off when not in direct use. • Prohibit engine tampering to increase horsepower. • Locate engines, motors, and equipment as far as possible from residential areas and sensitive receptors, such as schools, daycare centers, and hospitals. 		
	<ul style="list-style-type: none"> • Provide carpool shuttles and vans to transport construction workers to and from construction sites to minimize private vehicle use. • Minimize construction-related transport of workers and equipment including trucks. • Require that on-road vehicles be less than 10 years old. <p>MM AIR-1d: The Applicant shall designate a Construction Relations Officer to ensure the enforceability and efficacy of construction-related mitigation measures. Each construction site shall include clearly visible signs with a phone number for the public to contact the Construction Relations Officer. The Construction Relations Officer shall be readily available to answer questions or field complaints</p>		

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>regarding the Project.</p> <p>MM AIR-1e: Prior to commencing construction, all personnel working on the Project shall be trained to minimize emissions and other air quality impacts during construction. Training would include procedures for:</p> <ul style="list-style-type: none"> • Stabilizing disturbed areas, including storage piles; • Controlling dust emissions during land clearing, grubbing, scraping, excavation, land leveling, grading, cut and fill, and demolition activities; • Transporting materials to minimize visible dust emissions; • Stabilizing on-site unpaved roads and off-site unpaved roads; and <p>Using transportation best practices such as carpooling, minimization of vehicle idling, and reduced speed.</p>		
Impact AIR-2: Temporary Ambient Air Impacts Caused by Construction Activities	MM AIR-1a through MM AIR-1d (see above)		
Impact AIR-3: Net Increase in Criteria Pollutant Emissions During Maintenance and Inspection Activities	No mitigation required	None	N/A
Impact AIR-4: Odor from Project Construction, Maintenance, and Inspections	No mitigation required	None	N/A
Impact AIR-5: Net Increase in GHG Emissions During Project Construction	MM AIR-5a: The Applicant shall obtain and hold for the duration of project construction, sufficient carbon credits to fully offset construction-phase GHG emissions ("project carbon offsets"). At minimum, the Applicant shall obtain and hold carbon credits to offset at least 4,229 metric tons of CO ₂ e emissions for the first year of construction and prorated during the second year as required. Prior to completion of project construction, the Applicant shall prepare a detailed written summary of the project carbon offsets, including offset project type, location, calculation methodology protocol employed, and registration status. In addition, prior to completion of	MM AIR-5a: Obtain and hold carbon credits to offset 4,229 metric tons of CO ₂ -e emissions for the first year of construction, and prorated during the second year as required.	Prior to and during construction

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>project construction, the Applicant shall provide to the CPUC an independent verification opinion statement(s), from a verification body registered with the California Climate Action Registry, Chicago Climate Exchange, ANSI, or the CARB, for the credits to be applied.</p> <p>Offsets purchased from a third-party or developed by the Applicant must meet at least one of the following requirements:</p> <ol style="list-style-type: none"> 1) Offset project is located within California; 2) Offset project is located in jurisdictions that hold current, specific agreements with California (such as the Climate Action Reserve), or exist in the context of an ISO-compliant regional trading system like that being developed in the Western Climate Initiative or other regional program; and/or 3) Offset project is an internally developed reduction measure following a recognized protocol (such as the Climate Action Reserve, the Voluntary Carbon Standard, or the Chicago Climate Exchange). Some potential offset projects of this type include: <ul style="list-style-type: none"> • Fuel switching in applicant-owned equipment; • Energy efficiency upgrades beyond business as usual; • Implementation of a quantifiable carpooling program above and beyond what is currently in place; and • Sequestration and/or destruction of GHG conducted in accordance with any protocol available at the time of construction from the Climate Action Reserve, the Voluntary Carbon Standard, or the Chicago Climate Exchange. <p>Any project carbon offset either purchased or developed by the Applicant through another entity must either be registered in, or developed in accordance with a protocol for, an established Carbon Reduction/Sequestration Project. Established projects and protocols would include those provided by recognized organizations, such as the Climate Action Reserve, the Voluntary Carbon Standard, or the</p>		

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
	<p>Chicago Climate Exchange, that can provide a reasonable level of assurance that GHG reductions are real, additional, permanent, and verifiable.</p> <p>Should the Applicant develop a project carbon offset without registering it with one of the above-referenced registration bodies, the Applicant is required to demonstrate to the CPUC that the offset satisfies the four additionality tests as outlined in the UNFCC Additionality Tool and must obtain an independent evaluation by a qualified third-party confirming that the offset meets additionality testing requirements.</p> <p>With the implementation of MM AIR-5, the impact of the project would be reduced, but it would not be mitigated to a less than significant level and would remain a significant impact.</p>		
<p>Impact AIR-6: GHG Emissions from Project Operations</p>	<p>MM AIR-6a: The Applicant shall obtain and hold for the life of the Project sufficient carbon credits to fully offset GHG emissions caused by transmission line operation, maintenance, and inspection activities. Within the first year of project operation, the Applicant shall purchase carbon offsets for at least 34 tonnes of CO₂e. To determine the quantity of carbon reductions that must occur each year after this initial year, the Applicant shall develop a complete GHG inventory annually. The Applicant shall follow established methodologies (such as the California Climate Action Registry or World Resources Institute protocols) to report GHG emissions associated with operation of the Project. All operational emissions, including SF₆ leakage and vehicle travel, will be fully offset using one of the approaches outlined in MM AIR-5a. The Applicant shall report to the CPUC annually on the status of efforts to obtain these offsets and the quantity of GHG emissions offset.</p>	<p>MM AIR-6a: Obtain and hold for the life of the Project sufficient carbon credits to fully offset GHG emissions caused by transmission line operation, maintenance, and inspection activities.</p>	<p>Following construction and prior to operation</p>
<p>D.11 Noise and Vibration</p>			
<p>Impact NOISE-1: Noise Levels that Exceed Standards</p>	<p>MM NOISE-1a: The Applicant shall stop all construction work within 300 feet of sensitive receptors within Riverside County at 6:00 pm.</p>	<p>MM NOISE-1a: Stop all construction work within 300 feet of sensitive receptors within Riverside County at 6:00 pm.</p>	<p>During construction</p>

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
Impact NOISE-2: Excessive Ground-Bourne Vibrations or Ground-Bourne Noise Levels	No mitigation required	None	N/A
Impact NOISE-3: Permanently Increase Ambient Noise Levels in the Project Vicinity	No mitigation required	None	N/A
Impact NOISE-4: Substantial Temporary or Periodic Increase in Ambient Noise Levels in the Project Vicinity	No mitigation required	None	N/A
Impact NOISE-5: Impacts to Construction Workers from Airports and Airstrips Noise	No mitigation required	None	N/A
Impact NOISE-6: Impacts to Residents in the Vicinity of a Private Airstrip	No mitigation required	None	N/A
D.12 Transportation and Traffic			
Impact TRANS-1: Traffic and Level of Service	No mitigation required	None	N/A
Impact TRANS-2: Roadway Closure	No mitigation required	None	N/A
Impact TRANS-3: Air Traffic	No mitigation required	None	N/A
Impact TRANS-4: Design Hazards	No mitigation required	None	N/A
Impact TRANS-5: Emergency Response	No mitigation required	None	N/A
Impact TRANS-6: Parking	No mitigation required	None	N/A
Impact TRANS-7: Pedestrians and Bicycles	No mitigation required	None	N/A
Impact TRANS-8: Damage to Roadways	MM TRANS-8a: Repair roadways damaged by construction activities. If roadways, sidewalks, medians, curbs, shoulders, or other such features are damaged by the Project's construction activities, as determined by the CPUC Environmental Monitor or the affected public agency, the Applicant shall coordinate repairs with the affected public agencies and ensure that any such damage is repaired to the pre-construction condition within 30 days from the end of the construction period.	MM TRANS-8a: Repair roadways damaged by construction activities.	30 days after construction
D.13 Public Services and Utilities			
Impact PUB-1: Impact on and Demand for Public Services	No mitigation required	None	N/A
Impact PUB-2: Wastewater Treatment Requirements	MM HYD-1a and HYDRO-SCE-1 (see above)		

Table G-1 Mitigation Monitoring Plan

Environmental Impact	Mitigation Measure (MM) or Applicant Proposed Measure	Monitoring Requirement	Timing of Action
Impact PUB-3: Water and Wastewater Treatment Facilities	No mitigation required	None	N/A
Impact PUB-4: Storm Water Drainage Facilities	No mitigation required	None	N/A
Impact PUB-5: Water Supply	No mitigation required	None	N/A
Impact PUB-6: Wastewater Treatment Capacity	No mitigation required	None	N/A
Impact PUB-7: Landfill and Waste Disposal Needs	No mitigation required	None	N/A
Impact PUB-8: Solid Waste Statutes and Regulations	No mitigation required	None	N/A
D.14 Agriculture			
Impact AG-1: Designated Farmland	No mitigation required	None	N/A
Impact AG-2: Williamson Act Lands	No mitigation required	None	N/A
Impact AG-3: Other Farmland Considerations	No mitigation required	None	N/A
D.15 Population and Housing			
Impact POP-1: Population Growth	No mitigation required	None	N/A
Impact POP-2: Existing Housing	No mitigation required	None	N/A
Impact POP-3: Existing Residents	No mitigation required	None	N/A