

APPENDIX C

Construction Mitigation Measures Tracking Table

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CONSTRUCTION MITIGATION MEASURES TRACKING TABLE

Table C-1 Construction Mitigation Measures and APMs

Category	Measure Requirement/Application
APM/Mitigation Measure Title	Mitigation Measure Aesthetics-2: Retaining Wall Screening
Measure Text	Retaining walls shall use blocks that accommodate plants along the wall face. The block color shall be similar in hue and value to the native soil or up to 2 shades darker. All retaining walls shall be planted with native, drought tolerant vegetation common to the area. SDG&E shall submit a retaining wall design and vegetation plan to the CPUC for review and approval. The retaining wall design shall show the planting pockets in the blocks and the color of the blocks for all project retaining walls. SDG&E shall not order or procure the blocks until CPUC approves the design and color of the blocks. The vegetation plan shall include a list of all species to be planted in the retaining walls and the container size for the plantings. Vegetation planted in the retaining walls shall be maintained and watered as needed until plant material is established. Plants that die shall be replaced with similar specimens. SDG&E shall monitor the vegetation planted in the retaining wall pockets for three years or until plants are fully established.
Location	Retaining walls
Monitoring/Reporting Action	Verify that the Retaining Wall Screening plans are properly implemented.
Effectiveness Criteria	Retaining wall and vegetation are implemented in accordance with the approved plan, and vegetation is maintained to visually screen the wall.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Aesthetics-3: Facilities Color Treatment Plan
Measure Text	<p>SDG&E shall prepare a Facilities Color Treatment Plan describing the application of colors to all new structures. The proposed color treatments shall minimize visual intrusion and contrast by matching the new structure’s color to the adjacent existing structures and surroundings. Ancillary structures shall use colors that are congruent with the landscape in which they are proposed. Color treatments shall reduce new structure contrast making new structures less noticeable. The Plan shall be submitted to CPUC for review and approval at least 90 days prior to ordering the first structure to be color treated. The Facilities Color Treatment Plan shall include:</p> <ul style="list-style-type: none"> • Specification, and 11 x 17 inch color simulations at real-world scale, of the treatment proposed for use on project structures from identified KOPs. Structures include TSPs, retaining wall faces, and fences for cable poles and staging areas • List of each major project structure, specifying the color and finish proposed • Two sets of brochures and/or color chips for the proposed color for each project element • A detailed schedule for completion of the treatment • A procedure to ensure proper treatment maintenance for the life of the project

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	SDG&E shall not specify to the vendors the treatment of any structures treated during manufacture or perform the final treatment on any structures treated onsite during construction until SDG&E receives notification of approval of the Color Treatment Plan by the CPUC.
Location	All project structures
Monitoring/Reporting Action	Verify that the Facilities Color Treatment Plan is implemented.
Effectiveness Criteria	Structures use colors congruent with the landscape in which they are erected, and color treatments reduce new structure contrast.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Aesthetics-4: Cable Pole Screening
Measure Text	Vegetation planted around the cable pole shall be maintained and watered as needed until plant material is established. Plants that die shall be replaced with similar specimens. SDG&E shall monitor the vegetation around the cable pole until all container plants are fully established.
Location	Cable pole locations (Structures P5 and CC MM)
Monitoring/Reporting Action	CPUC verifies that SDG&E monitors vegetation for a minimum of three years.
Effectiveness Criteria	The cable poles are visually screened with drought-tolerant vegetation.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Aesthetics-5: Nighttime Lighting
Measure Text	SDG&E shall ensure that all nighttime lighting used for construction is shielded, pointed down, and directed away from surrounding properties and adjacent natural habitats.
Location	Nighttime construction areas
Monitoring/Reporting Action	Verify that nighttime lighting is pointed down.
Effectiveness Criteria	Nighttime lighting is pointed down and directed away from surrounding properties and natural habitats.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM AES-1: Visual Screening

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Measure Text	Where staging yards are visible to the public, opaque mesh or slats (or equivalent material) will be installed along the fence that will screen view of the staging yards from public vantage points, such as roads and residences.
Location	Staging yards visible to the public.
Monitoring/Reporting Action	Verify screening has been implemented at all staging yards.
Effectiveness Criteria	Staging yards are effectively screened from view at public vantage points.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Air-1: RAQS Architectural Coating Standards
Measure Text	All coatings, sealants, adhesives, solvents, asphalt, and architectural coatings shall be in conformance with CARB's Suggested Control Measure for Architectural Coatings, and with SDAPCD's VOC Rules 61, 66.1, 67.0, and 67.17.
Location	All coatings, sealants, adhesives, solvents, asphalt, and architectural coatings applied by SDG&E or SDG&E's contractors during construction.
Monitoring/Reporting Action	Verify that materials conform with CARB's Suggested Control Measure for Architectural Coatings, and with SDAPCD's VOC Rules 61, 66.1, 67.0, and 67.17.
Effectiveness Criteria	Approved materials are used.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Air-3: Dust Control Management Plan
Measure Text	<ol style="list-style-type: none"> 1. No person shall engage in construction or demolition activity in a manner that discharges visible dust emissions into the atmosphere beyond the property line for a period or periods aggregating more than 3 minutes in any 60 minute period; and 2. Visible roadway dust as a result of active operations, spillage from transport trucks, erosion, or track-out/carry-out shall: <ol style="list-style-type: none"> a. Be minimized by the use of any of the following or equally effective track-out/carry-out and erosion control measures that apply to the project or operation: track-out gates or gravel beds at each egress point, wheel-washing at each egress during muddy conditions, soil binders, chemical soil stabilizers, geotextiles, mulching, or seeding; and for outbound transport trucks: using secured tarps or cargo covering, watering, or treating of transported material; and b. Be removed at the conclusion of each work day when active operations cease, or every 24 hours for continuous operations. If a street sweeper is used to remove any track-out/carry out, only PM10-efficient street sweepers certified to meet the most current South

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	<p>Coast Air Quality Management District Rule 1186 requirements shall be used. The use of blowers for removal of track-out/carry-out is prohibited under any circumstances.</p> <p>Measures to comply with visible dust emissions restrictions could include:</p> <ul style="list-style-type: none"> • Watering or applying soil stabilizers to areas with loose dust • Ceasing earthmoving activities when sustained (i.e., a period or periods of time aggregating more than 3 minutes in any 60 minute period) wind speed exceeds 20 miles per hour • Covering soil stockpiles
Location	All areas of earth disturbance and all roadways where materials transported
Monitoring/Reporting Action	Verify that visible dust does not leave the property line for more than 3 minutes in any 60-minute period.
Effectiveness Criteria	Visible dust is controlled.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Air-4: Use of Tier 3 Equipment
Measure Text	<p>SDG&E shall use 2007 and newer diesel-powered equipment and use available construction equipment that meet a minimum of EPA Tier 3 emission standards. Equipment with an engine not compliant with the Tier 3 standard will be allowed only when the applicant (SDG&E) has performed and documented a good faith effort (due diligence) to locate Tier 3 or newer equipment in the Project vicinity (defined as within 200 miles of the Project site). Use of older equipment would be allowable following due diligence and associated documentation that no Tier 3 or newer equipment (or emissions equivalent retrofit equipment) is available for a particular equipment type. Each case shall be documented with written correspondence (or signed statement and electronic mail) by the appropriate construction contractor, along with documented correspondence from at least two construction equipment rental firms providing equipment within the defined project vicinity (200 miles). Documentation of due diligence shall be submitted to CPUC staff before the non-Tier 3 compliant equipment is used on the project. The applicant shall submit as part of the weekly CPUC compliance report a log of all construction equipment used on the project including engine identification number and certified tier specification. The applicant shall provide information to CPUC on any equipment that may be used on the project prior to its use.</p>
Location	All work areas
Monitoring/Reporting Action	SDG&E submits weekly logs of vehicle usage. The CPUC reviews the weekly equipment logs.
Effectiveness Criteria	Diesel construction equipment rated greater than 50 hp will be 2007 and newer or of Tier 3 or higher efficiency.
Status	
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Category	Measure Requirement/Application
APM/Mitigation Measure Title	APM AIR-2: Vehicle and Equipment Exhaust Controls
Measure Text	All equipment shall be properly tuned and maintained in accordance with manufacturer specifications. An Idling Restrictions Program shall be implemented. SDG&E or its contractor shall maintain and operate construction equipment to minimize exhaust emissions. During construction, trucks and vehicles in loading and unloading queues shall have their engines turned off after 5 minutes when not in use. Construction activities shall be phased and scheduled to avoid emissions peaks, and equipment use shall be curtailed during second-stage smog alerts. This will also result in a significant decrease in impacts from Diesel Particulate Matter. All areas where construction vehicles are typically parked, staged, or operating shall be visibly posted with signs stating "No idling in excess of 5 minutes." Catalytic converters shall be installed on all heavy construction equipment, where feasible. To the extent possible, power shall be obtained from power or distribution poles (i.e., from the electrical grid) rather than through the use of large generators on-site. Deliveries shall be scheduled during off-peak traffic periods to reduce trips during the most congested periods of the day, where feasible. SDG&E would encourage carpooling to reduce worker trips where feasible. Construction sites shall be posted with signs providing a contact number for complaints. All complaints shall be addressed in a timely and effective manner.
Location	All equipment use areas
Monitoring/Reporting Action	Verify that equipment is not idling for longer than 5 minutes, and signs are properly posted.
Effectiveness Criteria	Equipment does not idle for more than 5 minutes, and all complaints are addressed in a timely and effective manner.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-1a: General Field Personnel Behavior Requirements
Measure Text	All field personnel shall abide by the following general behavior requirements: <ul style="list-style-type: none"> • Vehicles must be kept on approved access roads. A 15 mile-per-hour speed limit shall be observed on dirt access roads. Vehicles shall be turned around in established or designated areas only. • No wildlife, including rattlesnakes, may be harmed, except to protect life and limb. • Firearms shall be prohibited except for those used by security personnel. • Feeding of wildlife shall not be allowed. • SDG&E personnel shall not bring pets to work areas in order to minimize harassment or killing of wildlife and to prevent the introduction of destructive domestic animal diseases to native wildlife populations. • Parking or driving underneath oak trees shall not be allowed in order to protect root structures except in established traffic areas. • Plant or wildlife species shall not be collected for pets or any other reason.

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	<ul style="list-style-type: none"> • Littering shall not be allowed. SDG&E shall not deposit or leave any food or waste in any work area. • Wildfires shall be prevented or minimized by exercising care when driving and by not parking vehicles where catalytic converters can ignite dry vegetation. In times of high fire hazard, trucks shall carry water and shovels, or fire extinguishers in the field. The use of shields, protective mats, or other fire prevention methods shall be used during grinding and welding to prevent or minimize the potential for fire. Care shall be exhibited when smoking in permitted areas. Smoking is not permitted within the City of San Diego Open Space. • Field crews shall refer environmental issues including wildlife relocation, dead or sick wildlife, hazardous waste, or questions about avoiding environmental impact to a biologist(s) approved by the CPUC and the USFWS and CDFW. Other CPUC- and USFWS- or CDFW-biologists or experts in wildlife handling may need to be brought in for assistance with wildlife relocations.
Location	All work areas
Monitoring/Reporting Action	Verify that personnel follow the requirements.
Effectiveness Criteria	All personnel follow the standards specified in the measure.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-1b: Environmental Training Program
Measure Text	<p>An environmental training program shall be developed and presented to all crew members prior to the beginning of all project construction. The training shall describe special-status plant and wildlife species and sensitive habitats that could occur within project work areas, protection afforded to these species and habitats, and avoidance and minimization measures required to avoid and/or minimize impacts from the project. Penalties for violations of environmental laws shall also be incorporated into the training session. Each crewmember shall be provided with an informational training handout and a decal to indicate that he/she has attended the training. The roles and responsibilities of CPUC-, USFWS-, and CDFW-approved biologist(s) and other environmental representatives shall be identified in the Mitigation Monitoring, Compliance, and Reporting Program and discussed during the training. All new construction personnel shall receive this training before beginning work on this project.</p> <p>A copy of the training and training materials shall be provided to CPUC for review and approval at least 30 days prior to the start of construction. Training logs and sign-in sheets shall be provided to CPUC on a monthly basis. As needed, in-field training shall be provided to new on-site construction personnel by the environmental compliance supervisor or a qualified individual who shall be identified by SDG&E's Project Biologist, or initial training shall be recorded and replayed for new personnel.</p>
Location	All work areas

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Monitoring/Reporting Action	Verify that all crew members have received training through review of training logs and worker decals.
Effectiveness Criteria	All workers have received a CPUC-approved environmental training program prior to working on the site.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-1c: Pre-Activity Surveys
Measure Text	<p><i>Applicable to construction:</i></p> <p>In order to ensure that habitats are not inadvertently impacted, the CPUC-, USFWS-, and CDFW-approved biologist shall flag boundaries of habitat which must be avoided. When necessary, the CPUC-, USFWS-, and CDFW-approved biologist shall also demark appropriate equipment laydown areas, vehicle turn around areas, and pads for placement of large construction equipment such as cranes, bucket trucks, augers, etc. When appropriate, the CPUC-, USFWS-, and CDFW-approved biologist shall make office and/or field presentations to field staff to review and become familiar with natural resources to be protected on a project site-specific basis. Avoidance of habitat for thread-leaved brodiaea is prioritized over minimization and mitigation.</p> <p>SDG&E shall maintain a library of special-status plant species locations, known to SDG&E, occurring within the project BSA. "Known" means a verified population either extant or documented using record data. Information on known sites may come from a variety of record data sources including local agency Habitat Conservation Plans, pre-activity surveys, or biological surveys conducted for environmental compliance of the project. Plant inventories shall be consulted as part of pre-activity survey procedures.</p>
Location	Habitats for avoidance
Monitoring/Reporting Action	Verify that sensitive habitats are flagged for avoidance.
Effectiveness Criteria	Workers and equipment avoid sensitive habitats including habitat for thread-leaved brodiaea and vernal pools. SDG&E maintains a database of special-status plant locations.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-1d: Maintenance, Repair, and Construction of Facilities
Measure Text	<p>SDG&E shall implement the following measures pertaining to maintenance, repair, and construction of facilities:</p> <ol style="list-style-type: none"> 1. Maintenance, repair and construction activities shall be designed and implemented to minimize new disturbance, erosion on manufactured and other slopes, and off-site degradation from accelerated sedimentation, and to reduce maintenance and repair costs. 2. <i>See operation and maintenance.</i>

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	<p>3. Erosion shall be minimized on access roads and other locations primarily with water bars. The water bars are mounds of soil shaped to direct flow and prevent erosion.</p> <p>4. Hydrologic impacts shall be minimized through the use of state-of-the-art technical design and construction techniques to minimize ponding, eliminate flood hazards, and avoid erosion and siltation into any creeks, streams, rivers, or bodies of water by use of Best Management Practices.</p> <p>5. <i>See pre-construction.</i></p> <p>6. During repair or maintenance of facilities in a streambed, water may be temporarily diverted as long as the natural drainage patterns are restored after disturbance to minimize the impact of the disturbances and to help re-establish or enhance the native habitat. Erosion control during construction in a streambed in the form of intermittent check dams and culverts shall also be considered to prevent alteration to natural drainage pattern and prevent siltation.</p> <p>7. Impact to wetlands shall be minimized by avoiding pushing soil or brush into washes or ravines.</p> <p>8. During work on facilities, all trucks, tools, and equipment shall be kept on existing access roads or cleared areas, to the extent possible.</p> <p>9. <i>See pre-construction.</i></p> <p>10. <i>See operation and maintenance.</i></p> <p>11. <i>See operation and maintenance.</i></p> <p>12. In the event that a special-status plant species is located within the area required to be cleared for fire protection purposes, SDG&E shall notify the USFWS (for ESA-listed plants), and CDFW (for CESA-listed plants), in writing, of the plant's identity and location and of the proposed activity, which will result in a take of such plant. Notification shall occur ten working days prior to such activity, during which time USFWS or CDFW may remove such plant(s). If neither USFWS nor CDFW have removed such plant(s) with the ten working days following the notice, SDG&E may proceed to complete its fire clearing and cause a take of such plant(s) consistent with SDG&E's take coverage for the ESA- or CESA-listed plants. When fire clearing is necessary in instances other than around power poles, and the potential for impacts to special-status species exist, SDG&E shall follow the pre-activity survey and notification procedures in Mitigation Measure Biology-1c, above. Wire stringing shall be allowed year-round in sensitive habitats if the conductor is not allowed to drag on the ground or in brush and vehicles remain on access roads.</p> <p>13. Maintenance of cut and fill slopes shall consist primarily of erosion repair. In situations where revegetation would improve the success of erosion control, planting or seeding with native hydroseed mix may be done on slopes.</p> <p>14. <i>See operation and maintenance.</i></p> <p>15. <i>See pre-construction.</i></p> <p>16. No new facilities and activities shall be planned that would disturb vernal pools, their watersheds, or impact their natural regeneration. Continued historic maintenance of existing infrastructure utilizing existing access roads shall be allowed to continue in areas containing vernal pool habitat, provided no such habitat located within these roads</p>

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	<p>would be impacted by project activities. New construction of overhead infrastructure which spans vernal pool habitats shall be allowed as long as the placement of facilities or the associated construction activities in no way impact the vernal pools.</p> <p>17. If any previously unidentified dens, burrows, nests, or special-status plants are located on any project site after the pre-activity survey, the CPUC-, USFWS-, and CDFW-approved biologist shall be contacted. The CPUC-, USFWS- and CDFW-approved biologist shall determine how to best avoid or minimize impacting the resource by considering such methods as project or work plan redevelopment, equipment placement or construction method modification, seasonal/time of day limitations, etc.</p> <p>18. The CPUC-, USFWS-, and CDFW-approved biologist(s) shall conduct monitoring as recommended in the pre-activity survey report. At completion of work, the CPUC-, USFWS-, and CDFW-approved biologist(s) shall check to verify compliance, including observing that flagged areas have been avoided and that reclamation has been properly implemented. Also at completion of work, the CPUC-, USFWS-, and CDFW-approved biologist(s) shall be responsible for removing all habitat flagging from the construction site.</p> <p>19. <i>See operation and maintenance.</i></p> <p>20. Supplies or equipment where wildlife could hide (e.g., pipes, culverts, pole holes) shall be inspected prior to moving or working on them to reduce the potential for injury to wildlife. Supplies or equipment that cannot be inspected, or from which animals cannot be removed, shall be capped or otherwise covered at the end of each work day to avoid animal entrapment. Old piping or other supplies that have been left open shall not be capped until inspected and any species found in them allowed to escape. Ramping shall be provided in open trenches when necessary. If an animal is found entrapped in supplies or equipment, such as a pipe section, the supplies or equipment shall be avoided and the animal(s) left to leave on its own accord, except as otherwise authorized by the CPUC-, USFWS- and CDFW-approved biologist. Refer to Mitigation Measure 1a, Item 10 for wildlife relocations.</p> <p>21. All steep-walled trenches or excavations used during construction shall be inspected twice daily (early morning and evening) to protect against wildlife entrapment. If wildlife is located in the trench or excavation, the CPUC, USFWS-, and CDFW-approved biologist(s) shall be called immediately to remove it if it cannot escape unimpeded.</p> <p>22. Large amounts of fugitive dust could interfere with photosynthesis. Fugitive dust created during clearing, grading, earth-moving, excavation or other construction activities shall be controlled by regular watering. At all times, fugitive dust emissions will be controlled by limiting on-site vehicle speed to 15 miles per hour.</p> <p>23. <i>See operation and maintenance.</i></p>
Location	All work areas within or near natural habitats
Monitoring/Reporting Action	Verify that crews implement the requirements in the measure, including monitoring for special-status species and inspections of trenches and equipment for wildlife.
Effectiveness Criteria	All requirements included in the measure are implemented by crews during construction.

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APM/Mitigation Measure Title	Mitigation Measure Biology-1e: Maintenance of Access Roads
Measure Text	<p>Maintenance of access roads shall consist of:</p> <ol style="list-style-type: none"> 1. Repairing erosion by grading, adding fill, and compacting it. In each case of repair, the total area of disturbance shall be minimized by careful access and use of appropriately sized equipment. Repairs shall be done after pre-activity surveys conducted by the CPUC-, USFWS-, and CDFW-approved biologist(s). 2. Controlling vegetation through grading, which shall be used only where the vegetation obscures the inspection of facilities, access may be entirely lost, or the threat of facility failure or fire hazard exists. The graded access road width shall not exceed 12 feet on straight portions (radius turns may be slightly wider). 3. Maintenance work on access roads shall not expand the existing road bed. 4. Material for filling in road ruts shall never be obtained from the sides of the road, which contain habitat, without approval from CPUC-, USFWS-, and CDFW-approved biologist.
Location	SDG&E access roads
Monitoring/Reporting Action	Verify that road work grading/maintenance is conducted within the existing road width and does not expand the existing road bed.
Effectiveness Criteria	Road work/improvements do not expand the existing road width and do not affect adjacent roadway habitat areas.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-1g: Survey Work Protocols
Measure Text	<p>SDG&E shall implement the follow measures during survey work:</p> <ol style="list-style-type: none"> 1. Brush clearing for foot path or line-of-sight cutting shall not be allowed from February through September without prior approval from the CPUC-, USFWS-, and CDFW-approved biologist, who will ensure the brush clearing activity, does not adversely affect a special-status species or nesting birds. 2. SDG&E survey personnel shall keep vehicles on existing access roads. No clearing of brush shall be allowed from February through September without prior approval from the CPUC-, USFWS-, and CDFW-approved biologist, who will ensure the brush clearing activity, does not adversely affect a special-status species or nesting birds. <p>Hiking off roads or paths for survey data collection shall be allowed year round as long as other protocols are met.</p>
Location	Access routes and roads

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Monitoring/Reporting Action	Verify brush clearing on access routes and roads does not occur from February through September without prior approval. Verify vehicles are kept on access roads.
Effectiveness Criteria	Special-status species and nesting birds are not adversely affected by brush clearing activities or construction access.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-3: Weed Control Plan
Measure Text	<p>See <i>pre-construction table (Appendix B)</i> for information on weed control plan requirements.</p> <p>The Weed Control Plan shall including the following:</p> <ul style="list-style-type: none"> • A pre-construction weed inventory shall be conducted by surveying the entire ROW and areas immediately adjacent to the ROW where access permission is obtained, as well as at all ancillary facilities associated with the Project for weed populations that: (1) are considered by the San Diego County Agriculture Commissioner, MCAS Miramar (for ROW on MCAS Miramar), or City of San Diego (for ROW within the City of San Diego MHPA) as being a priority for control, (2) are weed populations that are rated High or Moderate for negative ecological impact in the California Invasive Plant Inventory (online) Database (Cal-IPC 2006 [and 2007 update]; http://www.cal-ipc.org/ip/inventory/index.php) or are weed species of concern to MCAS Miramar (for ROW on MCAS Miramar), and (3) aid and promote the spread of wildfires in San Diego County. Prolific wildfire promoting species such as brome grasses (<i>Bromus</i> sp.) shall be mapped but not targeted for control outside of Project impact areas. These populations shall be mapped and described according to density and area covered. These plant species shall be treated prior to construction or at a time when treatments would be most effective based on phenology according to control methods and practices for invasive weed populations included in the Weed Control Plan or required by MCAS Miramar or City of San Diego. • Weed control treatments shall include all legally permitted methods to be used in the following prioritized order: preventative, manual, mechanical, and chemical. All treatments shall be applied with the authorization of the, MCAS Miramar and City of San Diego as appropriate. The application of herbicides shall be in compliance with all state and federal laws and regulations under the prescription of a Pest Control Advisor (PCA) and implemented by a Licensed Qualified Applicator. Where manual and/or mechanical methods are used, disposal of the plant debris will be within an approved landfill area within San Diego County. The timing of the weed control treatment shall be determined for each plant species in consultation with the PCA for the Project, and with MCAS Miramar, and City of San Diego as appropriate, with the goal of controlling populations before they start producing seeds. For the lifespan of the project (i.e., as long as the project is physically present), long-term measures to control the introduction and spread of weeds in the project area shall be taken as follows.

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	<ul style="list-style-type: none"> - From the time construction begins until 2 years after construction is complete, annual surveying for new invasive weed populations and the monitoring of identified and treated populations shall be required in the survey areas described above. After this time, surveying for new invasive weed populations and monitoring of identified and treated populations shall be required at an interval of every two years. However, the treatment of weeds shall occur on a minimum annual basis, unless otherwise approved by the PCA, MCAS Miramar, and City of San Diego as appropriate. - During project construction and operation/maintenance, all seeds and straw materials shall be certified weed free, and all gravel and fill material shall also be certified weed free. - During project construction, vehicle and boot wash stations shall be provided.
Location	All work areas in natural habitat where weeds could establish
Monitoring/Reporting Action	Verify that weed control methods including treatments during construction and removal of vegetation are implemented consistent with the plan. Review annual weed inventory from SDG&E and verify that boot wash stations are in place.
Effectiveness Criteria	Weed populations in the project area do not exceed baseline weed populations.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-7: Mitigation for Bird Species
Measure Text	<p>This measure applies to all work areas in which any construction-related activities must be conducted during the nesting bird season (generally between January 15 and August 31, but may be earlier or later depending on species, location, and weather conditions).</p> <p>Nesting Bird Survey Requirements. If work is scheduled to occur during the avian nesting season, nesting bird surveys shall be conducted according to the following provisions:</p> <ol style="list-style-type: none"> 1. Nest surveys shall occur within 5 days prior to the start of ground-disturbing construction or vegetation trimming or removal activities. If there is no work in an area for 7 days, it shall be considered a new work area if construction, vegetation trimming, or vegetation removal begins again. 2. Surveys shall be conducted with sufficient survey duration and intensity of effort necessary for the identification of active nests, which is defined as once birds begin constructing, preparing, or using a nest for egg-laying. A nest is no longer an "active nest" if abandoned by the adult birds or once fledglings are no longer dependent on the nest". Surveys shall include nests of protected species within vegetation identified for removal and/or pruning, and within the following buffers of active work areas: 0.25-mile buffer for white-tailed kite; 500-foot buffer for other raptor species. 3. Surveys shall be conducted during locally appropriate dates for nesting seasons determined in consultation with the USFWS and CDFW; note that

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	<p>generally the season is between January 15 and August 31 but may be earlier or later depending on species, location, and weather conditions. Species-specific nesting seasons for some species are identified below.</p> <ol style="list-style-type: none"> 4. The surveys shall be conducted by a CPUC, USFWS-, and CDFW-approved qualified biologist. 5. Survey results shall be provided to CPUC, USFWS, and CDFW prior to initiating construction activities. 6. Work areas within which significant noise is not generated, such as work performed manually, by hand or on foot, and/or that would not cause significant disturbances to nesting birds (e.g., operating switches, driving on access roads, normally occurring activities at substations, and activities at staging and laydown areas) do not need to be surveyed prior to use. None of these activities shall result in physical contact with a nest. <p>Avoid Impacts on Nesting Birds. During the nesting season (generally between January 15 and August 31) raptor nests that are located within a 500-foot buffer from a work location shall be evaluated by a CPUC-, USFWS-, and CDFW-approved qualified biologist to determine whether the raptor nest is active. No trees with active raptor nests shall be removed during nesting season.</p> <p>No additional measures shall be implemented if active nests are more than the following distances from the nearest work areas: (a) 0.25 mile for white-tailed kite, (b) 500 feet for raptors, Coastal California gnatcatcher, and least bell's vireo, (c) 250 feet for passerine birds in open space areas, or (d) 150 feet for common (non-special-status) passerine birds in residential, commercial, and industrial areas. Buffers shall not apply to construction-related traffic using existing roads where the use of such roads is not limited to project-specific use (i.e., county roads, highways, farm roads, or other private roads). Where road use is limited to project-specific use, a buffer reduction or approval to drive through a buffer shall be obtained as described below under "Buffer Reduction".</p> <p>As appropriate, exclusion techniques may be used for any construction equipment that is left unattended for more than 24 hours to reduce the possibility of birds nesting in the construction equipment. An example of an exclusion technique is covering equipment with tarps.</p> <p>Buffer Reduction. The specified buffers from nesting birds may be reduced on a case-by-case basis if, based on compelling biological or ecological reasoning (e.g., the biology of the bird species, concealment of the nest site by topography, land use type, vegetation, level of project activity, and level of pre-existing disturbance on site), it is determined by a CPUC-, USFWS-, and CDFW-approved qualified biologist that implementation of a specified smaller buffer distance will still avoid nest abandonment and failure. This requirement includes buffer reductions or temporary buffer incursions for project-related use of roads where no stopping, standing, or other work activities shall occur in the buffer. Requests to reduce standard buffers or for temporary buffer incursions must be submitted to CPUC's independent biologist for review. Requests to reduce buffers must include:</p> <ul style="list-style-type: none"> • Species • Location • Pre-existing conditions present on site • Description of the work to be conducted within the reduced buffer

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Category	Measure Requirement/Application
	<ul style="list-style-type: none"> • Size and expected duration of proposed buffer reduction • Reason for the buffer reduction • Name and contact information of the CPUC-, USFWS-, and CDFW-approved qualified biologist(s) who requested the buffer reduction and will conduct subsequent monitoring • Proposed frequency and methods of monitoring necessary for the nest given the type of bird and surrounding conditions <p>CPUC’s independent biologist shall respond to SDG&E’s request for a buffer reduction (and buffer reduction terms) within 1 business day; if a response is not received, SDG&E may proceed with the buffer reduction until CPUC’s independent biologist can review and approve or deny the buffer reduction request. If SDG&E proceeds with a reduced buffer, nests shall be monitored on a daily basis during construction activities. If the buffer reduction request is denied, or if the qualified biologist determines that the nesting bird(s) are not tolerant of project activity, the specified buffer(s) listed above in this measure shall be implemented.</p> <p>Non-special-status species found building nests within the work areas after specific project activities begin may be tolerant of that specific project activity; however, the CPUC-, USFWS-, and CDFW-approved qualified biologist shall implement an appropriate buffer or other appropriate measures to protect the nest after taking into consideration the position of the nest, the bird species nesting on site, the type of work to be conducted, and duration of the construction disturbance. In these cases, the proposed buffer or other measures must be approved by CPUC’s independent biologist through the buffer reduction process outlined in this measure, if buffers are less than those specified in this measure. These nests shall be monitored on a daily basis and only during construction activities (no monitoring required during periods when no work is conducted) by a qualified biologist until the qualified biologist has determined that the young have fledged or construction ends within the work area (whichever occurs first). If the qualified biologist determines that the nesting bird(s) are not tolerant of project activity, the buffer outlined above in this measure shall be implemented.</p> <p>Specific Requirements for Coastal California Gnatcatcher and Least Bell’s Vireo. Where there is potential nesting habitat for the coastal California gnatcatcher or least Bell’s vireo within or adjacent to the MHPA, construction or operation/maintenance noise that exceeds the existing baseline noise level for a site by more than 3 dB hourly average or an hourly average threshold of 60 decibels, whichever is higher, shall be avoided during these species’ breeding seasons as follows: coastal California Gnatcatcher March 1 through August 15, and least Bell’s vireo March 15 through September 15. If avoidance is not possible during the breeding season, SDG&E shall work with a qualified acoustician approved by the CPUC, USFWS, and CDFW to develop and implement noise attenuation measures. The following measures shall be adhered to when project activities during the breeding season occur within riparian habitats that may support vireo and flycatcher:</p> <ul style="list-style-type: none"> • A biologist knowledgeable of vireo and/or flycatcher biology and ecology, approved by the CPUC, USFWS, and CDFW, will survey within the project impact footprint and a 300-foot buffer (within riparian scrub) before clearing vegetation or project construction to check for vireo and/or flycatcher nesting activity. Should an active nest be located in the impact footprint, then work will be suspended until the nest is vacated.

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Category	Measure Requirement/Application
	<ul style="list-style-type: none"> Biological buffers of at least 100 feet will be maintained adjacent to active nests. <p>For project activities during the breeding season adjacent to known occupied vireo and/or flycatcher nesting habitat, the biologist will monitor nesting bird activity. If the biologist determines that nesting birds are being disrupted by project activities, then work will be suspended until effective minimization measures (e.g., noise attenuation structures) developed in coordination with the CPUC, USFWS, and CDFW are in place or until after the breeding season is completed.</p> <p>Any lighting required during project activities will be shielded and directed away from vireo and/or flycatcher habitat to ensure that these areas are not artificially illuminated.</p> <p>Avian Protection on Power Lines. The project shall include collision-reducing techniques for transmission lines (based on Suggested Practices for Avian Protection on Power Lines: The State of the Art in 2012; Avian Power Line Interaction Committee [APLIC] 2012).</p> <p>Monitoring and Reporting. All nests with a reduced buffer shall be monitored on a daily basis during construction activities by a CPUC-, USFWS-, and CDFW-approved qualified biologist until the qualified biologist has determined that the young have fledged or until one week after construction ends within the reduced buffer/work area (whichever occurs first).</p> <p>Nest locations and exclusion buffers shall be mapped (using geographic information systems [GIS]) for all nests identified. This information shall be maintained in a database and shall be provided to CPUC, CDFW, and USFWS. A monthly written report shall be submitted to CPUC, CDFW, and USFWS for construction within a reduced buffer and shall include the following: information included in buffer reduction requests, work conducted within the work site, duration of work activities and related buffer reduction, information on nest success (eggs, young, and adults). No avian reporting shall be required for construction occurring outside of the nesting season and if construction activities do not occur within a reduced buffer during any calendar month. A final report shall be submitted to CPUC, CDFW, and USFWS at the end of each nesting season summarizing all avian-related monitoring results and outcomes for the duration of project construction. Nests located in areas of existing human presence and disturbance, such as in yards of private residences, or within commercial and or industrial properties, are likely acclimated to disturbance and do not need to be monitored, as determined by the CPUC-, USFWS-, and CDFW-approved qualified biologist and approved by CPUC’s independent biologist.</p>
Location	All work areas within the buffer of suitable habitat for nesting birds
Monitoring/Reporting Action	SDG&E shall provide nesting bird survey reports and prepare nesting bird logs as required by the measure. Verify that all nests/nesting activity is monitored in compliance with the measure. The CPUC shall review buffer reduction requests and nesting bird logs.
Effectiveness Criteria	SDG&E monitors nest activity and implements buffers as required in the measure to avoid nest abandonment as a result of construction activity.
Status	
Review/Approval	

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Category	Measure Requirement/Application
APM/Mitigation Measure Title	Mitigation Measure Biology-10: Mitigation for Special-Status Bat Species
Measure Text	<p>Prior to construction, suitable special-status bat habitat shall be assessed by a CPUC- and CDFW-approved, qualified biologist in trees within a 50-foot buffer of active work areas and in any structures with suitable special-status bat roosting habitat within a 100-foot buffer of active work areas (e.g., bridges). If an active special-status bat maternity roost is found in a tree or structure, the approved biologist shall define an appropriate limited or no-work exclusion buffer surrounding the special-status bat maternity roost. The limited work or exclusion areas shall remain in effect until the approved biologist determines that the work would no longer be a disturbance to the roost. A reduction in the buffer may be approved by the qualified biologist if there is a change in the type of work to be conducted.</p> <p>The limited work or exclusion buffer shall not apply to construction-related traffic using existing roads where the use of such roads is not limited to project-specific use (i.e., county roads, highways, farm roads, or other private roads) and shall not apply if the roost(s) is/are located in a residential, commercial, or industrial area.</p> <p>The boundaries of the limited or no work buffer shall be clearly marked by the approved biologist. The approved biologist shall inspect construction and roost sites when construction is occurring to ensure the integrity of the limited or no-work buffer and to ensure that the size of the buffer is adequate based on site conditions and construction-generated noise, dust, etc.</p> <p>All bat roosts documented during pre-construction surveys shall be reported through the MMCRP.</p>
Location	Work areas in proximity to bat roosting habitat
Monitoring/Reporting Action	Verify that appropriate buffers for bat roosting are marked in the field.
Effectiveness Criteria	No-work buffers are established and enforced around active special-status bat maternity roosts.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Biology-11: Reseeding for Fires
Measure Text	Should a fire occur and be determined by the CPUC's Consumer Protection and Safety Division or the California Department of Forestry and Fire Protection (Cal Fire) to be caused by the project, SDG&E shall reseed all natural areas — both public and private — that are burned as a result of the project-caused fire. Reseeding shall continue until the native vegetation community is reestablished. For example, arid chaparral requires a minimum 10-year period to reestablish an adequate seed bank and thereby resist vegetation type conversion. A reseeded plan shall be developed with input from Cal Fire, CPUC, and City of San Diego (for ROW within and adjacent to City of San Diego MHPA) based on a native seed mix. Seeds shall be raked into the soil to avoid seed consumption, and reseeded shall be carried out once to coincide with the rainy season (October 1 through April 1) to increase the likelihood of germination success. SDG&E shall provide a written

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	report documenting all reseeded activities to the CPUC. SDG&E shall make a good faith effort to obtain approval to reseed on private lands, as appropriate, and documentation of this good faith effort shall be submitted to the CPUC upon request. Specific reseeded requirements stipulated in this mitigation measure shall be subject to approval and modification by any public land-owning agency.
Location	Any area damaged by wildfire caused by project activities
Monitoring/Reporting Action	SDG&E provides a report documenting the reseeded activities. SDG&E monitors that vegetation is reestablished in burned areas. The CPUC verifies that SDG&E has reseeded areas that were burned by a project-caused fire.
Effectiveness Criteria	Areas that are burned by project-caused wildfire are successfully revegetated.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM BIO-1: Minimization of Impacts to Special-Status Plant
Measure Text	<p>Implementation of the following measures will ensure impacts to special-status plant species remain less than significant:</p> <ul style="list-style-type: none"> • The qualified biologist shall supervise construction activities within the vicinity of areas identified as having special-status plant species. • Impacts to special-status plant species shall be avoided to the maximum extent possible by installing fencing or flagging, marking areas to be avoided in construction areas, and limiting work in areas identified as having special-status plant species to periods of time when the plants have set seed and are no longer growing. Where impacts to special-status plant species are unavoidable, the impact shall be quantified and compensated through off-site land preservation, plant salvage, transplantation, or other appropriate methods as determined by the qualified biologist. Alternatively, if the special-status plant species in question is a SDG&E Subregional NCCP covered species, mitigation consistent with measures established in the NCCP and discussed in the SDG&E Subregional NCCP, above, shall be provided.
Location	Areas containing special-status plant populations
Monitoring/Reporting Action	Verify that a biologist supervises construction activities in the vicinity of special-status plant populations and areas within special-status plant species are avoided through fencing, flagging, or other marking for avoidance. Where impacts cannot be avoided, evidence of compensation is provided to the CPUC.
Effectiveness Criteria	Special-status plant populations are avoided or impacts are compensated through off-site mitigation.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM BIO-2: SDG&E Subregional NCCP

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Category	Measure Requirement/Application
Measure Text	<p>The Proposed Project will avoid and minimize impacts to biological resources through implementation of the SDG&E Subregional NCCP. The SDG&E Subregional NCCP establishes a mechanism for addressing biological resource impacts incidental to the development, maintenance, and repair of SDG&E facilities within the SDG&E Subregional NCCP coverage area. The Proposed Project is located within the SDG&E Subregional NCCP coverage area. The SDG&E Subregional NCCP includes a Federal Endangered Species Act (ESA) Section 10(A) permit and a California ESA Section 2081 memorandum of understanding (for incidental take) with an Implementation Agreement with the United States Fish and Wildlife Service (USFWS) and the California Department of Fish and Wildlife (CDFW – formerly the California Department of Fish and Game), respectively, for the management and conservation of multiple species and their associated habitats, as established according to the Federal and State ESAs and California’s NCCP Act.</p> <p>The NCCP’s Implementing Agreement confirms that the mitigation, compensation, and enhancement obligations contained in the Agreement and the SDG&E Subregional NCCP meet all relevant standards and requirements of the California ESA, the Federal ESA, the NCCP Act, and the Native Plant Protection Act with regard to SDG&E’s activities in the Subregional Plan Area. Pursuant to the SDG&E Subregional NCCP, SDG&E will conduct pre-construction studies for all activities occurring off of existing access roads in natural areas. An independent biological consulting firm will survey all Proposed Project impact areas and prepared a Pre-activity Study Report (PSR) outlining all anticipated impacts related to the Proposed Project. The Proposed Project will include monitoring for all project components, as recommended by the PSR and outlined in the SDG&E Subregional NCCP, as well as other avoidance and minimization measures outlined in the NCCP’s Operational Protocols. The PSR will be submitted to the CDFW and USFWS for review. Prior to the commencement of construction, a verification survey will be conducted of the Proposed Project disturbance areas, as required by the SDG&E Subregional NCCP. Biological monitors will be present during construction to assure implementation of the avoidance and minimization measures. If the previously-delineated work areas must be expanded or modified during construction, the monitors will survey the additional impact area to determine if any sensitive resources will be impacted by the proposed activities, to identify avoidance and minimization measures, and to document any additional impacts.</p> <p>Any additional impacts are included in a Post-construction Report (PCR) for purposes of calculating the appropriate mitigation, which generally includes site enhancement or credit withdrawal from the SDG&E mitigation bank. When construction is complete, the biological monitor will conduct a survey of the entire line to determine actual impacts from construction. The PCR will determine how much site enhancement and credit withdrawal from the SDG&E mitigation bank will be required to address impacts from project related activities. These impact and mitigation credit calculations are submitted to the USFWS and the CDFW as part of the NCCP Annual Report pursuant to requirements of the NCCP and the NCCP Implementing Agreement.</p> <p>Specific operating restrictions that are incorporated into the Proposed Project design to comply with the SDG&E Subregional NCCP include the following:</p> <ul style="list-style-type: none"> • Vehicles would be kept on access roads and limited to 15 miles per hour (Section 7.1.1, 1.).

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Category	Measure Requirement/Application
	<ul style="list-style-type: none"> • No wildlife, including rattlesnakes, may be harmed, except to protect life and limb (7.1.1, 2.). • Feeding of wildlife is not allowed (Section 7.1.1, 4.). • No pets are allowed within the ROW (Section 7.1.1, 5.). • Plant or wildlife species may not be collected for pets or any other reason. (Section 7.1.1, 7). • Littering is not allowed, and no food or waste would be left on the ROW or adjacent properties (Section 7.1.1, 8.). • Measures to prevent or minimize wild fires would be implemented, including exercising care when driving and not parking vehicles where catalytic converters can ignite dry vegetation (Section 7.1.1, 9.). • Field crews shall refer all environmental issues, including wildlife relocation, dead, or sick wildlife, or questions regarding environmental impacts to the Environmental Surveyor. Biologists or experts in wildlife handling may be necessary to assist with wildlife relocations (Section 7.1.1, 10.). • All SDG&E personnel would participate in an environmental training program conducted by SDG&E, with annual updates (Section 7.1.2, 11.). • The Environmental Surveyor shall conduct pre-activity studies for all activities occurring in natural areas, and will complete a proactivity study form including recommendations for review by a biologist and construction monitoring, if appropriate. The form will be provided to CDFW and USFWS but does not require their approval (Section 7.1.3, 13.). • The Environmental Surveyor shall flag boundaries of habitats to be avoided and, if necessary, the construction work boundaries (Section 7.1.3, 14.). • The Environmental Surveyor must approve of activity prior to working in sensitive areas where disturbance to habitat may be unavoidable (Section 7.1.4, 25.). • In the event SDG&E identifies a covered species (listed as threatened or endangered by the federal or state) of plant within the temporary work area (10 foot radius) surrounding a power pole, SDG&E would notify the USFWS (for Federal ESA listed plants) and CDFW (for California ESA listed plants) (Section 7.1.4, 28.). • The Environmental Surveyor shall conduct monitoring as recommended in the pre-activity study form (Section 7.1.4, 35.). • Supplies, equipment, or construction excavations where wildlife could hide (e.g., pipes, culverts, pole holes, trenches) shall be inspected prior to moving or working on/in them (Section 7.1.4, 37, and 38.). • Fugitive dust will be controlled by regular watering and speed limits (Section 7.1.4, 39.). • During the nesting season, the presence or absence of nesting species (including raptors) shall be determined by a biologist who would recommend appropriate avoidance and minimization measures (Section 7.1.6, 50). • Maintenance or construction vehicle access through shallow creeks or streams is allowed. However no filling for access purposes in waterways is allowed (Section 7.1.7, 52). • Staging/storage areas for equipment and materials shall be located outside of riparian areas (Section 7.1.7, 53.).

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Category	Measure Requirement/Application
Location	All work areas
Monitoring/Reporting Action	Verify that the measures are implemented by construction personnel during construction.
Effectiveness Criteria	All NCCP measures are implemented in compliance with SDG&E's NCCP.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM BIO-3: SDG&E QCB HCP
Measure Text	SDG&E will implement the SDG&E QCB HCP, which was developed to protect the Quino Checkerspot Butterfly and its habitat through implementation of both general and Quino Checkerspot Butterfly-specific operational protocols that were designed to avoid or minimize take of the species.
Location	QCB habitat
Monitoring/Reporting Action	Verify SDG&E implements protocols in the SDG&E QCB HCP.
Effectiveness Criteria	Protocols are implemented to avoid or minimize take of QCB.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Cultural Resources-1: Cultural Resources Monitoring, Evaluation, and Treatment of Resources
Measure Text	<p>Archaeological monitoring shall be conducted during ground disturbing activities (i.e., grubbing, brushing, vegetation clearing, excavation, grading, etc.) in areas with high potential to discover historical and archaeological resources, as mapped on Figures 4.3-1 through 4.3-7. Monitoring teams shall work under the direct supervision of a CPUC-approved cultural resources specialist/archaeologist. Monitoring teams shall include one qualified archaeological monitor and one Native American monitor. In the event that ground disturbing activities simultaneously occur in multiple locations, a monitoring team shall be required at each location. If the CPUC-approved cultural resources specialist/archaeologist determines that the potential for cultural resources is low after initial ground-disturbance, the CPUC-approved cultural resources specialist/archaeologist may determine that monitoring is no longer required in that location.</p> <p>If previously undiscovered resources are identified during construction, all construction activities within 50 feet (15 meters) of the resource shall halt, and the monitoring team shall flag-off the area and notify the equipment operator, on-site supervisor, and the CPUC-approved cultural resources specialist/archaeologist of the finds. Construction efforts shall be temporarily diverted, and the CPUC-approved cultural resources specialist/archaeologist shall evaluate the resource and determine whether it is (1) eligible for the CRHR (and thus a historic resource for purposes of CEQA); or (2) a unique archaeological resource as defined by CEQA. If the resource is determined to be neither a unique archaeological nor a historical resource, work may commence in the area.</p>

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Category	Measure Requirement/Application
	<p>If the resource meets the criteria for either a historical or unique archaeological resource, or both, work shall remain halted within 50 feet (15 meters) of the area of the find, and the CPUC-approved cultural resources specialist/archaeologist shall consult with CPUC staff and SDG&E's Cultural Resource Specialist regarding methods to ensure that no substantial adverse change would occur to the significance of the resource pursuant to CEQA Guidelines Section 15064.5(b). 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. Other methods of mitigation, described below, shall only be used if the CPUC-approved cultural resource specialist/ archaeologist determines the method would provide equivalent or superior mitigation of the impacts to the resource. The alternative methods of mitigation may include data recovery and documentation of the information contained in the site to answer questions about local prehistory (see Mitigation Measures Cultural Resources-3 and Cultural Resources-4). The methods and results of evaluation or data recovery work at an archaeological find shall be documented in a professional-level technical report to be filed with the California Historical Resources Information System (CHRIS). Work in the area may commence upon completion of treatment, as approved by the CPUC.</p> <p>If data recovery of resources is necessary, additional archaeologists shall perform the excavation while the monitoring team(s) continues to monitor construction.</p>
Location	All areas mapped in the EIR with high sensitivity for cultural resources
Monitoring/Reporting Action	SDG&E files the required reports with CHRIS if data recovery and documentation of any recorded resources is necessary and the resource cannot be avoided. The CPUC verifies that qualified archaeologists are present during construction activities in areas with high sensitivity for cultural resources.
Effectiveness Criteria	Historical or archaeological resources are preserved in place or mitigated through data recovery and documentation.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Cultural Resources-2: Worker Training
Measure Text	Proposed Project personnel shall receive training regarding the appropriate work practices necessary to effectively implement the APMs and mitigation measures, including the potential for exposing subsurface cultural resources, including human remains. Training shall be required for all personnel before construction commences and repeated for all new personnel before they begin work on the Project. This training program shall be submitted to the CPUC for approval at least 30 days before the start of construction and include procedures to be followed upon the discovery or suspected discovery of archaeological materials and human remains, consistent with the procedures set forth in Mitigation Measure Cultural Resources-1 and Cultural Resources-4.
Location	All work areas

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Category	Measure Requirement/Application
Monitoring/Reporting Action	Verify that all workers have received training prior to starting work on the project.
Effectiveness Criteria	All workers have been trained in appropriate work practices regarding cultural resources and human remains.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Cultural Resources-4: Procedures for Discovery of Human Remains
Measure Text	In the event that human remains or suspected human remains are identified, SDG&E shall comply with California law (Health and Safety Code Section 7050.5; PRC Sections 5097.94, 5097.98, and 5097.99). The area shall be flagged off and all construction activities within 50 feet (15 meters) of the find shall immediately cease. The CPUC-approved cultural resources specialist/archaeologist and SDG&E shall be immediately notified, and the cultural resources specialist/archaeologist shall examine the find. If the CPUC-approved cultural resources specialist/ archaeologist determines that there may be human remains, SDG&E shall immediately contact the Medical Examiner at the San Diego County Coroner's office. The Medical Examiner has two (2) working days to examine the remains after being notified by SDG&E. If the Medical Examiner believes the remains are Native American, he/she shall notify the California Native American Heritage Commission (NAHC) within 24 hours. If the remains are not believed to be Native American, the appropriate local law enforcement agency will be notified. 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 remains shall be reinterred in the location they were discovered and the area of the property shall be secured from further disturbance. If there are disputes between the 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, Cal. Govt. Code § 6250 et seq., unless otherwise required by law. The Medical Examiner shall withhold public disclosure of information related to such reburial pursuant to the specific exemption set forth in California Government Code Section 6254(r).
Location	Locations where human remains are discovered
Monitoring/Reporting Action	Verify that SDG&E has appropriately flagged the area for avoidance and has notified all necessary parties.
Effectiveness Criteria	SDGE complies with laws for treatment of human remains.
Status	

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Category	Measure Requirement/Application
Review/Approval	
APM/Mitigation Measure Title	APM CUL-2: Avoidance of Environmentally Sensitive Areas
Measure Text	Known cultural resources that will be avoided would be demarcated as Environmentally Sensitive Areas. Construction crews would be instructed to avoid disturbance of these areas.
Location	Locations of known cultural resources
Monitoring/Reporting Action	Verify that all known cultural resources are demarcated as Environmentally Sensitive Areas and avoided.
Effectiveness Criteria	Known locations of cultural resources are avoided.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM CUL-6: Native American Monitoring
Measure Text	Native American monitoring may be implemented if transmission line construction has the potential to impact identified and mapped traditional locations or places. The role of the Native American monitor shall be to represent tribal concerns and communicate with the tribal council. Appropriate representatives will be identified based on the location of the identified traditional location or place.
Location	Identified and mapped Native American traditional locations or places
Monitoring/Reporting Action	Verify that Native American monitors are present on site during activities in the vicinity of traditional locations or places.
Effectiveness Criteria	Tribal concerns are represented and communicated to the construction crews. Activities are coordinated with the appropriate tribal council.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Fire-1: Final Fire Prevention Plan
Measure Text	SDG&E will implement the measures contained in the approved Fire Prevention Plan including: <ul style="list-style-type: none"> • During Project construction, SDG&E shall implement ongoing fire patrols during the fire season as defined each year by local, state, and federal fire agencies. These dates vary from year to year, generally occurring from late spring through dry winter periods. • During Red Flag Warning events, as issued daily by the National Weather Service, all construction and maintenance activities shall cease, with an exception for transmission line testing, repairs, unfinished work, or other specific activities which may be allowed if the facility/equipment poses a greater fire risk if left in its current state. A transmission line may be tested if the loss of another transmission facility could lead to system instability or cascading outages.

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Category	Measure Requirement/Application
	<ul style="list-style-type: none"> • All construction crews and inspectors shall be provided with radio and cellular telephone access that is operational in all Proposed Project work areas and access routes to allow for immediate reporting of fires. Communication pathways and equipment shall be tested and confirmed operational each day prior to initiating construction activities at each construction work site. All fires shall be reported to the fire agencies with jurisdiction in the area immediately upon discovery of the ignition. • All construction personnel shall be trained in fire-safe actions, initial attack firefighting, and fire reporting. All construction personnel shall be trained and equipped to extinguish small fires in order to prevent them from growing into more serious threats. All construction personnel shall be provided a hard hat sticker listing pertinent telephone numbers for reporting fires and defining immediate steps to take if a fire starts. Information on hard hat stickers shall be updated and redistributed to all construction personnel, and outdated hard hat stickers destroyed, prior to the initiation of construction activities on the day the information change goes into effect.
Location	All work areas
Monitoring/Reporting Action	SDG&E conducts fire patrol monitoring of work areas. Verify that all workers receive proper training and work is halted during Red Flag Warning events.
Effectiveness Criteria	Regular fire monitoring occurs during the fire season and fires are reported upon discovery of ignition.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Fire-2: Maintain Emergency Access
Measure Text	SDG&E and/or its contractors shall have fire suppression equipment on all construction vehicles. Construction personnel shall be required to park vehicles away from dry vegetation. SDG&E shall ensure that construction personnel, construction equipment, and aerial operations do not create obstructions to firefighting equipment or crews. Emergency ingress and egress to access roads shall be maintained per the Construction Transportation Management Plan (required by Mitigation Measure Traffic-1), and SDG&E shall notify residents and emergency personnel of road or lane closures as required by Mitigation Measures Traffic-6 and Traffic-8. Construction in the work area shall cease in the event of a fire within 1,000 feet of the work area. The work area includes the transmission line right-of-way (ROW), construction laydown and staging areas, pull sites, access roads, parking pads, and any other sites adjacent to the ROW where construction personnel are active or where equipment is in use or stored. Should a wildfire occur within 1 mile of a work area, helicopters in use by SDG&E shall immediately cease construction activities and not restart aerial operations until authorized by the appropriate fire agency.
Location	All work areas near vegetation
Monitoring/Reporting Action	Verify vehicles are not parked near vegetation and fire equipment is carried on construction vehicles. Verify SDG&E construction activities do not obstruct firefighting crews.

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Category	Measure Requirement/Application
Effectiveness Criteria	Vehicles are parked in approved areas and contain necessary firefighting equipment. SDG&E activities do not obstruct fire response efforts.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Fire-3: Water Tanks
Measure Text	SDG&E and/or its contractors shall have water tanks and/or water trucks sited/available at active Project sites for fire protection during Project construction.
Location	Active project sites
Monitoring/Reporting Action	Water tanks or water trucks are available at active work areas for fire suppression/protection.
Effectiveness Criteria	Water is available at active work areas for fire protection.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Fire-4: Conductor Clearance
Measure Text	<p>SDG&E shall establish adequate conductor clearances prior to energizing the Project by removing all vegetation from within 15 radial feet of new and relocated overhead conductors under maximum sag and sway. Only trees and vegetation with a mature height of 15 feet or less shall be permitted within the ROW. In addition, tree branches that overhang the ROW within 15 horizontal feet of any conductor shall be trimmed or removed, as appropriate, including those on steep hillsides that may be many vertical feet above the facility. Cleared vegetation shall either be removed or chipped and spread onsite in piles no higher than 6 inches.</p> <p>During Project construction, SDG&E shall maintain adequate conductor clearances by inspecting the growth of vegetation along the entire length of the overhead transmission line and documenting the survey and results in a report submitted to the CPUC annually during construction. Conductor clearance of 15 radial feet under maximum sag and sway shall be maintained at all times. Maximum sag and sway shall be computed based on ambient temperatures of no less than 120 degrees Fahrenheit and wind gusts of no less than 100 miles per hour.</p>
Location	Along overhead alignment and beneath installed conductors
Monitoring/Reporting Action	Verify adequate conductor clearances are established prior to energization. SDG&E submits an annual report to the CPUC documenting conductor clearance under maximum sag and sway.
Effectiveness Criteria	Conductor clearance is maintained to avoid a conductor from coming into contact with vegetation and igniting a fire.
Status	
Review/Approval	

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Category	Measure Requirement/Application
APM/Mitigation Measure Title	APM PS-6: Fire Prevention Plan and Monitoring
Measure Text	At the completion of each work day, construction crews will lock up and secure each worksite to prevent theft or vandalism associated with work equipment or supplies. SDG&E will also implement its project specific fire plan, which will include private fire patrol monitoring as appropriate. Furthermore, SDG&E may have private security personnel monitoring construction sites where materials are stored, which may include the substations, staging yards and ROW.
Location	All work areas
Monitoring/Reporting Action	SDG&E conducts fire patrol monitoring. The CPUC verifies security of work sites.
Effectiveness Criteria	Fires are prevented.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM GEO-3: Minimize Soil Disturbance
Measure Text	Ground and soil disturbance will be minimized through the use of existing access routes, to the extent feasible. Soil erosion and topsoil loss would be controlled by implementing SDG&E's BMP Manual during the construction of the Proposed Project. Additionally, the Proposed Project would comply with the Construction General Permit, which would include the preparation of SWPPP. Topsoil would be salvaged from areas where grading would otherwise result in loss of topsoil, and the salvaged soil would be used to reclaim areas of temporary construction disturbance
Location	Areas of soil disturbance
Monitoring/Reporting Action	Verify SWPPP implementation, including BMPs and reclamation of areas of temporary disturbance.
Effectiveness Criteria	Soil erosion is controlled and top soil loss is minimized.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure GHG-1: Disposal of Organic Matter
Measure Text	In accordance with requirements in Assembly Bill 1826, SDG&E shall dispose of organic waste (defined in PRC Section 42649.8(c) as food waste, green waste, landscape and pruning waste, nonhazardous wood waste, and food-soiled paper waste that is mixed in with food waste) removed on and after April 1, 2016 by means other than transporting to a landfill if the amount of organic waste meets or exceeds eight cubic yards per week. On and after January 1, 2017, SDG&E shall dispose of organic waste by means other than transporting to a landfill if the amount of organic waste meets or exceeds four cubic yards per week. Options for non-landfill disposal may include composting on previously disturbed SDG&E land, self-hauling organic waste

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Category	Measure Requirement/Application
	for recycling, or participating in a greenwaste recycling program in accordance with subdivision (b) of AB 1826.
Location	All organic waste collection locations
Monitoring/Reporting Action	Verify organic waste is properly collected and disposed of.
Effectiveness Criteria	SDG&E complies with AB 1826.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM AIR-5: Consistency with AB 32
Measure Text	Equipment and vehicles supporting construction of the Proposed Project would comply with the requirements implemented by CARB to reduce GHG emissions and would be consistent with AB 32's goals. Additionally, SDG&E would implement ongoing standard internal programs and practices that ensure compliance with CARB's SF ₆ regulations and maximum emission rates.
Location	Substations and all equipment locations
Monitoring/Reporting Action	Verify equipment and vehicles are consistent with AB 32 goals and substation transformers comply with SF ₆ regulations.
Effectiveness Criteria	SDG&E complies with AB 32.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hazards-1: Site Specific Blasting Plan
Measure Text	<p>The construction contractor shall ensure compliance with all relevant local, state, and federal regulations relating to blasting activities. SDG&E or its contractor shall prepare a site-specific blasting plan, notification requirements, and monitoring procedures for each blasting location proposed as required below:</p> <p>Blasting Plan. A site-specific blasting plan shall be prepared prior to rock blasting in any location where blasting is required. Each blasting plan must include noise and vibration calculations, blasting methods, surveys of existing structures and other built facilities, and distance calculations to estimate the area of effect where vibration levels would exceed 0.2 in/sec PPV or noise levels would exceed 90 dBA as a result of the blasting.</p> <p>The blasting plan shall identify a hazardous zone for people during blasting. The hazardous zone shall be defined as the area where a person could be injured or killed if they were to be located in that zone during controlled detonation. Personnel and members of the public shall be located outside of the hazardous zone. The blasting plan shall include methods to verify that personnel or members of the public are located outside of the hazardous zone. In addition, the blasting plan shall identify the trails that are adjacent to the blasting sites and that would require temporary closure during blasting activities. Finally, the blasting plan would require that SDG&E coordinate with</p>

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	<p>MCAS Miramar to identify any locations where controlled detonation would be prohibited because the detonation site is located near unexploded ordnances.</p> <p>Blasting plans shall be submitted to the City of San Diego for review and approval before blasting at each site. City-approved Blasting Plans shall be submitted to the CPUC for review prior to blasting at each site. SDG&E's contractor shall prepare daily blasting-related reports that include: Blast Report, Seismograph Monitoring Report, Inspection Report, Blasting Complaint Report, and Pre-Blast Inspection Report.</p> <p>Notification. SDG&E shall notify all sensitive receptors within 500 feet of the area of effect at least 1 week prior to the blasting event. The notification shall include the time and location of the blasting and provide best management practices that people can use to reduce the noise level experienced at the time of the blasting (i.e., stay indoors and close windows). The notification shall include phone numbers for a public liaison and complaint hotline as required by Mitigation Measure Noise-1. SDG&E shall also alert nearby residents immediately prior to blasting by sounding warning signals/sirens.</p> <p>Monitoring. Immediately prior to controlled detonation, SDG&E personnel shall visually verify that no people are located within the hazardous zone. SDG&E shall follow all required monitoring protocols described in the blasting plan.</p> <p>Minimize Damage. Adjacent structures within 500 feet of blasting locations shall be surveyed prior to blasting to determine their vulnerability to damage and to document their current physical exterior condition. Blasting shall not be allowed where damage to vulnerable structures is likely to occur; a chemical agent for rock fracturing or a rock anchoring or mini-pile system shall be used instead in such circumstances. The following provisions shall be employed to minimize risk of damage to structures in the area:</p> <p>Blasting mats shall be employed to eliminate flyrock.</p> <p>SDG&E's contractor shall employ proper stemming in the drill holes to control flyrock. Stemming shall be left at the top of blast holes to control/eliminate airblast.</p> <p>If any structure is inadvertently adversely affected by construction vibration, the structure shall be restored to conditions equivalent to those prior to blasting. SDG&E shall then fairly compensate the owner of any damaged structure for lost use.</p>
Location	Where blasting is required
Monitoring/Reporting Action	SDG&E prepares the blasting plan to the approval of the CPUC; notifies sensitive receptors within 500 feet of the blast at least 1 week prior to blasting; monitors blast activity and area to avoid people; submits reports for surveys of structures within 500 feet of the blast and implementation of blast control provisions to minimize impacts on structures; and submits reports for restoration of damaged structures.
Effectiveness Criteria	Avoid damage to structures or people from blasting or repair any inadvertent damage.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hazards-2: Spill Prevention, Control, and Countermeasure Plan

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Category	Measure Requirement/Application
Measure Text	An SDG&E-designated representative shall be identified to ensure that all hazardous materials and safety plans are followed throughout the construction period. Best Management Practices (BMPs) identified in the project Stormwater Pollution Prevention Plan (SWPPP) and spill prevention and response measures identified in the SPCC Plan shall be implemented during project construction to minimize the risk of an accidental release and to provide the necessary information for emergency response. A copy of the project SEAP shall be submitted to the CPUC at least 30 days prior to construction. All construction personnel shall be required to attend SEAP training prior to conducting any work on the project site. Training attendance sheet(s) shall be submitted to the CPUC on a monthly basis.
Location	All work areas where hazardous materials are stored or used
Monitoring/Reporting Action	Training attendance sheets are provided to the CPUC. Verify implementation of spill prevention measures in accordance with the SPCC Plan and SWPPP.
Effectiveness Criteria	Hazardous materials are contained, and any accidental release of hazardous materials is responded to in a manner that contains and controls the transport of hazardous materials.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hazards-3: Hazardous Substance Control and Emergency Response Plan
Measure Text	<p>SDG&E shall prepare and incorporate methods and techniques to minimize the exposure of the public to potentially hazardous materials during all phases of project construction and post-construction operation into a Hazardous Substance Control and Emergency Response Plan (HSCERP). The HSCERP shall be submitted to CPUC for recordkeeping at least 30 days prior to project construction. The HSCERP measures shall require implementation of appropriate control methods and approved containment (e.g., use of partial or total enclosures, hazardous material handling methods and employee training, ventilation requirements) and spill control practices for construction and on-site hazardous material storage. All hazardous materials and hazardous wastes shall be handled, stored, and disposed of in accordance with all applicable regulations by personnel qualified to handle hazardous materials. With the exception of wood poles, the plan shall specify that all hazardous materials shall be collected and stored in project-specific containers until they are transported to an appropriately licensed and permitted waste disposal facility. Wood poles shall be transported off site once removed from the ground and temporarily stored in project-specific containers at an SDG&E facility. As containers are filled, poles shall be transported to an appropriately licensed Class I landfill or the compost-lined portion of a solid waste landfill.</p> <p>The HSCERP measures shall also include, but not be limited to, the following:</p> <ul style="list-style-type: none"> • Proper disposal of contaminated soils • Daily inspection of vehicles and equipment parking near sensitive resource areas during construction and spill containment procedures • Emergency response and reporting procedures to address hazardous material releases

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Category	Measure Requirement/Application
	<ul style="list-style-type: none"> • Adequate operation and safety buffering and grounding measures • Fueling of any vehicles, equipment, and helicopters in staging yards or on streets paved with secondary containment and away from sensitive resource areas (e.g., preserves, designated open space areas, conserved habitat) <p>The measures shall specify that emergency spill supplies and equipment shall be available to respond in a timely manner if an incident should occur. Response materials such as oil-absorbent material, tarps, and storage drums shall be available at the project site at all times during construction and shall be used as needed to contain and control any minor releases.</p>
Location	All locations where hazardous materials are stored or handled and where construction vehicles and equipment are used
Monitoring/Reporting Action	Daily inspection logs for vehicles and equipment are submitted. Verify that hazardous materials are properly stored, fueling occurs in designated areas, and any contaminated soil or materials are transported to an appropriate facility.
Effectiveness Criteria	Hazardous materials are controlled and contained to minimize public exposure.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hazards-4: Uncover Existing Utility Pipelines
Measure Text	SDG&E shall excavate (“pothole”) to the top of any buried existing utilities, including pipelines, that are located within 10 feet of a proposed excavation (e.g., pole foundation, retaining wall footing, duct bank, or vault structure) to verify the location of the existing utility prior to initiating excavation work. Potholing work shall be performed using a non-destructive method (e.g., air vacuum extraction) that will not damage an existing pipeline once it is encountered. Potholing work shall be conducted under the oversight of a representative of the appropriate utility company. Potholing shall reveal the top of the pipeline only and shall not go any deeper than the top of the pipe so as to not damage the pipe in any way. Two potholes shall be excavated at each associated foundation location so that the orientation of existing pipelines can be verified. Potholes shall be backfilled with stockpiled soil once the location and orientation of the pipeline has been verified and marked. The utility company representative shall verify and approve that backfill and compaction of the potholes has been performed adequately. If the pipeline is located within the footprint of a proposed pole foundation, no pole foundation excavation work shall commence until SDG&E and CPUC have been notified and the pole location has been relocated sufficiently far away from the buried pipeline.
Location	Excavation areas within 10 feet of existing utilities
Monitoring/Reporting Action	SDG&E maintains records of potholing activities and reports any proposed pole or underground alignment relocations to the CPUC. The CPUC verifies that potholing work was adequately completed to verify the location of and mark existing utilities in the vicinity.

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Category	Measure Requirement/Application
Effectiveness Criteria	Damage of existing utilities is avoided.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hazards-5: Soil and Groundwater Testing
Measure Text	In the event that soils to be excavated are found to be contaminated, the excavated soil shall be treated as hazardous materials and disposed of in compliance with state and federal regulations and SDG&E operational procedures. Effective dust suppression procedures will be used in construction areas to reduce airborne emissions of these contaminants and reduce the risk of exposure to workers and the public. Regulatory agencies for the State of California (DTSC or RWQCB) and San Diego County shall be contacted by SDG&E or its contractor to plan handling, treatment, and/or disposal options.
Location	Where hazardous materials are encountered in soils proposed for excavation
Monitoring/Reporting Action	Verify hazardous materials are properly disposed of and all soils containing hazardous materials are managed to avoid dust generation.
Effectiveness Criteria	Soils containing hazardous materials are disposed of in compliance with regulations and hazardous materials in the soil do not become airborne.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hazards-6: Unexploded Ordnance Investigation
Measure Text	As part of the NEPA review and Tier 1 application process required for construction within MCAS Miramar, SDG&E shall comply with Naval Sea Systems Command (NAVSEA) OP 5 safety requirements for shore-based operations. SDG&E shall perform a survey of identified Formerly Used Defense Sites (FUDS) database sites prior to the start of construction to identify potential unexploded ordnance locations. SDG&E shall obtain a trained contractor for the pre-construction survey, personnel training, and removal of all unexploded ordnance that are found in the Project area. An unexploded ordnance investigation of known and potential areas used by the military along the ROW shall be undertaken by a trained contractor. If unexploded ordnance are found, they shall be removed by the trained contractor. To comply with NAVSEA OP 5 requirements, all personnel involved in excavation, grading, or ROW clearing shall be educated by the trained contractor to recognize unexploded ordnance.
Location	ROW areas within MCAS Miramar
Monitoring/Reporting Action	Unexploded ordnance have been removed by a trained contractor.
Effectiveness Criteria	Unexploded ordnance from work areas and vicinity are safely removed.
Status	
Review/Approval	

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Category	Measure Requirement/Application
APM/Mitigation Measure Title	APM HAZ-2: Consistency with State and Federal Regulations
Measure Text	<p>SDG&E shall address potential impacts relating to the handling and use of hazardous materials through compliance with numerous state and federal regulations, including, but not limited to:</p> <ul style="list-style-type: none"> • Federal Occupational Safety and Health Administration (OSHA) regulations for worker safety in hazardous material remediation and hazardous waste operations (29 CFR Section 1910.120) • Federal OSHA regulations hazard communication for workers (29 CFR Section 1910.1200) • Federal OSHA regulations for toxic air contaminants for workers (29 CFR Section 1910.1000) • CalOSHA regulations for worker safety in hazardous material remediation and hazardous waste operations (8 California Code of Regulations [CCR] 5192), • CalOSHA regulations for hazard communication for workers (8 CCR 5194), and • Department of Toxic Substances Control (DTSC) regulations implementing Resource Conservation and Recovery Act of 1976 (RCRA) and the California Hazardous Waste Control Law (HWCL) (22 CCR Division 4.5). <p>SDG&E would implement standard operational procedures for the transport, use, storage, and disposal of hazardous materials. This includes, but is not limited to the use of absorbent pads for spill containment, specified locations for construction vehicle refueling, and a daily vehicle inspection schedule designed to identify leaking fuels and/or oils as early as possible.</p>
Location	All areas where equipment and vehicles are used
Monitoring/Reporting Action	Verify absorbent pads are readily available, and compliance with all laws regarding hazardous materials management. Vehicles leaking hazardous materials are identified as early as possible and fixed.
Effectiveness Criteria	SDG&E complies with laws pertaining to hazardous materials and toxic air contaminant exposure for workers.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM HAZ-3: SDG&E Compliance Management Programs
Measure Text	The construction contractors would implement (in addition to regulatory and SDG&E requirements) their own compliance management programs to ensure that regulatory requirements are adhered to and that worker and public safety are secured.
Location	All work areas
Monitoring/Reporting Action	Verify that the contractor implements compliance management programs to comply with regulatory requirements and protect worker safety.
Effectiveness Criteria	Contractor properly implements compliance management programs.

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Category	Measure Requirement/Application
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hydrology-1: SWPPP and Treatment of Shallow Groundwater Discharge
Measure Text	<p>SDG&E shall prepare a Stormwater Pollution Prevention Plan in compliance with the State Water Resources Control Board Construction General Permit CAS000002 (Order No. 2012-0006-DWQ) and City of San Diego Stormwater Standards Manual (2012). Project construction plans and the SWPPP shall be submitted to the CPUC and the City of San Diego for review and approval prior to construction. The SWPPP shall address erosion and sedimentation control, groundwater dewatering procedures, hazardous materials identification, handling, disposal and emergency spill procedures, and any other best management procedures necessary to prevent sediment or contaminants from entering Los Peñasquitos Creek.</p> <p>Groundwater extracted during construction dewatering shall not be discharged to any surface waters or storm drains. If dewatering is necessary, the water shall either be used: (i) to irrigate upland areas, (ii) for dust control, or (iii) as makeup for a construction process (e.g., concrete production). If dewatering of contaminated groundwater is necessary, the water shall be disposed of in accordance with all applicable laws and procedures described in the SWPPP.</p>
Location	All areas of disturbance and groundwater dewatering
Monitoring/Reporting Action	SDG&E conducts monitoring as required by the SWPPP. Verify groundwater extraction procedures are properly implemented.
Effectiveness Criteria	Erosion and sediment controls are properly implemented and groundwater dewatering complies with all laws for water quality protection.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hydrology-2: Restrict Dust Control Water Usage
Measure Text	Water shall only be applied under APM AIR-1 to maintain moist soils. No water shall be applied during or immediately following rain events when soils are already damp. Dust control water shall be applied in a manner that does not create or contribute to runoff.
Location	All areas of earth disturbance
Monitoring/Reporting Action	Verify that dust control water is only applied as needed and does not create runoff.
Effectiveness Criteria	No runoff is created as a result of dust control watering.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Hydrology-4: Underground Construction Only During Dry Conditions

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Category	Measure Requirement/Application
Measure Text	Construction of the underground transmission line across any creeks or natural drainages shall only occur when the watercourse is dry and no less than 72 hours after any rain event. No construction shall occur within any stream, or other aquatic resource within 48 hours of a rain event with a forecast of 50 percent or greater chance of precipitation. A CPUC-approved aquatic resource monitor shall evaluate all work areas where construction is on-going after a rain event to determine if conditions are dry enough to resume construction activities. No earthwork shall occur within any Water of the State prior to SDG&E obtaining Waste Discharge Requirements or Section 401 Water Quality Certification from San Diego Regional Water Quality Control Board.
Location	Underground crossings of creeks and drainages
Monitoring/Reporting Action	Verify that underground crossing of creeks occurs when the creek is dry and at least 72 hours after a rain event.
Effectiveness Criteria	Work within streams is avoided during rain events and when the creek/stream has flowing water to avoid water quality impacts from work within the stream.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM HYDRO-3: Avoid Jurisdictional Drainages
Measure Text	To avoid impacts to jurisdictional drainages during road refreshing or reestablishment activities, the following minimization measures would be implemented: <ul style="list-style-type: none"> • Any excess soil would be spread on site outside of jurisdictional drainages to match existing contours and property compacted or hauled off site. • Graded areas would be stabilized to promote infiltration and reduce run-off potential. • Erosion protection and sediment control BMPs would be implemented in compliance with the General Construction General Permit, Stormwater Pollution Prevention Plan (SWPPP), SDG&E Water Quality Construction BMPs Manual (BMP Manual), and the SDG&E Subregional Natural Community Conservation Program (NCCP). • At designated jurisdictional drainage crossings locations along the access roads, the blade of the smoothing equipment would be lifted 25 feet on either side of the drainage to avoid impacts.
Location	Within and near jurisdictional drainage along access roads
Monitoring/Reporting Action	Verify that excess soil is not disposed of in drainages, BMPs are properly implemented, and vehicle blades are lifted within 25 feet of all drainages.
Effectiveness Criteria	No grading or unauthorized soil discharge occurs within jurisdictional drainages.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Noise-1: Resident Notification and Complaints

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Category	Measure Requirement/Application
Measure Text	<p>SDG&E shall provide notice by mail at least 1 week prior to construction activities to all sensitive receptors and residences within 500 feet of construction sites, staging yards, and access roads, and within 1,000 feet of helicopter fly yards and flight paths. SDG&E shall also post notices in public areas, including recreational use areas, within 300 feet of the project alignment and construction work areas. The announcement shall state where and when construction will occur in the area. For areas that would be exposed to helicopter noise, the announcement shall provide details on the schedule of the dates, times, and duration of helicopter activities. Notices shall provide tips on reducing noise intrusion, for example, by closing windows facing the planned construction.</p> <p>SDG&E shall identify and provide a public liaison person before and during construction to respond to concerns of neighboring receptors, including residents, about noise construction disturbance. SDG&E shall also establish a toll-free telephone number for receiving questions or complaints during construction and develop procedures for responding to callers. Procedures for reaching the public liaison officer via telephone or in person shall be included in the above notices and also posted conspicuously at the construction site(s). SDG&E shall address all complaints within 1 week of when the complaint is filed. SDG&E shall provide monthly reports with records of complaints and responses to the CPUC. These reports shall be provided to CPUC within 15 days of the end of the month.</p>
Location	All locations where construction activities occur within 500 feet of sensitive receptors and where helicopter fly yards occur within 1,000 feet of sensitive receptors
Monitoring/Reporting Action	SDG&E files monthly reports regarding noise complaints.
Effectiveness Criteria	Complaints are addressed.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Noise-2: Noise-suppression Techniques
Measure Text	<p>SDG&E shall implement the following noise-suppression techniques to avoid possible violations of local rules, standards, and ordinances from construction noise:</p> <ul style="list-style-type: none"> • Night and Sunday construction activities shall be limited to activities that will not produce noise greater than 40 dBA at the nearest receptor (school, residence, hospital, or place of worship). Construction activities permitted to occur during nights and Sundays include: <ul style="list-style-type: none"> - Arrival and departure of workers at staging yards - Construction management tailboard meetings - Staging yard operations including maintenance of equipment and material deliveries - Security operations in yards and at locations where equipment/material is stored on the ROW overnight • SDG&E shall apply for and obtain a construction noise permit from the City of San Diego and the City of Poway for construction activities that

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Category	Measure Requirement/Application
	<p>must occur outside of the daytime hours allowed by local ordinances in each jurisdiction. SDG&E shall submit a copy of approved construction noise permit to the CPUC at least two weeks prior to construction activities requiring the variance. The CPUC will not authorize any work outside of locally permitted construction hours that would exceed local standards without an approved construction noise permit.</p> <ul style="list-style-type: none"> • Sound walls or acoustic blankets shall be temporarily installed to shield adjacent residences from stationary equipment (e.g., generators) where residences are located within 200 feet and schools are located within 300 feet of the equipment and where adequate room for sound walls or acoustic blankets exists. The sound walls or acoustic blankets shall have a height of no less than 3 feet greater than noise-generating piece(s) or parts of equipment, a Sound Transmission Class (STC) of 19 or greater, and a surface with a solid face from top to bottom without any openings or cutouts along the face or at the base of the barrier. If sound walls or acoustic blankets would not reduce noise levels to below acceptable limits or if an oversight agency (i.e., City of San Diego or Caltrans) does not approve of the installation of sound walls within encroachment permits and/or traffic control plans, SDG&E shall offer to relocate affected residents depending on the location of the residences and the level of construction noise for the duration of the noise-generating activity. • Construction traffic shall be routed away from residences and schools, where feasible. • Unnecessary construction vehicle use and idling time shall be minimized. The ability to limit construction vehicle idling time is dependent upon the sequence of construction activities and when and where vehicles are needed or staged. If a vehicle is not required for use immediately or continuously for construction activities, its engine shall be shut off.
Location	At construction work areas in the vicinity of sensitive receptors
Monitoring/Reporting Action	SDG&E provides copies of any construction noise permits or variances received to the CPUC at least two weeks prior to construction activities requiring the variance. Verify that activities occurring outside of approved hours meet the requirements in the measure or permit and sound walls (if required) are properly implemented.
Effectiveness Criteria	Construction noise is generally limited to daytime hours, and sound walls or acoustic blankets are used to reduce impacts on noise sensitive receptors.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Noise-3: Helicopter Take-off and Landing Areas
Measure Text	Helicopter takeoff and landing areas shall be located a minimum of 300 feet from the nearest sensitive receptor. Helicopter takeoff and landing shall only occur from the hours of 7 AM to 7 PM in the City of San Diego and 7 AM to 5 PM in the City of Poway. No helicopter takeoff and landing areas shall be permitted at the Evergreen Nursery staging yard due to the close proximity of sensitive receptors adjacent to this staging yard.
Location	Helicopter take-off and landing areas

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Category	Measure Requirement/Application
Monitoring/Reporting Action	Verify locations of helicopter take-off and landing are at least 300 feet from the nearest sensitive receptor, and helicopter take-off and landing occurs during approved hours.
Effectiveness Criteria	Helicopter noise is restricted to reduce impacts on sensitive receptors.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Noise-4: Corona Rings
Measure Text	SDG&E shall install corona rings on all insulators to minimize the effects of corona along the 230-kV transmission line.
Location	Overhead transmission line insulators
Monitoring/Reporting Action	Verify that corona rings are installed on transmission line insulators.
Effectiveness Criteria	Corona rings are installed to reduce corona noise.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Noise-6: Coordinate Construction Activity with Schools
Measure Text	SDG&E shall coordinate with local schools at least 48 hours prior to helicopter and construction activities within 1,000 feet of a school to schedule helicopter activities and transmission line construction activities, including power pole installation and trenching activities. SDG&E shall file a Congested Area Plan with the FAA (see Mitigation Measure Traffic-2) and file all relevant helicopter information with the Department of Transportation Aeronautical Division when using helicopters to conduct transmission line construction activities with 1,000 feet of a school. No activities shall be allowed within 300 feet of school properties at times when classes are in session. Helicopter activities and construction near schools shall be conducted outside of active instruction periods (e.g., before school, after school, during lunch or classroom breaks). Schools shall be notified of any helicopter activities that would occur within 1,000 feet of school property at least 30 days prior to helicopter use.
Location	Helicopter use within 1,000 feet of schools or construction within 300 feet of schools
Monitoring/Reporting Action	SDG&E files congested area plan with FAA. Verify that helicopter activities and construction within 300 feet of schools are conducted outside of active instructional periods.
Effectiveness Criteria	Noise-related disruption of school instructional periods are avoided.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Paleontology-1: Paleontological Monitoring

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Category	Measure Requirement/Application
Measure Text	<p>Paleontological monitoring shall be required for all ground-disturbing activities that occur in in formations determined to have a moderate to high paleontological sensitivity; ground-disturbing activities that occur areas with indeterminate, low, or marginal paleontological sensitivity may be conducted on a part-time basis at the discretion of the qualified paleontologist, and areas with zero paleontological sensitivity will not require monitoring. Paleontological monitoring shall be conducted by a qualified paleontological monitor under the direction of a CPUC-approved, qualified paleontologist. The qualified paleontologist shall have a Master's or PhD in paleontology, have knowledge of the local paleontology, and be familiar with paleontological procedures and techniques.</p> <p>Paleontological monitoring shall also be required for all construction activities that require excavation, grading, or augering of 5 feet in diameter or greater at depths greater than 5 feet only in areas where these activities will disturb previously undisturbed strata in moderate to high paleontologically sensitive formations.</p>
Location	Ground disturbing locations within areas of moderate or high paleontological sensitivity
Monitoring/Reporting Action	Verify that a paleontological monitor is present during ground-disturbing activities in areas of moderate or high paleontological sensitivity.
Effectiveness Criteria	A qualified paleontologist is present to minimize impacts on and recover paleontological resources encountered.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Paleontology-3: Avoidance of Resources or Other Methods of Mitigation
Measure Text	<p>In the event that a previously unidentified paleontological resource is uncovered during project implementation, all ground-disturbing work within 50 feet (15 meters) of the discovery shall be halted. A CPUC-approved, qualified paleontologist shall inspect the discovery and determine whether further investigation is required. 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 qualified paleontologist shall evaluate the resource and determine whether it is "unique" under CEQA, Appendix G, part V. If the resource is determined to be unique, the determination and associated plan for protection of the resource shall be provided to CPUC for review and approval. If the resource is determined not to be unique, work may commence in the area. If the resource is determined to be a unique paleontological resource, work shall remain halted, and the qualified paleontologist shall consult with SDG&E and CPUC staff 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 unless there are other equally effective methods. Other methods may be used but must ensure that the fossils are recovered, prepared, identified, catalogued, and analyzed according to current professional standards under the direction of a qualified paleontologist. All recovered fossils shall be curated at an</p>

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	accredited and permanent scientific institution according to Society of Vertebrate Paleontology standard guidelines (SVP 2010) standards. Work may commence upon completion of treatment, as approved by CPUC. A final summary report shall be completed. This report shall include discussions of the methods used, stratigraphy exposed, fossils collected, and significance of recovered fossils. The report shall also include an itemized inventory of all collected and catalogued fossil specimens.
Location	Where paleontological resources area encountered
Monitoring/Reporting Action	SDG&E provides plan for protection of unique paleontological resources. Verify that work is halted within 50 feet of any paleontological discovery and any unique resources that cannot be avoided are recovered and addressed in a final summary report.
Effectiveness Criteria	Avoid impacts on or recover and curate unique paleontological resources.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Recreation-3: Maintain Access to Recreational Facilities
Measure Text	SDG&E shall coordinate the temporary closure of any public baseball or soccer fields and parking spaces with the City of San Diego and authorized park officer at least 90 days prior to construction within a park to avoid peak use of the facilities. SDG&E shall maintain a safe pedestrian access path between the parking lot and baseball fields during construction.
Location	Parks requiring closure
Monitoring/Reporting Action	Verify that safe pedestrian access to recreational facilities is maintained during construction.
Effectiveness Criteria	Park closures occur during non-peak use periods and safe pedestrian access is maintained to recreational facilities.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Recreation-4: Flag Person at Trail Crossings.
Measure Text	To avoid trail closures during overhead wire stringing, SDG&E shall position a flag person (similar to traffic controllers) at each trail crossing location to direct trail users when it is safe to pass.
Location	Overhead stringing at trail crossings
Monitoring/Reporting Action	Verify that a flag person is positioned to direct trail users during overhead stringing activities at trail locations.
Effectiveness Criteria	Maintain safety of trail users and avoid accidents during construction.
Status	
Review/Approval	

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Category	Measure Requirement/Application
APM/Mitigation Measure Title	APM REC-1: Coordination with Parks and Preserves, and Buffer Between Active Work Areas and Trails.
Measure Text	Appropriate safety measures will be implemented where trails and parks are located in close proximity to construction areas to provide a safety buffer between recreational users and construction areas. Construction schedule and activities will be coordinated with the authorized officer for each affected recreation area.
Location	Locations where construction is located in the vicinity of recreational areas
Monitoring/Reporting Action	Verify that safety measures and buffers are appropriately implemented to protect recreational users.
Effectiveness Criteria	Maintain safety of recreational users during construction.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM REC-2: Temporary Trail Detours
Measure Text	Where feasible, temporary detours will be provided for trail users. Signs will be posted to direct trail users to temporary trail detours.
Location	Temporary trail detours
Monitoring/Reporting Action	Verify that signage is in place to direct users to temporary trail detours.
Effectiveness Criteria	Temporary detours are provided for trail users when trail segments require closure.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM PS-1: Temporary Access
Measure Text	Where construction within existing public parks, preserves, and open space areas would not completely restrict access through these areas, and where necessary, SDG&E will create temporary foot and bicycle paths along with appropriate advanced notice and signage to direct and allow for the pedestrian and bicycle access through each affected park.
Location	Public parks, preserves and open spaces near construction areas
Monitoring/Reporting Action	Verify notice is posted regarding alternative access where park access may be affected.
Effectiveness Criteria	Avoid impacts on access to recreational areas.
Status	
Review/Approval	

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Category	Measure Requirement/Application
APM/Mitigation Measure Title	APM PS-2: Notification of Construction
Measure Text	SDG&E will provide the public with advance notification of construction activities. Concerns related to dust, noise, and access restrictions with construction activities will be addressed within this notification.
Location	All work areas
Monitoring/Reporting Action	SDG&E notifies the public within 1,000 feet of Project work areas by public mailer of construction activities prior to construction.
Effectiveness Criteria	The public is notified in advance of construction activities.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM PS-3: Coordination with Recreation Facilities
Measure Text	All construction activities will be coordinated with the authorized officer for each affected park, trail, or recreational facility prior to construction in these areas
Location	Locations where construction activities would occur in recreational facilities
Monitoring/Reporting Action	Verify coordination with the authorized officer of each affected park.
Effectiveness Criteria	Reduce impacts on park operation throughout advance notice and coordination with the facility manager.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM PS-4: Signage
Measure Text	As needed, signs will be posted directing vehicles to alternative park access and parking, if available, in the event construction temporarily affects parking near trailheads.
Location	Construction near trail head parking areas
Monitoring/Reporting Action	Verify signage is posted near affected trailheads.
Effectiveness Criteria	The public is properly notified about impacts on parking near trailheads.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-1: Construction Transportation Management Plan
Measure Text	SDG&E shall develop and implement a project-specific Construction Transportation Management Plan (CTMP). SDG&E shall submit the plan to

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	<p>CPUC for review and approval at least 30 days prior to construction. The CTMP shall conform to the California Joint Utility Traffic Control Committee's Work Area Protection and Traffic Control Manual. The CTMP shall include provisions for the following:</p> <ul style="list-style-type: none"> • Implementation of standard safety practices, including installation of appropriate barriers between work zones and transportation facilities, placement of appropriate signage, and use of traffic control devices. • Use of flaggers and/or signage to guide vehicles through or around construction zones using proper techniques for construction activities including staging yard entrance and exit. • Alternate traffic routes and the use of construction personnel carpools or shuttles to avoid roads that are operating at LOS D or lower. • Traffic detours for any road or lane closures with appropriate signage marking the detours. • Timing of worker commutes and material deliveries to avoid peak commuting hours. • Timing of lane and road closures. • Locations that would be accessed and receive material deliveries via helicopter. • Plans for construction worker parking and transportation to work sites • Methods for keeping roadways clean. • Storage of all equipment and materials in designated work areas in a manner that minimizes traffic obstructions and maximizes sign visibility. • Limiting of vehicles to safe speed levels according to posted speed limits, road conditions, and weather conditions. • Coordination with public transit providers. • Routing of trucks to avoid minor roads, where possible, to reduce congestion and potential asphalt damage. • Repair of asphalt and other road damage (e.g., curb and gutter damage, rutting in unpaved roads) caused by construction vehicles. • Detours for cyclists and pedestrians when bike lanes or sidewalks must be closed. • Abiding by encroachment permit conditions, which shall supersede conflicting provisions in the CTMP. <p>The CTMP must at a minimum comply with the requirements of the appropriate City and must be submitted to the respective cities for review and approval at least 60 days prior to commencing construction activities.</p>
Location	Lane and road closures or traffic detours
Monitoring/Reporting Action	Verify CTMP has been approved and is implemented where required. Verify appropriate signage is in place.
Effectiveness Criteria	SDG&E complies with City requirements. Vehicle, pedestrian, and bicycle safety during construction in roadways is maintained.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-4: Temporary Traffic Control Measures

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Category	Measure Requirement/Application
Measure Text	Prior to conductor stringing, SDG&E shall determine whether a temporary road closure or temporary support measures to protect traffic, such as guard structures or netting across roadways that would catch and support the conductor above traffic, would be necessary in the event that tension control of the conductor is lost during installation. The selected temporary measures to be incorporated shall be identified on construction plans and installed by SDG&E in advance of construction and shall remain in place until the conductor is clipped into support hardware on the transmission line structures. SDG&E shall implement all traffic control procedures and measures defined in Mitigation Measure Traffic-1 during installation of temporary support measures or temporary road closure.
Location	Overhead crossing of highways
Monitoring/Reporting Action	Verify that netting or guard structures are in place where needed.
Effectiveness Criteria	Measures are in place to prevent conductor from falling on the highway or road.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-5: Highway Closure Plans
Measure Text	SDG&E shall prepare and submit to Caltrans closure plans as part of the encroachment permit application at least 30 days prior to crossings of SR-56 and I-15. The plans shall require that closure or partial closure of SR-56 and I-15 be limited to off-peak, non-daytime hours, from 10 PM to 5 AM, and that signage be posted prior to the closure to alert drivers of the closure in accordance with Caltrans requirements. Highway closure times will be reviewed and approved by Caltrans to minimize delay to SR-56 and I-15 traffic. The plan shall also outline suggested detours to use during the closures, traffic, including routes and signage. No work shall begin in Caltrans right-of-way until the encroachment permit and Highway Closure Plan are approved by Caltrans. Should emergency evacuation occur prior to or during the highway closure, the closure shall be delayed or ceased to allow unimpeded flow of traffic.
Location	Crossing of I-15
Monitoring/Reporting Action	Verify implementation of the Caltrans-approved highway closure plan, including delaying or ceasing a highway closure if emergency evacuation is necessary.
Effectiveness Criteria	The highway closure plan is implemented to minimize delays to traffic on I-15.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-6: Restrict Road Closures and Maintain Access
Measure Text	SDG&E shall restrict all necessary lane closures or obstructions associated with overhead or underground construction activities to off-peak periods to

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Category	Measure Requirement/Application
	reduce traffic delays. Lane closures must not occur between 6:00 and 9:30 AM and between 3:30 and 6:30 PM, unless otherwise directed in writing by the responsible public agency issuing an encroachment permit. SDG&E shall coordinate with schools prior to construction within 1,000 feet of school property to ensure entryways to schools are not blocked during peak drop-off and pick-up hours. Underground work areas within intersections or traffic lanes shall be adequately covered with steel plating prior to 3:30 PM to allow uninterrupted traffic flow during peak traffic periods. All residents within 300 feet of proposed temporary lane or road closures shall be notified at least 7 days prior to a temporary lane or road closure. SDG&E shall maintain travel through intersections at all times during construction. Access to driveways including entrances to residential communities shall be maintained at all times during construction. SDG&E or its construction contractors shall provide the ability to quickly lay a temporary steel plate trench bridge upon request in order to ensure driveway access to schools, businesses, and residences and shall provide continuous access to properties when not actively constructing the underground cable alignment. In the event of a nearby fire or other emergency, steel plating shall be placed over underground work areas and construction equipment shall be removed from the partially or fully closed roadways, as needed, to permit uninterrupted traffic flow.
Location	Lane closures
Monitoring/Reporting Action	Verify lane closures are limited to approved hours and advance coordination occurs with schools in the vicinity of lane closures. Verify access is maintained to driveways at all times.
Effectiveness Criteria	Impacts on traffic flow are minimized and access to residential areas or schools is not obstructed.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-7: Closure Notification and Detours
Measure Text	Where construction results in temporary closures of sidewalks and other pedestrian facilities, SDG&E shall provide temporary pedestrian access, through detours or safe areas along the construction zone. Where construction activity results in bike route or bike path closures, appropriate detours shall be defined. Signs shall be placed along the closed bike path a minimum of 7 days prior to bike path closure notifying bicyclists of the proposed construction activities and duration of bike path closure. Notifications posted along the bike path shall include the locations of detours and alternate routes to avoid conflicts with the construction area.
Location	Bicycle path closure areas
Monitoring/Reporting Action	Verify notification of bike path closure has been posted.
Effectiveness Criteria	Bicyclists are notified of the closure and directed to alternative safe travel routes.
Status	

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Category	Measure Requirement/Application
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-8: Notify Emergency Personnel of Road Closures
Measure Text	SDG&E shall notify local emergency personnel (i.e., fire departments, police departments, ambulance, and paramedic services) at least 1 week prior to lane or road closures. The notice shall include location(s), date(s), time(s), and duration of closure(s), and a contact number for SDG&E project personnel.
Location	Lane closures
Monitoring/Reporting Action	Verify notification has been submitted to local emergency personnel at least 1 week prior to road or lane closures.
Effectiveness Criteria	Emergency personnel are notified of lane closures in advance of the closure activity to avoid or reduce conflicts with emergency response times.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-11: Close Roadside Parking During Vault Installation
Mitigation Measure Text	Roadside parking shall be prohibited within 100 feet of vault installation areas at least 8 hours prior to vault installation activities. SDG&E shall post notices of the parking closure at least 72 hours prior to vault installation. The notices shall define the location of the parking closure and the dates that no parking will be allowed in the area.
Location	Vault installation areas
Monitoring/Reporting Action	Verify notice is posted in areas where parking will be temporarily closed.
Effectiveness Criteria	Advance notice is given to reduce conflicts with parked vehicles.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Traffic-12: Consult with Bus and transit Services
Measure Text	SDG&E shall consult with the San Diego Metropolitan Transit System and City of San Diego School District at least one month prior to construction to coordinate construction activities adjacent to bus stops. If necessary, bus stops will be temporarily relocated or buses will be rerouted until construction in the vicinity is complete. SDG&E shall post notices of any temporary bus stop closure at least 14 days prior to temporary closure. The notices shall provide information on the nearest available bus stop on the bus route and the scheduled duration of closure.
Location	Construction areas adjacent to bus stops
Monitoring/Reporting Action	Verify required notices have been posted.

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Category	Measure Requirement/Application
Effectiveness Criteria	Reduce conflicts with access to public transit.
Status	
Review/Approval	
APM/Mitigation Measure Title	APM TR-2: Comply with Relevant Helicopter Use Restrictions
Measure Text	Any helicopter use will comply with all relevant usage restrictions including those imposed by the FAA and Caltrans. SDG&E and/or the construction contractor will coordinate with local air traffic control and comply with applicable FAA regulations regarding helicopter use to prevent conflict with air traffic generated by local airports. Helicopter usage will conform to acceptable hours for construction activities, as outlined within the applicable local noise codes and ordinances. As required, a Congested Area Plan (or CAP) will be implemented.
Location	Helicopter use areas
Monitoring/Reporting Action	Verify compliance with FAA requirements for helicopter use.
Effectiveness Criteria	Helicopter use complies with FAA requirements and does not conflict with local air traffic.
Status	
Review/Approval	
APM/Mitigation Measure Title	Mitigation Measure Utilities-1: Non-Potable Water Use for Dust Control
Measure Text	The water supply for project construction activities (e.g., dust control, soil compaction) shall be obtained from non-potable sources and ensured in a water contract through a local water agency or district, except where jurisdictional or regulatory requirements restrict the use of non-potable water for a specified construction activity or during limited periods when non-potable water sources are offline and not available.
Location	Water filling stations
Monitoring/Reporting Action	Verify water is obtained from non-potable sources and documentation is submitted when potable water must be used.
Effectiveness Criteria	Non-potable water is used to the extent feasible to reduce impact on potable water supplies.
Status	
Review/Approval	