

## 8.0 Mitigation Monitoring and Reporting Plan

Pursuant to Public Resources Code Section 21081.6 and Section 15097 of the California Environmental Quality Act (CEQA) Guidelines, when an agency finds that mitigation measures (MMs) have been required in, or incorporated into, a project to avoid or substantially lessen its significant environmental effects, the agency must adopt a program for monitoring or reporting on such mitigation measures. The purpose of this Mitigation Monitoring and Reporting Plan (MMRP) is to ensure effective implementation of the applicant proposed measures (APMs) and mitigation measures required by the California Public Utilities Commission (CPUC) that Southern California Edison (the applicant) has agreed to implement as part of the proposed Mesa 500-kilovolt (kV) Substation Project (proposed project). The MMRP, which is outlined in Table 8-1, includes:

- Each significant impact identified in the Environmental Impact Report (EIR);
- APMs and mitigation measures that the applicant is required to implement as part of the proposed project;
- Monitoring requirements;
- Timing for implementation of APMs and mitigation measures;
- Indicators for determining the effectiveness of implementation of APMs and MMs
- Reporting requirements.

The MMRP contains the approach for mitigation and APM implementation. If the CPUC approves the proposed project, a more detailed Mitigation Monitoring, Compliance, and Reporting Program (MMCRP) will be developed. The MMCRP is how CPUC would implement the MMRP.

~~This MMRP is a draft program. The CPUC will formalize this MMRP for the Final EIR, prior to construction, to include specific protocols that will be followed prior to, during, and after construction by the CPUC's and the applicant's designated environmental monitors and project staff (as described in Section 8.3, "Final Mitigation Monitoring and Reporting Plan." The Final MMRP will include, but not be limited to, protocols and timelines for the following topics:~~

- ~~• Agency Jurisdiction~~
- ~~• Roles/Responsibilities~~
- ~~• Communication~~
- ~~• Compliance Verification and Reporting~~
- ~~• Project Changes, including Minor Project Refinements~~
- ~~• Dispute Resolution~~

### 8.1 Agency Jurisdiction

The California Public Utilities Code gives authority to the CPUC to regulate the terms of service and the safety, practices, and equipment of utilities subject to its jurisdiction. It is CPUC practice, pursuant to its statutory responsibility, to protect the environment and require proper implementation, monitoring, and reporting of mitigation measures stipulated as conditions of

1 approval. Public Resources Code (PRC) section 21081.6 requires that a public agency adopt a  
2 mitigation monitoring or reporting program when it approves a project for which an EIR has been  
3 prepared and that would result in significant adverse environmental effects.

4  
5 CEQA Guidelines Section 15097 describes agency requirements for mitigation monitoring and  
6 reporting. The CPUC would address the requirements of PRC § 21081.6 when it takes action on  
7 SCE's application for a Permit to Construct. If the Commission approves the Proposed Project or an  
8 alternative, it would adopt the MMRP and include the mitigation measures as a condition of  
9 approval. The MMRP would be incorporated into the MMCRP. The MMCRP serves as a working  
10 guide to ensure that the measures adopted to mitigate or avoid significant impacts of a project are  
11 implemented, and to report on their implementation. The MMCRP would contain information from  
12 the Final EIR and specific protocols, guidelines, and standard procedures for monitoring,  
13 compliance, and reporting activities of the project proponent and the CPUC and its designated  
14 monitors.

## 16 **8.2 Roles and Responsibilities**

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18 This section outlines roles and responsibilities specific to the MMRP. More specific details regarding  
19 project roles will be included in the MMCRP.

### 21 **8.2.1 CPUC Project Manager, Compliance Manager, and Compliance Monitors**

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23 The CPUC Energy Division Project Manager will assign monitoring and reporting responsibilities to  
24 a third-party contractor as described below. The third-party contractor will assign a Compliance  
25 Manager (CPUC Compliance Manager) as the designated point of contact for both the CPUC and the  
26 applicant, who will report to the CPUC Project Manager. The CPUC Compliance Manager will  
27 oversee one or more Compliance Monitors, who are the field personnel responsible for observing  
28 and reporting the applicant's compliance with the terms and conditions of the CPUC Permit to  
29 Construct during construction of the proposed project. The number of Compliance Monitors and  
30 frequency of site inspections will depend on the number and locations of concurrent construction  
31 activities. The Compliance Manager and Compliance Monitors will document compliance through  
32 daily site inspection forms, frequent phone and email contact, and regular reports to the CPUC  
33 Project Manager. The third-party contractor will notify the CPUC Project Manager of noncompliance  
34 situations and may suggest measures to help resolve the issue. The applicant must submit all  
35 requests for minor project deviations to the CPUC Project Manager via the third party contractor for  
36 review. When a mitigation measure requires that a study or plan be developed during the design or  
37 pre-construction phase of the project, the applicant must submit the final study or plan to the CPUC  
38 Project Manager via the third party contractor.

### 40 **8.2.2 Applicant and Applicant's Environmental and Construction Contractors**

#### 41 **Applicant**

42  
43 The applicant is responsible for implementing all adopted APMs and mitigation measures listed in  
44 the adopted MMRP. The applicant may elect to hire an environmental contractor to assist with  
45 environmental compliance and serve as environmental monitors during construction. The  
46 applicant's monitors ("first-party" monitors) will monitor compliance with the MMCRP, present  
47 worker environmental awareness program (WEAP) training, and help interpret APMs and  
48 mitigation measures and prevent and correct compliance problems. SCE's contractors would also  
49 be responsible for adhering to the project's environmental conditions.

1  
2 **Applicant’s Construction Management Team**

3 The applicant’s construction management team will ensure that all construction activities conform  
4 to the details outlined in the construction contract, the schedule, and all project environmental and  
5 permit conditions. The construction management team will communicate with the Construction  
6 Contractor to ensure that noncompliance issues are resolved in a timely manner and that similar  
7 issues are prevented in the future. The construction management team mediates communication  
8 between the CPUC and Construction Contractor.

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10 **8.2.3 Enforcement**

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12 The CPUC Compliance Monitor, under the supervision of the CPUC Compliance Manager and on  
13 behalf of the CPUC Project Manager, is responsible for ensuring that monitoring procedures  
14 outlined in project APMs and mitigation measures are followed as required. The CPUC Compliance  
15 Monitor will document all instances of noncompliance, and the CPUC Compliance Manager will  
16 discuss solutions to noncompliance with the applicant and the applicant’s construction  
17 management team. Copies of reports documenting noncompliance will be supplied to the applicant  
18 and the CPUC. The CPUC Energy Division has the authority to halt any construction, operation, or  
19 maintenance activity associated with the project that deviates from the approved project  
20 description or violates adopted APMs or mitigation measures.

21  
22 The CPUC Energy Division does not conduct enforcement actions related to non-compliance with  
23 APMs, mitigation measures, or Commission Orders or Decisions. The CPUC Safety and Enforcement  
24 Division (SED) investigates and conducts enforcement actions related to noncompliance. Any  
25 enforcement actions related to non-compliance with APMs or mitigation measures would be taken  
26 by SED pursuant to the process created by the Commission in Resolution E-4550 (May 9, 2013). Per  
27 Resolution E-4550, the CPUC may impose fines in the event the applicant does not comply with the  
28 Permit to Construct’s conditions of approval. CPUC staff will determine whether a fine is  
29 appropriate for non-compliance events consistent with Resolution E-4550.

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31 **8.3 Communication and Reporting**

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33 Communication is a critical component of a successful environmental compliance program. The  
34 CPUC compliance staff, the applicant, and the applicant’s contractors must maintain regular  
35 communication throughout construction to avoid noncompliance, project delays, and work  
36 stoppages. The applicant and its contractors must coordinate closely with the CPUC’s Compliance  
37 Manager and Monitors to resolve compliance issues in a timely manner and accurately disseminate  
38 the construction plan and results of resource surveys. A detailed communication protocol will be  
39 developed as part of the MMCRP prior to the commencement of construction.

40  
41 **8.3.1 Monthly Environmental Compliance Report**

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43 The applicant will prepare a monthly environmental compliance report for the CPUC. The CPUC  
44 Compliance Manager will review this report to ensure that the status of APMs and mitigation  
45 measures is consistent with observations in the field. The monthly environmental compliance  
46 report will keep all parties informed of construction progress and schedule and any noncompliance  
47 incident resolution.

1 **8.3.2 Agency Coordination**  
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3 Several local, state, and federal agencies have jurisdiction over portions of the project and may  
4 issue permits with conditions that must be followed during construction. In addition, certain APMs  
5 and mitigation measures in the Final EIR were written based on agency input. The applicant will be  
6 responsible for coordinating with applicable agencies to meet environmental and permit conditions  
7 and notifying agencies of noncompliance incidents if required. The CPUC Project Manager and  
8 Compliance Manager may facilitate these discussions as appropriate and may request copies of  
9 email correspondence, contact reports, or other documentation of conversations between the  
10 applicant and an agency to document compliance.  
11

12 **8.14 Minor Project Refinements Changes**  
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14 This section describes the CPUC's process for staff approval of ~~minor project refinements~~ changes  
15 ~~(refinements)~~ that may be necessary due to changes needed after the applicant's final engineering  
16 of elements of the proposed project, or if circumstances arise ~~During the course of construction,~~  
17 ~~circumstances may arise~~ that require ~~minor~~ deviations from the project as approved. The CPUC,  
18 along with ~~their environmental monitor~~ the CPUC Compliance Manager, would evaluate any  
19 proposed deviations from the approved project to ~~ensure~~ determine if they are consistent with  
20 approved CEQA requirements. Depending on its nature, a requested deviation would be processed  
21 as a Minor Project Change (MPC) or be the subject of a Petition for Modification (PFM) submitted by  
22 the applicant.  
23

24 MPCs would be strictly limited to minor project changes that do not trigger additional permit  
25 requirements, do not increase the severity of an impact or create a new impact, and are within the  
26 geographic scope of the EIR.  
27

28 If a project change would create or have the potential to create a new significant impact, increase  
29 the severity of an impact, or occur outside the geographic area evaluated in the EIR, the applicant  
30 would be required to submit a PFM. The CPUC would evaluate the PFM under CEQA, as appropriate,  
31 to determine what form of supplemental environmental review would be required.  
32

33 Requests for CPUC Project Manager/Compliance Manager approval of a change must be made in  
34 writing and should include the following:  
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- 36 • A detailed description of the proposed change(s), including an explanation of why the  
37 deviation is necessary;
- 38 • Identification of the APM, mitigation measure, project parameter, or other project  
39 stipulation for which the change is being requested, and citations for associated approved  
40 documents;
- 41 • Photographs, maps, and other supporting documentation illustrating the difference  
42 between the existing conditions in the project area, the approved project, and the proposed  
43 change;
- 44 • The potential impacts of the proposed change, including a discussion of each environmental  
45 issue area that could be affected by the deviation with accompanying verification, and  
46 whether there would be an increase in significant impacts on resources affected by the  
47 project and/or any new significant impacts, after application of previously adopted APM(s)  
48 and/or mitigation measure(s);

- 1 • Whether the change conflicts with any APMs or mitigation measures;
- 2 • Whether the change conflicts with any applicable guideline, ordinance, code, rule,
- 3 regulation, order, decision, statute, or policy; and
- 4 • The date of expected construction at the location of the change.

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6 The CPUC Project Manager or Compliance Manager may request additional information, agency  
7 consultations, or a site visit in order to determine the appropriate vehicle for approval and to  
8 process the request.

## 9 10 **8.25 Dispute Resolution**

11 The following procedure will be observed for dispute resolution:

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14 • **Step 1.** Disputes and complaints (including those of the public) should be directed first to  
15 the ~~CPUC-designated project manager~~ Project Manager or Compliance Manager for  
16 resolution. The CPUC Project Manager or Compliance Manager will attempt to resolve the  
17 dispute. If the dispute can be resolved by SCE, then the CPUC’s Project Manager would  
18 direct the person to SCE. If the complaint is received by SCE’s Construction Relations Officer  
19 pursuant to MM NV-1 (Noise Control Plan), the complaint would be handled in accordance  
20 with MM NV-1.
- 21 • **Step 2.** Should this informal process fail, the CPUC Project Manager may initiate  
22 enforcement or compliance action to address deviations from the proposed project or  
23 adopted MMRP.
- 24 • **Step 3.** If a dispute or complaint regarding the implementation or evaluation of the adopted  
25 MMRP cannot be resolved informally or through enforcement or compliance action by the  
26 CPUC, any affected participant in the dispute or complaint may file a written “notice of  
27 dispute” with the CPUC Executive Director or his/her designee. This notice should be filed  
28 in order to resolve the dispute in a timely manner, with copies concurrently served on other  
29 affected participants. Within 10 days of receipt, the CPUC Executive Director or designee(s)  
30 shall meet or confer with the filer and other affected participants for the purposes of  
31 resolving the dispute. The CPUC Executive Director shall issue an Executive Resolution  
32 describing his/her decision, and serve it on the filer and other affected participants.
- 33 • **Step 4.** If one or more of the affected parties is not satisfied with the decision as described  
34 in the resolution, such party(ies) may appeal it to the CPUC via a procedure to be specified  
35 by the CPUC.

36  
37 Parties may also seek review by the CPUC through existing procedures specified in the CPUC Rules  
38 of Practice and Procedure for formal and expedited dispute resolution, although a good faith effort  
39 should first be made to use the foregoing procedure.

## 40 41 **8.36 Final Mitigation Monitoring and Reporting Plan**

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43 A This Final MMRP will be prepared for the Final EIR that incorporates any changes to the proposed  
44 project or mitigation measures that are were made as a result of public review of the Draft EIR and  
45 further consideration of the proposed projects by the CPUC.

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Table 8-1 Draft Final Mitigation Monitoring and Reporting Plan

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<b>Aesthetics</b>			
<b>MM AES-1: Staging Area Screening.</b> For Staging Yards 1, 2, 6, and 7, the applicant shall at a minimum screen most views of the interiors of these areas using perimeter screening fences or other effective screening. Perimeter screening fences will be a minimum of 6 feet high and covered with a dark-colored (e.g., dark green, brown, or black) fabric or other material that provides at least 50 percent screening and covers the fence exterior.	The CPUC shall verify that SCE installs screening fences at Staging Yards 1, 2, 6, and 7.	During Construction	Staging Yards 1, 2, 6, and 7.
<b>MM AES-2: Minimize Clearing and Ground Disturbance and Restore Improve Disturbed Areas to Pre-Project Conditions.</b> Clearing and ground disturbance required for construction, including but not limited to, access roads, pulling sites, construction and maintenance pads, and construction laydown areas, shall be the minimum required, and the applicant shall <del>restore</del> <u>improve</u> all disturbed areas not required for operation and maintenance to pre-construction conditions <u>or better</u> to the extent feasible. <del>Restoration</del> <u>Improvement</u> would not be feasible if, for example, a landowner other than SCE does not wish the area to be <del>restored</del> <u>improved</u> . Areas around new or rebuilt transmission structures that must be cleared during the construction process or other areas of ground disturbance shall be <del>regraded and revegetated to be restored to an appearance that would replicate or improve pre-construction conditions.</del> <u>regraded and revegetated to be restored to an appearance that would replicate or improve pre-construction conditions.</u> The CPUC shall verify appropriate <del>restoration</del> <u>improvements</u> of disturbed areas. For all paved areas (e.g., streets, sidewalks, and parking areas) disturbed by construction, the applicant shall restore these areas <del>to pre-project conditions</del> in compliance with permits for work within these areas.	The CPUC shall verify whether the restoration of disturbed areas proposed by SCE is to pre-project conditions. For disturbance covered by local permits (e.g., streets, sidewalks, and parking areas), the applicant shall restore these areas to pre-project conditions in compliance with permits for work within these areas.	During Construction – Clearing and ground disturbance shall be the minimum required.  Post-construction – Areas that need to be cleared during construction shall be regraded and revegetated.	Any area where clearing and ground disturbance are required.
<b>MM AES-3: Landscape and Aesthetic Treatment along Potrero Grande Drive.</b> Prior to construction, the applicant shall prepare a Landscape and Aesthetic Treatment Plan that will, at a minimum, provide vegetative screening, <u>with the use of California native and/or drought tolerant vegetation</u> , and other aesthetic treatments (e.g., decorative caps on block walls) along Potrero Grande Drive and in the vicinity of the new entry drive at the substation, and provide aesthetic treatment of the operations and test and maintenance buildings and their immediate surroundings. The Landscape and Aesthetic Treatment Plan shall not conflict with NERC CIP requirements in CIP-014-2 (Physical Security) or related NERC findings. Aesthetic treatments along Potrero Grande Drive shall include design enhancements for the masonry screening wall, adjacent walkway, pavement surfaces, and planting areas and may include raised and median planters or other design enhancements. Aesthetic treatment of the operations and test and maintenance buildings and their immediate surroundings shall include improved color selection and design for the buildings and landscaping of their surroundings that will help screen views of the buildings and blend them with their surroundings. All color finishes for built elements shall be flat and non-reflective. The final Landscape and Aesthetic Treatment Plan along Potrero Grande Drive shall be prepared by a professional landscape architect licensed to work in California. The applicant shall consult with the City of Monterey Park in development of the Landscape and Aesthetic Treatment Plan and both this plan and the final designs for the buildings shall be subject to design review and approval by the City. <del>The Landscape and Aesthetic Treatment Plan shall be provided to the CPUC for final review and receive final approval from the CPUC prior to construction of these buildings and aesthetic treatments along Potrero Grande Drive. The final approved Landscape and Aesthetic Treatment Plan shall be fully implemented within four months of beginning operation of the new substation. The Landscape and Aesthetic Treatment Plan shall be provided to the CPUC for final review and receive final approval from the CPUC prior to construction of these buildings and aesthetic treatments along Potrero Grande Drive. The final approved Landscape and Aesthetic Treatment Plan shall be fully implemented within four months of beginning operation of the new substation.</del>	The applicant shall consult with the City of Monterey Park in development of the Landscape and Aesthetic Treatment Plan and both this plan and the final designs for the buildings shall be subject to design review and approval by the City. The Landscape and Aesthetic Treatment Plan shall be provided to the CPUC for final review and receive final approval from the CPUC prior to construction of these buildings and aesthetic treatments along Potrero Grande Drive.	Prior to Construction – Prepare a Landscape and Aesthetic Treatment Plan.  Post-construction – The Landscape and Aesthetic Treatment Plan shall be implemented within four months of beginning operation of the new substation.	Potrero Grande Drive and in the vicinity of the new entry drive at the substation, and operations and test and maintenance buildings and their immediate surroundings.
<b>MM AES-4: Graffiti Deterrence.</b> Prior to construction, the applicant shall prepare a Graffiti Prevention and Abatement Plan that will, at a minimum, provide measures for the installation of vegetative screening, <u>with the use of California native and/or drought tolerant vegetation</u> , and the removal of graffiti within 48 hours of report or implement other measures to screen or substantially reduce aesthetic impacts associated with graffiti on the new 12-foot-high perimeter wall facing SR 60 along the southeast edge of the proposed Mesa Substation site, such as vegetative screening or other measures intended to fully or mostly screen views from SR 60 of the southeast-facing portion of the wall that is likely to provide a surface that attracts graffiti generally considered unattractive or offensive. <u>The applicant shall consult with the City of Monterey Park in development of the Graffiti Prevention and Abatement Plan, and this plan shall be subject to review and comment by the City.</u> The Graffiti Prevention and Abatement Plan shall be provided to the CPUC for final review and approval prior to beginning construction. The final approved Graffiti Prevention and Abatement Plan shall be fully implemented, including installation of all plants for vegetative screening, within four months of beginning operation of the new substation.	The Graffiti Prevention and Abatement Plan shall be provided to the CPUC for final review and approval prior to beginning construction.	Prior to Construction – Prepare a Graffiti Prevention and Abatement Plan.  Post-construction – Implement the Graffiti Prevention and Abatement Plan.	The new 12-foot-high perimeter wall facing State Route 60 along the southeast edge of the proposed Mesa Substation site.
<b>MM AES-5: Glare Reduction.</b> To reduce potential glare from components of the proposed project and help blend them into the landscape setting, the finishes on all new transmission and other structures with metal surfaces shall be non-reflective and new conductors shall be non-specular. With the exception of LSTs, TSPs, and switchracks, all metal structures up to 35 feet high, <u>including transformer banks and new permanent buildings</u> , and visible from the vicinity of KOP 7 shall have finishes that are dark in color or otherwise colored to help blend the structures with their surroundings.	CPUC verifies that all new transmission and other structures with metal surfaces installed by SCE be non-reflective and new conductors non-specular.	During Construction	All new transmission and other structures with metal surfaces.

**Table 8-1 Draft Final Mitigation Monitoring and Reporting Plan**

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM AES-6: Night Lighting.</b> To minimize the effect on any nearby sensitive receptors, night lighting for construction activities, staging areas and other areas used for construction, and nighttime facility operations shall be the minimum necessary to ensure safety and security for nighttime activities and operations. All night lighting used for construction or operations and maintenance shall orient lights downward and be shielded to eliminate off-site light spill at times when the lighting is in use. Lighting at the proposed Mesa Substation shall consist of light-emitting diode lights in all areas where nighttime operations or maintenance activities would occur and be either motion-activated or use timers to the maximum extent feasible to ensure safety and security and reduce the impact of additional light pollution at night.</p>	<p>CPUC verifies that SCE uses the minimum lighting necessary to safety and security for nighttime activities and operations, orients downwards and shields all lighting, and ensures that lighting proposed at the Mesa Substation shall consist of light-emitting diode lights in all areas where operations or maintenance activities would occur.</p>	<p>During Construction</p>	<p>All locations with nighttime lighting.</p>
<b>Air Quality</b>			
<p><b>APM-AIR-01: Fugitive Dust.</b> During construction, surfaces disturbed by construction activities would be covered or treated with a dust suppressant until completion of activities at each site of disturbance. On-site unpaved roads and off-site unpaved access roads utilized during construction within the proposed project area would be effectively stabilized to control dust emissions (e.g., using water or chemical stabilizer/suppressant). On-road vehicle speeds on unpaved roadways would be restricted to 15 miles per hour.</p>	<p>CPUC verifies that SCE applies dust suppressant to surfaces disturbed by construction activities, and all unpaved roads would be stabilized using a water/chemical suppressant.</p>	<p>During Construction</p>	<p>Entire project area.</p>
<p><b>APM-AIR-02: Tier 3 Engines.</b> Off-road diesel construction equipment with a rating between 100 and 750 horsepower (hp) would be required to use engines compliant with EPA Tier 3 non-road engine standards. In the event that a Tier 3 engine is not available, the equipment would be equipped with a Tier 2 engine, and documentation would be provided from a local rental company stating that the rental company does not currently have the required diesel-fueled off-road construction equipment or that the vehicle is specialized and is not available to rent. Similarly, if a Tier 2 engine is not available, that equipment would be equipped with a Tier 1 engine and documentation of unavailability would be provided.</p>	<p>CPUC verifies that all off-road diesel equipment between 100 and 750 horsepower us engines compliant with Tier 3 non-road engine standards. CPUC will verify if a Tier 3 engine is not available per proper documentation, and a Tier 2 or Tier 1 engine must be used.</p>	<p>Prior to <u>and During</u> Construction</p>	<p>Any area where off-road diesel construction equipment is being utilized.</p>
<p><b>MM AQ-1: Construction Emission Reduction Measures.</b> SCE shall implement the following emission reduction measures for all construction activities:</p> <ol style="list-style-type: none"> <li>All off-road diesel-powered construction equipment with engines greater than 100 horsepower (hp) shall be compliant with Tier 4 off-road emissions standards where available. In the event that equipment with a Tier 4 engine is not available for any off-road engine larger than 100 hp, <del>that engine shall be operated with tailpipe retrofit controls that reduce exhaust emissions of NO<sub>x</sub> to no more than Tier 4 emission levels.</del> <u>SCE shall investigate all available diesel retrofit technologies to reduce emissions. Any technologically feasible retrofit control technologies must be implemented. If emission levels equivalent to Tier IV standards cannot be reached, the emissions shall be reduced to the maximum extent possible based on the selected retrofit technology. Diesel retrofit technologies investigated shall include, but are not limited to, the Air Resource Board currently verified diesel emission control strategies. SCE shall document the results of its investigation for review by the CPUC.</u></li> <li>All off-road diesel-powered construction equipment with engines greater than 50 hp shall be compliant with Tier 3 off-road emissions standards where available. In the event that equipment with a Tier 3 engine is not available for any off-road engine larger than 50 hp, <del>that engine shall be operated with tailpipe retrofit controls that reduce exhaust emissions of NO<sub>x</sub> to no more than Tier 3 emission levels.</del> <u>SCE shall investigate all available diesel retrofit technologies to reduce emissions. Any technologically feasible retrofit control technologies must be implemented. If emission levels equivalent to Tier III standards cannot be reached, the emissions shall be reduced to the maximum extent possible based on the selected retrofit technology. Diesel retrofit technologies investigated shall include, but are not limited to, the Air Resource Board currently verified diesel emission control strategies. SCE shall document the results of its investigation for review by the CPUC.</u></li> <li>Equipment with an engine not compliant with the Tier 3 or Tier 4 standards, as applicable, will be allowed on a case-by-case basis only when the applicant has documented that no Tier 3 or Tier 4 equipment (or emissions equivalent retrofit equipment) is available for a particular equipment type. Each case shall be documented with signed written correspondence by the appropriate construction contractor, along with documented correspondence from at least two construction equipment rental firms representing a good faith effort to locate</li> </ol>	<p>SCE shall submit to CPUC staff and/or construction monitors a copy of each piece of construction equipment's certified tier specification, BACT documentation, and/or CARB or SCAQMD operating permit, as applicable, at least 15 days prior to mobilization of each applicable unit of equipment.</p>	<p>Prior to <u>and During</u> Construction</p>	<p>Entire project area.</p>



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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p>engines that meet Tier 3 or Tier 4 requirements, as applicable. Documentation will be submitted to CPUC staff for review before equipment is used on the project.</p> <p>4. Submit to CPUC staff and/or construction monitors a copy of each piece of construction equipment's certified tier specification, best available control technology (BACT) documentation, and/or CARB or SCAQMD operating permit, as applicable, at least 15 days prior to mobilization of each applicable unit of equipment. <u>In the event that unforeseen equipment replacement is required after the initial notification, replacement equipment may be used so long as notification is submitted 24 hours prior to mobilization of the replacement equipment.</u></p> <p>5. <u>Idling construction equipment will be turned off when not in use for periods longer than 15 minutes.</u></p>			
<p><b>MM AQ-2: Volatile Organic Compounds Credits.</b> The remaining emissions of VOC/ ROG resulting from construction of the proposed Mesa Substation Project shall be mitigated through the purchase of Emissions Trading Credits (ETCs) for every pound of VOC/ROG in excess of the SCAQMD regional significance threshold of 100 pounds per day, as measured. The total amount of VOC/ROG ETCs to be purchased shall be calculated once the construction schedule is finalized. The applicant shall purchase and submit documentation of purchase of the required ETC to the SCAQMD prior to the start of construction. The applicant shall also track actual daily ROG emissions during construction according to a monitoring plan that includes records of equipment and vehicle usage and submit the results of this tracking to CPUC staff on a monthly basis. If monthly reports indicate that too few credits have been purchased to compensate for ROG emissions after implementation of all applicable mitigation measures, the applicant shall purchase additional ROG credits within 6 months of the end of construction. The applicant shall submit proof of the purchase of credits within 7 months of the end of construction.</p>	<p>CPUC verifies that SCE has purchased and submitted documentation of the required ETC to the SCAQMD, and that SCE submits the results of a monitoring plan tracking to CPUC staff. If monthly reports indicate that too few credits have been purchased to compensate for ROG emissions after implementation of all applicable mitigation measures, the applicant shall purchase additional ROG credits within 6 months of the end of construction. The applicant shall submit proof of the purchase of credits within 7 months of the end of construction.</p>	<p>Prior to Construction – Calculate the total amount of VOC/ROG ETCs to be purchased.</p> <p>During Construction – Adhere to monitoring plan and submit reports to CPUC on a monthly basis.</p> <p>Post-construction – Submit proof of the purchase of credits within 7 months of the end of construction.</p>	<p>Entire project area.</p>
<p><b>MM AQ-3: Measures to Reduce NO<sub>x</sub> Emissions.</b> Prior to construction, the applicant and SCE will submit proposed additional measures to reduce daily emissions of NO<sub>x</sub> to CPUC staff for review and approval, with the measures implemented depending on the amount of Tier III and Tier IV engines available at the time of construction. Measures may include the following:</p> <ol style="list-style-type: none"> <li>The use of 2010 and newer haul trucks (e.g., material delivery trucks and soil import/export) or the use of trucks that meet EPA 2007 model year NO<sub>x</sub> emissions requirements if 2010 model year or newer diesel trucks cannot be obtained.</li> <li><del>A requirement that, during project construction, all construction equipment shall be outfitted with BACT devices certified by CARB and that achieve emissions reductions that are no less than what could be achieved by a Level 3 diesel emissions control strategy for a similarly sized engine as defined by CARB regulations.</del></li> <li>Other measures as determined appropriate by the applicant and SCE in consultation with the SCAQMD.</li> </ol>	<p>Prior to construction, the applicant and SCE will submit proposed additional measures to reduce daily emissions of NO<sub>x</sub> to CPUC staff for review and approval, with the measures implemented depending on the amount of Tier III and Tier IV engines available at the time of construction.</p>	<p>Prior to Construction – Verify measures have been identified for implementation.</p> <p>During Construction – Implement proposed additional measures.</p>	<p>Entire project area.</p>
<p><b>MM AQ-4: Mitigation Agreement for Purchase of Oxides of Nitrogen (NO<sub>x</sub>) Credits.</b> Twenty days prior to the start of project construction, the applicant shall provide CPUC staff with an estimate of the total construction -related NO<sub>x</sub> emissions after implementation of all applicable mitigation measures, broken down by individual construction day. All NO<sub>x</sub> emissions that would exceed the daily threshold of 100 pounds per day shall be offset through the purchase of either Regional Clean Air Incentive Market Trading Credits (RTCs), Mobile Source Emission Reduction Credits (MSERCs), or a combination of RTCs and MSERCs. For each day that estimated NO<sub>x</sub> emissions are less than 100 pounds per day, the purchase of NO<sub>x</sub> offset credits is not required.</p> <p>The total amount of NO<sub>x</sub> RTCs and/or MSERCs to be purchased shall be determined by the CPUC after the construction schedule and operating conditions are finalized, based on estimates provided by the applicant as described above. The NO<sub>x</sub> emission credits shall be purchased and submitted to the CPUC prior to the start of project construction. Credits must be current for the time the project takes place. The applicant shall also track actual daily NO<sub>x</sub> emissions during construction according to a monitoring plan that includes records of equipment and vehicle usage and submit the results of this tracking to CPUC staff on a monthly basis. If monthly reports indicate that too few credits have been purchased to compensate for NO<sub>x</sub> emissions after implementation of all applicable mitigation measures, the applicant shall purchase additional NO<sub>x</sub> credits</p>	<p>Twenty days prior to the start of project construction, the applicant shall provide CPUC staff with an estimate of the total construction-related NO<sub>x</sub> emissions. The NO<sub>x</sub> emission credits shall be purchased and submitted to CPUC prior to the start of project construction.</p> <p>SCE shall submit results of monitoring plan tracking to CPUC on a monthly basis.</p>	<p>Prior to Construction – Provide CPUC staff with estimate of total construction-related NO<sub>x</sub> emissions and purchase the credits.</p> <p>During Construction – Implement monitoring plan tracking equipment and vehicle use. If needed, purchase additional credits within 6 months of the end of construction.</p>	<p>Entire project area.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
within 6 months of the end of construction. The applicant shall submit proof of the purchase of credits within 7 months of the end of construction.	The applicant shall submit proof of the additional credits purchased during construction, within 7 months of the end of construction.	Post-construction – Submit proof of additional credits purchased during construction within 7 months from the end of construction.	
<b>Biological Resources</b>			
<b>APM-BIO-01: Special Status Plant Species.</b> During the appropriate phenological periods, formal pre-construction surveys for rare plants would be conducted in areas where special-status plants have the potential to occur within the construction areas. Prior to construction, the locations of special-status plants identified during the surveys would be marked or flagged for avoidance. This boundary would be maintained during work at these locations and would be avoided during all construction activities to the extent possible. Impacts to Nevin’s barberry would be avoided. Where disturbance to these areas cannot be avoided, SCE would develop and implement a Revegetation Plan. The Revegetation Plan would include measures for transplanting and replacing special-status plant species that may be impacted by construction of the proposed project. This plan would also include general measures in the event that special-status plant species are encountered prior to construction of the proposed project, as well as post-construction invasive weed management measures, where necessary, to ensure successful revegetation back to pre-construction conditions or to equivalent conditions of representative habitat immediately adjacent to the affected area.	CPUC shall verify pre-construction surveys for rare plants are conducted and the locations of special-status plants have been marked for avoidance.  CPUC shall verify that a Revegetation Plan has been developed and implemented.	Prior to Construction – Conduct pre-construction surveys and mark special-status plants.  During Construction – Avoidance of Nevin’s barberry and special-status plants located during preconstruction surveys.  Post-construction – Implement the Revegetation Plan.	All areas that may support special-status plant species.
<b>APM-BIO-02: Revegetation Plan.</b> To the extent feasible, SCE would minimize impacts and permanent loss to riparian habitat, native trees, and other vegetation that is regulated by federal, State, or local agencies, and/or that provides suitable habitat for special-status species. Impacts would be minimized at construction sites by flagging native vegetation to be avoided. If unable to avoid impacts to protected vegetation, a Revegetation Plan would be prepared in coordination with the appropriate agencies for areas of native habitat temporarily and/or permanently impacted during construction. The Revegetation Plan would describe, at a minimum, which vegetation restoration method (e.g., natural revegetation, planting, or reseeding with native seed stock in compliance with the proposed project’s Stormwater Pollution Prevention Plan) would be implemented in the proposed project area. The Revegetation Plan would also include the species or habitats that could be impacted, the replacement or restoration ratios (as appropriate), the restoration methods and techniques, and the monitoring periods and success criteria, as identified in each measure.	CPUC shall verify that a Revegetation Plan has been developed and implemented, in coordination with the appropriate agencies.	Prior to Construction – Prepare a Revegetation Plan.  Post-construction – Implement the Revegetation Plan.	Entire project area.
<b>APM-BIO-03: Biological Monitoring.</b> To the extent feasible, biological monitors would monitor construction activities in areas with special-status species, native vegetation, wildlife habitat, or unique resources to ensure such resources are avoided.	CPUC verifies that biological monitors are present when construction occurs in areas with special-status species, native vegetation, wildlife habitat, or unique resources.	During Construction	All areas where special-status species, native vegetation, wildlife habitat, or unique resources may occur.
<b>APM-BIO-04: Coastal California Gnatcatcher Protection.</b> A USFWS-approved biologist would conduct pre-construction surveys for coastal California gnatcatcher no more than seven days prior to the start of ground-disturbing activities, if this would commence between February 1 and August 30. Surveys for coastal California gnatcatcher would be conducted in suitable habitat within 500 feet of the proposed project area. If a breeding territory or nest is confirmed, the USFWS would be notified and, in coordination with the USFWS, an exclusionary buffer would be established around the nest. Construction activities in occupied coastal California gnatcatcher habitat would be monitored by a full-time USFWS-approved biologist. Unless otherwise authorized by the USFWS, no proposed activities would occur within the established buffer until it is determined by the biologist that the young have left the nest. Temporary and permanent impacts to coastal California gnatcatcher and their habitat would be mitigated as required by the USFWS.	CPUC verifies that a USFWS-approved biologist conducts pre-construction surveys for the coastal California gnatcatcher within suitable habitat, and construction activities occurring in occupied habitat would be monitored by a full-time USFWS-approved biologist. CPUC also verifies that appropriate mitigation, as required by USFWS, would be implemented in areas of temporary and permanent impacts to the coastal California gnatcatcher and their habitat.	Prior to Construction – Conduct pre-construction surveys.  During Construction – Perform construction monitoring.	Suitable habitat within 500 feet of the project area.

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>APM-BIO-05: Least Bell's Vireo Protection.</b> SCE would avoid ground-disturbing activities within suitable habitat for least Bell's vireo during the nesting season to the extent possible. In the event that activities within least Bell's vireo nesting habitat are unavoidable, a USFWS-approved biologist would conduct pre-construction surveys for least Bell's vireo no more than seven days prior to the start of ground-disturbing activities, if this work would commence between March 15 and September 30. Surveys for least Bell's vireo would be conducted in suitable nesting habitat within 500 feet of the proposed project area. If a breeding territory or nest is confirmed, the USFWS and CDFW would be notified and, in coordination with the USFWS and CDFW, an exclusion buffer would be established around the nest. Construction activities in occupied least Bell's vireo habitat would be monitored by a full-time USFWS- and CDFW-approved biologist. Unless otherwise authorized by the USFWS and CDFW, no proposed project activities would occur within the established buffer until it is determined by the biologist that the young have left the nest. Temporary and permanent impacts to least Bell's vireo, and their habitat, would be mitigated as required by the USFWS and CDFW.</p>	<p>CPUC verifies that a USFWS-approved biologist conducts pre-construction surveys for least Bell's vireo within suitable habitat, and construction activities occurring in occupied habitat would be monitored by a full-time USFWS-approved biologist. CPUC also verifies that appropriate mitigation, as required by USFWS, would be implemented in areas of temporary and permanent impacts to least Bell's vireo and their habitat.</p>	<p>Prior to Construction – Conduct pre-construction surveys.  During Construction – Perform construction monitoring.</p>	<p>Suitable habitat within 500 of the project area.</p>
<p><b>APM-BIO-06: Nesting Birds.</b> SCE would conduct pre-construction clearance surveys no more than seven days prior to construction, to determine the location of nesting birds and territories during the nesting bird season (typically February 1 to August 31, earlier for species such as raptors). An avian biologist would establish a buffer area around active nest(s) and would monitor the effects of construction activities to prevent failure of the active nest(s). The buffer would be established based on construction activities, potential noise disturbance levels, and behavior of the species. Monitoring of construction activities that have the potential to affect active nests would continue until the adjacent construction activities are completed or until the nests are no longer active.</p>	<p>CPUC verifies that SCE conducts pre-construction clearance surveys no more than 7 days prior to construction, establishes buffers around active nests, and monitors construction activities around active nests.</p>	<p>Prior to Construction – Conduct pre-construction surveys.  During Construction – Perform construction monitoring and establish buffer areas around nests.</p>	<p>Entire project area.</p>
<p><b>APM-BIO-07: Avian Protection.</b> Electrical facilities would be designed in accordance with Avian Power Line Interaction Committee's <i>Suggested Practices for Avian Protection on Power Lines: the State of the Art in 2006</i> (APLIC 2006).</p>	<p>CPUC verifies that SCE has implemented applicable design measures.</p>	<p>Prior to Construction</p>	<p>Power line components.</p>
<p><b>APM-BIO-08: Compensation for Permanent Impacts.</b> Permanent impacts to all jurisdictional water resources would be compensated at a 1-to-1 ratio, or as required by the USACE, CDFW, and RWQCB.</p>	<p>CPUC verifies that SCE consults with the appropriate agency (USACE, CDFW, or RWQCB) and mitigates all permanent impacts to jurisdictional waters.</p>	<p>Post-construction</p>	<p>All areas where permanent impacts to jurisdictional waters occurs.</p>
<p><b>MM BR-1: Pre-construction Surveys.</b> Prior to construction and activities in a new work area that may include vegetation clearing, staging, and stockpiling, or other activities with the potential to directly or indirectly affect wildlife, the applicant shall retain a qualified biologist approved by the CPUC to conduct pre-construction surveys for sensitive biological resources, including special-status plant species and special-status wildlife, and nesting birds in all areas of temporary and permanent disturbance. Pre-construction surveys shall be species and resource appropriate and typically conducted a maximum of 14 days prior to construction as approved by the CPUC. <u>If there is no work in an area for 14 days or more, the area shall be considered a "new work area" if construction begins again.</u> Nesting bird and burrowing owl pre-construction surveys shall be consistent with the timing specified in the Nesting Bird Management Plan required by MM BR-11. <u>Additional western spadefoot pre-construction surveys shall be conducted at any time of year where project activities cause vibrations and where artificial wetting of ground surface may result in spadefoot emergence. Western pond turtle pre-construction surveys shall include live trapping in areas where visual observation may be compromised due to water depth or dense vegetation growth near water.</u> The information gathered from these surveys shall be used to develop site- and resource- specific actions to minimize impacts on sensitive resources from project-related activities.</p> <p>Additionally, a CPUC-approved qualified biologist shall conduct pre-construction clearance sweeps for special-status species at all access, staging, and laydown/work areas where suitable habitat is present within approximately 24 hours of construction activities each day.</p>	<p>CPUC verifies that pre-construction surveys are completed.</p>	<p>Prior to Construction</p>	<p>All areas of temporary and permanent disturbance.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM BR-2: Limits of Construction Activities: Project Boundaries and Sensitive Areas Clearly Marked.</b> In all locations of the project, construction activities, vehicular traffic (including movement of all equipment), and storage of construction materials shall be restricted to approved access roads and established construction areas indicated by flagging, fencing, and/or signage. The applicant shall ensure that exclusionary fencing is installed prior to the start of construction activities around laydown and work and staging areas, where necessary <u>and appropriate</u>, to prevent inadvertent encroachment into the <u>project area by special status species and the inadvertent encroachment by project activities into habitat adjacent to areas of impact</u>. Identified sensitive resources such as aquatic features, special-status plants and natural communities, and known wildlife habitat of special-status species (e.g., nests, burrows, or dens) shall be assigned a buffer as appropriate and clearly marked (e.g., with signs, flagging, ropes, and/or fencing) to ensure they are avoided unless disturbance was previously approved. A CPUC-approved qualified biologist shall determine the appropriate buffer depending on the species and the construction activity. The CPUC-approved qualified biologist shall perform or supervise flagging and fencing to ensure that these activities are conducted without harm to sensitive species or habitat.</p> <p>If special-status wildlife, or evidence of special-status wildlife or special-status plant species not previously analyzed in this document, is found at any time, the applicant shall immediately halt work and contact the appropriate wildlife agency(ies) and the CPUC. Work will resume once the CPUC provides approval.</p>	<p>CPUC verifies that construction activities are limited to approved work areas and access roads, and are indicated with flagging, fencing, and/or signage.</p>	<p>Prior to Construction</p>	<p>All locations of the project, construction activities, vehicular traffic, and storage of construction materials.</p>
<p><b>MM BR-3: Habitat Restoration and Mitigation.</b> Prior to construction of the proposed project the applicant shall ensure that seasonally-appropriate surveys of vegetation are completed by a qualified botanist familiar with these vegetation associations. SCE shall develop a Habitat Restoration and Mitigation Plan that shall include an estimate of the total area of sensitive natural communities, including all coastal California gnatcatcher habitat and riparian habitat. With the consultation, <del>and review, and comment from</del> of the USFWS, CDFW, and CPUC, SCE shall prepare the plan to ensure restoration of all temporary impact areas and to ensure mitigation for permanent impacts on sensitive natural communities and coastal California gnatcatcher habitat. The plan must be submitted 60 days prior to the planned start of construction. CPUC approval is required before the plan is implemented. Required plan details include but are not limited to:</p> <ul style="list-style-type: none"> <li>All temporarily impacted areas shall be restored. All temporary disturbances to sensitive natural communities shall be restored with the pre-disturbance natural community <u>(except for areas burned in the 2015 "Lincoln" fire, which shall be restored to the pre-fire natural community)</u>. All other temporarily impacted areas <u>observed to be utilized by the coastal California gnatcatcher</u> shall be restored with <u>the appropriate coastal sage scrub community</u> if feasible <del>and appropriate</del>. <u>Temporary impacts on sensitive natural communities and habitat utilized by gnatcatchers shall be mitigated by restoration at a minimum ratio of 1.5:1; if restoration is not feasible within 1 mile of the project area, SCE shall purchase credits and/or mitigation lands at a minimum ratio of 2.5:1 from an entity approved by CDFW and/or USFWS, as appropriate.</u> Areas that do not provide habitat to coastal California gnatcatcher, other special-status species, or sensitive resources may be restored to the conditions agreed upon between the landowner and the applicant.</li> <li>The restoration plan shall specify how each type of vegetation community, including sensitive natural communities, shall be addressed in terms of the following restoration details: topsoil segregation and conservation; vegetation treatment and removal; revegetation methods, including seed mixes, rates, <u>appropriate habitat structure</u>, and transplants; criteria to monitor and evaluate revegetation success (minimum of four years of monitoring and 80% <u>successful native plant establishment</u> <del>cover for sensitive natural communities</del>); and compensation and remedial measures to be implemented as needed.</li> <li>For sensitive natural communities, mitigation of permanent impacts shall occur after construction at a <u>minimum</u> level of 1.5:1. In addition, permanent disturbances to coastal California gnatcatcher habitat that is not coastal sage scrub or another sensitive natural community shall be mitigated at a <u>minimum 1.5:1 ratio with appropriate coastal sage scrub</u>. Mitigation for permanent impacts shall be completed through one of the following methods: <ol style="list-style-type: none"> <li>Establishing the natural community within the proposed project areas (onsite);</li> <li>Establishing the natural community outside the proposed project areas (within one mile of the project area); or</li> <li>If Options 1 and 2 are not feasible, SCE shall purchase credits and/or mitigation lands at a <u>minimum</u> ratio of 2.5:1 from an entity approved by CDFW and USFWS, as appropriate.</li> </ol> <p>For Options 1 and 2 (onsite and offsite), the plan shall specify restoration details, including that post-construction monitoring shall be performed for a minimum of four years, a success criteria of 80% <u>successful cover native plant establishment</u> shall be met, and remedial measures shall be implemented if success criteria are not met.</p> </li> </ul>	<p>The plan must be submitted 60 days prior to the planned start of construction. CPUC approval is required before the plan is implemented.</p> <p>CPUC shall verify that USFWS and CDFW have reviewed the plan.</p> <p>With CPUC approval, requirements described in this mitigation measure and the Habitat Restoration and Mitigation Plan may be satisfied through compliance with permit conditions, if these requirements are equally or more effective.</p>	<p>Prior to Construction – Ensure seasonally appropriate surveys of vegetation are completed and a Habitat Restoration and Mitigation Plan is prepared.</p> <p>During Construction - Minimize the removal of coastal sage scrub or other suitable coastal California gnatcatcher habitat.</p> <p>Post-construction – Restore all temporarily impacted areas and mitigate for permanent impacts on sensitive natural communities and coastal California gnatcatcher habitat.</p>	<p>Entire project area.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<ul style="list-style-type: none"> <li>Impacts on areas that were previously restored for SCE's TRTP shall be avoided if possible. The plan shall identify any impacts on areas that were previously restored for TRTP and provide detailed restoration plans for these areas. Restoration in these areas shall follow restoration criteria that are consistent with the goals and criteria of TRTP restoration, per TRTP Mitigation Measure B-1a: Provide restoration/compensation for impacts to native vegetation communities.</li> </ul> <p>With CPUC approval, requirements described in this mitigation measure and the Habitat Restoration and Mitigation Plan may be satisfied through compliance with permit conditions, if these requirements are equally or more effective.</p> <p>SCE shall also minimize the removal of coastal sage scrub or other suitable coastal California gnatcatcher habitat, particularly within designated critical habitat for the coastal California gnatcatcher. To minimize the removal of vegetation in habitat areas of the coastal California gnatcatcher, SCE shall ensure that trimming of all native vegetation, riparian vegetation, and vegetation that provides potential habitat for coastal California gnatcatcher is monitored by a qualified biologist approved by the CPUC. Trimming of native trees and native arborescent shrubs shall be completed outside of the nesting bird season and shall be monitored by a qualified arborist/biologist.</p>			
<p><b>MM BR-4: Noxious and Invasive Weed Control Plan.</b> Prior to construction, the applicant shall submit a Noxious and Invasive Weed Control Plan that shall be implemented before, during, and after construction, including during the project restoration phase. This plan shall include measures designed to avoid the introduction and spread of noxious weeds and invasive plant species designated by the state, the counties, and local weed control boards. This plan shall be developed in consultation with CDFW and the CPUC and shall be provided to these agencies for review and comment. The plan must be submitted to the CPUC 60 days prior to the planned start of construction. CPUC approval is required before the plan is implemented.</p> <p>At a minimum, this plan shall include the following measures:</p> <ul style="list-style-type: none"> <li>Pre-construction surveys for special-status plant species (APM BIO-01 and MM BR-1) shall include surveys for state-, county-, and locally designated noxious weed species. The applicant shall coordinate with the appropriate agencies, including the CPUC, to determine appropriate species-specific measures to implement, or whether control or treatment of a species is feasible and preferable.</li> <li>All vehicles and equipment shall be clean and free of dirt, mud, and any debris that may carry invasive plant seeds or parts prior to arrival at the project location, including prior to use of access roads.</li> <li>Vehicle and equipment wash stations (mobile or built in place) shall be erected at strategic locations on the ROW where designated weed species have been detected, and where doing so would help prevent the spread of these species.</li> <li>Straw, hay, gravel, soil, or other construction or erosion control materials that could inadvertently contain unwanted plant propagules shall come from state-cleared sources that are free of invasive weeds.</li> <li>All seeds to be used in revegetation and reclamation activities shall come from weed-free sources.</li> <li>All temporary disturbance areas that will be restored post-construction shall be monitored for invasive species establishment on a monthly basis during the growing season and on a quarterly basis outside of the growing season for at least one year after project restoration is completed. If evidence of the expansion or increase in abundance of a known invasive species or introduction of a new invasive species is found, the applicant shall initiate appropriate control measures, which may include mowing or trimming of weeds prior to seed set, as outlined in the plan.</li> </ul>	<p>This plan shall be developed in consultation with CDFW and CPUC and shall be provided to these agencies for review and comment. The plan must be submitted to the CPUC 60 days prior to the planned start of construction. CPUC approval is required before the plan is implemented.</p>	<p>Prior to Construction – Prepare and submit a Noxious and Invasive Weed Control Plan and perform pre-construction surveys for special-status plant species.</p> <p>During Construction – Implement the Noxious and Invasive Weed Control Plan.</p> <p>Post-construction – Monitor of all restored work areas for the presence of invasive weeds.</p>	<p>Entire project area.</p>
<p><b>MM BR-5: Worker Environmental Awareness Program.</b> The applicant shall develop and implement a WEAP for all project personnel. The program must be submitted to the CPUC at least 30 days prior to the start of construction for review. CPUC approval is required before the program is implemented. All project personnel shall undergo training prior to entering the ROW. The training shall include a description of the species of concern and their habitats, the general provisions of applicable environmental regulations, the need to adhere to the provisions of the regulations, the penalties associated with violating the provisions of the regulations, the general measures that are being implemented to conserve the species of concern as they relate to the project, the access routes to the project, and project boundaries within which the project-related activities must be accomplished. This training shall include a detailed review of how project personnel can identify sensitive biological resources in the project area which need to be avoided or where work activities will be restricted.</p>	<p>SCE shall submit sign-in sheets for those who attended WEAP training.</p>	<p>Prior to Construction – <u>Submit WEAP During Construction – Submit sign-in sheets monthly</u></p>	<p>Entire project area.</p>
<p><b>MM BR-6: Avoidance of Nevin's barberry.</b> The project shall be designed to avoid impacts on occurrences of Nevin's barberry during construction and operation and maintenance. Prior to the start of construction, the applicant's CPUC-approved qualified biologist shall complete pre-construction surveys in suitable habitat during the appropriate blooming period to identify any occurrences. Where Nevin's barberry occurs, all construction and operation and maintenance activities shall occur outside a restrictive buffer, which shall be established by a CPUC-</p>	<p>SCE shall submit preconstruction survey results to the CPUC, report any previously unknown occurrences found during pre-</p>	<p>Prior to Construction – Conduct pre-construction surveys in suitable habitat to identify any occurrences and establish a</p>	<p>Areas of suitable habitat for Nevin's barberry and around known occurrences.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p>approved qualified biologist. Vehicles and crew members shall be prohibited from coming within 200 feet of identified Nevin’s barberry unless a buffer reduction is approved by the CPUC after <del>consultation</del> <u>coordination</u> with USFWS. A reduced buffer shall be a minimum of <u>approximately 1525 feet or greater</u> from a Nevin’s barberry plant. A qualified biologist approved by the CPUC shall monitor crew members and the Nevin’s barberry to ensure all project activities stay away from Nevin’s barberry within the buffer. The biologist shall have the authority to halt work if it is determined that Nevin’s barberry could be impacted.</p> <p>In the event that previously unknown occurrences of Nevin’s barberry are discovered during pre-construction surveys or during construction or operations, a 200-foot buffer shall be established and the USFWS and CPUC shall be contacted within 24 hours.</p>	<p>construction surveys or construction, and submit a monitoring report.</p>	<p>buffer around any occurrences.</p> <p>During Construction – Monitor construction around buffers.</p>	
<p><b>MM BR-7: Restoration of Southern California Black Walnut.</b> SCE shall take measures to avoid and minimize impacts on Southern California black walnut resulting from project construction activities, and shall plant replacement trees for any impacted or removed specimens. Prior to construction (after completion of final engineering design of project features), black walnut tree evaluation surveys shall be completed by a qualified arborist (an arborist with extensive local or regional expertise in the planting, care, and maintenance of black walnut trees). The arborist must be approved by the CPUC. The arborist shall record a brief description (e.g., location, height, diameter at breast height, condition) of each black walnut tree with a dripline within 25 feet of construction activities. All construction activities that take place within the driplines of black walnut trees (i.e., the outermost extent of the canopy) that are not being intentionally removed shall be monitored by a qualified arborist to reduce, to the extent feasible, impacts on the tree, including roots.</p> <p>California black walnut trees that are impacted within the drip line or intentionally removed shall be replaced at a <u>23:1</u> ratio. If the diameter at breast height of the tree to be removed is 24 inches or less, it shall be replaced with a 24-inch box tree. If the diameter at breast height of the tree to be removed is greater than 24 inches, it shall be replaced with a 36-inch box tree. Replacement trees shall be planted on site as near to the original location as feasible and biologically appropriate, and shall be monitored by a qualified arborist who will ensure the replacement trees are placed in a suitable area. Replacement trees shall be monitored for seven years after the initial planting or until the arborist determines that 80 percent of trees are successfully established. <u>If onsite replacement is not feasible, SCE shall plant replacement trees offsite as near to the proposed project as is appropriate and feasible. The same monitoring requirements and success criteria would apply as for those trees planted onsite. If neither of the two options above are feasible, SCE shall purchase credits and/or mitigation lands from an entity approved by CDFW such that a restoration ratio of 4:1 is achieved.</u></p> <p>Tree removal shall not be permitted until a detailed plan for restoration, including identification of planting location, <u>or offsite mitigation lands</u>, is approved by the CPUC, and in consultation with USFWS and CDFW. Replacement trees shall be planted before tree removal, or if not feasible or if potentially harmful to the replacement trees, as soon as possible after removal.</p>	<p>CPUC shall approve a detailed plan for restoration, including identification of planting location, in consultation with USFWS and CDFW.</p>	<p>Prior to Construction – Complete black walnut tree evaluation surveys.</p> <p>During Construction – Monitor construction activities that take place within the driplines of black walnut trees.</p> <p>Post-construction – Replace those black walnut trees impacted or removed by construction activities.</p>	<p>All project locations where black walnut trees occur.</p>
<p><b>MM BR-8: Restoration of Special-status Plants.</b> The applicant shall complete pre-construction surveys during the appropriate blooming period to identify special-status plants, including <u>Coulter’s Matilija poppy</u>, Plummer’s mariposa lily, intermediate mariposa lily, and Southern California tarplant populations in the proposed project component areas where suitable habitat is present. Special-status plants shall be identified by a qualified biologist and flagged or surrounded with fencing in such a way that disturbance of the populations or individuals shall be avoided. In the event that populations or individuals of <u>special-status plants (other than Southern California black walnut—see MM BR-7)</u> cannot be avoided, the applicant shall develop and implement a restoration plan for each plant which will be submitted to CPUC and CDFW for review and comment no less than 60 days prior to construction activities within the work area where impacts would occur. <u>The CPUC will coordinate with and CDFW, and CPUC approval is required before the plan is implemented. In the case of Southern California black walnut trees, a restoration plan will be completed and approved as described in MM BR-7.</u></p> <p>For temporary impacts to special-status plants, restoration shall occur after construction <u>at a minimum ratio of 1.5:1 and to an extent such that “no net loss” is ensured</u> for all special-status plants in the proposed project component areas. The number of plants at seven years will be <u>a minimum of 1.5 times equal to or greater than</u> the number destroyed.</p> <p>Mitigation for permanent impacts shall be completed by:</p> <ol style="list-style-type: none"> <li>1. Establishing individual plants within the proposed project areas (onsite);</li> <li>2. Establishing individual plants outside the project areas (offsite); or</li> <li>3. Purchase of credits and/or mitigation lands at a ratio of <u>2.5:1</u> from an entity approved by CDFW.</li> </ol>	<p>CPUC shall verify that pre-construction surveys occur during the appropriate blooming period and that any special – status plants are flagged or fenced for avoidance.</p> <p>In the event that populations or individuals cannot be avoided, the applicant shall develop and implement a restoration plan for each plant, which will be submitted to CPUC and CDFW for review and comment no less than 60 days prior to construction activities within the work area where impacts would occur. CPUC approval is required before the plan is implemented.</p>	<p>Prior to Construction – Conduct pre-construction surveys. Develop restoration for each special-status plant that cannot be avoided.</p>	<p>All project areas where suitable habitat is present for Plummer’s mariposa lily, intermediate mariposa lily, and Southern California tarplant.</p>

**Table 8-1 Draft Final Mitigation Monitoring and Reporting Plan**

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p>For Options 1 and 2 (establishing plants onsite or offsite), the plan shall include the following elements: planting/seeding palettes; monitoring and contingency program; monitoring schedule, including duration (seven years) and performance criteria (<del>no net loss</del> <u>minimum of 1.5 times the number destroyed</u>); and any specific measures that will be required to ensure success of the restoration effort. <u>This mitigation measure may be coordinated with areas restored for MM BR-3 if appropriate.</u></p>			
<p><b>MM BR-9: Construction Monitoring.</b> The applicant shall ensure that a qualified biologist approved by the CPUC serves as a construction monitor during periods when construction activities occur near active nest areas, or within 100 feet of native vegetation or vegetation that has the potential, or is known, to provide habitat for special-status species. The monitor shall have the authority to temporarily stop work that they determine threatens a special-status species or sensitive resource. The monitor shall determine what appropriate action to take, and work will resume once the monitor determines there is no longer a threat to the special-status species or sensitive resource, or consultation has occurred with the appropriate wildlife agencies which determines appropriate steps have been taken and a threat is no longer present.</p>	<p>CPUC shall verify that a CPUC-approved biologist is present during construction activities occurring near active nest areas, or within 100 feet of native vegetation or vegetation that has the potential, or is known, to provide habitat for special-status species.</p>	<p>During Construction</p>	<p>All project areas near active nest areas, or within 100 feet of native vegetation or vegetation that has the potential, or is known, to provide habitat for special-status species.</p>
<p><b>MM BR-10: Open Trenches and Pipes.</b> To prevent entrapment of wildlife, SCE shall ensure that all steep-walled trenches, auger holes, <u>open-ended piping</u>, or other excavations are covered at the end of each day or completely fenced off at night in such a way that wildlife cannot become entrapped. For open trenches only, these may instead have wildlife escape ramps within the trench maintained at intervals of no greater than 100 feet. These ramps shall have a maximum slope not to exceed 2:1. SCE's biological monitor, approved by the CPUC, shall inspect all trenches, auger holes, or other excavations a minimum of three times per day and immediately prior to backfilling. <u>During working hours, all construction materials with open-ended piping, including but not limited to pipe sections and fencing supports, shall be left capped when not planned for use the same day. During active construction, open piping shall be inspected for wildlife by SCE's biological monitor before the material is moved, buried, or capped.</u> All non-special-status wildlife species found will be safely removed and relocated out of harm's way, through the use of suitable tools such as a pool net when applicable. For safety reasons, under no circumstance will biological monitors enter open excavations.</p>	<p>CPUC shall verify that all steep-walled trenches, auger holes, or other excavations are covered at the end of each day or completely fenced off at night in such a way that wildlife cannot become entrapped. Escape ramps are acceptable for open trenches only.</p>	<p>During Construction</p>	<p>All project areas containing steep-walled trenches, auger holes, or other excavations.</p>
<p><b>MM BR-11: Nesting Bird Management Plan.</b> To address potential conflicts between construction activities and the activities of nesting birds in the project component areas, SCE shall develop a nesting bird management plan in consultation with USFWS, CDFW, and CPUC, and shall submit the final plan to the CPUC no less than 60 days prior to construction. CPUC approval is required before the plan is implemented. The nesting bird management plan shall include measures and an adaptive management program to avoid and minimize impacts to special-status and MBTA- or California Fish and Game Code-protected bird species during nesting periods during project construction. Specifically, the nesting bird management plans shall contain:</p> <ul style="list-style-type: none"> <li>• Appropriate survey timing, extents, methods, and surveyor qualifications; approved nest deterrent methods, including areas where vegetation will be cleared for the purpose of deterring nesting; monitoring and reporting protocols during construction; protocol for determining whether a nest is active; protocol for documenting, reporting, and protecting active nests within construction areas. If pre-construction survey protocols exist for a certain species, the plan shall <u>identify the species-specific protocol that will be followed and outline how SCE will comply with the protocol outline the implementation of these protocols.</u></li> <li>• Guidelines for determining appropriate and effective buffer distances that will account for specific project settings, bird species, stage of nesting cycle, and construction work type. Language for buffer reduction process will be included in the plan, which shall include coordination with the appropriate wildlife agencies and the CPUC if reducing the buffer of a <del>raptor</del> or special-status species.</li> <li>• Language specifying that the determination of appropriate and effective buffers between construction activities and identified nests shall be site- and species/guild-specific and data-driven, and will not be based on generalized assumptions regarding all nesting birds.</li> <li>• Language specifying that determinations of appropriate and effective buffers between construction activities and identified nests can be made in the project construction area by the CPUC-approved biological monitor (qualified in accordance with nesting bird plan standards, which will include specific requirements for education and experience in conducting biological surveys and with specific birds in the project area).</li> <li>• Vertical buffers shall be put in place in those areas where helicopters will be used, and they will be based on anticipated effects of rotor wash and noise for the class of helicopter being used by SCE. Surveys and monitoring of the active buffer areas will be performed by a CPUC-approved biologist before, during, and after helicopter use in the vicinity of active buffers.</li> <li>• Burrowing owl pre-construction surveys shall adhere to the current burrowing owl survey protocol identified by CDFW (i.e., CDFW's Staff Report on Burrowing Owl Mitigation [CDFG 2012]). If pre-construction burrowing owl surveys confirm the presence of burrowing owl, SCE shall submit a Burrowing Owl Compensation Plan, in consultation with CDFW and the CPUC, which is consistent with mitigation guidelines</li> </ul>	<p>SCE shall develop a Nesting Bird Management Plan in consultation with USFWS, CDFW, and CPUC, and shall submit the final plan to the CPUC no less than 60 days prior to construction. CPUC approval is required before the plan is implemented.</p> <p>Reporting of nesting bird activities, buffer reductions, and monitoring results shall be provided to the USFWS, CDFW, and the CPUC on a regular basis.</p>	<p>Prior to Construction – Conduct surveys during the appropriate nesting season.</p> <p>During Construction – Perform monitoring and prepare reports.</p>	<p>All work areas in which any construction related activities are conducted.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p>in the Staff Report, prior to construction. The final Burrowing Owl Compensation Plan shall be implemented, as specified, throughout construction and restoration. The plan shall describe the compensatory measures that will be undertaken to address the loss of burrowing owl burrows within the project area. This will include mitigation for permanent impacts on nesting, occupied, and satellite burrows and occupied burrowing owl habitat with (a) permanent conservation of similar vegetation communities comparable to or better than that of the impact area, and (b) sufficiently large acreage, and presence of fossorial mammals.</p> <p>SCE shall notify CDFW, USFWS, and the CPUC of all project-related bird injuries or mortalities within 12 hours of discovery and will follow the agencies' recommended actions, if any. Reporting of nesting bird activities, buffer reductions, and monitoring results shall be provided to the USFWS, CDFW, and the CPUC on a regular basis.</p>			
<p><b>MM BR-12: Gnatcatcher Surveys.</b> Prior to the start of construction, SCE shall ensure that protocol-level pre-construction surveys are conducted by a qualified biologist approved by the CPUC for the coastal California gnatcatcher in project component areas where suitable habitat exists in accordance with the Coastal California Gnatcatcher (<i>Poliophtila californica californica</i>) Presence/Absence Survey Guidelines (USFWS 1997). In the event that coastal California gnatcatchers are observed during pre-construction surveys, a qualified biologist must identify the boundaries of the pair's territory and SCE must not conduct construction activities within 500 feet of the territory, or as otherwise approved by the CPUC, in consultation with USFWS and CDFW. SCE shall notify USFWS and CDFW the CPUC in the event gnatcatcher territory or nest sites are confirmed by surveys, immediately upon return from the field. If infeasible to maintain a buffer of 500 feet (or a distance otherwise approved by USFWS and CDFW), by installing temporary flagging or fencing, from an active gnatcatcher territory, construction activities within or near these areas will be performed outside the breeding and nesting season (coastal California gnatcatcher breeding/nesting season is approximately February 1 through August 30). SCE may conduct construction activities in gnatcatcher habitat during the breeding and nesting season if protocol-level surveys (conducted within one year prior to construction activities per protocol) confirm the absence of breeding gnatcatchers, or if the 500-foot protective buffer from all active gnatcatcher territories can be maintained.</p>	<p>CPUC shall ensure that protocol-level surveys are conducted.</p>	<p>Prior to Construction – Conduct protocol-level surveys.</p> <p>During Construction – Perform monitoring and prepare monitoring reports.</p>	<p>All work areas where suitable coastal California gnatcatcher habitat exists.</p>
<p><b>MM BR-13: Pre-Construction Surveys for Least Bell's Vireo.</b> Prior to construction and within their breeding season (generally April 10-August 31), SCE shall complete protocol-level surveys for least Bell's vireo in areas of suitable or potentially suitable riparian and other habitat within the proposed component areas. Surveys will be conducted by a qualified biologist approved by the CPUC according to the survey protocol for least Bell's vireo (USFWS 2001). In the event that least Bell's vireo territory or nest sites are confirmed, SCE shall notify the USFWS and CDFW immediately upon within 24 hours of returning from the field. If individuals or their nests are observed, biologists will establish and maintain a minimum 500-foot (or a distance otherwise approved buffer from USFWS and CDFW) exclusionary buffer by installing temporary flagging or fencing between the nest territory and construction activities. If infeasible to maintain a buffer of 500 feet (or a distance otherwise approved by USFWS and CDFW), from an active vireo territory, construction activities within or near these areas will be performed outside the breeding and nesting season.</p>	<p>CPUC shall ensure that protocol-level surveys are conducted.</p>	<p>Prior to Construction – Conduct protocol-level surveys.</p> <p>During Construction – Perform monitoring and prepare monitoring reports.</p>	<p>All work areas where suitable least Bell's vireo habitat exists.</p>
<p><b>MM BR-14: Minimize Impact on Riparian Habitat and Aquatic Features.</b> SCE shall complete the following:</p> <ol style="list-style-type: none"> <li>1. In those areas where riparian vegetation is required to be removed, SCE shall work with a qualified botanist to determine the minimum amount of vegetation required to be removed in order to accommodate project construction, and the correct trimming procedures to employ.</li> <li>2. Temporary impacts to riparian habitat or aquatic features shall be fully restored according to the Habitat Restoration and Mitigation Plan described in MM BR-3. All permanently impacted areas shall be mitigated using methods described in MM BR-3.</li> <li>3. Where riparian vegetation or aquatic features would be impacted by project construction activities, SCE shall also consult with USACE, RWQCB, and CDFW to determine if a CWA Section 404 permit, CWA Section 401 permit, and LSAA pursuant to California Fish and Game Code Section 1600 would be necessary, respectively. If USACE, RWQCB, or CDFW determines a permit is required, the permit will be obtained prior to impacts and SCE will comply with all terms and conditions of the agreement. In addition, the USACE, RWQCB, and CDFW shall be provided the opportunity to review and comment on the Habitat Restoration and Mitigation Plan if impacts will occur in an area that may be under their jurisdiction.</li> <li>4. Mitigation requirements described under number 2 above for impacts to riparian habitat or aquatic features may be satisfied by demonstrating compliance with equal or more effective permit conditions, with approval by the CPUC.</li> </ol>	<p>CPUC verifies that a qualified botanist has been consulted to determine the minimum amount of vegetation to be removed, temporary impacts are restored according to the Habitat Restoration and Monitoring Plan, and permanent impacts are mitigated according to methods described in MM BR-3. CPUC may also determine that the above mitigation requirements are satisfied by compliance with permit conditions.</p> <p>CPUC also verifies that USACE, RWQCB, and CDFW are consulted to determine if a permit is necessary.</p>	<p>Prior to Construction – Consult with botanist to determine appropriate amount of vegetation removal.</p> <p>Post-Construction – Restore and/or mitigate temporary and permanent impacts.</p>	<p>All project areas containing riparian habitat and aquatic features.</p>



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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM BR-15: Avian Protection Plan.</b> SCE shall adhere to recommendations published by APLIC (<i>Reducing Avian Collisions with Power Lines: The State of the Art in 2012</i> (APLIC 2012)). In addition, SCE shall develop and implement an Avian Protection Plan according to Avian Protection Plan Guidelines (APLIC and USFWS 2005). The plan shall include provisions to reduce impacts on avian species during operation of the proposed project, and shall provide for the adaptive management of project-related issues. The plan shall be submitted for review to CDFW, USFWS, and the CPUC at least 60 days prior to construction. CPUC approval is required before the plan is implemented.</p>	<p>The plan shall be submitted for review to the CDFW, USFWS, and CPUC at least 60 days prior to construction. CPUC approval is required before the plan is implemented.</p>	<p>Prior to Construction – Develop an Avian Protection Plan.  During Construction – Implement the Avian Protection Plan.</p>	<p>Entire project area.</p>
<b>Cultural and Paleontological Resources</b>			
<p><b>APM-CUL-01: Paleontological Resources Management Plan.</b> A Paleontological Resources Management Plan would be developed for construction within areas that have been identified as having a moderate and high sensitivity for paleontological resources. The Paleontological Resources Management Plan would be prepared by a professional paleontologist in accordance with the recommendations of the Society of Vertebrate Paleontology.</p>	<p>CPUC verifies a Paleontological Resources Management Plan is developed by a professional paleontologist.</p>	<p>Prior to Construction – Develop a Paleontological Resources Management Plan.  During Construction. Implement the Paleontological Resources Management Plan.</p>	<p>Project areas that have been identified as having a moderate or high sensitivity for paleontological resources.</p>
<p><b>MM CR-1: Flag and Avoid Known Unevaluated Historic Sites.</b> Prior to commencement of any construction or construction-related activities within 50 feet of the mapped boundaries of (1) the historic-era debris and concrete structure at site P-19-186889 and (2) the concrete footings and shack at site SAY-S-1, a qualified CPUC-approved archaeologist shall erect flagging to create a 50-foot buffer around these resources. Flagging shall be in a bright, easily visible color, and signs shall be posted at the perimeter of the flagged areas on all sides to indicate that construction equipment, materials, and personnel shall stay out of the flagged areas. Flagging and signage shall stay in place until all construction activities within 50 feet of the resources has been completed.</p>	<p>CPUC verifies an archaeologist has erected flagging at appropriate locations.</p>	<p>Prior to Construction</p>	<p>All project areas where construction activities are occurring within 50 feet of the mapped boundaries of (1) the historic-era debris and concrete structure at site P-19-186889 and (2) the concrete footings and shack at site SAY-S-1.</p>
<p><b>MM CR-2: Worker Training for Cultural and Paleontological Resources.</b> Prior to commencement of any project-related construction activities, all SCE, contractor, and subcontractor project personnel shall receive training regarding:</p> <ul style="list-style-type: none"> <li>• Appropriate work practices necessary to effectively implement the APMs and mitigation measures and to comply with the applicable environmental laws and regulations.</li> <li>• The potential for exposing subsurface cultural resources and paleontological resources.</li> <li>• How to recognize possible buried resources.</li> </ul> <p>This training shall include a presentation of:</p> <ul style="list-style-type: none"> <li>• Procedures to be followed upon discovery or suspected discovery of historic or archaeological materials, including Native American remains and their treatment.</li> <li>• Procedures to be followed upon discovery or suspected discovery of paleontological resources.</li> <li>• Actions that may be taken in the case of violation of applicable laws.</li> </ul>	<p>CPUC verifies all SCE, contractor, and subcontractor project personnel have received worker training for cultural and paleontological resources.</p>	<p>Prior to Construction</p>	<p>Entire project area.</p>

**Table 8-1 Draft Final Mitigation Monitoring and Reporting Plan**

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM CR-3: Previously Unidentified Cultural Resources.</b> If a previously unknown cultural resource is discovered during project construction activities, work shall be halted within 100 feet of the resource, and protective barriers shall be installed along with signage identifying the area as an “environmentally sensitive area.” Entry into the area shall be limited to authorized personnel, and the CPUC-approved cultural resources specialist/<del>archaeologist</del> qualified archaeologist, <u>SCE</u>, and the CPUC shall be notified immediately.</p> <p>Preservation in place (i.e., avoidance) is the preferred method of mitigation for impacts on cultural resources and shall be required to mitigate impacts to previously undiscovered resources unless the CPUC-approved cultural resources specialist/qualified archeologist <u>and SCE</u> determines that another method would provide superior mitigation of impacts to the resource. If the resource can be completely avoided, no additional mitigation is necessary. If the resource cannot be completely avoided, the CPUC-approved cultural resources specialist/qualified archaeologist <u>and SCE</u> shall follow the procedures delineated below for resources where it is not known whether the resource is historical. If an unanticipated resource is avoided, it shall nonetheless be recorded on DPR 523 forms, which shall be filed at the Eastern Information Center.</p> <ul style="list-style-type: none"> <li>• <b>Determination if a resource is an historical resource.</b> The CPUC-approved cultural resources specialist/qualified archaeologist <u>and SCE</u>, in consultation with the CPUC, shall determine if there is a potential for the resource to be a historical resource. If there is no potential for the resource to qualify as a historical resource, work shall resume after CPUC concurrence. If there is a potential for the resource to be a historical resource, the qualified archaeologist <u>and SCE</u> shall prepare an Evaluation Plan.</li> <li>• <b>Evaluation Plan.</b> The resource-specific Evaluation Plan shall detail the procedures to be used to determine if the discovery is an historical resource. The Evaluation Plan shall include sufficient discussion of background and context to allow the evaluation of the resource against the historical resource criteria. It shall include a description of procedures to be used in the gathering of information to allow the evaluation. These techniques may include (but are not limited to): excavation, written documentation, interviews, and/or photography. For archaeological resource testing, the Evaluation Plan shall describe the archaeological testing procedures, including, but not limited to: surface collection (if surface artifacts are discovered), test excavations (including type, number, and location of test pits and/or trenches), analysis methods, and reporting procedure. The Evaluation Plan shall be submitted to CPUC for review. Once approved, the Evaluation Plan shall be implemented in the field. The report resulting from this work shall include evaluation of the discovery, based on the significance criteria set forth in the Evaluation Plan, indicating if it is an historical resource. If the discovery is not found to be an historical resource, and CPUC concurs with that determination, protective barriers may be removed, and work may proceed in the area of the discovery. If the discovery is determined to be an historical resource, SCE shall prepare a Data Recovery Plan.</li> <li>• <b>Data Recovery Plan.</b> Data Recovery Plans for historical resources that cannot be fully avoided shall be prepared in accordance with CEQA Guidelines section 15126.4(b)(3)(C) and PRC section 21083.2, as applicable. The Data Recovery Plan shall outline how the recovery of data from the resource will mitigate impacts to that resource to below a level of significance. The Data Recovery Plan shall describe the level of effort, including numbers and kinds of excavation units to be dug, excavation procedures, laboratory methods, samples (e.g., pollen, sediment, as appropriate) to be collected and analyzed, analysis techniques that will yield information relevant to the aspects of the site that make it an historical resource, and reporting procedure. This plan shall be submitted to the CPUC for review and approval. Once approved, the applicant shall implement the approved plan. Once the data recovery field work is complete, a Data Recovery Field Memo shall be prepared.</li> <li>• <b>Data Recovery Field Memo.</b> Following implementation of the Data Recovery Plan, the Data Recovery Field Memo shall be prepared. The Data Recovery Field Memo shall briefly describe the data recovery procedures in the field and summarize (at a field catalog level) the materials recovery. The Data Recovery Field Memo shall also identify the number and kind of samples recovered that are appropriate for special analyses, including radiocarbon dating, obsidian sourcing, pollen analysis, microbotanical analysis, and others, as applicable. The Data Recovery Field Memo shall be submitted to CPUC for review and approval. Once the Data Recovery Field Memo has been approved, protective barriers may be removed, and work may proceed in the area of the discovery. A Data Recovery Report shall then be prepared.</li> <li>• <b>Data Recovery Report.</b> Within 90 days of submittal of the Data Recovery Field Memo, a Data Recovery Report shall be prepared presenting the results of the data recovery program, including a description of field methods, location and size of excavation units, analysis of materials recovered (including results of any special analyses conducted), and conclusions drawn from the work. The Data Recovery Report shall also indicate where artifacts, samples, and documentation resulting from the data recovery program will be curated. The curation facility shall meet the requirements of 36 Code of Federal Regulations 79. The Data Recovery Report shall be submitted to the CPUC for review and approval. Once approved, the Data Recovery Report shall be filed with the Eastern Information Center. All impacted known resources and all unanticipated resources shall be recorded on DPR 523 forms that shall be filed at the Eastern Information Center with the Data Recovery Report.</li> </ul>	<p>CPUC verifies that work has been halted and that protective barriers have been installed. CPUC verifies that a Data Recovery Field Memo is prepared and a Data Recovery Report is prepared and submitted to CPUC for review and approval. CPUC shall also verify that all impacted known resources and all unanticipated resources shall be recorded on DPR 523 forms that shall be filed at the Eastern Information Center with the Data Recovery Report. If an Evaluation Plan is needed, CPUC shall verify it has been prepared with appropriate measures.</p>	<p>During Construction</p>	<p>Entire project area.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM CR-4: Paleontological Resources Monitoring.</b> Prior to the start of construction, the applicant shall retain a qualified paleontologist. The qualified paleontologist shall be approved by the CPUC and shall monitor all ground-disturbing activities that take place within areas that have a moderate to high potential to contain paleontological resources, <u>consistent with designations shown in Table 4.4-7. The Paleontological Resources Management Plan (APM-CUL-01) shall show a map of areas requiring monitoring consistent with Table 4.4-7.</u> The paleontological monitor shall have the authority to halt construction in the vicinity of any potential paleontological resource finds to begin implementation of MM CR-7.</p>	<p>SCE shall retain a qualified paleontologist, approved by the CPUC.</p>	<p>During Construction</p>	<p>Construction areas with a moderate to high potential to contain paleontological resources.</p>
<p><b>MM CR-5: Follow Paleontological Resource Discovery Protocol.</b> In the case that a previously unknown paleontological resource is discovered during construction activities, all work within 15 meters of the resource shall be stopped, and the CPUC-approved paleontologist shall determine, <u>after consulting with SCE,</u> whether the resource can be avoided. If the discovery can be avoided and no further impacts will occur, no further effort shall be required. If the resource cannot be avoided and may be subject to further impact, the paleontologist shall determine whether the resource is unique under Part V of CEQA Guidelines Appendix G. A paleontological resource shall be considered unique if it meets the definition of a significant paleontological resource under the 2010 Society of Vertebrate Paleontology <i>Standard Procedures for the Assessment of Adverse Impacts to Paleontological Resources</i> definition:</p> <p style="padding-left: 40px;">Significant paleontological resources are fossils and fossiliferous deposits, here defined as consisting of identifiable vertebrate fossils, large or small, uncommon invertebrate, plant, and trace fossils, and other data that provide taphonomic, taxonomic, phylogenetic, paleoecologic, stratigraphic, and/or biochronologic information. Paleontological resources are considered to be older than recorded human history and/or older than middle Holocene (i.e., older than about 5,000 radiocarbon years).</p> <p>Substantiation of the uniqueness conclusion shall be provided to the CPUC for review and approval. If the resource is determined not to be unique, work may commence in the area.</p> <p>If the resource is unique, then work shall remain stopped, and the approved paleontologist shall consult with the applicant and the CPUC regarding methods to ensure that no substantial adverse change would occur to the significance of the resource pursuant to CEQA. Preservation in place, i.e., avoidance, is the preferred method of mitigation for impacts to paleontological resources and shall be required to mitigate impacts to previously undiscovered resources unless the CPUC-approved <del>paleontologist</del> <del>cultural resources specialist/qualified archaeologist</del> determines that another method would provide superior mitigation of impacts to the resource. Other methods include ensuring that the fossils are recovered, prepared, identified, catalogued, and analyzed according to current professional standards under the direction of a qualified paleontologist. Methods of recovery, testing, and evaluation shall adhere to current professional standards for recovery, preparation, identification, analysis, and curation, such as the 2010 Society of Vertebrate Paleontology <i>Standard Procedures for the Assessment of Adverse Impacts to Paleontological Resources</i>. Work can commence following recovery and CPUC approval.</p>	<p>CPUC verifies that the Paleontological Resource Discovery Protocol is followed, including CPUC review and approval of the uniqueness conclusion for the resource and the methods for recovery of the resource.</p>	<p>During Construction</p>	<p>Entire project area.</p>
<p><b>MM CR-6: Unanticipated Discovery of Human Remains.</b> In the event that human remains or suspected human remains are identified, SCE shall comply with California law, including, but not limited to, the following provisions: CEQA Guidelines section 15064.5(e); PRC sections 5097.94, 5097.98, and 5097.99; and California Health and Safety Code section 7050.5. These laws require Native American consultation for Native American burial sites.</p> <p>The area where the remains are identified shall be flagged off, and all construction activities within 165 feet (50 meters) of the find shall immediately cease. The CPUC, the CPUC-approved cultural resources specialist/archaeologist, SCE, and any other appropriate agency shall be immediately notified, and the cultural resources specialist/archaeologist shall examine the find. If the cultural resources specialist/archaeologist determines that there may be human remains, SCE shall immediately contact the Medical Examiner at the Los Angeles County Coroner's office. The Medical Examiner has two working days to examine the remains after being notified by SCE. If the Medical Examiner believes the remains are Native American, he/she shall notify the NAHC within 24 hours.</p> <p>The NAHC will immediately notify the person 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 area of the property shall be secured from further disturbance. If there are disputes between the landowners 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, California Government 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>	<p>In the event that human remains are identified, the CPUC, the CPUC-approved cultural resources specialist/archaeologist, SCE, and any other appropriate agency shall be immediately notified. CPUC shall verify that SCE immediately contacts the medical examiner at the Los Angeles County Coroner's Office.</p>	<p>During Construction</p>	<p>Entire project area.</p>

**Table 8-1 Draft Final Mitigation Monitoring and Reporting Plan**

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<b>Geology, Soils, and Minerals</b>			
<p><b>MM GEO-1: Geotechnical Investigation.</b> The applicant will conduct a geotechnical investigation for the proposed project and prepare a geotechnical report documenting the results of the investigation. The geotechnical investigation shall assess the potential for liquefaction, landslides, lateral spreading, seismic ground shaking, and expansive soil. The geotechnical report shall make recommendations of engineering and design measures to incorporate into the proposed project, determined appropriate by a California-licensed Geotechnical Engineer or Certified Engineering Geologist, to mitigate impacts associated with liquefaction, landslides, lateral spreading, seismic ground shaking, and expansive soils. Measures that may be used to minimize impacts could include, but are not limited to:</p> <ul style="list-style-type: none"> <li>• <i>Liquefaction:</i> stabilization of fills, retaining walls, slope coverings, removal of unstable materials, avoidance of highly unstable areas, construction of pile foundations, and/or ground improvements of liquefiable zones.</li> <li>• <i>Landslides and lateral spreading:</i> retaining walls, excavation of unstable materials, avoidance of highly unstable areas.</li> <li>• <i>Seismic ground shaking:</i> energy dissipating devices, bracing, bolting of foundations.</li> <li>• <i>Expansive soil:</i> excavation of expansive soil, draining water away from expansive soils, ground-treatment processes.</li> </ul> <p>SCE shall provide documentation to the CPUC prior to construction that demonstrates these measures have been incorporated into project design.</p>	<p>SCE shall provide documentation to the CPUC prior to construction that demonstrates these measures have been incorporated into project design.</p>	<p>Prior to Construction</p>	<p>Entire project area.</p>
<b>Hazards and Hazardous Materials</b>			
<p><b>MM HZ-1: Hazardous Materials Business Plan.</b> A Hazardous Materials Business Plan (HMBP) shall be submitted to the CPUC and electronically through the California Environmental Reporting System (CERS) for any hazardous materials stored on-site over threshold quantities (55 gallons, 200 cubic feet, or 500 pounds). The plan shall include information on:</p> <ul style="list-style-type: none"> <li>• Hazardous materials stored at the Mesa Substation over threshold quantities.</li> <li>• A site map with key emergency information, including internal access roads, adjacent public streets, sewer drains, emergency response equipment, and access/egress points.</li> <li>• Emergency response plans for release and threatened release of the covered materials.</li> </ul> <p><del>The HMBP and its approval by the Los Angeles Certified Unified Program Agency must be submitted to the CPUC at least 30 days prior to storage of covered hazardous materials. The HMBP must be submitted at least 30 days prior to storage of covered hazardous materials via the CERS. A receipt showing that the agency received the plan must be submitted to the CPUC no less than 15 days prior to storage of covered hazardous materials.</del></p>	<p>The Hazardous Materials Business Plan and its approval by the Los Angeles Certified Unified Program Agency must be submitted to the CPUC at least 30 days prior to storage of covered hazardous materials.</p>	<p>Prior to Construction</p>	<p>Wherever hazardous materials over 55 gallons, 200 cubic feet, or 500 pounds are stored.</p>
<p><b>MM HZ-2: Hazardous Materials Training.</b> Prior to construction, the applicant will prepare and implement a worker environmental awareness program (WEAP) for CPUC review and approval that includes:</p> <ul style="list-style-type: none"> <li>• Instruction regarding the location of Material Safety Data Sheets, as well as proper labeling, storage, use, transport, and disposal of hazardous materials.</li> <li>• Information on common contaminants that could be uncovered in the proposed project area and instruction regarding appropriate procedures if potentially contaminated soil is present.</li> <li>• Procedures for spill response under the SPCC (MM HZ-3) including notification to appropriate personnel, including the Spill Response Coordinator in case of a hazardous materials spill or leak from equipment, or upon the discovery of soil or groundwater contamination.</li> <li>• Instruction on individual responsibilities under the Clean Water Act, the project SPCC, the project SWPPP, and site-specific BMPs.</li> <li>• Instruction on compliance with OSHA regulations and procedures if landfill gas is encountered during excavations.</li> </ul> <p>The applicant will maintain records documenting attendees at each training.</p>	<p>CPUC verifies Hazardous Materials Training has been prepared and administered, and that SCE maintains records documenting attendees at each training.</p>	<p>Prior to Construction.</p>	<p>Entire project area.</p>

**Table 8-1 Draft Final Mitigation Monitoring and Reporting Plan**

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM HZ-3: Spill Prevention, Control, and Countermeasure Plan.</b> SCE shall prepare a site-specific SPCC plan that identifies spill response and prevention measures and BMPs. SCE shall indicate site-specific physical conditions that could exacerbate spills, such as drainages to the nearest water bodies. SCE shall name a representative that will be responsible for verifying that construction and operation activities adhere to the SPCC, including implementation of BMPs. SCE shall submit the SPCC to CPUC at least 30 days prior to <u>delivery of any additional transformer oil to the site</u> for review and approval.</p>	<p>SCE shall name a representative that will be responsible for verifying that construction and operation activities adhere to the SPCC plan, including implementation of BMPs. SCE shall submit the SPCC to CPUC at least 30 days prior to construction for review and approval.</p>	<p>Prior to Construction – Prepare a SPCC plan.  During and Post-construction – Implement the SPCC plan.</p>	<p>Entire project area.</p>
<p><b>MM HZ-4: Contaminated Soil Contingency Plan.</b> Prior to construction, the applicant will submit a Contaminated Soil Contingency Plan to the CPUC for review and approval. The plan will include practices that are consistent with the California Title 8 and Occupational Safety and Health Administration (Cal-OSHA) regulations and will outline steps that would be implemented if contaminated soils are encountered. The objective of the plan will be to minimize risk to the public and to the environment resulting from exposure to and disturbance of contaminated soils. At a minimum, the plan would include procedures for the following steps:</p> <ul style="list-style-type: none"> <li>• Identifying potentially impacted soil;</li> <li>• Establishing a no-work zone for potentially contaminated areas;</li> <li>• Assessing potentially impacted soil;</li> <li>• Notifying appropriate agencies,</li> <li>• Cleanup procedures;</li> <li>• Impacted soil storage;</li> <li>• Verification sampling; and,</li> <li>• Impacted soil characterization and disposal.</li> </ul> <p>During construction an appropriately trained construction personnel, under the supervision of a California licensed registered geologist or professional engineer, will be present to monitor soil conditions during all earthmoving activities. If potentially contaminated soils are encountered during construction, the applicant would implement the Contaminated Soil Contingency Plan to assess the soils and to determine appropriate procedures based on the nature of the contamination, which may include avoidance or collection and analysis to determine appropriate disposal or treatment options.</p>	<p>Prior to construction, the applicant will submit a Contaminated Soil Contingency Plan to the CPUC for review and approval. During construction, CPUC shall verify that an appropriately trained construction personnel, under the supervision of a California licensed registered geologist or professional engineer, will be present to monitor soil conditions during all earthmoving activities.</p>	<p>Prior to Construction – Develop a Contaminated Soil Contingency Plan.  During Construction – Implement the Contaminated Soil Contingency Plan.</p>	<p>Entire project area.</p>
<p><b>MM HZ-5: Well Management Plan.</b> Prior to construction, the applicant will prepare and submit to CPUC a Well Management Plan in coordination with OII Landfill and the U.S. EPA in order to prevent contamination of groundwater and subsurface soil. The plan will include procedures for well decommissioning or protection for all monitoring wells located within the footprint of the proposed project. The plan will be reviewed and approved by CPUC prior to construction. Proper well decommissioning or protection/avoidance measures would be implemented prior to beginning other ground disturbing activities within the proposed Mesa Substation site area. The Well Management Plan would address the following:</p> <ul style="list-style-type: none"> <li>• Identification of wells that would be avoided during construction and wells that would be decommissioned,</li> <li>• Well decommissioning schedule,</li> <li>• Well decommissioning procedures,</li> <li>• Procedures for the protection of wells that are to be avoided during construction,</li> <li>• Procedures for granting access to OII Landfill’s monitoring wells during construction activities. Procedures should address compliance to the proposed project’s APMs and MMs.</li> </ul>	<p>Prior to construction, the applicant will prepare and submit to CPUC a Well Management Plan in coordination with OII Landfill and the EPA. The plan will be reviewed and approved by CPUC prior to construction.</p>	<p>Prior to Construction</p>	<p>All project areas containing monitoring wells.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<b>Hydrology and Water Quality</b>			
<p><b>MM HY-1: Stormwater Pollution Prevention Plan.</b> The applicant will obtain coverage for the project under the Construction General Permit (Order No. 2009-0009-DWQ, as amended by 2010-0014-DWQ and 2012-0006-DWQ). The applicant will prepare a SWPPP to reduce the potential for water pollution and sedimentation from construction. BMPs to be included in the SWPPP that must be submitted to the SWRCB shall include, but are not limited to, the following:</p> <ul style="list-style-type: none"> <li>• The applicant shall not stockpile brush, loose soils, excavation spoils, or other similar debris material within sensitive habitats.</li> <li>• If visible dust is present during construction activities, standard dust suppression techniques (e.g., water spraying) will be used in all ground disturbance areas.</li> <li>• 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 and trash would be stored; where vehicles would be parked, fueled and serviced; and where construction materials would be stored.</li> <li>• Runoff, sedimentation, and erosion would be minimized through the use of BMPs such as water bars, silt fences, staked straw bales, wattles, 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, and to preserve roadways and adjacent properties. BMPs would be included for areas where helicopters would be landed, fueled, and serviced or used for construction activities.</li> <li>• Equipment storage, fueling, and staging areas would be located in upland sites away from riparian areas or other sensitive habitats. These designated areas would be located in such a manner as to prevent any runoff from entering sensitive habitat. Where vehicle maintenance (excluding fueling) cannot be avoided in areas outside those previously specified, these maintenance activities shall be performed at least 150 feet from all aquatic resources or as specified by agency permits, on an impermeable bladder or tarp specified for such maintenance activities. Project-related spills of hazardous materials would be cleaned up immediately and contaminated soils removed to approved disposal areas.</li> <li>• Implement measures such as sandbags, silt screens, cleanup of spills of hazardous materials, and cleanup of sediment to prevent polluted (with sediment or hazardous materials) runoff from work areas in paved streets from entering the storm drain system</li> <li>• Implement measures such as silt screens, cleanup of spills of hazardous materials, cleanup of sediment, secondary containment for hazardous materials, and avoidance of activities that disturb sediment or have a high potential for hazardous materials spills immediately before or during rain to prevent polluted (with sediment or hazardous materials) runoff from staging areas from draining into water ways such as washes, drainages, and ditches and from entering municipal storm drain systems.</li> </ul> <p>Verification of Construction General Permit coverage approval and the approved SWPPP(s) will be provided to the California Public Utilities Commission (CPUC) at least 30 days prior to start of construction. Updated SWPPPs will be provided to the CPUC on request during construction.</p>	<p>Verification of Construction General Permit coverage approval and the approved SWPPP(s) will be provided to the CPUC at least 30 days prior to start of construction.</p>	<p>Prior to Construction – Prepare an SWPPP.  During Construction – Implement the SWPPP.</p>	<p>Entire project area.</p>
<p><b>MM HY-2: Compliance with WDRs.</b> Work in waters of the state shall be conducted in conformance with WDRs obtained for the proposed project. Mitigation measures shall be implemented in accordance with WDRs, and they may include avoidance, reduction, or compensatory measures.</p> <p>Groundwater extracted as a result of dewatering during construction shall not be discharged to Waters of the State unless such activities are covered by a WDR. Extracted groundwater shall be disposed of in one of the following manners in the absence of a WDR:</p> <ul style="list-style-type: none"> <li>• Discharge to an upland area where it will not enter Waters of the State but would instead evaporate or infiltrate.</li> <li>• Use for dust control.</li> <li>• Use for irrigation water.</li> <li>• Use for other construction needs.</li> <li>• Dispose of at a licensed facility if water is suspected of being contaminated or degraded.</li> </ul>	<p>CPUC verifies that all work within waters of the state are conducted in conformance with WDRs, and that appropriate mitigation measures are implemented in accordance with WDRs.</p>	<p>During Construction</p>	<p>All areas where construction would occur within waters of the state.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM HY-3: Construction Drainage Plan.</b> SCE shall prepare and implement a Drainage Plan that ensures runoff during construction activities at the Mesa Substation site will not exceed drainage capacity of the storm water system and other drainage facilities. Measures that can be employed can include:</p> <ul style="list-style-type: none"> <li>Constructing the detention basin earlier in construction.</li> <li>Constructing temporary detention basins on site.</li> <li>Creating infiltration areas to limit runoff that enters the storm water system.</li> </ul> <p>SCE shall submit the plan to Monterey Park and CPUC for review and approval prior to beginning construction activities at the substation site.</p>	<p>SCE shall submit the plan to Monterey Park and CPUC for review and approval prior to beginning construction activities at the substation site.</p>	<p>Prior to Construction – Prepare a Drainage Plan.</p> <p>During Construction – Implement the Drainage Plan.</p>	<p>Mesa Substation site</p>
<p><b>MM HY-4: Detention Basin Design.</b> SCE shall design the detention basin on the proposed Mesa Substation site in accordance with the Los Angeles County Department of Public Works Hydrology Manual (LACDPW 2006). The Hydrology Manual contains techniques to calculate runoff flow rates and volumes based on Los Angeles County’s historic precipitation and runoff. As applicable, the detention basin shall be designed in accordance with the Los Angeles County Department of Public Works Low Impact Development Standards Manual (LACDPW 2014).</p>	<p>CPUC shall verify that the detention basin is designed in accordance with the Los Angeles County Department of Public Works Hydrology Manual prior to beginning construction of the proposed project.</p>	<p>Prior to Construction</p>	<p>Mesa Substation site</p>
<p><b>MM HY-5: Dam Failure Evacuation Training.</b> As part of the Worker Environmental Awareness Program, SCE shall train construction workers on evacuation routes in the event of dam failure. Workers to be trained shall include those located in the dam inundation areas of the Garvey Reservoir south dam, Eaton Canyon Dam, Garvey Reservoir north dam, and Santa Fe Dam.</p>	<p>CPUC shall verify that SCE trains all construction workers located in the dam inundation areas of the Garvey Reservoir south dam, Eaton Canyon Dam, Garvey Reservoir north dam, and Santa Fe Dam on evacuation routes in the event of dam failure prior to construction of the proposed project.</p>	<p>Prior to Construction</p>	<p>Work located within dam inundation areas of the Garvey Reservoir south dam, Eaton Canyon Dam, Garvey Reservoir north dam, and Santa Fe Dam.</p>
<p><del><b>MM HY-6: Dam Inundation Substation Protection.</b> SCE shall incorporate dam inundation measures into its substation at the design phase to reduce the potential for widespread outages and equipment damages in the event of failure of the south dam at Garvey Reservoir. Measures could include:</del></p> <ul style="list-style-type: none"> <li><del>Concrete perimeter wall and flood gates at entry ways;</del></li> <li><del>Elevation of key substation equipment above inundation levels; or</del></li> <li><del>Sealing of equipment buildings.</del></li> </ul>	<p><del>CPUC shall verify that dam inundation measures are incorporated in the substation at its design phase.</del></p>	<p><del>Prior to Construction</del></p>	<p><del>All project areas located within the inundation areas of the south dam at Garvey Reservoir.</del></p>
<p><b>Noise and Vibration</b></p>			
<p><b>MM NV-1: Noise Control Plan.</b> Prior to the start of construction, the applicant shall prepare a Noise Control Plan to ensure that project construction noise does not:</p> <ul style="list-style-type: none"> <li>Increase ambient noise levels by more than 10 dBA (8-hour <math>L_{eq}</math>), or</li> <li>Exceed the noise level specified in the applicable jurisdiction’s noise ordinance.</li> </ul> <p>The Noise Control Plan measures shall be selected based on <del>the specific equipment used, and activity conducted in specific locations, and proximity to sensitive noise receptors once known.</del> The applicant shall submit the Noise Control Plan to the CPUC at least 30 days prior to the start of construction for review <del>and approval.</del> <del>Measures that may be included in the Noise Control Plan to reduce noise levels by 10 dBA or to the noise level specified in the applicable jurisdiction’s noise ordinance are:</del> <del>shall include, but not be limited to, the following noise reduction and control measures:</del></p> <ul style="list-style-type: none"> <li><del>Temporarily and safely install and maintain an absorptive noise control barriers in the perimeter of construction sites and/or between stationary construction equipment and sensitive noise receptors when located within 200 feet of noise-intensive equipment operating</del></li> </ul>	<p>Verify identification of a Construction Relations Officer and mailing of notices at least 30 days prior construction. Review monthly reports to the CPUC.</p> <p>Verify implementation of noise control measures.</p>	<p>Prior to Construction – Prepare a Noise Control Plan.</p> <p>During Construction – Implement the Noise Control Plan.</p>	<p>Entire project area.</p>

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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p>more than 4 hours a day. The applicant shall notify all residents located within 50 feet of the absorptive barriers and ensure such barriers are installed in a safely manner.</p> <ul style="list-style-type: none"> <li>• Limit heavy equipment activity adjacent to residences or other sensitive receptors to the shortest possible period required to complete the work activity.</li> <li>• Ensure that proper mufflers, intake silencers, and other noise reduction equipment are in place and in good working condition.</li> <li>• Maintain construction equipment according to manufacturer recommendations.</li> <li>• Minimize unnecessary construction equipment idling.</li> <li>• Reduce noise from back-up alarms (alarms that signal vehicle travel in reverse) in construction vehicles and equipment by providing a layout of construction sites that minimizes the need for back-up alarms and use flagmen to minimize the time needed to back up vehicles.</li> <li>• When possible, use construction equipment specifically designed for low noise emissions (e.g., i.e., equipment that is powered by electric or natural gas engines instead of diesel or gasoline reciprocating engines). Electric engines have been reported to have lower noise levels than internal combustion engines.</li> <li>• Where practical, locate stationary equipment such as compressors, generators, and welding machines away from sensitive receptors or behind barriers.</li> </ul> <p>The Noise Control Plan shall detail the frequency, location, and methodology for noise modeling and monitoring prior to and during various construction and restoration activities to ensure that generated noise levels do not exceed 10 dBA above existing ambient noise levels, or the applicable jurisdiction noise standards. <u>These methods shall include monitoring noise levels at the boundary of construction areas and using industry-standard noise modeling techniques to predict noise levels at adjacent sensitive receptors. If modeled levels exceed the greater than 10 dBA above existing ambient noise or applicable ordinance threshold, noise monitoring will be conducted to verify model results.</u> The Noise Control Plan shall detail the actions and procedures that the applicant shall implement to mitigate impacts in the event that monitoring detects noise levels that have exceeded the criteria specified in this EIR. Noise level measurements shall be conducted in compliance with the City of Monterey Park, City of Montebello, City of Commerce, City of Bell Gardens, City of Pasadena, and Los Angeles County requirements, as applicable.</p> <p>The Noise Control Plan shall designate a Construction Relations Officer who is readily available to answer questions or respond to complaints during periods of any hours or days that construction or restoration is occurring. The applicant shall send pre-construction notifications to sensitive receptors located within 100 feet of construction activities at least 30 days prior construction. The notification shall include a phone number for the public to contact the Construction Relations Officer. Additionally, each construction site shall include clearly visible signs with the Construction Relations Officer's public phone number. The applicant shall submit monthly reports to the CPUC summarizing the complaints submitted to the Construction Relations Officer. The summary reports shall describe how each complaint was addressed, if and when it was resolved, and available contact information for the member of the public who submitted the complaint.</p>			



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APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>MM NSV-2: Compliance with Monterey Park Ordinance.</b> As soon as Mesa Substation is fully operational, the applicant shall conduct noise measurements to ensure that the operational noise levels from the substation transformers do not exceed the City of Monterey Park’s 50-dBA nighttime noise standard at the closest receptor. If the threshold is exceeded, the applicant shall implement engineering solutions, including, but not limited to, barrier walls around the transformer, sound absorbing panels, and/or noise cancellation methods until the project does not exceed the threshold. SCE must submit the noise measurements in the form of a memorandum to the CPUC within two weeks of measurement. Reports shall be submitted until the CPUC verifies that operation noise does not exceed the City of Monterey Parks’ 50-dBA nighttime threshold.</p>	<p>SCE must submit the noise measurements in the form of a memorandum to the CPUC within two weeks of measurement. Reports shall be submitted until the CPUC verifies that operation noise does not exceed the City of Monterey Parks’ 50-dBA nighttime threshold.</p>	<p>Post-construction</p>	<p>Mesa Substation site</p>
<p><b>MM NSV-3: Noise from Helicopter Operations.</b> For all construction activities that would include helicopter operations, SCE shall provide at least one week’s advance notice to all property owners within 660 feet of the proposed helicopter operation areas. The announcement would state that the use of helicopters is anticipated and would provide the start date, anticipated completion dates, hours of helicopter usage, and a telephone contact number for questions or complaints during construction. In addition, helicopters would maintain a height of at least 500 feet when passing over residential areas, as well as a lateral distance of at least 500 feet from all schools and hospital buildings, except when they are at construction areas or actively assisting with construction activities.</p>	<p>The CPUC shall verify that notice to all property owners within 660 feet of the proposed helicopter operation areas is provided at least one week prior to helicopter operation.</p>	<p>Prior to Construction – provide notice at least 7 days prior to helicopter operation.</p>	<p>All project areas in which helicopter operations would occur.</p>
<p><b>MM NSV-4: Positioning of Helicopter Landing and Takeoff Areas.</b> SCE shall position helicopter landing and takeoff areas in Staging Yards 1, 2, 3, and 4 as far away as feasible from sensitive receptors, while not sacrificing the safety of helicopter operations due to hazards (e.g., transmission lines) in and around the staging yards. SCE must submit helicopter locations to the CPUC for review and approval at least 30 days prior to use of the helicopter location.</p>	<p>SCE must submit helicopter locations to the CPUC for review and approval at least 30 days prior to use of the helicopter location.</p>	<p>Prior to Construction</p>	<p>Helicopter take-off and landing areas.</p>
<p><b>MM NSV-5: Noise Notification and Coordination for Whittier Narrows Natural Area.</b> The applicant shall provide notice to the Whittier Narrows Natural Area at least 30 days prior to construction activities occurring in that area to alert nearby users of the construction activities and give them the opportunity to avoid the noise. The notice shall include dates, times, and descriptions of construction activities, in addition to directions to at least two comparable alternative nearby recreational facilities. The applicant shall also coordinate with the Whittier Narrows Natural Area to ensure that activities causing an increase in noise of over 10 dBA above ambient noise levels do not occur in the Whittier Narrows Natural Area during any planned special events. SCE shall provide documentation of the notice and coordination to the CPUC at least 20 days prior to construction.</p>	<p>SCE shall provide documentation of the notice and coordination to the CPUC at least 20 days prior to construction. The CPUC shall verify that notice has been provided to Whittier Narrows at least 30 days prior to construction and that coordination has occurred such that noise levels do not violate identified maximums.</p>	<p>Prior to Construction</p>	<p>Whittier Narrow Natural Area</p>
<p><b>Public Services and Utilities</b></p>			
<p><b>MM PS-1: Relocation Agreement with Municipal Metropolitan Water District.</b> Prior to construction that would take the MWD’s 72-inch Middle Feeder Pipeline out of service, the applicant shall reach an agreement with the MWD that will identify an alternate alignment that crosses the project site. This relocation agreement will enable the MWD to maintain reliable deliveries of treated water to its member agencies during relocation of the pipeline. SCE shall submit to the CPUC information from the MWD confirming that relocation of the pipeline will not result in inability to adequately serve customers. SCE shall submit this documentation at least 30 days prior to the pipeline being taken out of service.</p>	<p>SCE shall submit to the CPUC information from the MWD confirming that relocation of the pipeline will not result in inability to adequately serve customers. SCE shall submit this documentation at least 30 days prior to the pipeline being taken out of service.</p>	<p>Prior to Construction</p>	<p>Main project area.</p>

Table 8-1 ~~Draft~~ Final Mitigation Monitoring and Reporting Plan

APMs and Mitigation Measures	Monitoring Requirements	Timing	Location
<p><b>Traffic and Transportation</b></p> <p><del>MM TT-1: Peak Period Traffic Management Plan. SCE shall prepare and implement a Peak Period Traffic Management Plan, which may be included in a larger Transportation Management Plan for the project, and shall submit the Plan for CPUC review and approval at least 60 days prior to the start of construction. SCE shall submit the Peak Period Traffic Management Plan to the City of Montebello for review and comment prior to submitting to the CPUC for review and approval at least 60 days prior to the start of construction.</del></p> <p>The Plan shall identify specific measures that would reduce significant impacts to significantly affected intersections during the AM or PM peak hours (and during the specified phase) to less than significant levels, i.e., reduce the V/C increase resulting from the proposed project at each identified intersection to at or below the applicable threshold.</p> <p>Primary measures may include:</p> <ul style="list-style-type: none"> <li><del>• Limiting project-related heavy truck trips during peak hours (e.g., through scheduling deliveries outside of peak hours) so as to reduce trips occurring during peak hours; and</del></li> <li><del>• Limiting project construction worker vehicle trips during peak hours (e.g., through requiring carpooling) so as to reduce trips occurring during peak hours.</del></li> </ul> <p>Specific measures would be dependent on the final construction schedule and residing location of construction workers. Measures implemented as part of the plan shall not result in exceedance of applicable thresholds as described in this document at other impacted intersections. The plan shall also demonstrate that mitigation would not result in V/C to exceed thresholds at significantly impacted and non-significantly impacted roads and intersections.</p> <p><b>MM TT-1: Traffic Control Plan.</b> SCE shall prepare and implement a Traffic Control Plan consistent with the California Joint Utility Traffic Control Manual. SCE shall submit the Traffic Control Plan to Caltrans, the City of Monterey Park, and the City of Montebello for review and comment prior to submitting it to the CPUC for review and approval at least 60 days prior to the start of construction. The Traffic Control Plan shall include at a minimum, measures to ensure that:</p> <ol style="list-style-type: none"> <li>1. <u>Significant impacts to affected intersections during the AM or PM peak hours (and during the specified phase) are reduced to less than significant levels, i.e., reduce the V/C increase resulting from the proposed project at each identified intersection to at or below the applicable threshold. Primary measures may include:</u> <ul style="list-style-type: none"> <li>• <u>Limiting project-related heavy truck trips during peak hours (e.g., through scheduling deliveries outside of peak hours) so as to reduce trips occurring during peak hours; and</u></li> <li>• <u>Limiting project construction worker vehicle trips during peak hours (e.g., through requiring carpooling) so as to reduce trips occurring during peak hours.</u></li> </ul> </li> <li>2. <u>Significant impacts on SR 60, Greenwood Avenue, Loveland Street, and other nearby roadways are reduced to less than significant levels, i.e., reduce excessive interruptions in traffic flow resulting from temporary lane closures. Primary measures may include the following:</u> <ul style="list-style-type: none"> <li>• <u>SCE shall follow recommended considerations of the California Manual on Uniform Traffic Control Devices (CA MUTCD) latest edition, including proper signage, avoiding abrupt changes in geometrics, reducing traffic volume by using alternate routes scheduling work in off-peak hours, and complying with the Americans with Disabilities Act of 1990; and</u></li> <li>• <u>No work shall occur in Caltrans ROW until Caltrans issues the encroachment permit and approves the Traffic Control Plan.</u></li> </ul> </li> <li>3. <u>Significant impacts on Potrero Grande Drive, East Markland Drive, and other nearby roadways are reduced to less than significant levels, i.e., reduce hazards from slow moving vehicles entering and exiting the substation site. Primary measures may include the following:</u> <ul style="list-style-type: none"> <li>• <u>SCE shall post slow truck warning signage at appropriate locations during truck delivery and exit hours (e.g., along Potrero Grande Drive) when there is a possibility for slow trucks to exit the substation site to warn drivers of slow trucks exiting the substation site onto East Markland Drive and Potrero Grande Drive. Signage shall adhere to the CA MUTCD.</u></li> </ul> </li> </ol>	<p>A project-specific Traffic Management Plan is prepared by SCE according to provisions identified in this mitigation measure. SCE shall submit the plan for CPUC review and approval at least 60 days prior to the start of construction.</p>	<p>Prior to Construction – Prepare a Peak Period Traffic Management Plan.</p> <p>During Construction – Implement the Peak Period Traffic Management Plan.</p> <p><u>Post Construction – Repair Roadway Damage</u></p>	<p>Entire project area.</p>

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<p>4. <u>Significant impacts to affected roadways used by overweight or oversized vehicles are reduced to less than significant levels, i.e., repair to pre-project conditions any roads or road infrastructure (e.g., curbs and medians) damaged by project-related vehicle traffic. SCE shall comply with local permit conditions related to road damage to reduce impacts to less than significant. Primary measures may include the following:</u></p> <ul style="list-style-type: none"> <li>• <u>Documenting roadway conditions with photographs prior to the project along roads identified for heavy vehicle use in the project's Traffic Impact Analysis; and</u></li> <li>• <u>Taking photographs after the project and after any repairs that document restoration of pre-project pavement conditions. Documentation of original conditions and repair shall be submitted to the CPUC for review and verification within 30 days of repair completion.</u></li> </ul> <p>5. <u>Significant impacts to local emergency service providers are reduced to less than significant levels, i.e., maintain access for emergency service vehicles. Primary measures may include the following:</u></p> <ul style="list-style-type: none"> <li>• <u>Maintaining good public relations by assessing the needs of road users, abutting property owners, and emergency service providers (law enforcement, fire fighters, and medical medical) and cooperating with various news media;</u></li> <li>• <u>SCE shall notify local emergency service providers (i.e., police departments, ambulance services, and fire departments) of road closures at least one week prior to the closure;</u></li> <li>• <u>SCE shall notify the emergency service provider of the location, date, time, and duration of closure; and</u></li> <li>• <u>SCE shall also make provisions to maintain emergency vehicle access at all times in coordination with local emergency service providers, such as keeping metal plates available to cover open trenches.</u></li> </ul> <p>6. <u>Significant impacts to public transit, pedestrians, and bicyclists are reduced to less than significant levels, i.e., maintain safe conditions for pedestrians and bicyclists during construction of the proposed project. The project shall allow for safe vehicle, bicyclist, and pedestrian passage through construction zones in consideration of basic safety principles to route roadway users through construction zones using roadway geometrics and features and traffic control devices comparable to normal roadway situation as possible. The Traffic Control Plan's level of detail shall be appropriate to the complexity of the project work, and primary measures may include:</u></p> <ul style="list-style-type: none"> <li>• <u>Notifying LA Metro and other public transit providers of construction along existing public transit routes. SCE shall work with transit providers to temporarily relocate transit stops during construction, if needed;</u></li> <li>• <u>Providing pedestrians with reasonably safe, convenient, and accessible paths that replicate as nearly as possible the most desirable characteristics of the existing paths (e.g., maintaining sidewalk and bicycle access on at least one side of affected streets during construction);</u></li> <li>• <u>Laying out plans for notifications and a process for communication with affected transit riders, pedestrians, and bicyclists prior to the start of construction. Advance public notification shall include posting of notices and appropriate signage of construction activities. The written notification shall include the construction schedule, the exact location and duration of activities within each street (i.e., which transit routes, bus stops, sidewalks, and bicycle routes would be affected on which days and for how long), and a toll-free telephone number for receiving questions or complaints;</u></li> <li>• <u>Posting detour signs during construction of alternative routes for pedestrians and bicyclists, applying the CA MUTCD principles for proper marking, signing, and flagging; and</u></li> <li>• <u>Installing steel plates over open trenches in inactive construction areas to maintain existing bicycle and pedestrian access after construction hours.</u></li> </ul> <p>7. <u>Significant impacts to the Whittier Narrows park-and-ride lot are reduced to less than significant levels, i.e., maintain safe entrance and egress from the Santa Anita Avenue entrance. Primary measures may include the following:</u></p>			

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<ul style="list-style-type: none"> <li>SCE shall coordinate with Los Angeles County and the Whittier Narrows Recreation Area so that SCE can provide traffic control for two-way traffic at the Santa Anita Avenue entrance to the Whittier Narrows park-and-ride lot during the Durfee Avenue exit closure.</li> </ul> <p><u>In addition, the Traffic Control Plan shall ensure that:</u></p> <ul style="list-style-type: none"> <li>Acceptable levels of operation for all transportation modes are provided and routine day and night inspections of the plan's elements are implemented;</li> <li>Roadside safety is maintained during the life of the project to accommodate disabled vehicles, run-off-the-road incidents, and emergency situations; and</li> <li>Appropriate field workers and management personnel receive training appropriate to the job decisions each individual is required to make.</li> </ul> <p><u>Specific measures would depend on the final construction schedule and residing location of construction workers. Measures implemented as part of the plan shall not result in exceedance of applicable thresholds as described in this document at other impacted intersections. The plan shall also demonstrate that mitigation would not result in V/C to exceed thresholds at significantly impacted and non-significantly impacted roads and intersections. Roadway, highway, and lane closure plans shall be prepared and implemented as required and in coordination with the applicable local and Caltrans jurisdictions. Appropriate advance notifications shall be made to the affected jurisdictions and affected property owners; copies of all coordination and notification shall be provided to the CPUC.</u></p> <p><u>The plan shall describe locations and durations of:</u></p> <ul style="list-style-type: none"> <li>Full road closures</li> <li>Lane closures</li> <li>Bicycle lane closures</li> <li>Sidewalk or pedestrian path closures</li> <li>Transit stop closures</li> <li>Parking lot and Park-N-Ride lot closures</li> </ul> <p><u>To the extent that compliance with applicable permit requirements, e.g., obtaining required encroachment permits from Caltrans and/or other agencies with jurisdiction over work done within roadways, would reduce identified significant traffic impact(s) consistent with the performance standards set forth in MM TT-1, SCE may submit such permit(s) in lieu of addressing that impact or impacts in the Traffic Control Plan, subject to review and approval by the CPUC prior to the start of construction.</u></p>			
<p><del><b>MM TT-2: Road and Lane Closure Plan.</b> SCE shall develop a Road and Lane Closure Plan for the proposed project that outlines how SCE will handle road and lane closures to allow for safe vehicle, bicyclist, and pedestrian passage when road and lane closures occur. The Plan shall be prepared in coordination with local jurisdictions where road and lane closures would occur. Upon determination of the final construction schedule and precise locations and durations of road and lane closures, the Plan shall describe locations and durations of:</del></p> <ul style="list-style-type: none"> <li><del>Full road closures</del></li> <li><del>Lane closures</del></li> <li><del>Bicycle lane closures</del></li> <li><del>Sidewalk or pedestrian path closures</del></li> </ul> <p><del>Measures to be included in the Plan that would allow for safe vehicle, bicyclist, and pedestrian passage shall adhere to the California Manual on Uniform Traffic Control Devices. Potential measures include:</del></p> <ul style="list-style-type: none"> <li><del>Signage directing motorists, pedestrians, and bicyclists to an efficient, safe detour around the closure</del></li> <li><del>Flaggers and/or signage to halt traffic at road closures or direct traffic at lane closures and to allow traffic to pass when construction is halted</del></li> </ul>	<p>CPUC verifies that a Road and Lane Closure Plan is developed, and SCE coordinates with local jurisdictions where road and lane closures would occur.</p>	<p>Prior to Construction—Prepare a Road and Lane Closure Plan.</p> <p>During Construction—Implement the Road and Lane Closure Plan.</p>	<p>Roads or lanes that would be closed due to construction.</p>

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<ul style="list-style-type: none"> <li>• Requirements for notifications and a process for communication with affected residents and landowners prior to the start of construction.</li> <li>• Emergency service providers would be notified of the timing, location, and duration of construction activities.</li> <li>• Requirement that emergency vehicle access is maintained at all times.</li> </ul> <p>The Road and Lane Closure Plan can be included as part of a Transportation Management Plan for the project.</p>			
<p><b>MM TT-3: Highway Closure Plan.</b> SCE shall prepare a Highway Closure Plan to include in its encroachment permit application for crossings of SR-60 that require closure or partial closure of SR-60. The Highway Closure Plan shall:</p> <ul style="list-style-type: none"> <li>• Specify that partial and complete closures of SR-60 are prohibited during peak and daytime (5 a.m. to 10 p.m.) hours.</li> <li>• Require that SCE adhere to Caltrans' requirements regarding signage to notify motorists of the impending closure.</li> <li>• Map potential detours for SR-60 traffic.</li> </ul> <p>The measures in the plan shall minimize delays to SR-60 traffic. <del>The applicant shall consult with the City of Monterey Park and the City of Montebello in development of the Highway Closure Plan and this plan shall be subject to review and comment by the City. No work shall occur in Caltrans right-of-way until Caltrans issues the encroachment permit and approves the Highway Closure Plan.</del></p>	<p>The CPUC shall verify that the measures in the Highway Closure Plan are adhered to and that no work shall occur in the Caltrans ROW until Caltrans issues the encroachment permit.</p>	<p>Prior to Construction—Prepare a Highway Closure Plan.</p> <p>During Construction—Implement the Highway Closure Plan.</p>	<p>Crossings of SR-60 that require closure or partial closure of SR-60.</p>
<p><b>MM TT-24: Helicopter Lift Plan.</b> SCE's helicopter contractor shall coordinate with FAA and obtain FAA-required approvals for helicopter operations. SCE's contractor's submittal shall include a Helicopter Lift Plan for operations within 1,500 feet (457 meters) of a congested area or within 1,500 feet (457 meters) of residences in compliance with 14 CFR 133.33, which requires that flights be conducted so emergency landings and release of external load can be accomplished without safety risks to people or property when operating over congested areas. Measures may include:</p> <ul style="list-style-type: none"> <li>• Designating who is responsible for equipment inspections</li> <li>• Communication procedures</li> <li>• Establishment of exclusion zones where pedestrians will not be allowed</li> <li>• Training of personnel in safety requirements and procedures</li> </ul> <p>The Plan and record of FAA approval shall be provided to the CPUC prior to commencing helicopter operations.</p>	<p>The Plan and record of FAA approval shall be provided to the CPUC prior to commencing helicopter operations.</p>	<p>Prior to Construction</p>	<p>Areas where helicopters will be used within 1,500 feet of residences.</p>
<p><b>MM TT-35: FAA No-Hazard Determination.</b> SCE shall obtain a determination of no-hazard from the FAA when notification under 14 CFR 77 is required for:</p> <ul style="list-style-type: none"> <li>• Use of construction equipment, such as cranes; and</li> <li>• Installation of structures, such as lattice steel towers.</li> </ul> <p>SCE shall provide documentation of the FAA finding to the CPUC prior to the use of equipment or installation of structures that require notification under 14 CFR 77.</p>	<p>SCE shall provide documentation of the FAA finding to the CPUC prior to the use of equipment or installation of structures that require notification under 14 CFR 77.</p>	<p>Prior to Construction</p>	<p>All project areas where construction equipment, such as cranes, and structures, such as steel lattice towers, are being installed.</p>
<p><b>MM TT-6: Slow Truck Warnings.</b> During truck delivery and exit hours, SCE shall post signage at appropriate locations (e.g., along Potrero Grande Drive) when there is a possibility for slow trucks to exit the substation site to warn drivers of slow trucks exiting the Substation site onto East Markland Drive and Potrero Grande Drive. Signage shall adhere to the California Manual on Uniform Traffic Control Devices.</p>	<p>CPUC shall ensure that SCE posts signage at appropriate locations.</p>	<p>During Construction</p>	<p>Any work area where there is a possibility for slow trucks to exit the substation site.</p>
<p><b>MM TT-7: Road Damage Repair.</b> SCE shall repair to pre-project conditions any roads damaged by project vehicle traffic within 60 days of completion of construction. SCE shall document roadway conditions with photographs prior to the project along roads identified for heavy vehicle use in the project's Traffic Impact Analysis. SCE shall also take photographs after the project and after any repairs that document restoration of pre-project pavement conditions. Documentation of original conditions and repair shall be submitted to the CPUC for review and verification within 30 days of repair completion.</p>	<p>Documentation of original conditions and repair shall be submitted to the CPUC for review and verification within 30 days of repair completion.</p>	<p>Prior to Construction—Document pre-project conditions.</p> <p>Post construction—Repair roadway damage.</p>	<p>Any roads damaged by project vehicle traffic.</p>

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<p><b>MM TT-8: Emergency Service Provider Notification.</b> SCE shall notify local emergency service providers (i.e., police departments, ambulance services, and fire departments) of road closures at least 1 week prior to the closure. SCE shall notify the provider of the location, date, time, and duration of closure. SCE would also make provisions to maintain emergency vehicle access at all times in coordination with local emergency service providers, such as keeping metal plates available to cover open trenches.</p>	<p>The CPUC verifies that SCE has notified all local emergency service providers of road closures at least one week prior to the closure. CPUC also verifies that emergency vehicle access is maintained at all times.</p>	<p>During Construction</p>	<p>All project areas where road closures would occur.</p>
<p><b>MM TT-9: Public Transit, Pedestrian, and Bicyclist Plan.</b> SCE shall develop and implement a Public Transit, Pedestrian, and Bicyclist Plan with the goal of maintaining safe conditions for pedestrians and bicyclists during construction of the proposed project. Safe conditions include detours for closed sidewalks and closed bicycle lanes as well as relocation of transit stops to areas not affected by construction activities. The control measures included in the Plan shall be based on final plans for closures of sidewalks and bicycle lanes and transit stops. The measures shall be consistent with those published in the California Joint Utility Traffic Control Manual (California Inter-Utility Coordinating Committee 2010). <del>The applicant shall consult with the City of Monterey Park, and the City of Montebello in development of the Public Transit, Pedestrian, and Bicyclist Plan and this plan shall be subject to review and comment by the Cities for activities within the Cities' jurisdictions.</del> The Plan should include, at a minimum, the measures listed below:</p> <ul style="list-style-type: none"> <li>• <del>Notify LA Metro and other public transit providers of construction along existing public transit routes. The applicant would work with transit providers to temporarily relocate transit stops during construction, if needed.</del></li> <li>• <del>Provide pedestrians with reasonably safe, convenient, and accessible paths that replicate as nearly as possible the most desirable characteristics of the existing paths (i.e., maintaining sidewalk and bicycle access on at least one side of affected streets during construction).</del></li> <li>• <del>Layout plans for notifications and a process for communication with affected transit riders, pedestrians, and bicyclists prior to the start of construction. Advance public notification shall include posting of notices and appropriate signage of construction activities. The written notification shall include the construction schedule, the exact location and duration of activities within each street (i.e., which transit routes, bus stops, sidewalks, and bicycle routes would be affected on which days and for how long), and a toll-free telephone number for receiving questions or complaints.</del></li> <li>• <del>Post detour signs during construction of alternative routes for pedestrians and bicyclists.</del></li> <li>• <del>Install steel plates over open trenches in inactive construction areas to maintain existing bicycle and pedestrian access after construction hours.</del></li> </ul>	<p>The CPUC verifies that SCE develops and implements the Public Transit, Pedestrian, and Bicyclist Plan, and the control measures in the Plan are consistent with the California Utility Traffic Control Manual.</p>	<p>Prior to Construction—Develop a Public Transit, Pedestrian, and Bicyclist Plan.</p> <p>During Construction—Implement the Public Transit, Pedestrian, and Bicyclist Plan.</p>	<p>Entire project area.</p>
<p><b>MM TT-10: Whittier Narrows Park and Ride Lot.</b> If proposed project work on Telecommunications Route 3 would result in temporary closure of the Whittier Narrows park and ride lot exit to Durfee Avenue, SCE shall coordinate with Los Angeles County and the Whittier Narrows Recreation Area so that SCE can provide traffic control for two-way traffic at the Santa Anita Avenue entrance to the Whittier Narrows park and ride lot during the Durfee Avenue exit closure.</p>	<p>CPUC verifies that SCE coordinates with Los Angeles County and the Whittier Narrows Recreation Area to provide traffic control during the Durfee Avenue exit closure.</p>	<p>During Construction</p>	<p>Whittier Narrows park and ride lot</p>
<p><b>MM TT-414: Pasadena City College Community Education Center Parking.</b> If proposed project work at the Goodrich Substation would result in parking spot closures at the <u>Pasadena City College Community Education Center parking lot</u>, SCE shall coordinate scheduled closures with the <u>Pasadena City College Community Education Center on the following:</u> <del>and shall obtain a letter from the Community Education Center that states:</del></p> <ul style="list-style-type: none"> <li>• The dates of parking spot closures; <u>and</u></li> <li>• The number of parking spots that would be closed; <del>and</del></li> <li>• <del>That the Community Education Center concurs that there will be sufficient parking spots to accommodate SCE's work and the Community Education Center's parking needs.</del></li> </ul> <p>SCE shall submit the letter <u>documentation</u> to the CPUC 30 days prior to Community Education Center parking spot closure <u>demonstrating coordination with the Pasadena City College Community Center and concurrence from the Pasadena City College Community Education Center that there will be sufficient parking spots to accommodate SCE's work and the Pasadena City College Community Education Center's parking needs.</u></p>	<p>SCE shall submit the letter to the CPUC 30 days prior to Community Education Center parking spot closure.</p>	<p>During Construction</p>	<p>Community Education Center parking lot</p>