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February 15, 2018

Lisa Orsaba Project Manager California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102

Re: Notice to Proceed (NTP) Request #13 to Reconstruct Phase III of the Transmission Line (TL) 682 Component of the Cleveland National Forest Power Line Replacement Projects (Project)

Dear Ms. Orsaba:

On May 26, 2016, the California Public Utilities Commission (CPUC) granted San Diego Gas & Electric Company (SDG&E) a Permit to Construct the Project (Decision 16-05-038). The decision conditionally authorizes construction of the Project with the implementation of pre-construction mitigation measures (MMs) and applicant-proposed measures (APMs) identified in the Mitigation Monitoring, Compliance, and Reporting Program (MMCRP). A Notice of Determination was submitted to the State Clearinghouse on May 31, 2016, indicating the CPUC's approval of the Project. In addition, the following agencies issued permits or Records of Decision (RODs) to indicate their approval of the Project:

- The United States Forest Service (USFS) issued a Final ROD on March 11, 2016 and a Master Special Use Permit on September 19, 2016.
- The Bureau of Land Management issued a Final ROD on September 28, 2016.
- The Bureau of Indian Affairs (BIA) issued a Final ROD on March 30, 2016. The ROD was amended on December 15, 2017 to honor the La Jolla Band of Luiseño Indians' (Tribe's) request to reconstruct approximately 1,500 feet of the overhead alignment on its reservation instead of undergrounding that section of the alignment as described in the federal preferred alternative.

Activity Summary

The reconstruction of TL682 was split into three phases. The NTPs for Phase I (Pole Z118102 to the Warners Substation) and Phase II (Rincon Substation to Pole Z118064) were received in 2017. SDG&E is formally requesting authorization from the CPUC to begin Phase III, which

will cover reconstruction of a segment of TL682 on the Tribe's reservation (Pole Z617763 to Pole Z118101).¹ Reconstruction will include the following:

- replacement of 42 existing wood transmission and distribution poles with weathered steel poles and installation or replacement of other appurtenant equipment;
- reconductoring of the existing 12 kilovolt (kV) and 69 kV conductors;
- removal of four existing wood poles, including the existing conductor;
- installation of four new weathered steel poles and other appurtenant equipment;
- replacement of eight tap poles;
- pole-top work at 10 structures; and
- the use of the Cucca Loop Staging and Fly Yard, as well as other refinement areas, which are identified in Attachment A: Minor Project Refinement Request.

Reconstruction of Phase III of TL682 will also include access road maintenance and the establishment of temporary work areas associated with pole replacement activities. Public and established private roads will be used, as well as identified navigation and construction-only access roads for travel to and from the Project and for various construction activities (e.g., parking, pole staging, temporary material laydown, and stringing). Some construction-only access roads may require vegetation trimming and/or minor grading, but they will be returned to near pre-construction conditions upon completion of the reconstruction of Phase III of TL682. During construction, SDG&E will minimize impacts to natural areas to the fullest extent feasible by utilizing existing bare ground areas for construction along the Project alignment. All activities required for the reconstruction of Phase III of TL682 will be consistent with Section B: Project Description in the Project's Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS).

SDG&E may also need to conduct minor tree trimming prior to energization of the newly relocated alignment in order to maintain the energized wire-to-vegetation clearances that are required for compliance with CPUC General Order 95. No ground disturbance will be conducted during the trimming activities. Vegetation crews will walk to each tree, climb the tree, and trim the necessary branches with hand tools. Depending on the size and the amount of the vegetation cut, the material will be either left on site in the right-of-way or carried out to the closest workspace with a chipper. If individual trees are found to be dead or dying, the full tree may be removed.

Attachment A: Minor Project Refinement Request of this NTP request describes and analyzes the environmental impacts of the changes between the final engineering for Phase III of TL682

¹ A few components are located adjacent to the Tribe's reservation on private land.

and the 2015 baseline data², as well as changes between the final engineering for Phase III of TL682 and the federal preferred alternative. The federal preferred alternative included undergrounding the transmission and distribution lines for approximately 1,500 feet between Poles Z118079 and Z118082, but that section will now be reconstructed as overhead at the request of the Tribe, per the amended BIA ROD. Attachment A: Minor Project Refinement Request also includes a comparison mapbook of the changes. The refinements included in the Minor Project Refinement (MPR) request are incorporated into Attachment B: NTP #13 Components Map and Attachment C: Pre-Construction Status Report.

As described in Attachment A: Minor Project Refinement Request, activities at the Cucca Loop Staging and Fly Yard will include helicopter staging, take-off, and landing, as well as parking, fueling, and storage of construction materials and equipment. The Cucca Loop Staging and Fly Yard will be active for approximately 10 months. Use of the yard will be consistent with Section B: Project Description in the Project's Final EIR/EIS.

Attachment B: NTP #13 Components Map depicts the pole removal/replacement sites, new steel pole sites, tap pole replacement sites, pole-top work only sites, guard structures, stringing sites, the Cucca Loop Staging and Fly Yard, and access roads required to reconstruct Phase III of TL682, as described by the Project's Final EIR/EIS and Attachment A: Minor Project Refinement Request.³

Upon completion of construction activities on this component, all areas of temporary disturbance will be recontoured and restored to pre-construction conditions to the extent practicable. Table 1: Temporary Impact Acreage provides the temporary impacts associated with all work areas for Phase III of TL682. Cleanup work will include the removal of any temporary facilities not required for other approved Project activities, as well as collection and proper disposal of any waste, trash, and debris. Phase III of TL682 is anticipated to take approximately eight months from initial mobilization through construction completion, beginning in March/April 2018 and ending in November/December 2018.

Pre-Construction Mitigation Measures

A list of all pre-construction MMs/APMs identified in the MMCRP and relevant to Phase III of TL682 is provided in Attachment C: Pre-Construction Status Report of this NTP request. To facilitate tracking and implementation, each MM/APM has been organized into tasks so that the various elements of each MM/APM can be tracked separately. Attachment C: Pre-Construction Status Report provides the full text of each MM/APM for Phase III of TL682, as well as the corresponding completion status and details on the status. No construction work will occur until all of the applicable pre-construction MMs and APMs are fulfilled.

² In April 2015, SDG&E submitted responses to the CPUC's Data Request #10, which included route maps for each segment of the Project. Attachment B.4: TL682 Route Map depicts the approved baseline components outside of the federal preferred alternative.

³ Public and established private roads that will be used for construction are not specifically identified in Attachment B: NTP #13 Components Map, but approved access roads are.

Townson y Impost I section	Approximate Impacts (acres)			
Temporary Impact Location	Native Vegetation	Non-Native Grassland	Agricultural/Disturbed/ Developed/Bare Ground	
Access Roads ⁴	0.37	0.19	0.16	
Anchor Work Areas	0.05	0.01	0.04	
Guard Structure Work Areas	0.05		0.06	
Pole Work Areas	1.27	0.29	0.63	
Stringing Sites	1.09		0.36	
Temporary Access/Entry/Turnaround	0.21	0.07	0.14	
Cucca Loop Staging and Fly Yard		1.19	0.01	
Phase III of TL682 Total	3.03	1.74	1.39	
Project Total to Date ⁵	39.14	32.92	98.19	

Table 1: Temporary Impact Acreage

SDG&E respectfully requests authorization of this NTP request by March 29, 2018 in order to begin construction activities along Phase III of TL682 and meet the overall Project schedule. Should you have any questions or need additional information, please do not hesitate to contact me at XXX-XXX-XXXX.

Sincerely,

Kinstin Reynolds

Kirstie Reynolds Team Lead – Environmental Project Management SDG&E

Attachment A: Minor Project Refinement Request Attachment B: NTP #13 Components Map Attachment C: Pre-Construction Status Report

⁴ SDG&E uses three types of access roads—maintained, navigation, and construction only. Construction-only access roads can sometimes require improvements and maintenance, which create temporary impacts to vegetation.

⁵ The total temporary impact acreage for the Project includes Phase III of TL682, as well as all pending and approved Workspace Adjustments, MPRs, and NTPs. Temporary impacts due to outrigger adjustments will be totaled and included in the Post-Construction Report for each component.

cc: Allison Rice, Dudek Anna Bischoff, Dudek Keith Carwana, Dudek David Hochart, Dudek Brad Aughinbaugh, USFS KD Tyree, USFS Tim Knowd, SDG&E Jennifer Kaminsky, SDG&E Katie Basinski, SDG&E

Heidi Waitley, SDG&E Jim Vanlandingham, SDG&E Rachel Ruston, SDG&E Anne Marie McGraw, Insignia Environmental (Insignia) Fred Bauermeister, Insignia Jeff Coward, Insignia Kevin Kilpatrick, Insignia Erin Tomaras, Insignia

ATTACHMENT A: MINOR PROJECT REFINEMENT REQUEST



CLEVELAND NATIONAL FOREST POWER LINE REPLACEMENT PROJECTS

Sempra Energy utility MINOR PROJECT REFINEMENT REQUEST FORM 02-15-18 014 **Date Submitted: Request #:** 03-29-18 Various **Date Approval Required:** Landowner: XXX-XXX-XX, XXX-XXX-XX, XXX-XXX-XX, XXX-XXX, XXX-XXX, XXX-XXX, APN: XXX-XXX-XX Refinement from (check all that apply): □ Mitigation Measure \Box APM ⊠ Project Description \Box Drawing \boxtimes Other Identify source (mitigation measure, project description, etc.): In April 2015, San Diego Gas & Electric Company's (SDG&E's) responses to Data Request #10 were submitted to the California Public Utilities Commission (CPUC). The responses included Attachment B.4 TL682 Route Map¹ for the Cleveland National Forest Power Line Replacement Projects (Project), which depicted approved facilities, temporary guard structure sites, stringing sites, staging and fly yards, and access roads. In addition, the Bureau of Indian Affairs' (BIA's) federal preferred alternative on the La Jolla Band of Luiseño Indians' (Tribe's) Reservation included undergrounding the transmission and distribution lines for approximately 1,500 feet between Poles Z118079 and Z118082 on Transmission Line (TL) 682, as described in Section B.3.2.4 of the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS). Page B-44 through Page B-48 of the Final EIR/EIS describes the Project's temporary workspace requirements for access, stringing sites, pole work areas, guard structures, and staging and fly yards, as well as construction methodology for pole removal and installation. The information in this Minor Project Refinement (MPR) request discusses SDG&E's requested refinements to the 2015 baseline data (described in the Project description) and the federal preferred alternative along TL682.² A brief description and justification of the refinements are provided on pages 2 and 3 of this MPR request. Attachments (check all that apply): Refinement Request Screening Form Maps (See \boxtimes Other (See Attachment C: (see Attachment A: Minor □ Photos Attachment B: Impacts Table) Project Refinement Request Comparison Map) Screening Form) Under Order 2 of the Decision Granting SDG&E Permit to Construct the Cleveland National Forest Power Line Replacement Projects (D.16-05-038), the CPUC may approve minor project refinements under certain circumstances. In accordance with Order 2 of the Decision, respond "ves" or "no" to the following questions (a) through (d). (a) Is the proposed refinement outside the geographic boundary of the EIR/EIS study area? The requested refinements are located within the geographic boundary of the Final EIR/EIS study □ Yes 🖾 No area, which is depicted in Figure ES-1 Regional Overview Map in the Final EIR/EIS. However, some of the refinement areas occur outside of the baseline survey areas. As a result, supplemental hydrological, biological, and cultural resources surveys were conducted in 2016 and 2017.

¹ Attachment B.4 TL682 Route Map depicts the 2015 baseline data.

² This MPR request only includes Phase III of TL682, which covers reconstruction of a segment of TL682 on the Tribe's reservation from Pole Z617763 to Pole Z118101. A few refinements are located adjacent to the Tribe's reservation on private land.

Additional details regarding the specific surveys conducted are provided in each applicable resource section in Attachment A: Minor Project Refinement Request Screening Form.		
(b) Will the proposed refinement result in a new significant impact or a substantial increase in the severity of a previously identified significant impact based on the criteria used in the EIR/EIS?	□ Yes	🛛 No
(c) Does the proposed refinement conflict with any mitigation measure or applicable law or policy?	□ Yes	🖾 No
(d) Does the proposed refinement trigger an additional permit requirement?	□ Yes	🛛 No

Describe refinement being requested (attach drawings and photos as needed):

SDG&E requests the following refinements along Phase III of TL682:

- addition of 19 anchors, replacement of one anchor, and removal of 34 anchors, as well as associated anchor work areas;
- reconfiguration of two approved stringing sites and the addition of four stringing sites for a total of six stringing sites;
- addition of 15 temporary access/entry/turnaround work areas to provide safe access, vehicle turnaround, and parking;
- addition of two guard structures;
- addition of approximately 0.2 mile of construction-only access roads (vegetation clearing and minor grading may occur);
- addition of three new steel distribution poles, six 12 kilovolt (kV) wood-to-steel replacement poles, and four 69 kV wood-to-steel replacement poles, as well as associated temporary pole work areas;³
- shifting of three wood-to-steel replacement poles by approximately 10 feet or more, as well as the associated temporary pole work areas;
- replacement of eight tap poles and addition of 10 pole-top-only work poles, as well as associated temporary pole work areas; and
- addition of the Cucca Loop Staging and Fly Yard.⁴

Attachment B: Comparison Map depicts the 2015 baseline data and the federal preferred alternative (i.e., undergrounding) in comparison to the final design for Phase III of TL682, as described in this MPR request. The activities associated with the construction and utilization of the refinement areas will occur in the same manner as described in the Final EIR/EIS for construction of the Project. The requested refinements total approximately 3.82 acres of temporary impacts (of which approximately 1.50 acres are classified as native vegetation) and less than 0.01 acre of permanent impacts.⁵ The breakdown of the temporary and permanent impacts is summarized in Attachment C: Impacts Table.

Provide need for refinement (attach drawings and photos as needed):

Some of the requested refinements described in this MPR request are a result of constructability reviews and the final pole locations, which helped to refine the engineering design to better position stringing sites, guard structures, and access, as well as finalize all associated electrical work (i.e., tap pole replacements, anchor installations/replacements/removals, and overhead equipment adjustments). In addition, the Cucca Loop Staging and Fly Yard will provide a staging area and helicopter landing zone that are closer to the Phase III section of the

³ Three of the additional 12 kV wood-to-steel replacement poles and all four of the additional 69 kV wood-to-steel replacement poles are required due to the Tribe's request for overhead alignment instead of undergrounding between Poles Z118079 and Z118082.

⁴ Vegetation clearing and minor grading will be required. Access to the yard will occur via an approved navigation access road. The yard will be used for approximately 10 months.

⁵ The "total" impacts from the refinement areas are used as opposed to the change in impacts (i.e., an increase or decrease). As this MPR addresses a change to the federal preferred alternative (i.e., undergrounding), which did not have a final design nor an estimated calculation of impacts in the Final EIR/EIS, an impact comparison cannot be made. It should be noted that underground trenching typically increases the temporary impacts when compared to overhead rebuild.

TL682 alignment than the currently approved yards, as well as additional space for refueling, safe helicopter operations, and equipment and materials storage during construction of Phase III of TL682.

All other requested refinements were made at the Tribe's request, including refinements requested for the new easement agreement between SDG&E and the Tribe (i.e., new steel poles), as well the refinements requested to reconstruct approximately 1,500 feet of the overhead alignment instead of undergrounding that section (as described in the BIA's Record of Decision, which was amended on December 15, 2017).

Date refinement is expected t	o be implemented:	03-30-18			
Resource Agency Coordination					
Resource Agency	Name	ne Action Date Docu Required Date (see at			
Not Applicable (N/A)	N/A	N/A	N/A	Yes	□ No

ATTACHMENT A: MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

MINOR PROJECT REFINEMENT REQUEST SCREENING FORM

RESOURCE EVALUATION

The requested refinements were evaluated to verify that they will not result in a new significant impact or a substantial increase in the severity of a previously identified significant impact based on the criteria used in the Final Environmental Impact Report/Environmental Impact Statement (EIR/EIS) for the San Diego Gas & Electric Company (SDG&E) Cleveland National Forest Power Line Replacement Projects (Project). The following Final EIR/EIS Consistency Checklist answers the consistency questions for each resource category and includes a description and justification below each resource category, as necessary. The consistency questions were developed using the California Environmental Quality Act Checklist provided in the Final EIR/EIS. Refer to the Final EIR/EIS for details on the Project's impact evaluation.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Visual Resources (e.g., adversely affect scenic vistas, damage scenic resources within a state scenic highway, degrade the existing visual character of the site and its surroundings, create sources of light or glare, or result in an inconsistency with applicable scenic integrity objectives)? <i>Final EIR/EIS evaluation⁶: Significant and unavoidable (Class I)/Adverse and unavoidable</i>			

Summary of Proposed Minor Project Refinement Impacts on Visual Resources:

The requested refinements are mostly minor, temporary workspace additions or adjustments to the locations of existing facilities and/or approved Project components that occur within or near the transmission line right-ofway (ROW). The replacement of existing wood distribution tap poles with new steel distribution poles that are somewhat larger (10 to 20 feet taller) will not substantially increase impacts to visual resources, because the poles are replacing existing structures adjacent to the transmission line ROW and will be similar in appearance to the adjacent, new steel transmission line structures. Similarly, the three new steel distribution poles will not substantially increase impacts to visual resources as they will also be adjacent to the transmission line ROW and will be similar in appearance to the adjacent, new steel transmission line structures. In addition, the reconstruction of approximately 1,500 feet of the overhead alignment (instead of undergrounding that section) will not substantially increase impacts to visual resources as the transmission poles are existing facilities and the undergrounding was only described as slightly decreasing existing view blockage and occurrences of skylining associated with the transmission poles in the Final EIR/EIS.

The requested refinements will be consistent with the visual resource analysis defined in the Final EIR/EIS, and they will not impact the Henshaw Scenic Vista (more than four miles west) nor substantially affect existing views from State Route (SR-) 76 (an eligible state scenic highway). Impacts to the visual character of the area may occur as a result of minor grading, vegetation clearing, and use of the Cucca Loop Staging and Fly Yard; however, these impacts will be temporary and reduced with implementation of Applicant-Proposed Measure (APM) VIS-01 and APM VIS-02. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to visual resources as identified in the Final EIR/EIS.

⁶ The Final EIR/EIS evaluations of impact significance are provided for each resource; this table notes the most significant determination within each resource section identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Air Quality (e.g. produce additional emissions, conflict with applicable local air quality plans, or expose sensitive receptors to additional pollutants)? <i>Final EIR/EIS evaluation: Significant and unavoidable (Class</i> <i>I)/Adverse and unavoidable</i>			

Summary of Proposed Minor Project Refinement Impacts on Air Quality:

Activities associated with construction and utilization of the refinement areas (e.g., the type of equipment used and the number of truck trips) will be consistent with those discussed in the Final EIR/EIS and will not increase air emissions beyond what was analyzed. The Cucca Loop Staging and Fly Yard is located within 1,000 feet of sensitive receptors (the closest of which is approximately 350 feet away, which is similar to other staging and/or fly yards that were approved in the Final EIR/EIS), and other requested refinements are located adjacent to sensitive receptors as well. Accordingly, additional minor grading, vegetation clearing, and helicopter activities may result in a minor increase in air quality impacts in localized areas. However, minor grading and vegetation clearing will be short term and temporary, and large equipment and helicopter use will be temporary and intermittent. In addition, the reconstruction of 1,500 feet of the overhead alignment (instead of undergrounding that segment) will reduce the amount of ground disturbance and potential air emissions. With implementation of APM AIR-01 through APM AIR-05, use of the refinement areas will not expose adjacent sensitive receptors to substantial pollutant concentrations, which is consistent with the analysis in the Final EIR/EIS. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to air quality as identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Biological Resources (e.g., result in temporary or permanent loss of native vegetation, preserve areas, native wildlife and/or their habitats; cause an adverse effect to jurisdictional waters or sensitive or special-status species; result in the introduction of invasive, non-native, or noxious plant species; conflict with local, regional, or state habitat conservation plan; or interfere with the movement of any resident or migratory wildlife)? <i>Final EIR/EIS evaluation: Less than significant with mitigation</i> (<i>Class II</i>)/Adverse			

Summary of Proposed Minor Project Refinement Impacts on Biological Resources:

The majority of the requested refinement areas were previously surveyed for sensitive vegetation communities and special-status plant and wildlife species during initial surveys that were conducted for the Project. In addition, the requested refinement areas were surveyed in 2017 during engineering field reviews and the Pre-activity Study Report (PSR) process in accordance with SDG&E's Subregional Natural Community Conservation Plan.

The requested refinements will total approximately 3.82 acres of temporary impacts and less than 0.01 acre of permanent impacts (including vegetation communities and developed/disturbed areas). This includes temporary and permanent impacts to the following vegetation communities:

- approximately 0.67 acre of Diegan coastal sage scrub,
- approximately 0.81 acre of mixed oak woodland,
- approximately 1.35 acres of non-native grassland, and
- approximately 0.01 acre of southern mixed chaparral, and
- less than 0.01 acre of southern riparian forest.

Special-status butterfly host plants—including dot-seed plantain (*Plantago erecta*) and woolly plantain (*Plantago patagonica*)—are located within or adjacent to the requested refinement areas. Impacts to these plants will be avoided to the maximum extent possible by installing fencing/flagging near the known locations. The requested refinements do not occur within United States (U.S.) Fish and Wildlife Service-designated critical habitat. All APMs and mitigation measures (MMs) defined in the Project's Mitigation Monitoring, Compliance, and Reporting Program—as well as other permit and plan conditions—will be implemented as applicable to minimize or mitigate for additional impacts. Thus, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to biological resources as identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Cultural and Paleontological Resources (e.g., cause an adverse change to Traditional Cultural Properties or historical, archeological, or paleontological resources; or disturb any human remains)?			
Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse			

Summary of Proposed Minor Project Refinement Impacts on Cultural and Paleontological Resources:

The requested refinements were not surveyed during initial surveys for the Project due to land access approval, but they do occur within the Project's area of potential effect, as defined in the Project's Programmatic Agreement. Supplemental, intensive pedestrian surveys of the refinement areas were conducted by ASM Affiliates, Inc. in 2016 and 2017. No new cultural resources were identified, and two previously recorded cultural resources were identified within 50 feet of the refinement areas. At the La Jolla Band of Luiseño Indians' request, there will be a Native American monitor at every Project location on the La Jolla Reservation. In conclusion, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to cultural resources as defined in the Final EIR/EIS.

The requested refinements are underlain by the same geological formations along TL682 as analyzed in the Final EIR/EIS, which includes geologic rock units/formations assigned a rank of Potential Fossil Yield Classification (PFYC) Class 1 (very low sensitivity) and Class 3 (moderate or unknown sensitivity). There are a number of requested refinements underlain by sedimentary rock units with a PFYC Class 3 ranking, including direct-bury replacements for Poles P618327, P618328, and P819181. In accordance with APM CUL-08, a paleontological monitor will be present for excavation activities associated with the replacement poles in areas that are underlain by PFYC Class 3 deposits. In addition, the Paleontological Monitoring & Treatment Plan will be updated to include the additional poles that require monitoring. The disturbance from minor grading and vegetation clearing associated with the other types of refinements will not be deep enough to affect any paleontological resources. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to paleontological resources as identified in the Final EIR/EIS.

Greenhouse Gases (e.g., result in a net increase of greenhouse gas emissions, or conflict with an applicable plan, policy, or regulation that reduces greenhouse gas emissions)?	\boxtimes	
Final EIR/EIS evaluation: Less than significant (Class III)/Not adverse		

Summary of Proposed Minor Project Refinement Impacts on Greenhouses Gases:

Activities associated with construction and utilization of the requested refinement areas are consistent with the greenhouse gas (GHG) analysis in the Final EIR/EIS. Additional minor grading and vegetation clearing will occur, but the reconstruction of approximately 1,500 feet of the overhead alignment (instead of undergrounding that segment) will reduce the amount of ground disturbance and potential GHG emissions. Therefore, the refinements will not trigger an exceedance of the GHG threshold of 10,000 metric tons of carbon dioxide equivalent per year or the County of San Diego Climate Action Plan criteria for annual grading and land clearing. In conclusion, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to GHG emissions as identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Public Health and Safety (e.g., result in a significant hazard to the public or the environment through the transport, use, or disposal of hazardous materials; emit hazardous waste within one-quarter mile of a school; be located on a hazardous materials site; result in a safety hazard for people residing or working in the Project area; interfere with an adopted emergency plan; or create safety hazards due to structural failure)? <i>Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse</i>			

Summary of Proposed Minor Project Refinement Impacts on Public Health and Safety:

The requested refinements occur within the area assessed in the *Report on ASTM Phase I Environmental Site Assessment Cleveland National Forest Electric Safety and Reliability Project San Diego County, California.* No known hazardous materials sites are located in the requested refinement areas. The closest privately owned airports to the Cucca Loop Staging and Fly Yard are the Pauma Valley Air Park and Lyall-Roberts Airport, which are located more than six miles west of the yard. Temporary helicopter operations are not expected to interfere with air traffic patterns and are consistent with the analysis in the Final EIR/EIS. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to public health and safety as identified in the Final EIR/EIS.

Fire and Fuels Management (e.g., increase the probability of a wildfire, reduce the effectiveness of firefighting, or introduce non-native plants that would contribute to ignition potential)?

Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse



Summary of Proposed Minor Project Refinement Impacts on Fire and Fuels Management:

The requested refinements will be located within the Very High Fire Hazard Severity Zone, which is consistent with the Fire and Fuels Management analysis in the Final EIR/EIS. The potential risk of wildfire ignition and spread associated with the refinement areas will be managed in compliance with the Project's Construction Fire Prevention/Protection Plan. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to fire and fuels management as identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Hydrology and Water Quality (e.g., result in increased levels of turbidity, introduce contaminants, deplete groundwater supplies, or degrade water quality)? <i>Final EIR/EIS evaluation: Significant and unavoidable (Class</i> <i>I)/Adverse and unavoidable</i>			

Summary of Proposed Minor Project Refinement Impacts on Hydrology and Water Quality:

TL682 was surveyed for the presence of waters of the state and/or the U.S. (i.e., jurisdictional wetlands or nonwetland waters) during initial surveys that were conducted for the Project. In addition, supplemental water resource surveys of the refinement areas were conducted in 2017 during engineering field reviews and the PSR process. The requested refinement areas do not contain any waters of the state or the U.S. under the jurisdiction of the California Department of Fish and Wildlife, Regional Water Quality Control Board, or U.S. Army Corps of Engineers. Although some of the refinement areas are located near the San Luis Rey River and Cedar Creek, impacts to these waters will be avoided, and no additional jurisdictional water permitting will be required. To minimize potential impacts from erosion and off-site sedimentation during construction, the refinement areas are being incorporated into the Storm Water Pollution Prevention Plan for Phase III of TL682, which will be submitted to the U.S. Environmental Protection Agency's eNOI system. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to hydrology and water quality as identified in the Final EIR/EIS.

Summary of Proposed Minor Project Refinement Impacts on Land Use:

In accordance with the Construction Notification Plan and MM LU-1, property owners within 1,000 feet of TL682 were notified of construction activities on June 7, 2017, and the property owners within 1,000 feet of the requested refinements were included in that notification process. The requested refinements will not introduce a new land use, establish a permanent barrier or obstacle between uses, or create a physical division or separation of use. In addition, the requested refinements will not conflict with the applicable land use plans, policies, or regulations of an agency with jurisdiction over the Project, as they are located in the same County of San Diego land use and zoning designations that were analyzed in the Final EIR/EIS. Therefore, the requested refinements will not result in new significant impacts or a substantial increase in the severity of a previously analyzed impact to land use as identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist			
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A
Noise (e.g., disturb sensitive receptors and violate local rules, standards, and/or ordinances; or cause ground borne vibration)? <i>Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse</i>			

Summary of Proposed Minor Project Refinement Impacts on Noise:

Additional construction-related noise will be generated within the requested refinement areas due to anchor and pole-top work, vegetation removal, minor grading, stringing conductor, pole installation/replacement, and helicopter and large equipment operation. The Cucca Loop Staging and Fly Yard is located within 1,000 feet of sensitive receptors (the closest of which is approximately 350 feet away, which is similar to other staging and/or fly yards that were approved in the Final EIR/EIS), and other requested refinements are located adjacent to sensitive receptors as well. Accordingly, use of the refinement areas may result in temporary increases in noise levels. However, the construction activities will be short term and temporary at any given location, and large equipment and helicopter use will be temporary and intermittent. In addition, with implementation of noise-related MMs and APMs, noise impacts from construction activities associated with the refinement areas will be the same as those analyzed in the Final EIR/EIS. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to noise as identified in the Final EIR/EIS.

Public Services and Utilities (e.g., result in construction of new, or expansion of existing, facilities for fire protection, municipal water supplies, telecommunications, and solid waste; or disrupt electric service)?	\boxtimes		
Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse			

Summary of Proposed Minor Project Refinement Impacts on Public Services and Utilities:

The requested refinements are consistent with the public services and utilities analysis in the Final EIR/EIS, and will not require new or expanded facilities or services. In addition, any applicable refinements will be included in ongoing coordination with AT&T in accordance with MM PSU-1. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to public services and utilities as identified in the Final EIR/EIS.

Final EIR/EIS Consistency Checklist					
Would the proposed action(s) result in a new impact, or increase the severity of a previously analyzed impact to:	No Change	Potentially Significant Change	N/A		
Recreation (e.g., reduce access and visitation to recreation areas, preclude recreational activities, or result in increased, unauthorized access to specially designated or restricted areas)?	\boxtimes				
Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse					

Summary of Proposed Minor Project Refinement Impacts on Recreation:

The requested refinement areas will be located adjacent to or within close proximity to the approved TL682 alignment; thus, the refinement areas will also be located near the Oak Knoll Campground, Amago Sports Park, and La Jolla Indian Campground. As described in the Final EIR/EIS, temporary work areas may partially encroach on SR-76, Sengme Oaks Road, and Campground Road, which may result in traffic delays and temporarily reduce access to recreational areas accessible via SR-76. However, implementation of APM TRANS-01, APM TRANS-04, and APM TRANS-05 will minimize those impacts, and any restriction of access to or reduction in visitation at nearby recreational areas will be limited. In addition, while pole removal/installation will occur within the boundary of the La Jolla Indian Campground, these activities will be short term, and work will not occupy campground sites or impede tubing opportunities in the San Luis Rey River. Therefore, use of the refinement areas will not substantially reduce or preclude access or visitation to these recreational areas, or increase the possibility of unauthorized access to specially designated or restricted areas, which is consistent with the Final EIR/EIS. In conclusion, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to recreation as identified in the Final EIR/EIS.

Transportation and Traffic (e.g., conflict with an applicable congestion management program or a plan, ordinance, or policy associated with the circulation system or alternative transportation; increase hazards due to a design feature; or result in inadequate emergency access)?		
Final EIR/EIS evaluation: Less than significant with mitigation (Class II)/Adverse		

Summary of Proposed Minor Project Refinement Impacts on Transportation and Traffic:

The requested refinements will not require additional or different types of construction vehicles and equipment than those discussed in the Final EIR/EIS for construction of the approved Project. In addition, the total number of truck trips associated with construction of the Project will not change, and the refinements will affect the same roadways analyzed in the Final EIR/EIS (e.g., SR-76, Poomacha Road, and Sengme Oaks Road), as well as several smaller public and private roads. With the implementation of APM TRANS-01 through APM TRANS-05, potential temporary impacts to the existing levels of service (LOS)⁷ will be adequately addressed. Therefore, the requested refinements will not result in a new significant impact or a substantial increase in the severity of a previously analyzed impact to transportation and traffic as identified in the Final EIR/EIS.

⁷ SR-76 has an LOS of B, and an LOS does not exist for Poomacha Road, Sengme Oaks Road, and the smaller public and private roads.

ATTACHMENT B: COMPARISON MAP









^{2/15/2018}






















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ATTACHMENT C: IMPACTS TABLE

ATTACHMENT C: IMPACTS TABLE

Table 1: Impacts Table lists the temporary and permanent impacts¹ of this Minor Project Refinement (MPR) request by vegetation type and workspace type.

		Approximate Impacts (acres)				
Impact Location	Native Vegetation	Non-Native Grassland	Agricultural/Disturbed/ Developed/Bare Ground			
Permanent Impacts						
Anchors	< 0.01	< 0.01	<0.01			
Poles	< 0.01	< 0.01	<0.01			
Total	<0.01	<0.01	<0.01			
Temporary Impacts						
Access Roads ²	0.16	0.03	0.12			
Anchor Work Areas	0.05	0.01	0.04			
Guard Structure Work Areas	< 0.01		0.02			
Pole Work Areas	0.43	0.04	0.46			
Stringing Sites	0.65		0.19			
Temporary Access/Entry/Turnaround	0.21	0.07	0.14			
Cucca Loop Staging and Fly Yard		1.19	0.01			
Total	1.50	1.35	0.97			
MPR #14 Total	1.50	1.35	0.97			

Table 1: Impacts Table

¹ Some of the refinements are reconfigurations or shifts of the approved 2015 baseline components. Therefore, any area that overlaps with the 2015 baseline components is not included in the temporary and permanent totals.

² San Diego Gas & Electric Company uses three types of access roads—maintained, navigation, and construction only. Construction-only access roads can sometimes require improvements and maintenance, which create temporary impacts to vegetation.

ATTACHMENT B: NTP #13 COMPONENTS MAP





Cleveland National Forest Power Line Replacement Projects

- Fly Yard/Staging Area
- ----- Maintained Access Road
- --- Navigation Access Road

Notes: 1. Some of the roads depicted in these maps do not match the aerial imagery. This is due to slight discrepancies between the aerial photographs and the georeferenced access road data.





Attachment B: NTP #13 Components Map Phase 3 of TL682 Map 2 of 6

Cleveland National Forest Power Line Replacement Projects

Pole Top Work Only
 Removal
 Tap Pole Replacement
 Wood-to-Steel Replacement
 Wood-to-Steel Replacement
 Construction-Only Access Road

Bureau of Indian Affairs Land

Notes:

 Some of the roads depicted in these maps do not match the aerial imagery. This is due to slight discrepancies between the aerial photographs and the georeferenced access road data.





Attachment B: NTP #13 Components Map Phase 3 of TL682 Map 3 of 6

Cleveland National Forest Power Line Replacement Projects

- O Pole Top Work Only
- Tap Pole Replacement
- S Wood-to-Steel Replacement
- S Wood-to-Steel Replacement 12 kV Only
- Stringing Site
- Existing Overhead
- Wood-to-Steel Replacement
- Construction-Only Access Road
- --- Navigation Access Road

Bureau of Indian Affairs Land

Notes:

1. Some of the roads depicted in these maps do not match the aerial imagery. This is due to slight discrepancies between the aerial photographs and the georeferenced access road data.

Attachment B: NTP #13 Components Map Phase 3 of TL682 Map 4 of 6

Cleveland National Forest Power Line Replacement Projects

2		
	N	New Steel Pole
	0	Pole Top Work Only
	R	Removal
	Т	Tap Pole Replacement
	S	Wood-to-Steel Replacement
	S	Wood-to-Steel Replacement 12 kV Only
		Guard Structure Work Area
		Stringing Site
		- Removal
		 Wood-to-Steel Replacement
		Construction-Only Access Road
		Navigation Access Road
		Bureau of Indian Affairs Land
18		
	Notes	:
	1. Sor the ae	ne of the roads depicted in these maps do not match
	betwe	en the aerial photographs and the georeferenced
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Cleveland National Forest Power Line Replacement Projects

N	New Steel Pole
S	Wood-to-Steel Replacement
	Guard Structure Work Area
	Stringing Site
	New Overhead Service
	Wood-to-Steel Replacement
	Navigation Access Road
	Bureau of Indian Affairs Land

Notes: 1. Some of the roads depicted in these maps do not match the aerial imagery. This is due to slight discrepancies between the aerial photographs and the georeferenced access road data.

Attachment B: NTP #13 Components Map Phase 3 of TL682 Map 6 of 6

Cleveland National Forest Power Line Replacement Projects

Wood-to-Steel Replacement
 Wood-to-Steel Replacement
 Construction-Only Access Road
 Avigation Access Road

Bureau of Indian Affairs Land U.S. Forest Service

Notes:

 Some of the roads depicted in these maps do not match the aerial imagery. This is due to slight discrepancies between the aerial photographs and the georeferenced access road data.

ATTACHMENT C: PRE-CONSTRUCTION STATUS REPORT

Attachment C: Pre-Construction Status Report

-To Be Implemented During Construction

-Pending

-To Be Implemented Following Construction

Report Criteria:

SOURCE: MMCRP

TIMING: Design; Design and During; Design and Post; Pre; Pre and During; Pre and Post; Pre, During, and Post LOCATION: TL682 Phase III

Location: TL682 Phase III

Measure Category MMNo TaskNo Mitigation Measure Task Text

Title Visual VIS-01 Scenery SDG&E shall file with the CPUC a Scenery Conservation Plan that is approved by the Forest Service and provided to other 01 Conservation Plan applicable jurisdictional agencies for review and comment. Each 69 kV power line or 12 kV distribution line segment will be covered under an individual section of the plan, and each section will be reviewed and approved by the appropriate agencies prior to any ground-disturbing activities for the specific segment. The purpose of this plan is to identify and implement specific actions that will minimize the project's visual disturbance to the naturally established scenery. Specific actions shall also be identified and implemented for individual poles to protect existing views from established scenic vistas and roadways located

outside of the CNF. Power and distribution line support towers shall be designed to minimize their visual prominence and contrast to the natural landscape. Individual poles anticipated to create adverse effects to scenic vistas and/or particularly noticeable visual contrast in existing views shall be designed, located, shaped, textured, and/or screened as necessary to minimize during construction. their visual contrast, blend and complement the adjacent forest and community character. Methods such as limiting the number of climbing pegs and identifying less visually intrusive pole markings for high voltage lines, consistent with CPUC requirements, shall be considered. SDG&E shall also be required to provide photorealistic visual simulations of typical proposed designs that include design features that may be incorporated into poles identified for visual treatment to demonstrate the effectiveness of such features in reducing visual contrast and prominence as viewed from sensitive viewsheds. V//C 02 01 CNIEL If the Forest Service colocts to fire bardon TL62 .

Visual	VIS-02	01	CNF Land	If the Forest Service selects to fire harden TL626, TL629, TL6923 or C157 or relocate TL626 (Options 1,2,3a,3b,4 and 5, it would	TL682 was not ident
			Management Plan	have to approve a project-specific CNF Land Management Plan Amendment contemporaneously with the decision to authorize	ROD as conflicting w
			Amendment	the MSUP and pole replacement project. The project-specific plan amendment would amend the Land Management Plan to allow	Objectives establishe
				project-specific exemptions for inconsistencies with the CNF Land Management Plan scenic integrity objectives.	Management Plan o
					Management Plan A
					therefore, this meas

Visual	VIS-02 02	2	CNF Land Management Plan Amendment	SDG&E would be required to compensate the Forest Service for the loss in scenic quality associated with the negative scenery effects that are inconsistent with the LMP scenic integrity objectives. Compensation shall be accomplished through agency approved scenery restoration activities, fee-payment for scenery restoration projects, or preservation of comparable lands.	TL682 was not identified in the Final EIR/EIS USFS ROD as conflicting with the Scenic Inter Objectives established in the 2005 Land Management Plan or the 2014 Land Management Plan Amendment for the CNF; therefore, compensatory mitigation is not required, and this measure is not applicable.
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Biological	APM-	01	Plant and Wildlife	All work areas will be surveyed for special-status plant and wildlife species by a qualified biologist prior to the commencement of	Qualified biologists conducted pre-activity	Pre	Complete
Resources	BIO-02		Surveys	construction in accordance with SDG&E's pre-activity survey report requirements.	surveys of this component in accordance with		
					SDG&E's Subregional NCCP operational		
					protocols. Documentation of the Pre-Activity		
					Study Report submittal to the USFWS and		
					CDFW was provided to the CPUC and USFS on		
					May 23, 2017.		

-Complete

-Not Applicable OR To Be Implemented Immediately Prior to Construction

Comments

The USFS approved the Scenery Conservation Pre and Complete Plan on September 8, 2016. A final copy of the During plan was provided to the CPUC for its records on September 8, 2016. An updated plan that includes the entirety of TL682 was submitted to the USFS on March 22, 2017. The USFS approved the plan on April 24, 2017. The Scenery Conservation Plan will be implemented ified in the Final EIR/EIS or N/A Pre vith the Scenic Integrity ed in the 2005 Land or the 2014 Land Amendment for the CNF; sure is not applicable. N/A ified in the Final EIR/EIS or Pre ting with the Scenic Integrity ed in the 2005 Land or the 2014 Land

Timing

Status

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological Resources	APM- BIO-05	01	Stringing Sites	Stringing site locations are designed with a preference toward placement within roadways, where possible, to minimize additional potential impacts from grading and vegetation removal that may otherwise be required if these stringing sites were required to be located in vegetated, off-road areas.	SDG&E placed string roadways to the ma which will be showr Sensitive Resources to the USFS and CPU
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Biological	APM-	01	Implement NCCP in	Although Laguna Mountains Skipper is not covered under SDG&E's Natural Community Conservation Plan (NCCP), SDG&E will	No modeled critical
Resources	BIO-06		Laguna Mountains	utilize NCCP protocols 1, 2, 3, 5, 7, 8, 10, 11, 13, 14, 17, 24, 25, 29, 34, 35, 41, 44, 48, 54, 55, and 57 in United States (U.S.) Forest	for Laguna Mountai
			Skipper Habitat	Service- (Forest Service-) modeled critical habitat and occupied habitat to minimize any potential impacts to this species. In	Phase III of TL682; th
				addition, SDG&E will have a qualified biologist survey any Laguna Mountains Skipper habitat prior to work.	applicable.

Biological A Resources	APM- BIO-07	01	CA Spotted Owl Consultation	If California spotted owls are identified in the vicinity of proposed work areas during the pre-activity survey process, SDG&E will consult with the appropriate resource agencies to avoid impacts to nesting California spotted owl.	SDG&E will impleme before and during co avoid impacts to nes California spotted ov owls are detected, SI appropriate resource
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Biological Resources	APM- BIO-08	01	Design New Poles with Avian Protection Practices	SDG&E will design and install all new poles to conform to the guidelines in the Suggested Practices for Avian Protection on Power Lines Manual developed by the Avian Power Line Interaction Committee.	The APP was prepar BIO-28 and was app 18, 2016; the USFW CPUC on July 19, 20 30, 2016. The APP in measures that will b guidelines for specia to meet APLIC stand implemented during
					implemented dum

Biological	APM-	01	Bat Roost	If active bat roosts are identified during pre-activity surveys, SDG&E will coordinate with the U.S. Fish and Wildlife	No active bat roosts
Resources	BIO-09		Coordination	Service/California Department of Fish and Wildlife as appropriate.	activity surveys of Pl
					this measure is not a

Biological Resources BIO-01 01 Work Limits Confine all construction and construction-related activities to the minimum necessary area. All construction areas, access to construction areas, and construction-related activities shall be strictly limited to the areas identified in Section B, Project workspaces will be strictly limited to the areas identified in Section B, Project and Sensitive Resources and/or flagging prior to beginning work in any area. In areas where SDG&E will not work within exclusive-use easements, SDG&E will post temporary signage along approved work limits, indicating that the area is an active construction/work zone and access is temporarily restricted. An environmental monitor shall complete weekly observations to ensure that all work is completed within the approved work limits, in the event any work occurs beyond the approved limits, it shall be reported by SDG&E's restricted access sign compliance team in accordance with the Mitigation Monitoring, Compliance, and Reporting program (see Section H).						
	Biological Resources	BIO-01	01	Work Limits	Confine all construction and construction-related activities to the minimum necessary area. All construction areas, access to construction areas, and construction-related activities shall be strictly limited to the areas identified in Section B, Project Description, Table B-7. The limits of approved work spaces (not including existing access roads) shall be delineated with stakes and/or flagging prior to beginning work in any area. In areas where SDG&E will not work within exclusive-use easements, SDG&E will post temporary signage along approved work limits, indicating that the area is an active construction/work zone and access is temporarily restricted. An environmental monitor shall complete weekly observations to ensure that all work is completed within the approved work limits, and in the event any work occurs beyond the approved limits, it shall be reported by SDG&E's compliance team in accordance with the Mitigation Monitoring, Compliance, and Reporting program (see Section H).	Final engineering pla workspaces will be s and Sensitive Resour 2018. The approved delineated with stak immediately prior to restricted access sign work areas outside of easements immedia

Biological Resources	BIO-02	01	Contractor Training	Conduct contractor training for all construction staff. Prior to construction, all developer, contractor, and subcontractor personnel shall receive training regarding the appropriate work practices necessary to implement the mitigation measures and comply with environmental regulations, including plant and wildlife species avoidance, impact minimization, and best management practices. Sign-in sheets and hard hat decals shall be provided that document contractor training has been completed for construction personnel.	All construction pers required Worker Env Program training imm on the Project and w to indicate that they Training sign-in shee the Weekly Environm during construction.

Comments

Design	Pending
Pre and During	N/A
Pre	To Be Implemented Immediately Prior to Construction
Design and During	To Be Implemented During Construction
Pre	N/A
Pre and During	Pending
Pre and During	To Be Implemented Immediately Prior to Construction
	Design Pre and During Pre Design and During Pre and During

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological Resources	BIO-03	01	Biological Monitoring	Conduct biological construction monitoring. An authorized biological monitor must be present at the construction sites during all initial ground-disturbing and vegetation-removal activities in undeveloped areas (i.e., not roads or existing developed areas). The monitor shall survey the construction project footprint and surrounding areas for compliance with all environmental specifications. Weekly biological construction monitoring reports shall be prepared and submitted to the appropriate permitting and responsible agencies through the duration of the ground-disturbing and vegetation-removal construction phase. Monthly biological construction monitoring reports and submitted through the duration of project construction to document compliance with environmental requirements.	Biological monitors approved by the CPUC and the USFS will conduct monitoring during initial ground disturbance and vegetation removal activities. Biologists that were identified as "trainees only" by the USFS will only conduct monitoring on private lands or under the supervision of a fully approved biologist on USFS-managed lands. Biological monitoring results will be summarized in the Weekly Environmental Compliance Reports.	Pre and During	To Be Implemented During Construction
Biological Resources	BIO-04	01	Habitat Restoration	Restore all temporary construction areas pursuant to a Habitat Restoration Plan (HRP). All previously undisturbed temporary work areas not subject to long-term use or ongoing vegetation maintenance shall be revegetated with native species characteristic of the adjacent native vegetation communities in accordance with a Habitat Restoration Plan as described in SDG&E NCCP 7.2 Habitat Enhancement Measures. Restoration techniques may include the following: hydroseeding, hand-seeding, imprinting, and soil and plant salvage. Any salvage and relocation of species considered desert native plants shall be conducted in compliance with the California Desert Native Plant Act. The HRP shall include success criteria and monitoring specifications and shall be approved by the permitting agencies prior to construction of the project. At the completion of project construction, all construction materials shall be completely removed from the site. Topsoil located in areas to be restored will be conserved and stockpiled during the excavation process for use in the restoration of sites requiring restoration. Wherever possible, vegetation will be left in place or mowed, and not grubbed, or the NCCP, to avoid excessive root damage and allow for natural regrowth following construction. Temporary impacts shall be considered a permanent impact and compensated accordingly (see MM BIO-5). Specifically, the HRP, the temporary impact shall be considered a permanent impact and compensated accordingly (see MM BIO-5). Specifically, the HRP will include the following sections: Introduction; Mitigation Measure Summary; Plan Objectives; Plan Implementation; Pre-Construction Documentation; Clearing and Grading; Cleanup; Seeding; Other Planting Methods- Schedule-Restoration, Seeding and Planting- Restoration Monitoring; Monitoring Success Criteria, and Remedial Measures; Reporting; Completion of Restoration Program- Reference. The HRP will be prepared by a habitat restoration specialist (approved by the CPUC and Forest Service) who will oversee impl	The Habitat Restoration Plan was approved by the CPUC and USFS on August 11, 2016. Jeffry Coward was approved as a Habitat Restoration Specialist by the CPUC on September 14, 2015 and by the USFS on October 26, 2015. Cecilia Meyer-Lovell was approved as a Habitat Restoration Specialist by the CPUC on May 31, 2016 and by the USFS on May 23, 2016. The Habitat Restoration Plan will be implemented during construction.	Pre, During, and Post	To Be Implemented During Construction

characteristic of the adjacent native vegetation communities in accordance with a Habitat Restoration Plan as described in SDG&E	Coward was appr
NCCP 7.2 Habitat Enhancement Measures. Restoration techniques may include the following: hydroseeding, hand-seeding,	Specialist by the C
imprinting, and soil and plant salvage. Any salvage and relocation of species considered desert native plants shall be conducted in	and by the USFS of
compliance with the California Desert Native Plant Act. The HRP shall include success criteria and monitoring specifications and	Meyer-Lovell was
shall be approved by the permitting agencies prior to construction of the project. At the completion of project construction, all	Restoration Speci
construction materials shall be completely removed from the site. Topsoil located in areas to be restored will be conserved and	2016 and by the U
stockpiled during the excavation process for use in the restoration of sites requiring restoration. Wherever possible, vegetation	Habitat Restoration
will be left in place or mowed, and not grubbed, or the NCCP, to avoid excessive root damage and allow for natural regrowth	during construction
following construction. Temporary impacts shall be restored sufficient to compensate for the impact to the satisfaction of the	
permitting agencies (depending on the location of the impact). If restoration of temporary impact areas does not meet success	
criteria per the HRP, the temporary impact shall be considered a permanent impact and compensated accordingly (see MM BIO-	
5). Specifically, the HRP will include the following sections: Introduction; Mitigation Measure Summary; Plan Objectives; Plan	
Implementation; Pre-Construction Documentation; Clearing and Grading; Cleanup; Seeding; Other Planting Methods- Schedule-	
Restoration; Seeding and Planting- Restoration Monitoring; Monitoring Success Criteria, and Remedial Measures; Reporting;	
Completion of Restoration Program- Reference. The HRP will be prepared by a habitat restoration specialist (approved by the	
CPUC and Forest Service) who will oversee implementation of the HRP. The HRP shall be submitted to the CPUC and the Forest	
Service for review and approval prior to implementation.	

Biological Resources	BIO-06	01	Fire Prevention	Implement fire prevention best management practices during construction and operation activities. Fire prevention best management practices shall be implemented during construction and operation of the project as specified by the Construction Fire Prevention/Protection Plan (to be developed as required under MM FF-1 and MM FF-2). The PALS system will be followed for any work on National Forest System lands.	The Construction Fire Prevention/Protection Plan was approved by the SDCFA on December 2, 2015; by SDRFPD, CAL FIRE, and the BLM on December 18, 2015; by the BIA on January 7, 2016; by the USFS on June 17, 2016; and by the CPUC on July 29, 2016. Updated plans were submitted to the CPUC and USFS on September 30, 2016 and May 31, 2017, but no approval was required. SDG&E coordinated with the USFS on edits to Attachment 2: Project Fire Prevention Matrix on CNF Land of the plan, and the USFS approved the edits on October 17, 2017. A copy was provided to the CPUC for its records on October 19, 2017. Fire prevention BMPs will be implemented during construction in accordance with the plan.	Pre and During	To Be Implemented During Construction
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Measure Category MMNo TaskNo Mitigation Measure Task Text Title

BIO-0701SWPPPrepare and implement a Stormwater Pollution Prevention Plan. Prepare a Stormwater Pollution Prevention Plan pursuant to the specifications described in APM HYD-05 and MM HYD-1.Phase III of TL682 is located entirely on the La Jolla Reservation and will be encolled under the EPA's Construction General Permit (2017 Construction General Permit). Permit Registration Documents, which include an NOI and a SWPPP, will be electronically filde through the EPA's eNOI system to receive coverage under the 2017 Construction General Permit. Upon receipt from the EPA and prior to construction, a Waste Discharge I dentificationPre and DuringPending
USFS. The SWPPP will be implemented during

Biological Resources	BIO-09	01	Pole Replacement with RCAs	SDG&E shall identify all proposed replacement pole locations within the vicinity of Riparian Conservation Areas (RCAs) to identify those poles and associated access roads that can be reasonably relocated outside these areas and consult with the Forest Service for authorization of their relocation and proposed placement. These Forest Service requirements will only apply to National Forest System lands.	Phase III of TL682 is not located on USFS- managed land; therefore, this measure is not applicable.	Pre and During	N/A
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Biological Resources	BIO-10 01	Limit Impacts to Jurisdictional Features	Limit temporary and permanent impacts to jurisdictional features to the minimum necessary. Formal jurisdictional delineation and permits are required prior to construction for all work areas located within or adjacent to jurisdictional wetlands and waters. The applicant shall obtain and implement the terms and conditions of agency permit(s) for unavoidable impacts to jurisdictional wetlands and waters. All construction areas, access to construction areas, and construction-related activities shall be strictly limited to the areas within the approved work limits and delineated with stakes and/or flagging that shall be maintained throughout the construction period. The project applicant shall obtain applicable permits and provide evidence of permit approval, which may include but not be limited to a Clean Water Act Section 404 Permit from the ACOE, a Clean Water Act Section 401 water quality certification from the RWQCB, and a Section 1602 Streambed Alteration Agreement with the California Department of Fish and Wildlife for impacts to jurisdictional features prior to project construction. These permits are anticipated to be approved under the MSUP. The terms and conditions of these authorizations shall be implemented.	Surveys for waters of the U.S. and the state under the jurisdiction of the U.S. Army Corps of Engineers, the Regional Water Quality Control Board, and the California Department of Fish and Wildlife were completed in accordance with MM BIO-10. No impacts to waters of the U.S. and the state from SDG&E's final design and planned construction activities were identified for Phase III of TL682. Therefore, no permits from jurisdictional resource agencies will be obtained, and existing permits will not be utilized.	Pre and During	N/A
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Biological Resources	BIO-10	02	Limit Impacts to Jurisdictional Features	In addition, prior to conducting work or establishing the final design of a selected transmission line alignment, a planning-level assessment of aquatic resources will be conducted to identify the environmentally preferred alternative. The assessment will include review of the National Hydrography Dataset, National Wetland Inventory, U.S. Geological Survey topographic maps, high-resolution digital photography, and necessary field checking. Once the environmentally preferred alternative is identified, a jurisdictional delineation will be conducted of the selected transmission line to ensure the final design is the Least Environmentally Damaging Practicable Alternative (LEDPA) and is in compliance with the Clean Water Act (CWA) Section 404(b)(1) Guidelines. The CWA Section 404 permit authorization will be obtained for any discharges into waters of the United States and the widths of access roads and construction of bridges over waters of the United States will be minimized to the extent feasible.	Surveys for waters of under the jurisdiction Engineers, the Region Board, and the Califo and Wildlife were con MM BIO-10. No impa and the state from SI planned construction for Phase III of TL682 from jurisdictional re obtained, and existin utilized.

Comments

f the U.S. and the state			
n of the U.S. Army Corps of nal Water Quality Control prnia Department of Fish impleted in accordance with acts to waters of the U.S. DG&E's final design and in activities were identified 2. Therefore, no permits esource agencies will be ng permits will not be	f the U.S. and the state n of the U.S. Army Corps of nal Water Quality Control ornia Department of Fish mpleted in accordance with acts to waters of the U.S. DG&E's final design and n activities were identified 2. Therefore, no permits esource agencies will be ng permits will not be	Pre	N/A

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

BIO-11 Resources01Habitat Creation, Enhancement, Preservation, or RestorationImplement habitat creation, enhancement, preservation, and/or restoration fue loss of jurisdictional waters and wetlands. Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or at a minimum of a 1:1 ratio or as required by the permitting agencies or prior to construction of the project. A habitat restoration effort shall be designated and approved by the permitting agencies and will determine the most appropriate method of restoration. Restoration techniques may include hydroseeding, hand-seeding, imprinting, and soil and plant salvage (as discussed in SD&& NCCP 7.2 Habitat Enhancement Measures). Temporary impacts shall be considered a permanent impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly. All habitat creation and restoration used as mitigation for the proposed project on public lands shall be located in areas designated for resource protection and management. All habitat creation and restoration used as mitigation for the proposed project on survances.Construction activity of TL682 will not in the state under the Corps of Engineers Control Board, and waters of the U.S. mitigation is not restoration techniques may include hydroseeding, hand-seeding, imprinting, and soil and plant salvage (as discussed in SD&& NCCP 7.2 Habitat Enhancement Measures). Temporary impact shall be considered a permanent impact areas is not possible to the satisfaction of the appropriate agency. In the temporary impact shall be considered a permanent imp	intic					
	Biological Resources	BIO-11	01	Habitat Creation, Enhancement, Preservation, or Restoration	Implement habitat creation, enhancement, preservation, and/or restoration pursuant to a wetland mitigation plan to ensure no net loss of jurisdictional waters and wetlands. Temporary and permanent impacts to all jurisdictional resources shall be compensated through a combination of habitat creation (i.e., establishment), enhancement, preservation, and/or and restoration at a minimum of a 1:1 ratio or as required by the permitting agencies. Any creation, enhancement, preservation, and/or restoration effort shall be implemented pursuant to a Habitat Restoration Plan, which shall include success criteria and monitoring specifications, and shall be approved by the permitting agencies prior to construction of the project. A habitat restoration specialist will be designated and approved by the permitting agencies and will determine the most appropriate method of restoration. Restoration techniques may include hydroseeding, hand-seeding, imprinting, and soil and plant salvage (as discussed in SDG&E NCCP 7.2 Habitat Enhancement Measures). Temporary impacts shall be considered a permanent impact areas is not possible to the satisfaction of the appropriate agency, the temporary impact shall be considered a permanent impact and compensated accordingly. All habitat creation and restoration used as mitigation for the proposed project on private lands shall include long-term management and legal protection assurances.	Construction activitie of TL682 will not impo- the state under the ju Corps of Engineers, th Control Board, and th Fish and Wildlife. The waters of the U.S. and mitigation is not requ

Biological	BIO-12	01	Drainage Crossing	Where drainage crossings are unavoidable, construct access roads at right angles to drainages. Unless not possible due to existing	No new, permanent
Resources			Requirements	landforms or site constraints, access roads shall be built perpendicular to drainages to minimize the impacts to these resources	constructed for Phas
				and prevent impacts along the length of jurisdictional features.	this measure is not a

Biological Resources	BIO-13	01	Special Status Plant Surveys	Conduct preconstruction surveys for special status plants in areas not accessible during previous rare plant surveys. Prior to construction, San Diego Gas & Electric (SDG&E) shall retain a qualified biologist approved by the California Public Utilities Commission (CPUC) and Forest Service to conduct a focused rare plant survey on site during the time period when the previously described special-status plant species are detectable. Table D.4-123 in EIR/EIS describes the 40 blooming plant species that shall be surveyed, months they shall be surveyed (i.e., blooming periods), and the TL/circuits on which they occur. Cuyamaca cypress and tecate cypress can be surveyed anytime of the year. Surveys shall be conducted in areas not included during rare plant surveys (see Chambers Group Inc. 2012b, Table 2). Of the 40 species described, there is some potential for 8 of these species to occur in vernal pools, including California Orcutt grass*, Cuyamaca larkspur, long-spined spineflower, Orcutt's brodiaea*, San Diego goldenstar*, San Diego thornmint*, Santa Lucia dwarf rush, and variegated dulleya*. These 8 species are also included in Table D.4-12. These species will also be protected through implementation of, the SDG&E Natural Community Conservation Plan (NCCP), and through avoidance of impacts to wetlands (MM BIO-10 through MM BIO-12). Locations of special-status plant shall be identified and inventoried. The qualified biologist shall supervise 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 qualified biologist and approved by the CPUC. Alternatively, if the special-status plant species in question is a Covered Species are identified and approved by the CPUC. Alternatively, if the special-status plant species in question is a Covered Species are identified within the biological survey area shall be provided to CP	In 2016, qualified biologists (who were approved by the CPUC and USFS) conducted special-status plant surveys in areas of TL682 that were not accessible during previous special- status plant surveys, as well as for the entire alignment. The 2016 Rare Plant Survey Report for TL682 was submitted to the CPUC and USFS on December 21, 2016.	Pre and During	Complete
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Comments

ities associated with Phase III npact waters of the U.S. and e jurisdiction of the U.S. Army 5, the Regional Water Quality d the California Department of Therefore, no net loss of and the state will occur, and equired.	Pre and During	N/A

access roads will be	Pre and	N/A
e III of TL682; therefore,	During	
pplicable.		

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological Resources	BIO-15	01	Special-Status Plant Compensation	Implement special-status plant species compensation. Impacts to special-status plant species shall be maximally avoided. Where impacts to special-status plant species are unavoidable, the impact shall be quantified and compensated through off-site land preservation and/or plant salvage and relocation. Where off-site land preservation is biologically preferred, the land shall contain comparable special-status plant resources as the impacted lands and shall include long-term management and legal protection assurances to the satisfaction of the Forest Service. Land preservation must be completed within 36 months of initiation of construction. Where salvage and relocation is demonstrated to be feasible and biologically preferred, it shall be conducted pursuant to an agency-approved plan that details the methods for salvage, stockpiling, and replanting, as well as the characteristics of the receiver sites. Any salvage and relocation plans shall be approved by the permitting agencies prior to project construction. Any salvage and relocation of species considered desert native plants shall be conducted in compliance with the California Desert Native Plant Act. Success criteria and monitoring shall also be included in the plan. If salvage and relocation is not possible to the satisfaction of the Forest Service, off-site land preservation shall be required. Forest Service requirements will only apply to National Forest System lands.	The Special-Status Plant Species Salvage and Relocation Plan was approved by the CPUC on August 22, 2016 and by the USFS on August 24, 2016. SDG&E will implement the Special-Status Plant Species Salvage and Relocation Plan prior to initial ground-disturbing activities. The approved Habitat Restoration Plan will be implemented during and after construction for impacts to sensitive plant species.	Pre and During	To Be Implemented During Construction
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Biological Resources	BIO-16	01	Special-Status Butterfly Fencing and Surveys	Install fencing or flagging around identified special-status butterfly host species populations in the construction areas and road maintenance. Prior to the start of construction, a qualified biologist shall conduct focused surveys during the appropriate blooming period for larvae or adult (nectar sources or egg laying sources) plant for the following species: Hermes copper butterfly, Laguna Mountains skipper, or Quino checkerspot butterfly. These host plants include Cleveland's horkelia, western plantain, bird's beak, owl's clover, California buckwheat, and spiny redberry. Similar protective measures for special-status plants (identified in MM BIO-13 and MM BIO-14) shall be implemented. Occupied or suitable habitat for these species shall be avoided to the greatest extent feasible. In addition to the implementation of SDG&E NCCP Operational Protocols, site visits will be conducted prior to construction and road maintenance. Prior to site visits, a digital database of known host plant populations will be reviewed. Site visits will verify the known locations of host plant populations in the area and, if present, avoid those locations.	Notification of planned butterfly and host plant surveys is provided during the weekly Construction Status Meetings with the CPUC and USFS. In 2016, qualified biologists (who were approved by the USFS and CPUC) conducted focused special-status plant surveys along TL682 to identify locations of host plant species for special-status butterflies. GIS shapefiles of the locations of all special-status and host plant species observed during the surveys were submitted to the CPUC and USFS on November 2, 2016. A Workspace and Sensitive Resources Map, depicting areas to be fenced or flagged in order to protect special- status butterfly host plant species, will be submitted to the CPUC and USFS on February 15, 2018. All special-status butterfly host plant species observed within suitable habitat for special-status butterflies will be flagged for avoidance to the greatest extent feasible immediately prior to construction.	Pre	Pending
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Timing Status

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red special-status plant ovided during the weekly Meetings with the CPUC ualified biologists (who ne USFS and CPUC) atus plant surveys of TL682. ting the results of the tions of special-status plant were submitted to the lovember 2, 2016. Special- will be fenced or flagged o construction along this space and Sensitive cting special-status plant cations of fencing/flagging the CPUC and USFS on	Pre and During	Pending
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Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological Resources	BIO-17	01	Butterfly Protocol Surveys	Conduct protocol surveys for Quino checkerspot, Hermes copper, and Laguna Mountains skipper butterflies within 1 year prior to project construction activities in occupied habitat. The project proponent shall conduct preconstruction protocol surveys for Quino checkerspot butterfly, Laguna Mountains skipper, and Hermes copper butterfly within 1 year prior to construction activities (or unless coordination with the U.S. Fish and Wildlife Service determines that SDG&E's low-effect habitat conservation plan (HCP) for Quino (SDG&E 2007) adequately protects the species, historical surveys are adequate, or as superseded by consultation with the USFWS and Forest Service) in any project construction area known to support the species. Surveys shall be conducted by a qualified biologist in accordance with the most currently accepted protocol survey methods for Quino checkerspot and Laguna Mountains skipper. This includes current habitat assessment and reporting requirements. Results shall be reported to USFWS and the CDFW South Coast Regional Office within 45 days of the completion of the survey. Surveys for Hermes copper which includes any woody (mature) spiny redberry shrub with California buckwheat within 15 feet. California buckwheat within 15 feet. California buckwheat within 15 feet of a mature spiny redberry nearby is not considered suitable habitat. If California buckwheat is within 15 feet of a mature spiny redberry data shall be provided to the CDFW South Coast Regional Office.	Notification of pl surveys is provide Construction Stat and USFS. There habitat along TLE butterfly or Lagu no occupied or n checkerspot butt SDG&E's Low-Eff QCB are required Areas. SDG&E an that implementa for QCB provides species. Nonethe biologists (who w CPUC) conducted along TL682 in ac The QCB Focused submitted to the 2016, and to the 2016. Document Survey Report su USFWS was prov
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Biological	BIO-18	01	Butterfly Habitat	Provide compensation for temporary and permanent impacts to Occupied or Critical Habitat for Quino checkerspot, Hermes	No designated critica
Resources			Compensation	copper, and Laguna Mountains skipper butterfly habitat through conservation and/or restoration. Temporary and permanent	copper butterfly, or L
				impacts to Quino checkerspot butterfly and Laguna Mountains skipper shall be compensated through a combination of habitat	occurs along TL682. E
				compensation and habitat restoration at a minimum of a 2:1 mitigation ratio for occupied non-critical habitat and a minimum of a	survey results and the
				3:1 mitigation ratio for critical habitat, or as required by the permitting agencies. Forest-related impacts will be mitigated at the	HCP, there is no occu
				ratios provided above on Forest Service lands and in coordination with the Forest Service. Habitat compensation shall be	TL682. There is no ha
				accomplished through U.S. Fish and Wildlife Service-approved land preservation or mitigation fee payment for the purpose of	supports Laguna Mou
				habitat compensation of lands supporting Quino checkerspot butterfly or Laguna Mountains skipper as appropriate. Mitigation	copper butterfly. No
				for Hermes copper butterfly shall consist of 1:1 replacement of temporary impacts to occupied habitat, where host plants are	impacts to occupied
				impacted, and at a 2:1 ratio where permanent impacts occur. Land preservation or mitigation fee payment for habitat	Hermes copper butte
				compensation must be completed within 18 months of permit issuance. Habitat restoration may be appropriate as habitat	skipper habitat are a
				compensation provided that the restoration effort is demonstrated to be feasible and implemented pursuant to a Habitat	compensation for im
				Restoration Plan, which shall include success criteria and monitoring specifications and shall be approved by the permitting	measure is not applic
				agencies prior to project construction. All habitat compensation and restoration used as mitigation for the proposed project on	
				public lands shall be located in areas designated for resource protection and management. All habitat compensation and	
				restoration used as mitigation for the proposed project on private lands shall include long-term management and legal protection	
				assurances.	

Biological Resources	BIO-19	01	Avoid Butterfly Host Plants	Final design of power and distribution line and access roads through Quino checkerspot and Laguna Mountains skipper critical habitat and Hermes copper occupied habitat shall maximally avoid host plants for these species. The final design of the proposed project through Quino checkerspot, Hermes copper, and Laguna Mountains skipper butterfly habitat shall maximally avoid and minimize habitat resources used by these species based on safety and other superseding regulatory requirements. The applicant shall explore alternate tower locations, reduced road widths, reduced vegetation maintenance, and other design modifications to minimize impacts to host plants in critical habitat for these species, and it shall obtain agency approval of the final design through this area. If impacts are not avoided, compensatory mitigation, as described per MM BIO-18, will be required. This measure shall apply to all locations that have been designated as critical or occupied habitat for these species.	This measure applies to QCB and Laguna Mountains skipper critical habitat and Hermes copper butterfly occupied habitat. No QCB and Laguna Mountains skipper critical habitat or Hermes copper butterfly occupied habitat exists along TL682; therefore, this measure is not applicable.	Pre	N/A
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hed butterfly and host plant during the weekly Meetings with the CPUC o occupied or suitable for Hermes copper Mountains skipper. There is ped habitat for Quino ly along TL682. Based on HCP for QCB, no surveys for itside of the HCP Mapped the USFWS have established in of SDG&E's Low-Effect HCP equate protection for this s, in 2016, qualified e approved by the USFS and otocol-level QCB surveys rdance with MM BIO-17. Irvey Report for TL682 was UC and USFS on July 25, FW and USFWS on August 8, on of the QCB Focused ittal to the CDFW and d to the CPUC and USFS on	Pre	Complete
al habitat for QCB, Hermes Laguna Mountains skipper Based on 2016 protocol ne SDG&E QCB Low-Effect upied QCB habitat along abitat along TL682 that ountains skipper or Hermes temporary or permanent or critical habitat for QCB, erfly, or Laguna Mountains anticipated; therefore, no npacts is required, and this cable.	Pre and During	N/A

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological Resources	BIO-20	01	Obtain Wildlife Permits	Obtain and implement the terms of agency permit(s) with jurisdiction federal or state-listed species. In addition to the obligation of the Forest Service consulting with the USFWS on the project, if federally listed wildlife species not already covered by SDG&E's NCCP (including any species that may be listed prior to issuance of the PTC and MSUP) may be impacted by the project, the Forest Service will initiate a Section 7 consultation with the U.S. Fish and Wildlife Service (USFWS). If state-listed wildlife species not already covered by SDG&E's NCCP may be impacted by the project, SDG&E will seek a Section 2081 permit (or consistency determination) from the California Department of Fish and Wildlife (CDFW). In addition, take authorization for golden eagles will require coordination with the USFWS and CDFW. SDG&E shall implement and/or adhere to all USFWS recommendations stipulated by the Forest Service in the Special Use Permit; SDG&E shall implement and/or adhere to all requirements in CDFW permit. SDG&E will not need a Section 2081 permit if the potentially impacted species or action is covered by SDG&E's NCCP. The Forest Service is required to consult with the USFWS for their federal action (approving the MSUP) as identified in Section A, Table A-3.	The Project is covered by SDG&E's Subregional NCCP and QCB Low-Effect HCP. A Biological Opinion was issued for the Project on November 19, 2015. Conservation measures from the Biological Opinion will be implemented prior to and during construction.	Pre	To Be Implemented Immediately Prior to Construction
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Biological	BIO-20	02	Obtain Wildlife	When conducting work within designated critical habitat for the Quino checkerspot butterfly, SDG&E shall implement all	This measure applies to areas within designated	Pre and	N/A
Resources			Permits	applicable protocols to avoid and minimize impacts to this species defined in the SDG&E Low-Effect Habitat Conservation Plan for	critical habitat for QCB. There is no critical	During	
				Quino.	habitat for QCB along TL682; therefore, this		
					measure is not applicable.		

Biological Resources	BIO-20	03	Obtain Wildlife Permits	Additionally, when working within designated critical habitat for Laguna Mountains skipper, SDG&E shall implement all impact minimization measures for Laguna Mountains skipper (USFS 2006c), consistent with USFWS direction (USFWS 2006, 2007), which includes:1. Prior to project work, a qualified biologist shall identify all LMS habitat (to include host plant and nectar sources) within 10 meters of the proposed project(s) ROW. SDG&E facilities that are within designated critical habitat for Laguna Mountains skipper are shown on USFWS Critical Habitat maps (71 FR 74592–74615). During any maintenance activities, a qualified biologist will be present to monitor work and ensure that Laguna Mountains skipper habitat is not affected.2. Chipping of vegetation shall not be allowed in known or potential Laguna Mountains skipper habitat. This includes the ROW within or adjacent to (within 10 meters) known or potential Laguna Mountains skipper habitat. Potential habitat shall be identified by the qualified biologist either during the host plant/nectar source survey or some time previous to the onset of ROW work. 3. Vehicles or tracked equipment shall only be allowed on existing roads or trails when operating within or adjacent to Laguna Mountains skipper habitat. Prior to operation of vehicles on existing roads or trails, a qualified biologist will ensure that the road or trail itself does not contain host plants or nectar sources. 4. Any project that may adversely affect the Laguna Mountains skipper shall require consultation with the U.S. Fish and Wildlife Service. If the NCCP is not used, then formal consultation with the USFWS and CDFW will need to occur to determine the need for take permits	This measure applies to areas within designated critical habitat for Laguna Mountains skipper. There is no critical habitat for Laguna Mountains skipper along TL682; therefore, this measure is not applicable.	Pre and During	N/A
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Biological Resources	BIO-21	01	Sensitive Butterfly Species Construction Measures	If construction occurs in occupied and/or suitable habitat for sensitive butterfly species, SDG&E will implement the following: Quino checkerspot: SDG&E will comply with the avoidance and minimization measures outlined in the existing Low-Effect Habitat Conservation Plan for Quino checkerspot butterfly.	This measure applie suitable QCB habita Low-Effect HCP and results by qualified approved by the CP habitat exists along unoccupied suitable SDG&E will comply HCP as applicable. A Resources Map dep QCB habitat will be USFS on February 12 construction of TL68 from March/April 20 2018.
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TL682, but there is habitat along TL682. vith the QCB Low-Effect Workspace and Sensitive cting unoccupied suitable submitted to the CPUC and 5, 2018. Phase III 2 is scheduled to occur 18 to November/December	to occupied and/or Based on the SDG&E QCB the 2016 protocol survey QCB biologists (who were JC and USFS), no occupied FL682, but there is habitat along TL682. vith the QCB Low-Effect Workspace and Sensitive cting unoccupied suitable ubmitted to the CPUC and by 2018. Phase III 2 is scheduled to occur 18 to November/December	Pre and During	Pending
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Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological	BIO-21	02	Sensitive Butterfly	Hermes copper: Because this species is not state- or federally listed, the following will only be required for activities: While	This measure applies
Resources			Species	performing construction activities within the flight season, a qualified biological monitor will be on-site for all project activities to	suitable Hermes copp
			Construction	assure that both impacts to host plants and direct take of Hermes copper butterflies are avoided to the greatest extent feasible.	occupied or suitable l
			Measures	The biological monitor may temporarily stop work in the event a Hermes copper butterfly is observed within the immediate	butterfly occurs along
				construction area (i.e., the flagged work areas currently being used for construction activities.)	measure is not applic

Biological Resources	BIO-21	03	Sensitive Butterfly Species Construction	Laguna Mountains skipper butterfly: Construction will occur outside of the flight season OR at least 10 meters (33 feet) away from all host plant locations. If there is a known or newly discovered occurrence during the flight season, construction shall be prohibited within 1 kilometer (0.6 mile) of the occurrence or unless coordination with the U.S. Fish and Wildlife Service	This measure applies to occupied and/or suitable Laguna Mountains skipper habitat. No occupied or suitable habitat for Laguna	Pre and During	N/A
			Measures	determines construction activities may commence. The Laguna Mountains skipper flight season occurs from April to July.	Mountains skipper occurs along TL682; therefore, this measure is not applicable.		

Biological Resources	BIO-22	01	Biological Monitoring	Biologists will monitor construction activities. San Diego Gas & Electric (SDG&E) shall retain qualified biologists and other qualified resource specialists, as necessary, to monitor all project construction activities that could reasonably result in impacts to biological resources. All monitor qualifications shall be reviewed and approved by the California Public Utilities Commission (CPUC) prior to conducting monitoring activities along the right-of-way. Monitors shall be responsible for preconstruction surveys, work area delineations (i.e., staking, flagging, etc.) to comply with SDG&E's Natural Community Conservation Plan, on-site monitoring, and documentation of violations and compliance. Monitors shall also delineate pre-determined access routes using markers or signs and ensure the maintenance of markers or signs on a regular basis.	CPUC- and USFS-approved biological monitors will conduct monitoring and delineate access routes during and immediately prior to construction activities. Biological monitors that were identified as "Trainees Only" by the USFS will only conduct monitoring on private lands or under the supervision of a fully approved biologist on USFS-managed lands. Biological monitoring results will be submitted within the Weekly Environmental Compliance Reports.	Pre and During	To Be Implemented Immediately Prior to Construction
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Biological Resources	BIO-24 01 Speed Limits Enforce speed limits in and around all construction areas. Vehicles shall r in SDG&E NCCP 7.1 Operational Protocols) and the right-of-way accessing night.	not exceed 15 miles per hour on unpaved roads (as stated ig the construction site or 10 miles per hour during the segmentation that the MMCRP was incorporated into the construction contracts was provided to the CPUC and USFS on July 20, 2016. Documentation that MM BIO-24 was included in the Worker Environmental Awareness Program was provided to the CPUC and USFS on July 20, 2016. Project biological monitors will enforce speed limits along this component during construction, and compliance with this measure will be documented in the Weekly Environmental Compliance Reports submitted to the CPUC and USFS.	Be Implemented During
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Biological Resources	BIO-26 01 Prohibit Littering	Prohibit littering and remove trash from construction areas daily. Littering shall not be allowed by the project personnel. All food- related trash and garbage shall be removed from the construction sites on a daily basis.	Documentation that the MMCRP was incorporated into the construction compliance contract was provided to the CPUC and USFS on July 20, 2016. Documentation that MM BIO-26 was included in the Worker Environmental Awareness Program was provided to the CPUC and USFS on July 20, 2016. This measure will be implemented during construction along this component and documented in the Weekly Environmental Compliance Reports.	Pre and During	To Be Implemented During Construction
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es to occupied and/or opper butterfly habitat. No le habitat for Hermes copper ong TL682; therefore, this olicable.	Pre and During	N/A

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological	BIO-27	01	Prohibit Harassment	Prohibit the harm, harassment, collection of, or feeding of wildlife. Project personnel shall not harm, harass, collect, or feed	Documentation that
Resources			of Wildlife	wildlife. No pets shall be allowed in the construction areas.	incorporated into t
					contract was provid
					July 20, 2016. Docu
					was included in the
					Awareness Progran
					and USFS on July 20
					implemented durin
					component and do
					Environmental Com

Biological Resources	BIO-28	02	Implement Bird Protection Measures	To avoid avian disturbance by construction activities, an Avian Protection Plan, including a Nesting Bird Management Plan, shall be developed in coordination with the Wildlife Agencies prior to project onset to develop measures based on site specific conditions to protect birds. This Avian Protection Plan shall be implemented by SDG&E and their biological monitors with oversight by the CPUC and the Forest Service. The Plan shall include procedures to allow the Wildlife Agencies open communication with the biological monitor(s) and access to scientific data collected that will be electronically stored in a database approved by the CPUC, the Forest Service, and the Wildlife Agencies. Between February and September during project construction, SDG&E shall provide a monthly summary of nesting bird monitoring activities and at the completion of each nesting season shall provide an evaluation of the data collected to date as specified in the Nesting Bird Management Plan. B. The Project's transmission pole and line design may have an impact on certain raptor species. Consequently, in addition to the construction activities, the Plan shall address avian mortality related to line strikes through the use of adaptive management (i.e., measures to make the lines more visible to the suite of species affected), in response to reported mortalities. C. The Avian Protection Plan shall include the following measures: a. Compliance with the Migratory Bird Treaty Act b. Compliance with Fish and Game Code Sections 3503, 3503.5, and 3511c. Activities shall be prohibited with i. Approximately 0.25 mile of California spotted owls are not nesting within the 0.25- mile radius; ii. 500 feet of raptor and owl active nests; iii. 500 feet of federally and/or state-listed birds active nests; iv. 250 feet of occupied burrowing owl burrows from February 1 to August 31 or within 160 feet from September 1 through January 31; and. 150 feet of non-listed birds and as specified in the avian protection plan for other bird species of concern.	The APP/NBMP was with the Wildlife Age APP/NBMP was rece May 18, 2016; from 2016; from the USFS the CPUC on July 19 be implemented due component.
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Biological	BIO-28	03	Implement Bird	If year-round burrowing owls are identified and there would only be temporary indirect impacts, then work may continue	Burrowing owls have
Resources			Protection Measures	through coordination with the CDFW and monitoring. If it appears that the burrowing owls may be directly impacted, then a	Phase III of TL682. CF
				relocation plan will be developed for the specific burrowing owl(s). This plan would include the methods to relocate, location of	avian biologists will o
				the relocation, and post-relocation monitoring. Active relocation and banding of birds is not required. Similar buffers will be	surveys in complianc
				utilized for non-Forest Service lands as specified in the Avian Protection Plan and Nesting Bird Management Plan. "Nest" is	burrowing owls are i
				defined as a structure or site under construction or preparation, constructed or prepared, or being used by a bird for the purpose	vicinity, the required
				of incubating eggs or rearing young. Perching sites and screening vegetation are not part of the nest. "Active nest" is defined as	followed in accordan
				once birds begin constructing, preparing, or using a nest for egg-laying. A nest is no longer an "active nest" if abandoned by the	the CDFW-approved
				adult birds or once nestlings or fledglings are no longer dependent on the nest.	
			11		1

Biological Resources	BIO-28	04	Implement Bird Protection Measures	d. Apply APLIC Measures. Specific APLIC measures to be applied must, at a minimum, must allow the circuits to meet National Electric Safety Code (NESC) requirements and should provide general information on specialized construction designs to meet APLIC standards. In particular, conductor separation between the energized and grounded hardware should meet the current state of the art requirements to protect species up to California condor. If appropriate separation is not feasible, then the energized parts and hardware should be covered. As appropriate, bird diverters should be deployed as well.	The APP includes spe will be applied, as we specialized construct standards. The APP v construction.
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the MMCRP was e construction compliance ed to the CPUC and USFS on nentation that MM BIO-27 Worker Environmental was provided to the CPUC , 2016. This measure will be construction along this umented in the Weekly pliance Reports.	Pre and During	To Be Implemented During Construction
developed in coordination encies. Approval of the eived from the CDFW on the USFWS on June 20, 5 on June 30, 2016; and from , 2016. The APP/NBMP will ring construction along this	Pre and During	To Be Implemented During Construction
e not been detected on PUC- and USFS-approved conduct pre-construction ce with MM BIO-28. If identified in the Project d procedures will be nce with MM BIO-28 and APP/NBMP.	Pre and During	To Be Implemented Immediately Prior to Construction
ecific APLIC measures that ell as guidelines for tion designs to meet APLIC will be implemented during	Pre and During	To Be Implemented During Construction

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Comments

Biological Resources	BIO-28	05	Implement Bird Protection Measures	D. The database shall include special features to accommodate additional variables (covariate) information requested by the Wildlife Agencies designed for this Project that will provide data which will contribute to the scientific standards of effective avian avoidance measures. In order to help evaluate buffer effectiveness, nests shall be monitored on a daily basis by a qualified biologist during disturbance and-related activities (i.e., brushing, tree trimming, ground-disturbing activities, mechanized or manual construction/removal/installation, and restoration activities) and every 4 days following disturbance until nest fates have been determined for entry into the database. Daily nest monitoring will be conducted by a qualified biologist, from as far away as possible while still being able to observe activity. The biologist need not observe the actual contents of the nest, but may extrapolate status based on adult behaviors. Actual surveys of the nest contents must not occur more than weekly (i.e., allow at least 7 days between nest visits) and visits should be very brief, paths should go by the nest without stopping if possible, the biologist should not touch leaves or branches, and should take a new route each time they pass by the nest. If brown-headed cowbirds or potential nest predators (e.g., scrub jays, crows, ravens) are in the area, then the visit should be postponed until they are gone.	CPUC- and USFS-appr conduct surveys and construction activitie BIO-28. Avian biologi approved by the CPU monitoring on privat supervision of a fully The Avian Reporting Section 8 - Avian Rep approved NBMP. Nes accordance with the will continue to provi

Biological	BIO-28	06	Implement Bird	At a minimum, the plan(s) shall include the following sections: Plan Objectives; Applicable Mitigation Measures; Environmental Awareness Program, Evisting Avian Resources: Construction Process and Timing (related to avian recourse protection): Specific	The APP/NBMP has been developed in	Pre and	To Be Implemented During
Resources			Protection Measures	Avalences Program, Existing Avian Resources, Construction Process and Timing (related to avian resource protection), Specific APLIC measures to be Applied; Nest Survey and Monitoring Method; Surveyor Experience and Training; Nesting Bird Survey Protocol: Standard Buffer Distances as determined in consultation with Wildlife Agencies: Protections of Listed Species, Bantors	Approval of the APP/NBMP was received from the CDEW on May 18, 2016; from the USEWS on	During	Construction
				and Eagles; Nest Monitoring Data Collection; Avian Reporting System; Nest Monitoring Log to include fates of all nests monitored; Reporting including update of database accessible to Wildlife Agencies; Nest Management; Nesting Habitat Reduction; Nesting Deterrent; Nest Removal; Risk Assessment and Mortality Reduction; Quality Control and Effectiveness; Avian Enhancement; Key Resources; Prior to the start of construction and implementation, SDG&E shall submit the plan to the U.S. Fish and Wildlife Service, CDFW, CPUC, and Forest Service for review and approval.	June 20, 2016; from the USFS on June 30, 2016; and from the CPUC on July 19, 2016. The APP/NBMP will be implemented during construction along this component.		

Biological Resources	BIO-28	07	Implement Bird Protection Measures	E. In order to identify locations of current bald eagle (Haliaeetus leucocephalus), golden eagle (Aquila chrysaetos), California spotted owl (Strix occidentalis), American peregrine falcon (Falco peregrinus anatum), or federally and/or state-listed or fully protected bird nests, the monitoring biologists will coordinate with the U.S. Forest Service (Forest Service), U.S. Fish and Wildlife Service, and California Department of Fish and Wildlife (CDFW) to ensure that the most up to date information is made available to monitoring biologists. If work will be conducted within a 1 mile buffer of historic and currently known nests during the bald or golden eagle breeding season (December 15 through July 31), SDG&E will survey the historic and currently known nests sites to determine if they are active. If nests are determined to be active, then work within 1 mile of active nests shall be rescheduled until after the completion of nesting activity at those nests. Alternatively, SDG&E may plan work activities to occur outside of the 1 mile buffers during the breeding season.	Coordination with the USFS, CDFW, and USFWS is ongoing in accordance with this measure. These species are addressed in Section 7.2 Protections of Listed Species, Raptors, and Eagles of the approved NBMP. Immediately prior to and during construction, nest surveys and nest buffers will be implemented in accordance with the approved NBMP.	Pre and During	To Be Implemented Immediately Prior to Construction
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Biological Resources	BIO-30	01	Bat Protection	(A) Townsend's bat protection measures Prior to work being conducted, measures will be employed to protect (a) Townsend's bat and (b) bats in general. Prior to work being conducted, qualified biologists will conduct a literature search for potential roost sites and follow-up surveys for Townsend's big-eared bat maternity roosts within 500 feet of project lines during the breeding/pupping season (April–mid- September). Typical Townsend's big-eared bat roosts occur in mines, caves, buildings, long and dark culverts, and older bridges (pre-1960) (Pierson and Rainey 1994). If any potential structures or features for Townsend's big-eared bat are present within the project area they shall be surveyed.	A literature review a potential Townsend conducted in 2015 a approved bat biolog assessment and focu previously undergro submitted to the CD Documentation of th was provided to the 23, 2016. A bat roos survey report for the was submitted to th Documentation of th was provided to the February 1, 2017.
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S-approved avian biologists will s and nest monitoring during tivities in compliance with MM iologists that were conditionally e CPUC will only conduct private lands under the fully approved avian biologist. rting Database is described in n Reporting Database of the P. Nests will be monitored in n the approved NBMP. SDG&E provide database access to the es, as stipulated in the measure.	Pre and During	To Be Implemented Immediately Prior to Construction

nd follow-up surveys for 's big-eared bat roosts were nd 2016 by CPUC- and USFS- ists. The bat roost	Pre	Complete
used survey report for the und portion of TL682 was FW on July 27, 2016. The submittal to the CDFW CPUC and USFS on August t assessment and field		
e overhead portion of TL682 e CDFW on January 6, 2017. ne submittal to the CDFW CPUC and USFS on		

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Biological Resources	BIO-30	02	Bat Protection	Inspections of potential roosts shall be conducted using an appropriate combination of visual and acoustic survey techniques (including structure inspection, sampling, and/or exit counts) for areas that may be directly or indirectly impacted by the project. Where active roosts are located, reporting shall include: 1) the exact location of all roosting sites (location shall be adequately described and drawn on a map); 2) the number present at the time of visit (count or estimate); 3) the location, amount, distribution, and age of all droppings shall be described and pinpointed on a map; and 4) the type of roost (i.e., night roost – rest at night while out feeding vs. day roost – maternity colony) must also be clearly stated. All survey results, including field data sheets, shall be provided to the CDFW South Coast Regional Office. Locations of all roosts shall be kept confidential to protect them from disturbance. If non-maternity roosts are identified, the CDFW will be notified and consulted. If maternity roosts are present, the CDFW and CPUC will be notified and no work will occur within 500 feet of the roost location until the end of the pupping season or until the roost is determined to be unoccupied by Townsend's big-eared bat. For the protection of young (i.e., unable to fly) and hibernating adults all project-related activities shall be avoided where roosts are present during the winter and spring. No restrictions apply to project vehicle traffic on existing access roads, or to construction activity that occurs outside of the pupping season.	Based on data collected during the literature review, field assessment, and focused surveys conducted for Townsend's big-eared bat, no active roosts were identified within 500 feet of Phase III of TL682.	Pre and During	Complete
Biological Resources	BIO-30	03	Bat Protection	(B) General bat protection measures for other bat species Prior to work being conducted, qualified biologists will conduct a literature search for known general bat roost sites and follow-up surveys within 100 feet of project lines during the breeding/pupping season (April–mid-September). In general, bat species may roost in rock outcrop, dense tree canopies, flaking tree bark, snags, bridges, mine, caves, flumes, and buildings. If any known sites for bats in general are present within the project	A literature review and follow-up surveys for potential bat roosts were conducted in 2015 and 2016 by CPUC- and USFS-approved bat biologists. The bat roost assessment and	Pre	Complete

Biological Resources	BIO-30	03	Bat Protection	(B) General bat protection measures for other bat species Prior to work being conducted, qualified biologists will conduct a literature search for known general bat roost sites and follow-up surveys within 100 feet of project lines during the breeding/pupping season (April–mid-September). In general, bat species may roost in rock outcrop, dense tree canopies, flaking tree bark, snags, bridges, mine, caves, flumes, and buildings. If any known sites for bats in general are present within the project area they shall be surveyed.	A literature review and follow-up surveys for potential bat roosts were conducted in 2015 and 2016 by CPUC- and USFS-approved bat biologists. The bat roost assessment and focused survey report for the previously underground portion of TL682 was submitted to the CDFW on July 27, 2016. Documentation of the submittal to the CDFW was provided to the CPUC and USFS on August 23, 2016. A bat roost assessment and field survey report for the rest of the overhead portion of TL682 was submitted to the CDFW on January 6, 2017. Documentation of the submittal to the CDFW was provided to the CPUC and USFS on February 1, 2017.	Pre	Complete
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Resources (including structure inspection, sampling, and/or exit counts) for areas that may be directly or indirectly impacted by the project. Bats shall be identified to the most specific taxonomic level possible. Where active bat roosts are located, reporting shall include: 1) the exact location of all roosting sites (location shall be adequately described and drawn on a map); 2) the number of bats present at the time of visit (count or estimate); 3) each species of bat present shall be described and pinpointed on a map; and 5) the type of roost (i.e., night roost – rest at night while out feeding vs. day roost – maternity colony) must also be clearly stated. All survey results, including field data sheets, shall be provided to the CDFW South Coast Regional Office. Locations of all roosts shall
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Biological Resources	BIO-30	05	Bat Protection	If potential roosts are determined to be present then the roosts must be analyzed further to determine if Townsend's big-eared bats are present and if maternity roosts are present. If maternity roosts are present, the CDFW and CPUC will be notified and no work will occur within 100 feet of the roost location until the end of the pupping. For the protection of young (i.e., unable to fly) and hibernating adults, all project-related activities shall be avoided where roosts are present during the winter and spring. No restrictions apply to project vehicle traffic on existing access roads, or to construction activity that occurs outside of the pupping season.	Based on data collected during the literature review, field assessment, and focused surveys conducted in 2015 and 2016, no Townsend's big-eared bat roosts were identified within 500 feet of Phase III of TL682, and no maternity bat roosts were identified within 100 feet of Phase III of TL682. If bat roosts are identified in the	Pre and During	To Be Implemented During Construction
					CDFW will be notified. Construction exclusion buffers of 100 feet will be established at maternity roosts during the pupping season for bat species other than Townsend's big-eared bat.		
Measure Category MMNo TaskNo Mitigation Measure Task Text Title

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Biological Resources	BIO-31	01	Kangaroo Rat Survey	Biologists will conduct surveys for Stephens' kangaroo rat. In locations where Stephens' kangaroo rat habitat assessments were not accessible during the 2010 surveys (including the extensive parcels of land westward of Santa Ysabel owned by a single landowner – Map Pages MS-016-025 [Chambers Group Inc. and SJM Biological Consultants 2012; Appendix A] and the large parcel immediately south of Old Highway 80 and southward of southern end of Kitchen Creek Road [Map Page MS-069 [Chambers Group Inc. and SJM Biological Consultants 2012]; Appendix A]), a pedestrian preconstruction survey for potentially occupied suitable habitat (open habitat with suitable soils, slope, and kangaroo rat burrows) and follow-up trapping to confirm species, will be conducted by a California Public Utilities Commission (CPUC)-approved biologist to assess the potential areas for Stephens' kangaroo rat to occur within SDG&E's proposed project area.	TL682 was previously SKR surveys; therefo not required, and th
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Biological Resources	BIO-31	02	Kangaroo Rat Survey	Any burrows, utilized habitat, or signs of Stephens' kangaroo rat utilizing a habitat (e.g., track prints) will be flagged for avoidance during construction activities. The monitoring biologist shall halt construction activities if he or she determines that the construction activities are disturbing Stephens' kangaroo rat occupied habitat. If Stephens' kangaroo rat occupied habitat cannot be avoided during construction, the monitoring biologist shall make recommendations to ensure minimal impacts to the existing Stephens' kangaroo rat habitat and burrows during construction. Recommendations may include, but are not limited to: (1) rerouting access to the project work area for complete avoidance of Stephens' kangaroo rat occupied habitat; or (2) placement of dirt piles or sediment to avoid occupied burrows. Upon completion of the survey and any follow-up construction avoidance management, a report shall be prepared and submitted to the CPUC.	No SKR occupied ha of TL682; therefore, applicable.
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Biological Resources	BIO-33	01	Arroyo Toad Focused Surveys	Focused surveys for arroyo toad shall be conducted. Prior to initiating construction, all riverbed areas within 1,000 feet of construction sites and access roads shall be surveyed during the appropriate season (December 1 through July 31) for arroyo toad. The applicant shall contract with a qualified biologist to conduct focused surveys for arroyo toad. If arroyo toads are detected in or adjacent to the project site, no work will be authorized within 500 feet of occupied habitat until the project applicant receives concurrence from the U.S. Fish and Wildlife Service (USFWS) that work may proceed.	This measure is only therefore, this meas component.
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Biological Resources	BIO-33	02	Arroyo Toad Focused Surveys	If arroyo toads are detected in or adjacent to the project site, the project applicant shall develop and implement a monitoring plan that includes the following measures, in consultation with the USFWS: [Refer to MM BIO-33 in the MMCRP for all 16 monitoring plan specifications]	This measure is only therefore, this meas component.
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Biological	BIO-33	03	Arroyo Toad	On Forest Service lands, occupied arroyo toad breeding habitat will be mitigated at a 3:1 ratio; occupied arroyo toad upland	This measure is only
Resources			Focused Surveys	burrowing habitat will be mitigated at 2:1; and unoccupied arroyo toad habitat (or designated critical habitat) will be mitigated at	therefore, this measu
				2:1. In addition, a Forest Service consultation will be conducted to verify limited operating periods for arroyo toad are defined.	component.

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Cultural and	APM-	01	Archaeological and	Prior to construction, all SDG&E, contractor, and subcontractor personnel will receive training regarding the appropriate work	The Worker Environ
Paleontological	COL-01		Paleontological	practices necessary to effectively implement the APMs and to comply with the applicable environmental laws and regulations,	Training includes a p
Resources			Trainings	including the potential for exposing subsurface cultural, archaeological, and paleontological resources and how to recognize	applicable environm
				possible buried resources. This training will include a presentation of the procedures to be followed upon discovery or suspected	including the potent
				discovery of cultural and archaeological materials, including Native American remains and their treatment, as well as of	cultural, archaeologi
				paleontological resources.	resources and how t
					resources. This train
					of the procedures to
					discovery or suspect
					archaeological mate
				American remains a	
					as paleontological re
					personnel will atten
					Environmental Awar
					immediately prior to
					Project.

y surveyed during the 2010 re, additional surveys are is measure is not applicable.	Pre	N/A
bitat occurs along Phase III this measure is not	Pre and During	N/A
applicable to C157; ure is not applicable to this	Pre and During	N/A
applicable to C157; ure is not applicable to this	Pre and During	N/A
applicable to C157; ure is not applicable to this	Pre and Post	N/A
mental Awareness Program resentation on the ental laws and regulations, ial for exposing subsurface ical, and paleontological o recognize possible buried ing includes a presentation be followed upon ed discovery of cultural and rials, including Native nd their treatment, as well esources. All construction d the Worker reness Program training beginning work on the	Pre and During	To Be Implemented Immediately Prior to Construction

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Cultural and Paleontological Resources	APM- CUL-02	01	Pre-Construction Cultural Surveys	Intensive pedestrian surveys will be conducted prior to construction in those areas within the ROWs for which initial survey access was not granted to determine the potential for impacts to cultural resources in these areas. Where possible, engineering design will be re-evaluated to determine whether facilities can be relocated to avoid any cultural resources identified from these additional surveys. If relocation is not feasible, APM CUL-03 will be implemented to minimize impacts to sensitive cultural resources.	Cultural resources s were completed du surveys instead of t Project in 2011 and approval.
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APM-	01	Designate ESAs	All potentially National Register-eligible or archaeologically sensitive sites, as defined in the Cultural Resources Technical Report,	ESAs located within
CUL-03			that will not be directly affected by construction but are within 50 feet of replacement pole locations will be designated as	will be delineated w
			Environmentally Sensitive Areas (ESAs). Potentially eligible resources include those that are recommended eligible, as well as	to construction. Fer
			unevaluated sites. Protective fencing or other markers will be erected and maintained to protect these ESAs from inadvertent	inspected for damage
			trespass for the duration of construction in the vicinity. ESAs will not be signed or marked as cultural, historical, or archaeological	repaired as needed.
			resources.	
	APM- CUL-03	APM- CUL-03	APM- CUL-03	APM- CUL-03Designate ESAsAll potentially National Register-eligible or archaeologically sensitive sites, as defined in the Cultural Resources Technical Report, that will not be directly affected by construction but are within 50 feet of replacement pole locations will be designated as Environmentally Sensitive Areas (ESAs). Potentially eligible resources include those that are recommended eligible, as well as unevaluated sites. Protective fencing or other markers will be erected and maintained to protect these ESAs from inadvertent trespass for the duration of construction in the vicinity. ESAs will not be signed or marked as cultural, historical, or archaeological resources.

Cultural and Paleontological Resources	APM- CUL-06	01	Cultural Resources Treatment Plan	In consultation with the Forest Service HPM, BIA Archaeologist, the Tribes, and the SHPO, SDG&E will develop a Cultural Resources Treatment Plan that includes procedures for protection and avoidance, evaluation and treatment, and the curation of any potentially register-eligible cultural materials. Specific protective measures, including a monitoring program, will be defined in the Cultural Resources Treatment Plan to reduce potential adverse impacts on unknown cultural resources to less-than-significant levels.	The required components of the Cultural Resources Treatment Plan were incorporated in the Historic Properties Management Plan. The Historic Properties Management Plan was finalized on August 25, 2016, and was approved by the USFS on August 25, 2016, and by the CPUC and SHPO on August 26, 2016. Completion of MM CUL-01c satisfies the requirements of this APM.	Pre	Complete
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Cultural and Paleontological	APM- CUL-08	04	Paleontological Monitoring	The paleontological monitor will follow the procedures outlined in the Paleontological Monitoring and Treatment Plan, which will be prepared and will include information regarding pre-construction field surveys, construction personnel training, necessary	SDG&E has prepared a Paleontological Monitoring & Treatment Plan and will	Pre and During	To Be Implemented During Construction
Resources				permits, research design, monitoring methodology, fossil discovery and recovery protocols, fossil preparation and curation procedures, and the preparation of a final monitoring report.	implement the plan during construction.		

Cultural and Paleontological Resources	CUL-01	01	Cultural Resource Management	In order to avoid adverse effects to historic properties, SDG&E will implement a comprehensive approach to cultural resource management consistent with any project specific Programmatic Agreement developed between the federal agencies and the SHPO. The comprehensive approach will include, at a minimum, the following elements:	The Project's Programmatic Agreement was finalized in February 2016. The Historic Properties Management Plan was finalized on August 25, 2016, and was approved by the USFS on August 25, 2016 and by the CPUC and SHPO on August 26, 2016. The Project's Historic Properties Management Plan, which outlines procedures for cultural resource management consistent with this measure, will be implemented during construction.	Pre and During	To Be Implemented During Construction
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Cultural and Paleontological Resources	CUL-01 02	Cultural Resource Management	1a. – Inventory and evaluate cultural resources in the Final Area of Potential Effect (APE). Prior to any ground disturbing activities, SDG&E will complete inventories within the APE and submit the results of those inventories for approval by the CPUC and federal agencies. These surveys shall supplement surveys done for the EIR/EIS and will satisfy Section 106 requirements.	Cultural resources surveys for Phase III of TL682 were completed during the 2016 and 2017 surveys instead of the initial surveys for the Project in 2011 and 2013 due to land access approval. The results of these surveys are included as part of an update to Appendix A of the Historic Properties Management Plan, which will be submitted to the USFS prior to construction.	Pre	Pending
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urveys for Phase III of TL682 ing the 2016 and 2017 ie initial surveys for the 2013 due to land access	Pre	Complete
50 feet of construction sites ith protective fencing prior cing will be regularly ge during construction and	Pre and During	To Be Implemented Immediately Prior to Construction

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Cultural and Cultural and Cultural and Cultural Paleontological Resources	CUL-01	03	Cultural Resource Management	1b. – Avoid and protect potentially significant resources. Where feasible, complete avoidance of impacts shall be the preferred strategy. Where the federal agencies and CPUC decide that cultural resources cannot be avoided, they will be incorporated into a Historic Properties Management Plan (HPMP), as described below.	Impacts to cultural and historical resources will be avoided to the maximum extent possible during construction. A mapbook identifying all ESAs to be fenced and avoided during construction will be provided to the CPUC and USFS prior to construction.	Pre and During	Pending

Cultural and Paleontological Resources	CUL-01	04	Cultural Resource Management	1c. – Develop and Implement Historic Properties Management Plan. After completing the inventory and avoidance phase of site design, SDG&E will prepare and submit for approval an HPMP to avoid or mitigate identified potential impacts.	The Historic Properties Management Plan was finalized on August 25, 2016, and was approved by the USFS on August 25, 2016 and by the CPUC and SHPO on August 26, 2016.	Pre and During	Complete
Cultural and Paleontological Resources	CUL-02	01	Reduce Impacts to Historic Cabins	In order to reduce adverse effects and significant impacts to historic resources along C79, C440, and C442 as identified in Table D.5-12 of the EIR/EIS, the original exterior materials on the cabins shall not be removed, modified, or covered. If equipment attached to the cabins must be replaced, the equipment shall retain its original appearance in terms of materials and size. If this cannot be met, then a cultural monitor is required to be present during the replacement of the lines to minimize modifications to the cabin exteriors.	TL682 is not listed in the measure; therefore, this measure is not applicable.	Pre and During	N/A

Cultural and Paleontological Resources	CUL-03	01	Implement CRTR Recommendations	During construction of the proposed power line replacement projects, all measures as identified in Tables 3 and 6 for TL625, Tables 9 and 11 for TL626, Tables 14 and 17 for TL629, Table 20 for TL682, Table 23 for TL6923, Table 26 for C78, Table 29 for C79, Table 31 for C157, Table 34 for C440, Table 37 for C442, and Table 40 for C449 of the Cultural Resources Technical Report prepared by ASM (ASM 2011) shall be implemented. All measures shall be implemented by a qualified archaeologist who is approved by the California Public Utilities Commission and Forest Service. Further, when on City-owned land (portions of C157, T625, and C449), the City's Land Development Manual – Historical Resource Guidelines per the San Diego Municipal Code, Chapter 14, Article 3, Division 2, Section 14.0201, shall be followed (http://docs.sandiego.gov/ municode/MuniCodeChapter14/Ch14Art03Division02.pdf).	All cultural monitoring requirements and recommendations included in the Cultural Resources Technical Report and Appendix A of the Historic Properties Management Plan will be implemented prior to and during construction. Archaeologists approved by the CPUC and USFS will implement the recommendations. Documentation confirming the completion of all recommendations will be provided to the CPUC and USFS in the Weekly Environmental Compliance Reports. A mapbook identifying all ESAs to be fenced and avoided during construction will be provided to the CPUC and USFS prior to construction.	Pre and During	Pending
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Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Fire Protection	FF-01	01	Fire Prevention/Protectio n Plan	SDG&E shall develop a multiagency Construction Fire Prevention/Protection Plan in consultation with the U.S. Forest Service, Bureau of Land Management (BLM), Bureau of Indian Affairs (BIA), California Department of Forestry and Fire Protection of Iead agencies. SDG&E shall monitor construction activities to ensure implementation and effectiveness of the plan. The final plan will be approved by the commenting agencies prior to the initiation of construction activities and shall be implemented during all construction activities by SDG&E. At minimum, the plan will include the following:-Procedures for minimizing potential ignition, Vegetation clearing, Fuel treatment area establishment to Parking requirements, Smoking restrictions, Hot work restrictions- Red Flag Warning restrictions- Fire coordinator role and responsibility- Fire suppression equipment on site at all times work is occurring. Requirements of THE 14 of the California Code of Regulations, 918 "Fire Protection" for the private land portions- Applicable components of the SDG&E Wildland Fire Prevention and Fire Safety Electric Standard Practice 113-1 (July 2012)- Emergency response and reporting procedures- Emergency contact information- Worker education materials; kick-off and tallgate meeting schedules- Other information as provided by responsible and commenting agencies (as appropriate for each project). Additional restrictions will include the following: During the construction phase of the project, the applicant shall implement ongoing fire partols. The applicant shall maintain fire partols during construction hours and for 1 hour after end of daily construction and hotwork; Fire Suppression Resource Inventory – In addition to 14 CCR 918.1(a), (b), and (c), the applicant shall update in writing the 24-hour contact information and on-site fire suppression equipment, tools, and personnel list on a quarterly basis and provide it to the Forest Service, BLM, BIA, SDRPP, DSDCA, and CALF IRE; During Ref Flag Warning events, as issued daily by the National	The Construction Fir Plan was approved b 2, 2015; by the SDRF on December 18, 20 2016; by the USFS of CPUC on July 29, 201 submitted to the CPI 30, 2016 and May 31 was required. SDG& USFS on edits to Atta Prevention Matrix of the USFS approved t 2017. A copy was pri- records on October 1 implemented during

General	APM- (GEN-06	01	Conduct Notifications	Prior to initiating construction, SDG&E will make all the appropriate and necessary notifications, including landowner notifications.	This measure will be satisfied through the implementation of MM LU-01 and in accordance with the Construction Notification Plan.	Pre	Complete
General	APM-	01	Excavation	SDG&E will notify the Underground Service Alert a minimum of 48 hours in advance of excavating or conducting other ground-	This measure will be implemented during	Pre and	To Be Implemented Immediately

GeneralAPM- GEN-0701ExcavationSDG&E will notify the Underground Service Alert a minimum of 48 hours in advance of excavating or conducting other ground- disturbing activities in order to identify buried utilities. Exploratory excavations (potholing) will also be conducted to verify the disturbance as applicable.This measure will be implemented during construction and immediately prior to ground disturbance as applicable.Pre a construction and immediately prior to ground disturbance as applicable.	Pre and During Prior to Construction
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re Prevention/Protection by the SDCFA on December FPD, CAL FIRE, and the BLM 15; by the BIA on January 7, in June 17, 2016; and by the 16. Updated plans were UC and USFS on September 1, 2017, but no approval E coordinated with the achment 2: Project Fire in CNF Land of the plan, and the edits on October 17, ovided to the CPUC for its 19, 2017. The plan will be g construction.	Pre and During	To Be Implemented During Construction

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Hydrology and Water Quality	APM- HYD-04	01	Conduct Wetlands and Waters Surveys	Any areas not surveyed for potentially jurisdictional wetlands or waters due to limited access will be surveyed prior to the start of construction activities and potential impacts will be assessed and the appropriate jurisdictional permits will be obtained as needed.	Surveys for waters of the U.S. and the state under the jurisdiction of the U.S. Army Corps of Engineers, the Regional Water Quality Control Board, and the California Department of Fish and Wildlife were completed in accordance with MM BIO-10. No impacts to waters of the U.S. and the state from SDG&E's final design and planned construction activities were identified for Phase III of TL682. Therefore, no permits from jurisdictional resource agencies will be obtained, and existing permits will not be utilized.	Pre	N/A
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Hydrology and Water Quality	APM- 01 HYD-05	1	SWPPP	SDG&E will prepare and implement a Storm Water Pollution Prevention Plan (SWPPP). The SWPPP will identify BMPs based on its Water Quality BMPs Manual for each activity that has the potential to degrade surrounding water quality through erosion, sediment run-off, and other pollutants. These BMPs will then be implemented and monitored by a Qualified SWPPP Practitioner.	Phase III of TL682 is located entirely on the La Jolla Reservation and will be enrolled under the EPA's Construction General Permit (2017 Construction General Permit). Permit Registration Documents, which include an NOI and a SWPPP, will be electronically filed through the EPA's eNOI system to receive coverage under the 2017 Construction General Permit. Upon receipt from the EPA and prior to construction, a Waste Discharge Identification Number will be submitted to the CPUC and USFS. The SWPPP will be implemented during construction.	Pre and During	Pending
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Hydrology and Water Quality	HYD-01	01	Erosion Control Plan/SWPPP	As required by the Construction General Permit, SDG&E shall develop a Storm Water Pollution Prevention Plan (SWPPP) for the project or for individual construction segments, as required, to reduce soil erosion during construction. The SWPPP(s) and verification of submittal to the RWQCB shall be submitted to the CPUC and Forest Service prior to Notice to Proceed issuance for the respective construction segment. SDG&E shall provide the CPUC and Forest Service with subsequent amendments to the SWPPP as part of SDG&E's weekly compliance reports. In weekly construction compliance reports, SDG&E shall note when Storm Water Construction Site Inspection Report Forms have been posted to the Storm Water Multiple Application and Report Tracking System (SMARTS) following storm events.	Phase III of TL682 is located entirely on the La Jolla Reservation and will be enrolled under the EPA's Construction General Permit (2017 Construction General Permit). Permit Registration Documents, which include an NOI and a SWPPP, will be electronically filed through the EPA's eNOI system to receive coverage under the 2017 Construction General Permit. Upon receipt from the EPA and prior to construction, a Waste Discharge Identification Number will be submitted to the CPUC and USFS. The SWPPP will be implemented during construction.	Pre and During	Pending
Hydrology and Water Quality	HYD-01	02	Erosion Control Plan/SWPPP	SDG&E shall develop and implement an Erosion Control Plan (ECP) for construction, operations, and maintenance activities in order to prevent and control soil erosion and gullying. The ECP shall include Forest Service best management practices specific to re-vegetation requirements (scarifying the soil, and fertilizing, seeding and/or mulching, as required to achieve proper post-construction site stabilization) and incorporate Construction General Permit SWPPP requirements for each construction segment as the SWPPP(s) for that segment are completed. Additionally, the ECP shall complement restoration goals and objectives identified in the Habitat Restoration Plan, as required under MM BIO-4. The ECP shall be updated for each construction segment and provided to the (CPUC) and the federal agencies for review and approval prior to each agency's Notice to Proceed issuance for that construction segment.	The Erosion Control Plan was approved by the CPUC and USFS on August 11, 2016.The plan will be submitted to the CPUC and USFS with updates to Attachment D: SWPPP BMP Site Maps for Phase III of TL682 prior to construction. The Erosion Control Plan will be implemented during construction.	Pre, During, and Post	Pending

Comments

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Hydrology and Water Quality	HYD- 02a	01	Water Supply Plan	For water that is to be purchased from one or more public or private water/utility district(s), private landowners, or from tribes, SDG&E shall provide to the CPUC written documentation from such district(s) and/or landowners indicating the total amount of water to be provided and the time frame that the water will be made available to the project. The documentation shall also indicate the type of water (potable or reclaimed) and the specific source of the water (groundwater well or surface diversions). The sources and amounts of water to be obtained by SDG&E shall be documented in a Water Supply Plan (WSP) to be submitted to the CPUC prior to notice to proceed for each project component.	The Water Supply Plan was approved by the USFS on June 28, 2016 and by the CPUC on August 11, 2016. An updated plan without references to specific transmission lines was submitted to the CPUC and USFS on March 8, 2017, and no approval was required. An updated plan with three additional water sources was submitted to the CPUC and USFS on April 7, 2017, and no approval was required.	Pre and During	Complete
Hydrology and Water Quality	HYD- 02b	01	Groundwater Evaluation	For identified water sources that derive their water supply from groundwater, SDG&E shall commission a groundwater study by a registered/certified hydrogeologist, as reviewed and approved by CPUC, to assess the existing condition of the underlying groundwater/aquifer and all existing wells (with owner's permission) in the vicinity of proposed well location/water sources and to verify that the proposed source is capable of supplying the amount of water needed. The groundwater study shall evaluate whether the volume and duration of the proposed groundwater use would exceed County of San Diego thresholds for impacts with respect to groundwater supply and well interference. If the evaluation indicates the potential for significant impacts, the registered/certified hydrogeologist shall recommend feasible mitigation measures (e.g., a groundwater monitoring program) to avoid exceeding applicable thresholds. The groundwater evaluation shall be provided along with the documentation of purchased water sources, and the CPUC shall not authorize construction of the project unless such documentation have been provided by SDG&E and approved by CPUC. If the evaluation finds that impacts cannot be avoided given the volume and duration of the proposed groundwater use of the water source and shall require SDG&E to seek other viable sources of water.	SDG&E commissioned a groundwater study of the Live Oak Springs Water District. SDG&E submitted the resume for a registered/certified hydrogeologist on September 27, 2016. The CPUC approved the hydrogeologist on September 27, 2016. The final Live Oak Springs Water District Groundwater Evaluation was submitted to the CPUC for approval on March 22, 2017. The CPUC approved the evaluation on March 30, 2017. An updated Water Supply Plan that includes the Live Oak Springs Water District was submitted to the CPUC and USFS on April 7, 2017, and no approval was required.	Pre	Complete

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Hydrology and Water Quality	HYD-04	01	Access Road Condition Evaluation and Repair Design Report	Planned grading and repair activities along SDG&E exclusive-use access roads that a) exceed grades of 15% (over a minimum distance of 100 feet), b) are within RCAs, or c) are anywhere within a sediment-sensitive watershed (as defined by the SVNRCB) shall be evaluated by a qualified professional (e.g., PG, PE, or CEG contracted by SDG&E and reviewed and approved by the CPUC and the Forest Service) prior to initiating construction on the associated segment, who will identify areas experiencing chronic erosion and drainage issues. At a minimum, segments shall include, but are not limited to, the following: - TL626 south of Eagle Creek Road and north of Boulder Creek Road - TL625 in the Vicinity of Barber Mountain Road - TL625 on th of Lyons Valley Road and south of Carveacre Road - C442 east of Oak Valley and south of 1-8, on the western flanks of Long Peak - Short segments of TL629 on either side of Cameron Valley and east of Pine Valley. The qualified professional shall design an engineered solution(s) to be implemented within the existing access roadway disturbance area in accordance with Forest Service standards, as described in Forest Service Handbook 2509.22 (Section 12.2), for each area determined to experience chronic erosion and/or drainage issues prior to beginning work on those facilities associated with the problematic access road. The designed solution(s) shall be included into the approved project to ensure the avoidance or minimization of substantial damage or soil loss along the identified road segments. Examples of such solutions could include, but are not limited to the following: - Crowning road sections with gentle slopes to prevent standing water on the road - Outsloping prome maneuvering and safety, insloping roads at 3-5% into properly designed ditches - Installing rolling dips, ditch relief culverts, and/or water bars at intervals appropriate for the road-grade and the soil erosivity - Minimizing the number of water crossings, and maintaining crossings as close to a 90-degree angle as possi	The Access Road Con Repair Design Report CPUC on August 18, 2 August 19, 2016. The use access roads alor therefore, an update required.

Hydrology and Water Quality	HYD-06	02	Creek Crossing	Where creek crossing cannot be completed during the dry season creek crossing shall use jack-and-bore procedures to avoid direct impacts and shall be conducted in a manner that does not result in sediment-laden discharge or hazardous materials release to the water body. SDG&E shall develop a Jack-and-Bore/Horizontal Directional Drill (HDD) Contingency Plan for this work in accordance with MM-HYD-8. Additionally, SDG&E shall implement the following measures during horizontal boring (jack-and-bore) operations and shall be included in the HDD Contingency Plan:1 Site preparation shall begin no more than 10 days prior to initiating horizontal bores to reduce the time soils are exposed adjacent to creeks and drainages. 2 Trench and/or bore pit spoil shall be stored a minimum of 25 feet from the top of the bank or wetland/riparian boundary. Spoils shall be stored behind a sediment barrier and covered with plastic or otherwise stabilized (i.e., tackifiers, mulch, or detention). 3 Portable pumps and stationary equipment located within 100 feet of a water resource (i.e., wetland/riparian boundary, creeks, and drainages) shall be placed in secondary containment capable of holding 15 gallons). A spill kit shall be maintained on site at all times. 4 Within 24 hours following backfill of the bore pits, disturbed soils shall be seeded and stabilized to prevent erosion, and temporary sediment barriers shall be left in place until restoration is deemed successful. SDG&E shall obtain the required permits prior to conducting creek crossing work. Required permits may include ACOE CWA Section 404, Regional Water Quality Control Board Clean Water Act 401, and CDFG Streambed Alteration Agreement 1602. SDG&E shall implement all pre and post-construction conditions identified in the permits issued.	Per the MMCRP, this the alternative align Underground in Bou it is not applicable to
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Condition Evaluation and bort was approved by the L8, 2016 and by the USFS on There are no SDG&E exclusive- along Phase III of TL682; late to the report is not	Pre and During	N/A
	Dragard	
gnment (Option 3	During	N/A

ment (Option 3 Ider Creek Road); therefore, o this component.	During	

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Hydrology and Water Quality	HYD-07	01	HDD Contingency Plan	If horizontal directional drilling is to be used during construction, SDG&E shall prepare a Horizontal Directional Drill (HDD) Contingency Plan to address procedures for containing an inadvertent release of drilling fluid (frac-out). The plan shall contain specific measures for monitoring frac-outs, for containing drilling mud, and for notifying agency personnel. The plan shall also discuss spoil stockpile management, hazardous materials storage and spill cleanup, site-specific erosion and sediment control, and housekeeping procedures, as described in the Stormwater Pollution Prevention Plan. The Jack-and-Bore HDD Contingency Plan shall be submitted to the CPUC, Forest Service, Bureau of Indian Affairs, and ACOE 60 days prior to construction.	Per the MMCRP, this measure applies only to the alternative alignment (Option 3 Underground in Boulder Creek Road); therefore, it is not applicable to this component.	Pre and During	N/A

Hydrology and Water Quality	HYD-07 02	HDD Contingency Plan	SDG&E shall obtain the required permits prior to conducting work associated with jack-and-bore/horizontal directional drilling activities. Required permits may include U.S. Army Corps of Engineers Clean Water Act Section 404, Regional Water Quality Control Board Clean Water Act 401, and CDFG Streambed Alteration Agreement Section 1602. The applicant shall implement all pre-and post-construction conditions identified in the permits issued for the jack-and-bore/horizontal directional drilling.	Per the MMCRP, this measure applies only to the alternative alignment (Option 3 Underground in Boulder Creek Road); therefore, it is not applicable to this component.	Pre and During	N/A
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Land Use and Planning	LU-01	01	Construction Notification Plan	Prepare Construction Notification Plan. Forty-five (45) days prior to construction of the first segment, the project applicant shall prepare and submit a Construction Notification Plan to the appropriate land use jurisdiction agency for approval. The plan will be updated with additional information 45 days before construction of each additional segment. The plan shall identify the procedures that will be used to inform private landowners, schools, and agencies with authority over recreational areas/facilities of the location and duration of construction; identify approvals that are needed prior to posting or publication of construction notices; and include text of proposed public notices and advertisements. The plan shall address at a minimum the following components: Public notice mailer. A public notice mailer shall be prepared and mailed no less than 15 days prior to construction. The notice shall identify construction activities that would restrict, block, remove parking, or require a detour to access existing residential properties and duration of construction, including all helicopter activities. The project applicant shall mail the notice to all residents or property owners within 1,000 feet of project components and to all land use agencies having jurisdiction over a recreation area/facility located within 1,000 feet of a project component. If construction delays of more than 30 days occur, an additional notice shall be prepared and distributed. To facilitate access to properties obstructed by construction activities, the project applicant shall notify property owners and tenants at least 24 hours in advance of construction activities, the project applicant shall agencies. The Forest Supervisor, District Rangers, and Public Affairs Officer of the Cleveland National Forest shall also be notified. The notice shall state when and where construction of any project component, notices shall be placed in local newspapers and bulletins, including Spanish language newspapers and bulletins, and on the relevant we	The Construction Notification Plan was approved by the USFS on June 16, 2016 and by the CPUC on June 17, 2016. An updated Construction Notification Plan with a list of adjacent landowners for TL682 was submitted to the CPUC and USFS on March 17, 2017. The public venue notice for construction along this component was submitted to the CPUC and USFS on February 14, 2017. The CPUC and USFS approved the public venue notice on February 14, 2017, which included geotechnical investigations, staging yard development, and the reconstruction of the entire TL682 alignment. The public venue notice for TL682 was posted at various locations adjacent to the Project sites on February 16, 2017, and was documented in an email to the CPUC and USFS on February 23, 2017. The public notice mailer and newspaper advertisement for construction of TL682 were submitted to the CPUC and USFS for approval on May 8, 2017. The CPUC approved the notices on May 18, 2017, and the USFS approved the notices on May 25, 2017. The public notice mailer was sent out on June 7, 2017. The certification of mailing was submitted to the CPUC and the USFS on June 15, 2017. The newspaper advertisement ran in the Union Tribune on June 11, 2017; the Alpine Sun on June 15, 2017; and Hoy San Diego on June 17, 2017.	Pre	Complete
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Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Land Use and Planning	LU-02	01	TL626 and C442 Land Management Plan	If the Forest Service selects to leave TL626 or C442 in place, it would have to approve a project-specific CNF Land Management Plan Amendment contemporaneously with the decision to authorize the MSUP and pole replacement project. The project-specific plan amendment would amend the Land Management Plan to allow project-specific exemptions for inconsistences with the CNF Land Management Plan land use zones and standards.	TL682 is not listed in this measure is not a

Land Use and Planning	LU-03	01	Reduce Land Use Conflicts	At least Ninety (90) days prior to completing final transmission line design for the approved route, the project applicant shall notify landowners of parcels through which the alignment would pass regarding the specific location of the ROW, individual towers, staging areas, access roads, or other facilities associated with the project that would occur on the subject property. The notified parties shall be provided 30 days in which to identify conflicts with any planned development on the subject property and to work with the project applicant to identify potential reroutes of the alignment that would be mutually acceptable to the project applicant and the landowner. Property owners whose land may be divided into potentially uneconomic parcels shall be afforded this same opportunity, even if development plans have not been established. The project applicant shall endeavor to accommodate these reroutes to the extent that they are feasible and do not create adverse impacts to resources or to other properties that would be greater in magnitude than impacts that would occur from construction and operation of the alignment	TL682 is not listed in this measure is not a
				as originally planned.	

Land Use and Planning	LU-04	01	County Roadways	Prior to construction, for any structure or object that is placed in, under, or over any portion of a county roadway, SDG&E shall obtain, from the San Diego County Director, Department of Public Works (DPW), a written encroachment permit in accordance	TL682 is not listed in this measure is not a
				with Section 71 (Highway and Traffic) of the San Diego County code of Regulatory Ordinances.	

Noise	APM- NOI-01	01	Construction Schedule Notification	SDG&E will provide notice of the construction schedule to all property owners within 300 feet of the Proposed Action by mail at least one week prior to the start of construction activities. The announcement will state the construction start date, anticipated completion date, and hours of operation, as well as a telephone number to call with questions or complaints during construction.	This measure will be satisfied through the implementation of MM LU-01 and in accordance with the Construction Notification Plan.	Pre and During	Complete
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Public Health and Safety	PHS-01	01	Contractor Training	San Diego Gas & Electric (SDG&E) shall provide written documentation that all staff, including contractor, and subcontractor project personnel, have received training regarding the appropriate work practices necessary to effectively implement hazardous materials procedures and protocols and to comply with the applicable environmental laws and regulations, including, without limitation, hazardous materials spill prevention and response measures.	All construction personnel will receive the Worker Environmental Awareness Program training immediately prior to beginning work on the Project. The Worker Environmental Awareness Program training will include the appropriate work practices and hazardous materials protocols. Sign-in sheets will be submitted with the Weekly Environmental Compliance Reports.	Pre and During	To Be Implemented Immediately Prior to Construction
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Public Health and Safety	PHS-02	02	Hazardous Materials BMPs	SDG&E will be required to complete a Spill Response and Notification Plan for agency approval before commencing construction.	The Spill Response and Notification Plan was approved by the USFS on July 21, 2016 and by the CPUC on July 18, 2016.	Pre	Complete
Public Health and Safety	PHS-03	02	Blasting Procedures	In addition to any other requirements established by the appropriate regulatory agencies, the pre-blast survey and blasting plan shall meet the following conditions: -The pre-blast survey shall be conducted for structures within a minimum radius of 1,000 feet from the identified blast site to be specified by San Diego Gas & Electric (SDG&E) or SDG&E's contractor. Sensitive receptors that could reasonably be affected by blasting shall be surveyed as part of the pre-blast survey.	A pre-blast survey will be conducted if blasting is determined to be necessary.	Pre and During	To Be Implemented During Construction

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in the measure; therefore, t applicable.	Pre	N/A

the measure; therefore, applicable.	Pre	N/A

the measure; therefore,	Pre	N/A
pplicable.		

Measure Category MMNo TaskNo Mitigation Measure Task Text Title

Public Health and Safety	PHS-03	04	Blasting Procedures	- The final blasting plan shall address air-blast limits, ground vibrations, and maximum peak particle velocity for ground movement, including provisions to monitor and assess compliance with the air-blast, ground vibration, and peak particle velocity requirements. The blasting plan shall meet criteria established in Chapter 3 (Control of Adverse Effects) in the Blasting Guidance Manual of the U.S. Department of Interior Office of Surface Mining Reclamation and Enforcement The blasting plan shall outline the anticipated blasting procedures for the removal of rock material at the proposed pole locations. The blasting procedures shall incorporate line control to full depth and controlled blasting techniques to create minimum breakage outside the line control and maximum rock fragmentation within the target area. Prior to blasting, all applicable regulatory measures shall be met. The applicant, general contractor, or its subcontractor (as appropriate) shall keep a record of each blast for at least 1 year from the date of the last blast.	If blasting is require Blasting Plan in acco

Public Health and Safety	PHS-04	01	Soil and Groundwater Contamination Training	Prior to construction, all San Diego Gas & Electric (SDG&E), contractor, and subcontractor project personnel anticipated to work between poles Z173105 and Z173109 shall receive training regarding the location of suspected soil and groundwater contamination along TL629 between poles Z173105 and Z173109, and will be instructed to avoid any ground disturbance in the area.	Poles Z173105 throu along TL682; therefo applicable.

Public Health and	PHS-07	01	Conduct	The applicant shall perform design-level geotechnical investigations to evaluate the potential for liquefaction, lateral spreading,	SDG&E performed d
Safety			Geotechnical	seismic slope instability, and ground-cracking hazards to affect the approved project and all associated facilities. Where these	investigations for TL
			Investigations	hazards are found to exist, appropriate engineering design and construction measures that meet California Building Code (CBC),	2016. Additional geo
				CPUC General Order 95, and Electric Power Research Institute (EPRI) Moment Foundation Analysis and Design parameters shall be	were completed in 2
				incorporated into the project designs.	investigations are in
					design drawings.

Public Health and Safety	PSU-01	01	AT&T Commitments	Prior to receiving a Notice to Proceed with construction along each of the proposed power line replacement projects, SDG&E shall provide to the CPUC and Forest Service written commitment from AT&T confirming that AT&T facilities that are co-located on the proposed power line replacement projects will be relocated to SDG&E's new facilities. Facilities will be transferred in a manner that avoids interruptions of telecommunications services to the greatest degree possible. The timing of the relocation activities will be reviewed and approved by both the CPUC and Forest Service.	Documentation conf will be transferred or replacement structur TL682 alignment was and the USFS on Jun provided comments internal agreement I was submitted to the 18, 2017. The CPUC August 22, 2017.
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Recreation	REC-01	01	Gate Plan	To deter unauthorized access to specially designated or restricted areas via SDG&E access roads authorized by the MSUP, the	The Gate Plan was a
				project applicant shall submit a plan and schedule for gate (or other barriers, such as pipe rails, where appropriate) installation to	August 25, 2016. The
				the Forest Service for approval. Gates will meet Forest Service engineering standards, and designs will be approved by the Forest	authorized by the M
				Service prior to installation. In addition, appropriate deterrence signage approved by the Forest Service shall be installed on gates	therefore, an update
				to SDG&E access roads. Maintenance of gates and signage shall be the responsibility of the project applicant.	
				to SDG&E access roads. Maintenance of gates and signage shall be the responsibility of the project applicant.	

Transportation	APM-	01	Coordinate with	SDG&E will coordinate flight patterns with local air traffic control and the Federal Aviation Administration prior to construction to	Per the APM and MM
and Traffic	TRANS-		Local Air Traffic and	prevent any adverse impacts due to increased air traffic.	was submitted to the
	06		FAA		APM was superseded
					Impact Report/Final
					PHS-5.
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Comments

d, SDG&E will prepare a rdance with this measure.	Pre and During	To Be Implemented During Construction
igh Z173109 are not located ore, this measure is not	Pre and During	N/A
esign-level geotechnical 682 from February to April otechnical investigations 017. Results of the corporated into the final	Pre and During	Complete
Firming that AT&T facilities nto the power line res for the entirety of the s submitted to the CPUC e 26, 2017. The CPUC on July 21, 2017. The between SDG&E and AT&T e CPUC and USFS on August provided approval on	Pre	Complete
pproved by the USFS on ere are no access roads SUP on Phase III of TL682; e to the plan is not required.	Pre, During, and Post	N/A
M Superseded List (which e CPUC on July 5, 2016), this d in the Final Environmental Impact Statement by MM	Pre and During	N/A