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July 29, 2011

Ms. Jerilynne C. Hayes, District Ranger  
U.S. Department of Agriculture, Forest Service  
Descanso Ranger District  
3348 Alpine Boulevard  
Alpine, CA 91901

**Subject:** Authorization to Construct on U.S. Forest Service-Administered Land  
Links 1, 2, and 5 – Sunrise Powerlink Project

Dear Ms. Hayes:

On December 18, 2008, the California Public Utilities Commission (CPUC) approved the Final Environmentally Superior Southern Route (Decision D.08-12-058) to construct the Sunrise Powerlink Project (Project). The decision grants San Diego Gas & Electric Company (SDG&E) a Certificate of Public Convenience and Necessity (CPCN) and conditionally authorizes construction of the Project with the implementation of preconstruction mitigation measures. A Notice of Determination was submitted to the State Clearinghouse on December 18, 2008. The Bureau of Land Management (BLM) issued a Record of Decision on January 20, 2009. The U.S. Department of Agriculture, Forest Service (USFS) issued a Record of Decision (ROD) on July 9, 2010 and a Special Use Permit for the Project on December 10, 2010.

As previously discussed with the USFS, the Project is being constructed in Links and Segments to coincide with environmental restrictions, preconstruction mitigation measure implementation scheduling, and planned outages. SDG&E requested authorization from the CPUC to begin construction on non-federal lands for the entire alignment. The CPUC issued Notices to Proceed for Link 4 on November 23, 2010; Link 3 on December 15, 2010; Links 1, 2, and 5 on January 14, 2011; and several substations and construction yards. SDG&E started overhead construction on non-federal lands on January 24, 2011. The BLM issued a Notice to Proceed for work at the Imperial Valley Substation on February 4, 2011 and for portions of Links 1, 2, and 5 located within BLM-administered land on April 4, 2011.

Three Project Links cross USFS-administered land—Links 1, 2, and 5. The majority of Link 2 is located within the Cleveland National Forest (CNF), as well as small portions of Links 1 and 5. At this time, SDG&E is requesting authorization from the USFS to begin construction on the portions of Links 1, 2, and 5 on USFS-administered land. Attachment A: Preconstruction Status Reports provides the status of

preconstruction mitigation measure implementation for each Link on USFS-administered land based on the USFS ROD.

#### **DESCRIPTION OF WORK**

Project boundaries and work areas located within USFS-administered land are detailed in the April 30, 2010 Project Modification Report (PMR) Map Book, which was submitted to the CPUC and BLM on May 14, 2010 and approved by the BLM and CPUC in a Consistency Determination dated September 22, 2010. The PMR Mapbook, which is Exhibit 2 of the Special Use Permit, was provided to the USFS on May 14, 2010 in support of the USFS ROD.

In addition to the installation of overhead transmission line structures, construction of Links 1, 2, and 5 on USFS-administered land will include ancillary facilities such as Tower Staging and Access Pads, pull sites, communications facilities, and guard structures. Development of new access roads and upgrades to existing access roads will also be conducted. Material staging and storage will occur primarily at construction yards located on private land and BLM land. One construction yard—the Thing Valley Construction Yard—is located on USFS-administered land.

#### **ENVIRONMENTAL COMPLIANCE**

SDG&E has fulfilled the preconstruction requirements stipulated in the Mitigation Monitoring Compliance and Reporting Program (MMCRP) that was adopted in the Final Environmental Impact Report/Final Environmental Impact Statement and the USFS ROD dated July 9, 2010. All other required mitigation measures, as stated in the MMCRP, will be implemented immediately prior to and during construction, prior to energization, or following the completion of construction. The current status of preconstruction mitigation measure implementation is included in Attachment A: Preconstruction Status Reports, and the current status of each Exhibit to the Special Use Permit is provided in Attachment B: Status of Special Use Permit Exhibits.

SDG&E respectfully requests USFS concurrence with this request by August 5, 2011. SDG&E would like to conduct certain pre-construction activities, such as three geotechnical borings, as soon as possible, with construction activities anticipated to begin on or about August 16, 2011. Should you have any questions or need additional information, please do not hesitate to contact me at (858) 650-4064.

Sincerely,



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Cc: William Metz, Forest Supervisor, USFS

Bob Hawkins, Natural Resource Planner, USFS  
Tim Cordoza, Permit Administrator, USFS  
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Anne Coronado, Aspen Environmental Group  
Alan Colton, SDG&E  
Don Haines, SDG&E  
Gerry Akin, SDG&E  
Rachel Romani, SDG&E

Attachments (2)



**ATTACHMENT A: PRECONSTRUCTION STATUS REPORTS**



# Attachment A: Preconstruction Status Report

Friday, July 29, 2011

5:10:31 PM

## Report Criteria:

AGENCY: USFS

LOCATION: Link 1

TIMING: Design; Design and During; During; During and Post; Pre; Pre and During; Pre and Post; Pre, During, and Post

- To Be Implemented During Construction
  -Complete
  -Pending OR To Be Implemented Immediately Prior to Construction
  -Not Applicable

Note: This table contains U.S. Fish and Wildlife Service Conservation Measures in addition to the mitigation measures and applicant proposed mitigation measures from the Final EIS/EIR. The conservation measures are denoted in the table as G-CM-# or SS-G-#.

The mitigation measure and APM numbers listed in this table reference the actual measures in the MMCRP. The text after the measure number provides a summary of specific tasks within each measure, but is not intended to provide the entire language contained within the MMCRP. Please note that several measures include multiple entries in this table. These multiple entries break out the various requirements or tasks contained within that measure. Please reference the MMCRP for the actual requirements for each measure or visit [www.cpuc.ca.gov/Environment/info/aspen/sunrise](http://www.cpuc.ca.gov/Environment/info/aspen/sunrise).

Mitigation Measure and APM	Status
B-01a: Locate surface disturbing components in previously disturbed areas	The preconstruction portion of this measure is complete. Sensitive resources were mapped using GIS and project structures and work areas were designed to avoid these resources, to the extent possible. The Mapbook and PMR, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, shows both sensitive resources and the location of areas that may be disturbed. During construction, vegetation and soil impacts will be minimized.
B-01a: Use construction mats to minimize disturbance	This mitigation measure will be fulfilled during construction.
B-01a: Double mitigation ratios on lands already in mitigation	The Project will impact sensitive vegetation communities on lands already in use as mitigation. A Habitat Acquisition Plan, which discusses doubled mitigation ratios on lands already in mitigation, was submitted for review and approval on February 4, 2010. This plan was approved by the Wildlife Agencies as described in the G-CM-17 of the reinitiated Biological Opinion, dated November 10, 2010.
B-01a: Delineate all limits of construction	The limits of construction will be delineated with orange construction fencing or flagging prior to the start of construction.
B-01a: Coordinate gate installation 60 days prior to construction	SDG&E submitted a memo to CPUC for the administrative record on October 26, 2010 to document coordination of access road gate installation prior to construction.
B-01a: Submit documentation of coordination with the administering agency of the road/trail 30 days prior to construction	SDG&E submitted a memo to CPUC for the administrative record on October 26, 2010 to document coordination of access road gate installation prior to construction.
B-01a: Post signs on access road gates prohibiting unauthorized users	This mitigation measure will be fulfilled during construction.
B-01a: Provide funding for off-road vehicle patrols	SDG&E has coordinated with land managers regarding unauthorized use of access roads by off-road vehicle enthusiasts, including funding of off-road vehicle patrols and gate installation. A memo was submitted to CPUC for the administrative record on October 26, 2010 documenting coordination. In addition, SDG&E has an approved collection agreement with the USFS and is negotiating a subordinate agreement for off-road vehicles.
B-01a: Mitigate for impacts by unauthorized activity (e.g., exceeding approved construction footprints)	This mitigation measure will be fulfilled during construction. The mitigation ratios for unauthorized impacts have been eliminated as described in Conservation Measure G-CM-6 of the reinitiated Biological Opinion, dated November 10, 2010.

Mitigation Measure and APM	Status
B-01a: Submit a Habitat Restoration Plan	SDG&E submitted the Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas to the CPUC, BLM, USFS and Wildlife Agencies for review and approval on September 24, 2010. A revised plan incorporating agency comments was resubmitted on October 25, 2010. This plan was approved by the CPUC on November 3, 2010 and by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010), as noted in Conservation Measure G-CM-16 (page 33 of the BO). The USFS approved the plan on April 7, 2011.
B-01a: Mitigate for impacted habitat	In coordination with the appropriate agencies, off-site purchase and dedication of habitat shall be provided for areas where habitat restoration cannot meet mitigation requirements as outlined in this measure. This will be determined during and post construction during restoration activities. For impacts to habitat on National Forest System lands, mitigation ratios required in the USFS ROD will be adhered to.
B-01a: Mitigate for the loss of native trees and tree trimming	The Wildlife Agencies have agreed that conservation of woodland areas on mitigation lands included in the Habitat Acquisition Plan/Habitat Management Plan is acceptable mitigation for impacts to native trees. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Submit a Habitat Acquisition Plan 120 days prior to construction	The Habitat Acquisition Plan was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service for review and approval on February 4, 2010. The HAP was further refined and resubmitted on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HAP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Submit a Habitat Management Plan	The Habitat Management Plan was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service for review and approval on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HMP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Include legal descriptions of all legal parcels	The HMP, prepared by a qualified biologist, was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service on September 22, 2010 for review and approval. All the components in this mitigation measure have been included in the HMP. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01c: Provide biological monitoring and perform periodic inspections once or twice a week	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01c: Send weekly monitoring reports	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01c: Qualified biologists shall handle all environmental issues and have the authority to issue stop work orders	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01k: Re-seed all public and private natural areas burned due to project-caused fire	This mitigation measure will be fulfilled during and post construction, as needed.
B-01k: Develop re-seeding plan	This mitigation measure will be fulfilled during and post construction, as needed.
B-01l: Minimize impacts to the RCA between Structures 184 and 187 of the BCD South Option.	SDG&E has coordinated with the USFS to minimize impacts to RCAs. The Project Modification Report (PMR) and Mapbook illustrate modifications that were made to the alignment to reduce overall impacts to RCAs. The Mapbook and PMR were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
B-02a: Avoid impacts to jurisdictional areas	Impacts to jurisdictional features were considered during the design of the project and have been avoided, to the extent feasible. The location of each jurisdictional drainage and potential impact was described in the Preliminary Jurisdictional Determination report that was accepted by the Army Corps of Engineers on August 27, 2010.



Mitigation Measure and APM	Status
B-02a: Mitigate impacted areas as required by wetland permitting	SDG&E received Nationwide Permit #12 under Section 404 of the Clean Water Act on January 7, 2011 for impacts to waters of the U.S., including wetlands. Attachment 2 of the permit provides a summary of the impacts to wetlands and the required mitigation. Enclosures 4 and 5 of the permit provide detailed lists of the wetlands and their locations.
B-02a: Prepare jurisdictional delineation and impact assessment	The entire project area was surveyed and impacts to resources under the jurisdiction of the ACOE, Regional Water Boards, State Water Board, and CDFG were determined. A revised Preliminary Jurisdictional Determination was submitted on February 24, 2010 and accepted as part of the 404 permit application on August 27, 2010. Final Grading Plans and Plan and Profile Drawings were submitted to the CPUC on September 2, 2010 for the administrative record. The USFS approved the construction plans and drawings on March 11, 2011.
B-02a: Mitigate for jurisdictional wetland habitat	SDG&E received Nationwide Permit #12 under Section 404 of the Clean Water Act on January 7, 2011 for impacts to waters of the U.S., including wetlands. Mitigation requirements and ratios are stipulated on pages 2 through 8 of the permit.
B-02a: Obtain wetland permits prior to construction	The 401 Water Quality Certification was issued on November 15, 2010. The California Department of Fish and Game issued a Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was issued on January 7, 2011.
B-02a: Delineate all limits of construction	The Project Modification Report and Mapbook, which was submitted to the CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and the USFS in the ROD on July 9, 2010, illustrates the limits of construction. Limits of construction will be delineated immediately prior to construction with orange construction fencing, flagging, or silt fencing.
B-02a: Install gates and signs at entrances of access roads	This mitigation measure will be fulfilled during construction.
B-02a: Mitigate impacts from unauthorized activity	This mitigation measure will be fulfilled during construction.
B-02a: Submit and implement Wetland Mitigation Plan	SDG&E submitted a HMMP on July 14, 2010 as outlined in this mitigation measure. This plan was revised and provided to the agencies on October 7, 2010. The HMMP was accepted by the Army Corps of Engineers, California Department of Fish and Game, and State Water Resources Control Board in concept; however, the agencies requested that the plan be reformatted to break out each mitigation property. The revised plans (one for each of the five mitigation sites) were submitted to the agencies on November 30, 2010 and accepted on December 16, 2010. The USFS reviewed and acknowledged the HMMP on February 7, 2011 (Exhibit 13 of the SUP). This plan was prepared by a qualified habitat restoration specialist and will be implemented by a qualified habitat restoration specialist. The preconstruction component of this measure is complete.
B-02a: Submit a Habitat Management Plan that includes jurisdictional areas	The Habitat Management Plan (HMP) was submitted to the CPUC, BLM, Wildlife Agencies, and the USDA Forest Service for review and approval on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HMP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 4, 2011. The HMMP, which was updated on May 9, 2011, was approved by the Corps on June 27, 2011 and by the SWRCB on June 13, 2011.
B-03a: Submit and implement a Weed Control Plan	The Weed Control Plan was approved by the BLM and CPUC on September 8, 2010. Additional comments from the USFWS, City of San Diego, and USFS were incorporated into the plan, which was resubmitted to all agencies on November 10, 2010. The Weed Control Plan was approved by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010). The USFS approved the Weed Control Plan on January 7, 2011.
B-03a: Conduct pre-construction weed inventory	The Weed Control Plan was approved by the BLM and CPUC on September 8, 2010. Additional comments from the USFWS, City of San Diego, and USFS were incorporated into the plan, which was resubmitted to all agencies on November 10, 2010. The Weed Control Plan was approved by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010). The USFS approved the Weed Control Plan on January 7, 2011.
B-03a: Implement weed control treatments	The Weed Control Plan will be implemented immediately prior to, during and following construction as appropriate for the weed species being treated.

Mitigation Measure and APM	Status
B-03a: Annually survey for new invasive weeds for 2 years	The Weed Control Plan addresses surveying for invasive exotic species during construction and annually following construction to monitor previously-identified and treated populations and to identify new invasive weed populations for the life of the Project. Treatment of weeds will occur on a minimum annual basis unless otherwise approved by the PCA, San Diego County Agricultural Commissioner, and Cal-IPC. This mitigation measure will be fulfilled during/post construction.
B-03a: Ensure all seeds and other material are certified weed free	This mitigation measure will be fulfilled during/post construction.
B-03a: Wash vehicles and equipment	This mitigation measure will be fulfilled during/post construction.
B-03a: Submit monthly wash logs during construction and annual logs during operation/maintenance	This mitigation measure will be fulfilled during/post construction.
B-05a: Conduct surveys in the spring and submit a special status plant report	Rare plant surveys were completed by qualified biologists in 2009 and 2010. The 2010 Rare Plant Survey Report, which included all project areas as described in the Project Modification Report, was approved by the USFWS on December 22, 2010 and the CPUC on January 19, 2011.
B-05a: Stake or flag special status plant populations	Special status plant populations will be staked or flagged immediately prior to construction by a qualified biologist.
B-05a: Avoid impacts to federal and state listed plant species	The Project Modification Report and Mapbook, which was submitted on May 14, 2010 and approved by the BLM and the CPUC on September 22, 2010 through a Determination Memorandum and the USFS in the ROD dated July 9, 2010, shows both sensitive resources and the locations of sensitive resource areas that may be disturbed. As noted in the revised Biological Opinion, dated November 10, 2010, SDG&E will not impact any listed plant species during construction activities for this project (see pages 3-4 of the Biological Opinion).
B-05a: Submit a Restoration Plan for federal and state listed plants	No federal or state listed plants will be impacted by construction activities on the project, but moderately sensitive plant species will be affected; therefore, SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Avoid impacts to moderately sensitive plant species	Moderately sensitive plant species will be affected; therefore, SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Submit a Restoration Plan for special status plant species	No federal or state listed plant will be impacted by construction activities on the project; however moderately sensitive plant species will be affected. SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Submit a Habitat Management Plan that addresses offsite mitigation for rare plants	A Habitat Management Plan was submitted to the appropriate agencies for review on September 22, 2010 as outlined in this measure. The Habitat Acquisition Plan and Habitat Management Plan were approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17). The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07a: Cover excavations or install fencing when not in use	Steep-walled trenches or excavations will be covered, fencing will be installed or sloped on one end (i.e., ramped) to prevent the entrapment of wildlife during construction. This mitigation measure will be fulfilled during construction.
B-07a: Inspect excavations 3 times per day and before backfilling	A qualified biological monitor will inspect any open trenches as required. This mitigation measure will be fulfilled during construction.
B-07a: Look under vehicles and equipment before moving for presence of wildlife	Workers will be instructed to look under vehicles for wildlife before movement and to report mortality or injury of a listed species within 48 hours. No vehicles or equipment will be moved until the animal has left or is removed by a qualified biologist. This mitigation measure will be fulfilled during construction.
B-07a: Contact within 48 hours of finding a dead or injured listed species	A qualified biological monitor will submit monitoring reports as required by this measure. This mitigation measure will be fulfilled during construction.
B-07b: Mitigate impact by following all applicable measures in the Flat-Tailed Horned Lizard Rangewide Management Strategy	A proffer of monetary contribution form and check in the amount of \$348,450 was provided to the BLM on November 13, 2009 for impacts to FTHL habitat.

Mitigation Measure and APM	Status
B-07b: Submit a Habitat Management Plan	A proffer of monetary contribution form and check in the amount of \$348,450 was provided to the BLM on November 13, 2009. Because no FTHL habitat has been acquired, a Habitat Management Plan for acquired FTHL habitat is not required.
B-07c: Limit activities in PBS critical habitat to October 1 - December 31, unless otherwise approved by the Wildlife Agencies, or maintain 1,500-foot ceiling for flights	After reinitiation of consultation with the USFWS, this mitigation measure has been revised to permit construction during a larger work window in Peninsular bighorn sheep habitat. See Biological Opinion, Sunrise Powerlink Project (2010), Species Specific Conservation Measure 16. BLM has found that the request for an extended work window is consistent with the Final EIR/EIS. Determination of NEPA Adequacy (DNA), Sunrise Powerlink Project: Project Modifications (Sept. 2010). This mitigation measure, as revised, will be fulfilled during construction. SDG&E will have a USFWS-approved bighorn sheep monitor conduct surveys prior to any land survey activities and monitor the land surveyors to minimize impacts to bighorn sheep.
B-07c: Provide compensation for direct loss of critical habitat	Compensation for direct loss of PBS critical habitat is outlined in the Habitat Acquisition Plan/Habitat Management Plan.
B-07c: Submit a Habitat Management Plan	A Habitat Management Plan was submitted to the appropriate agencies for review and approval on September 22, 2010 as outlined in this measure. The Habitat Acquisition Plan and Habitat Management Plan were approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17).
B-07d: Conduct survey within 30 days prior to construction	A burrowing owl survey will be conducted by a qualified biologist within 30 days prior to construction as outlined in this measure.
B-07d: No disturbance shall occur if burrowing owl is present	A survey shall be conducted 30 days prior to initiation of construction by a qualified biologist to ensure that no burrowing owls are present and if a burrowing owl is discovered, this mitigation measure will be followed. This mitigation measure will be fulfilled during construction.
B-07d: Inspect construction material daily	This mitigation measure will be fulfilled during construction.
B-07d: Passively relocate owls prior to construction and outside of breeding season September 1-January 31	If owls are found at the site prior to or during construction, passive relocation of burrowing owls will be performed in coordination with the CDFG as outlined in this measure.
B-07d: Mitigate for loss of burrowing owl habitat	Preconstruction surveys for burrowing owls will be required 30 days prior to construction. If burrowing owls are encountered, mitigation for loss of occupied burrowing owl habitat shall occur as outlined in this mitigation measure.
B-07d: Submit a Habitat Management Plan	A Habitat Management Plan was submitted to the appropriate agencies for review and approval on September 22, 2010 as outlined in this measure. The Habitat Management Plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010.
B-07e: Conduct grading or brushing outside of least Bell's vireo and southwestern willow flycatcher breeding season September 16-March 14	Least Bell's vireo and southwestern willow flycatcher habitat do not occur on Link 1; therefore, this mitigation measure is not applicable.
B-07e: Survey for least Bells' vireo and southwestern willow flycatcher within 10 days prior to initiating work in area	The Riparian Birds Survey Report 2009, which was submitted to the CPUC for review on January 14, 2010 and approved on August 26, 2010 and the 2010 Riparian Bird Survey Report, did not identify any least Bell's vireo on Link 1. Least Bell's vireo and southwestern willow flycatcher do not occur on Link 1; therefore, this mitigation measure is not applicable.
B-07e: Survey once per week if least Bell's vireo and/or southwestern willow flycatcher are present	Least Bell's vireo and southwestern willow flycatcher do not occur on Link 1; therefore, this mitigation measure is not applicable.
B-07h: No activities within 4,000 ft. of eagle nest during breeding season	This measure will be implemented during and post construction. SDG&E received a letter from the USFWS on December 8, 2010 stating that Sunrise's Avian Plan "is appropriate in its adaptive approach to avoid and minimize the potential take of migratory birds, hawks and eagles." As a result, no BGEPA permit is needed at this time.

Mitigation Measure and APM	Status
B-07i: Determine suitable habitat areas of QCB	Per USFWS QCB protocol, site assessments for suitable QCB habitat were conducted in 2009 and 2010 by USFWS permitted biologists. The site assessments identified areas requiring protocol surveys. QCB protocol surveys were completed by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found near milepost 36 on Link 1. These surveys results were accepted by the Wildlife Agencies (as described in the revised Biological Opinion dated November 10, 2010) and by the CPUC on January 21, 2011.
B-07i: Conduct pre-construction protocol survey for QCB	Per USFWS QCB protocol, QCB surveys were performed in 2009 by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found by mileposts 116.5, 110, 79 to 80, 74.5, 71, and 36. These surveys results were accepted by the Wildlife Agencies (as described in the revised Biological Opinion dated November 10, 2010) and by the CPUC on January 21, 2011.
B-07i: Mitigation required if survey non-conclusive for determining QCB presence	QCB surveys have been conducted in 2009 and 2010. Quino checkerspot butterfly occur on Link 1 near MP 36. All QCB surveys have been conclusive for the project.
B-07i: Submit a Habitat Management Plan that addresses offsite mitigation for QCB habitat	QCB surveys have been conducted in 2009 and 2010. Quino checkerspot butterfly occur on Link 1 near MP 36. Mitigation for QCB is addressed in the Habitat Acquisition and Habitat Mitigation Plan submitted on September 22, 2010. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07j: Conduct pre-construction protocol survey for arroyo toad	USFWS protocol-level arroyo toad (ARTO) surveys were conducted in 2009 and 2010. The 2009 ARTO Survey Report was submitted to the CPUC on October 2, 2009 and re-submitted to CPUC on January 14, 2010.  The 2009 and 2010 surveys have concluded that no ARTO have been observed and no critical or proposed habitat exists in Link 1. This has been confirmed by the Wildlife Agencies as noted in Table 7 of the revised Biological Opinion dated November 10, 2010 (see page 51).
B-07j: Remove toad riparian breeding habitat October-December	No arroyo toad habitat exists on Link 1; therefore, this mitigation measure is not applicable.
B-07j: Install exclusion fencing if toad is present and monitor daily during construction	No arroyo toad habitat exists on Link 1; therefore, this mitigation measure is not applicable.
B-07j: Conduct pre- and post-exclusion fencing surveys	No arroyo toad habitat exists on Link 1; therefore, this mitigation measure is not applicable.
B-07j: Conduct daily surveys in the morning prior to work activities	No arroyo toad habitat exists on Link 1; therefore, this mitigation measure is not applicable.
B-07j: Mitigate for the loss of occupied arroyo toad habitat	No arroyo toad-occupied or unoccupied habitat exists on Link 1; therefore mitigation for loss of arroyo toad habitat is not required.
B-07j: Submit a Habitat Management Plan that includes arroyo toad habitat	No arroyo toad-occupied or unoccupied habitat exists on Link 1; therefore mitigation for loss of arroyo toad habitat is not required.
B-08a: Clear vegetation August 16-January 14 and remove/trim trees September 16-December 31	This mitigation measure will be fulfilled during construction.
B-08a: Conduct pre-construction avian breeding surveys within 10 days of initiating work January 15-August 15 and submit surveys	Within 7 calendar days prior to construction, a qualified biologist will conduct avian breeding surveys for construction activities occurring within the general avian breeding season. Results of the surveys will be submitted to the Wildlife Agencies for review and approval.
B-08a: Conduct pre-construction raptor breeding surveys within 10 days of initiating work January 1-September 15 and submit surveys	Pre-construction surveys for active raptor nests will be conducted by a qualified biologist within 7 days of construction if activities will occur during the raptor breeding season. Results of the surveys will be submitted to the Wildlife Agencies for review and approval.



Mitigation Measure and APM	Status
B-08a: Proceed with construction if no active nests observed	This mitigation measure will be fulfilled during construction.
B-08a: Proceed with construction if active nests found per conditions	If active nests are identified, a buffer as defined in this measure will be established and monitored on a weekly basis to allow construction to proceed. This measure will be implemented during construction.
B-08a: Monitor active nests weekly until fledged	This mitigation measure will be fulfilled during construction.
B-08a: Report survey results and monitoring	Results of surveys will be submitted as required and a qualified biologist will continue to monitor the site as appropriate. Weekly monitoring reports will be submitted to the agencies.
B-09a: Conduct habitat assessment for bat nursery colonies prior to construction	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010.
B-09a: Conduct survey for bat nursery colonies prior to construction	A CDFG-approved biologist conducted a survey for bat nursery colonies. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010.
B-09a: No direct impacts to bat nursery colonies allowed	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010. If bat nursery colonies are observed during construction, this mitigation measure will be implemented.
B-09a: Implement methods to minimize indirect impacts to bat nursery colonies	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. A 2009 Bat Survey Report Amendment-Report and 2009 Bat Survey Amendment - Appendix 1 were submitted on October 1, 2010. The amended report was approved by CPUC on October 11, 2010. If bat nursery colonies are observed during construction, this mitigation measure will be implemented.
B-10a: Install transmission lines using Avian Power Line Interaction Committee standards	SDG&E will install transmission lines as outlined in this mitigation measure. Where diverters/markers have been installed, a study will be funded as outlined in this measure. The Avian Monitoring and Mitigation Plan, which was developed pursuant to the requirements described in this measure, was approved by the USFWS on December 8, 2010 and the USFS on June 30, 2011.
B-11a: Submit a Raven Control Plan	A Raven Control Plan was submitted on July 22, 2010 to the CPUC, BLM and USFWS. A Final Revised Plan was submitted to the agencies on October 25, 2010 and addressed comments received from the U.S. Fish and Wildlife Service. This plan was approved as stated in G-CM-19 of the revised Biological Opinion dated November 10, 2010.
BIO-APM-01: Submit protocol surveys for sensitive plant and wildlife	On-the-ground protocol surveys have been conducted for sensitive plant and animal species, as appropriate, along the entire alignment. Per G-CM-32 of the Revised Biological Opinion dated November 10, 2010, surveys for federally listed species have been deemed complete by the Wildlife Agencies. The following survey reports for the 2010 survey season have been approved: 2010 Riparian Bird Survey Report; 2010 Arroyo Toad Survey; 2010 Rare Plant Survey; 2010 Quino Checkerspot Butterfly Report; and 2010 Coastal California Gnatcatcher Survey Report. The 2010 Bat Survey Report is currently pending and will be submitted when complete.
BIO-APM-02: Environmental training prior to construction	Project personnel shall receive training as outlined in this measure.
BIO-APM-03: Restrict vehicle movement to existing access roads	Vehicle traffic will be restricted to existing paved and unpaved access roads when feasible. All approved work areas, including access roads, will be delineated immediately prior to construction.
BIO-APM-03: Avoid constructing roads during nesting season and submit surveys if new roads needed during nesting season	SDG&E will perform surveys and submit survey results to the USFWS and CDFG should access road construction occur during nesting season or if it is not feasible to keep vehicles on existing access roads.

Mitigation Measure and APM	Status
BIO-APM-03: No parking or driving under oak trees	This mitigation measure will be monitored during construction to ensure parking or driving underneath oak trees does not occur.
BIO-APM-03: Observe a 15 mph speed limit on dirt access roads	This mitigation measure will be fulfilled during construction.
BIO-APM-04: Restrict project activity to disturbance areas	Final Grading Plans and Plan and Profiles were submitted to the CPUC on September 2, 2010. The USFS approved these plans and drawings on March 11, 2011. Project and survey activities will be confined to areas noted in final engineering drawings.
BIO-APM-04: Keep survey vehicles on existing roads	Survey vehicles shall remain on existing roads.
BIO-APM-04: Obtain prior approval for surveying activities in sensitive habitat	A biological monitor shall monitor project surveying activities for conformance with APMs.
BIO-APM-04: Hiking off roads or paths during survey data collection is permitted	SDG&E survey personnel will implement all appropriate APMs.
BIO-APM-04: Do not apply discoloring agents on rocks or vegetation	No paint or permanent discoloring agents shall be applied as outlined in this measure.
BIO-APM-05: Construct roads at right angles to streambeds and washes	To the extent possible, access roads shall be constructed as outlined in this mitigation measure.
BIO-APM-05: Obtain permits for streambed crossings and roads constructed parallel to streambeds	The SWRCB issued the 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was issued on January 7, 2011.
BIO-APM-05: Minimize disturbance from construction and maintenance activities	This mitigation measure will be fulfilled during construction.
BIO-APM-06: Comply with all applicable environmental laws and regulations	This mitigation measure will be fulfilled during construction.
BIO-APM-07: Littering is not allowed	Littering will be prohibited on this project. This mitigation measure will be monitored during construction.
BIO-APM-08: Delineate and avoid sensitive plant populations	Prior to construction, the boundaries of any sensitive plant populations will be delineated with flagging and avoided to the extent practicable.
BIO-APM-10: Do not harm wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that no wildlife, including rattlesnakes, may be harmed except to protect life and limb. This SWEAP will be shown to all project personnel prior to construction and enforced throughout all phases of the Project. If rattlesnakes are encountered, they will be safely removed by a biologist or staff trained in safe snake handling procedures.
BIO-APM-10: Firearms are prohibited	The SWEAP video was approved by the CPUC on March 15, 2010. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project, and addresses that firearms are prohibited in all project areas, except for security personnel.
BIO-APM-11: Do not feed wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that feeding wildlife is prohibited. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
BIO-APM-12: No pets permitted	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that pets are prohibited at the Project site. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
BIO-APM-13: Do not collect plants or wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that prohibit collecting plants or wildlife species for any reason. This SWEAP will be shown to all project personnel prior to construction of the Project and enforced throughout all phases of the Project.
BIO-APM-14: Removal of wildlife by qualified biological monitor or wildlife agency	Wildlife found to be trapped will be removed by a qualified biological monitor. If the biological resource monitor is not qualified to remove the entrapped wildlife, a recognized wildlife rescue agency (such as Project Wildlife) will be contacted to remove the wildlife and transport it safely to other suitable habitats.
BIO-APM-15: Submit report of unavoidable environmental damage	This mitigation measure will be fulfilled during construction, as needed.

Mitigation Measure and APM	Status
BIO-APM-16: Schedule tree trimming during non-sensitive times	This mitigation measure will be fulfilled during and post construction. Information regarding sensitive tree trimming locations will be entered into SDG&E's mitigation measure tracking system and Sempra's system-wide mapping database.
BIO-APM-16: Vary tree removal widths to maintain edge diversity	This mitigation measure will be fulfilled during construction.
BIO-APM-17: Mow vegetation to use as access road	This mitigation measure will be fulfilled during and post construction.
BIO-APM-18: Design structures and access roads to minimize impacts to sensitive features	A memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure BIO-APM-18, on September 1, 2010. The final Project Modification Report (PMR) and Map Book, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment with an overall reduction of impacts to sensitive features. They also show the redesign and relocation of the alignment to previously disturbed areas when feasible.
BIO-APM-18: Submit site surveys when constructing poles or roads in high value habitats cannot be avoided	Surveys have been performed to determine the presence or absence of endangered species in sensitive habitats along the project route. These surveys were determined to be complete by the Wildlife Agencies as described in G-CM-32 of the revised Biological Opinion. If new areas of disturbance are identified, site specific surveys will be conducted to determine the presence or absence of endangered species; this measure will be implemented during construction.
BIO-APM-18: Construct crossings at right angles to streambeds if access roads cannot avoid sensitive water features	During construction, access roads will be constructed as outlined in this measure. In addition, SDG&E has secured required permits for access road construction that will impact sensitive water features. More specifically, the 401 Water Quality Certification was issued on November 15, 2010, the California Department of Fish and Game Streambed Alteration Agreement (SAA) was issued on November 17, 2010, and the ACOE 404 permit was issued on January 7, 2011.
BIO-APM-19: Implement and comply with BLM mitigation measures	This mitigation measure will be fulfilled during and post construction.
BIO-APM-19: Use Section 7 process to obtain incidental take authorization	SDG&E has obtained an incidental take authorization through the Section 7 process (Refer to Biological Opinion FWS2008BO423-2009F0097). The BO was reinitiated and finalized on November 10, 2010.
BIO-APM-20: Leave vegetation in place where re-contouring is not required	This mitigation measure will be fulfilled during construction.
BIO-APM-21: Conform to "Suggested Practices for Raptor Protection on Power Lines"	A memo was submitted to the CPUC for the administrative record on September 15, 2010 describing that the conductor spacing meets recommended suggested practices where feasible and the CPUC confirmed compliance with this measure on September 16, 2010.  SDG&E has designed structures in conformance with "Suggested Practices for Raptor Protection on Power Lines."
BIO-APM-22: Salvaging may include removal and stockpiling for replanting	This mitigation measure will be fulfilled during construction.
BIO-APM-23: Remove only minimum amount of vegetation necessary for construction	This mitigation measure will be fulfilled during construction.
BIO-APM-23: Conserve topsoil in areas of sensitive habitat	This mitigation measure will be fulfilled during construction.
BIO-APM-24: Secure appropriate covers over excavations	The SWEAP video was approved by the CPUC on March 15, 2010. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project, and includes instructions on covering construction holes overnight to prevent harm to wildlife.
BIO-APM-25: Revegetate disturbed soils	This mitigation measure will be fulfilled during construction.
BIO-APM-26: Slope excavations on one end	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
BIO-APM-27: Remove all raptor nests outside breeding season and prior to construction	SDG&E will remove unoccupied non-threatened/endangered or non-eagle raptor species' nests that would be affected by construction activities outside of the raptor breeding season. Per the USFWS, the golden eagle breeding season is December through June.
BIO-APM-27: Monitor active nests during breeding season	Monitoring of an existing raptor nest during the breeding season shall occur as outlined in this mitigation measure, by an approved biologist.
BIO-APM-28: Survey potential bat roost trees to be removed and follow procedures for felling trees	A CDFG-approved biologist has conducted surveys for bat maternity roost trees. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010 and the 2009 Bat Survey Report Amendment was submitted on October 1, 2010. The amended report was approved by CPUC on October 11, 2010. The 2010 Bat Survey Report was submitted to the agencies on July 1, 2011 and is currently under review. No maternity roosts were observed on the project; therefore, this measure is not applicable.
BIO-APM-29: Minimize impacts of exterior lighting adjacent to preserved habitat	On USFS lands, construction of Link 1 of the Sunrise Powerlink Project will occur during daytime hours, as directed by local county ordinances. Should night lighting be deemed necessary during construction, SDG&E will comply with this mitigation measure.  Security night lighting at construction yards will be designed and installed per the approved Construction Yard Lighting Plan.
BIO-APM-29: Minimize vehicle speed and volume	This mitigation measure will be fulfilled during construction.
G-CM-01: Provide biological monitoring and perform periodic inspections once or twice a week	See B-1c
G-CM-02: Use SDG&Es Water Quality Construction BMP Manual.	See WQ-APM-4. This mitigation measure will be implemented during construction.
G-CM-03: Obtain NPDES permit and implement a SWPPP.	See WQ-APM-14
G-CM-04: Training to implement conservation measures.	See BIO-APM-2
G-CM-05: Limit vehicle speeds on access roads to minimize fugitive dust.	See BIO-APM-3 and AQ-1a
G-CM-06: Keep all activities within designated temporary and permanent disturbance areas.	Final Grading Plans and Plan and Profiles has been submitted to the CPUC on September 2, 2010. The USFS approved these plans and drawings on March 11, 2011. Project activities will be confined to areas noted in final engineering drawings. Also see BIO-APM-4.
G-CM-06: Keep survey vehicles on existing roads.	See BIO-APM-4
G-CM-06: No paint or discoloring agents will be applied to rocks or vegetation.	See BIO-APM-4
G-CM-06: Impacts associated unauthorized activity will be mitigated at a 5:1 ratio	This measure will be implemented during construction if unauthorized impacts occur. Also see BIO-APM-4.
G-CM-07: Brush clearing will require prior approval from the biological monitor in conformance with the CMs.	No brush clearing will occur on the project without prior approval from the project biological monitor. This measure will be implemented during construction.
G-CM-08: Wire stringing	This measure will be implemented during construction.
G-CM-09: Disposal of wastes.	See BIO-APM-7
G-CM-10: Emergency repairs will follow the CM's to the extent feasible.	See BIO-APM-15
G-CM-10: Submit written report to agencies having jurisdiction.	See BIO-APM-15



Mitigation Measure and APM	Status
G-CM-10: If required, develop mitigation plan consistent with CMs.	See BIO-APM-15
G-CM-11: Structures and access roads should be designed to minimize impacts to sensitive features.	A memo was submitted to the CPUC documenting compliance with Mitigation Measure BIO-APM-18, on September 1, 2010 for their administrative record. The Project Modification Report (PMR) and Mapbook, which was approved by the CPUC and BLM in a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010 illustrates changes to the final design of the alignment to reduce impacts to sensitive features. The USFWS confirmed that this conservation measure has been met through the final project designs (see page 32 of the reinitiated Biological Opinion).
G-CM-12: Leave vegetation in place where re-contouring is not required. Restore disturbed soils based on HRP per G-CM-16.	This mitigation measure will be fulfilled during construction.
G-CM-13: Use lowest illumination allowed for human safety.	See BIO-APM-29
G-CM-13: Vehicle speed limits may not exceed 15 mph to prevent mortality of nocturnal wildlife species.	See BIO-APM-29
G-CM-14: Locate surface-disturbing activities in previously disturbed areas, to the extent practical.	The pre-construction portion of this measure is complete. The project structures and work areas were designed to avoid sensitive vegetation, to the extent possible. During construction, vegetation and soil impacts will be minimized. See B-1a for additional information.
G-CM-15: Use of construction mats.	See B-1a
G-CM-15: Incorporate impact of using mats into HRP (G-CM-16).	See B-1a
G-CM-16: Habitat Restoration Plan approval.	See B-1a. The Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas has been approved as stated in the revised Biological Opinion dated November 10, 2010.
G-CM-16: Impacts, compensation, and a qualified habitat restoration specialist.	See B-1a
G-CM-16: Temporary impacts to desert scrub and dune habitats.	See B-1a
G-CM-17: Provide assurances to fund the acquisitions	SDG&E has acquired or funded for purchase the nine properties listed in this mitigation measure.
G-CM-17: Off-site compensation and property acquisition.	The HAP/HMP was prepared by an approved biologist and was submitted for review and approval on September 22, 2010 as outlined in this mitigation measure. The HMP/HAP was approved by the Wildlife Agencies as stated in G-CM-17 of the Reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011. The remaining requirements of this mitigation measure will be implemented during construction and within the timeframes described in this measure.
G-CM-18: Re-seeding of disturbed areas after a transmission line-caused fire.	See B-1k
G-CM-19: Prepare and implement a Raven Control Plan.	See B-11a
G-CM-20: Develop a Weed Control Plan for pre-construction and long-term invasive weed abatement.	See B-3a
G-CM-21: Implementation of erosion control measures.	See GEO-APM-5
G-CM-22: Restoration where ground disturbance is substantial or where recontouring is required.	See GEO-APM-6

Mitigation Measure and APM	Status
G-CM-23: Use appropriately sized equipment.	This mitigation measure will be implemented during construction.
G-CM-24: Implement Dust Control Plan.	A Dust Control Plan was approved by the CPUC on January 20, 2010 and the Wildlife Agencies on November 10, 2010. Dust Control Plan measures will be implemented during project construction. (See AQ-1a)
G-CM-24: Implement additional dust control measures	See AQ-1a
G-CM-25: Restrict vehicle movement to access roads.	See BIO-APM-3
G-CM-26: Delineate construction limits.	See B-1a and BIO-APM-4
G-CM-27: Build access roads at right-angles to stream crossings.	See BIO-APM-18
G-CM-28: Coordinate with land officer 60 days prior to initiating construction to determine the use of gates and signs at access roads.	The preconstruction component of this measure is complete (see B-1a). Signs will be posted on access roads prohibiting unauthorized users during construction.
G-CM-29: Provide funding for protection from off-road vehicle enthusiasts	See B-1a
G-CM-31: Mowing of access roads to maintain access for maintenance.	See BIO-APM-17
G-CM-32: Surveys for USFWS listed species.	See B-5a and BIO-APM-1
G-CM-33: Delineate plant population boundaries.	See BIO-APM-8
G-CM-34: Native Tree Restoration	The Habitat Acquisition Plan discusses mitigation for loss of native trees. A Habitat Acquisition Plan was submitted to the CPUC for review and approval on February 4, 2010. Tree mitigation will occur as described in the Habitat Acquisition/Habitat Management Plan which was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17). The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
G-CM-35: Rare plants shall be salvaged where avoidance is not feasible.	This measure will be implemented during construction.
G-CM-36: Do not harm wildlife, including rattlesnakes.	See BIO-APM-10
G-CM-37: Do not feed wildlife.	See BIO-APM-11
G-CM-38: Do not bring pets to project areas.	See BIO-APM-12
G-CM-39: Cover steep-walled trenches to avoid entrapping wildlife.	See B-7a
G-CM-40: Look under vehicles and around equipment for wildlife prior to use.	See B-7a
G-CM-41: Do not dispose of excess fill, brush, or debris within waters of the U.S.	This measure will be implemented during construction.
G-CM-41: Do not dispose of fuel, oil, coolant, and other wastes within or near waters of the U.S. Do not fuel vehicles near waters of the U.S.	This measure will be implemented during construction. The Project site specific SWPPPs designate where fueling is permitted to occur. Unless otherwise indicated in the SWPPP's, all other areas are considered "No-Fueling Zones".
G-CM-42: Maintain riparian buffer construction/staging areas and riparian areas.	This mitigation measure will be implemented during construction.

Mitigation Measure and APM	Status
G-CM-44: Determine project limits for temporary and permanent disturbance to occur during maintenance activities.	Final Grading Plans and Plan and Profiles were submitted to the CPUC on September 2, 2010. The USFS approved the plans and drawings on March 11, 2011. Project and survey activities will be confined to areas noted in final engineering drawings. The preconstruction component of this measure is complete. Adherence to the right-of-way limits and approved work areas will occur during construction.
G-CM-45: Purchase/dedicate suitable habitat for preservation.	See G-CM-17
SS-CM-01: Conduct ground- or vegetation disturbance outside of the gnatcatcher breeding season	Suitable habitat for coastal California gnatcatcher does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-03: Survey for gnatcatchers within 10 days prior to initiating activities	Suitable habitat for coastal California gnatcatcher does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-04: Purchase and manage occupied gnatcatcher habitat	Suitable habitat for coastal California gnatcatcher does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-05: Conduct construction and O&M activities outside the vireo breeding season or implement pre-activity surveys	Suitable habitat for least Bell's vireo does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-05: Survey for nesting vireos	Suitable habitat for least Bell's vireo do not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-06: Purchase and manage suitable vireo habitat	Suitable habitat for least Bell's vireo does not occur on Link 1; therefore, this mitigation measure is not applicable to this component of the project.
SS-CM-07: Monitor construction in critical and occupied Quino habitat	This measure will be implemented during construction.
SS-CM-08: Develop site-specific restoration for temporarily impacted Quino habitat	Site-specific restoration will be developed during construction and will be based on actual temporary impacts to Quino habitat.
SS-CM-10: Purchase and manage occupied Quino habitat	This mitigation measure will be fulfilled during construction.
SS-CM-11: Implement the Arroyo Toad Translocation and Monitoring Program	Arroyo toad habitat does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-12: Daylight use of access roads to avoid/minimize impacts to arroyo toads.	Arroyo toad habitat does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-13: No construction activities within arroyo toad breeding habitat.	Arroyo toad breeding habitat does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-14: Remove all temporary exclusion and construction fencing at conclusion of construction.	Arroyo toad habitat does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-15: Purchase and manage occupied arroyo toad breeding habitat	Arroyo toad habitat does not occur on Link 1; therefore, this mitigation measure is not applicable.
SS-CM-16: Prohibit construction and O&M activities during lambing season	This mitigation measure will be implemented during construction and O&M activities.
SS-CM-17: Restore suitable bighorn sheep habitat	This measure will be implemented during construction.
SS-CM-18: Retain a Project Biologist to oversee and implement the PBS Monitoring Plan	This mitigation measure will be implemented during construction.
SS-CM-19: Purchase habitat to partially offset impacts to PBS population	This mitigation measure will be implemented during and post construction.
SS-CM-19: Provide funding for protection of PBS and I-8 crossing	This mitigation measure will be implemented along I-8 during and post construction.

Mitigation Measure and APM	Status
SS-CM-19: Fund removal of invasive species and install PBS water sources	This mitigation measure will be implemented during and post construction in PBS areas as directed by the Wildlife Agencies.
SS-CM-19: Fund Monitoring Program for PBS	SDG&E will continue to coordinate with the Wildlife Agencies to implement and fund the long-term monitoring program for PBS.
SS-CM-20: Implement avoidance, mitigation and compensation measures	These measures will be implemented during construction in FTHL habitat. FTHL does not occur on USFS land.
SS-CM-20: Designate a field contact representative	SDG&E has designated Steve Riggs as the environmental field contact representative.
SS-CM-20: Clearly define the limits of work limits	All approved project work areas will be clearly delineated immediately prior to construction along the project alignment. In addition, a SWEAP training video describes project work limits and restrictions and is shown to all project personnel prior to work on the project. These measures will be implemented immediately prior to construction. FTHL does not occur on USFS land.
SS-CM-20: Minimize disturbance to soil and vegetation in FTHL habitat	This mitigation measure will be implemented during construction. FTHL does not occur on USFS land.
SS-CM-20: Use existing roads whenever possible	This mitigation measure will be implemented during construction.
SS-CM-20: Block newly created access routes as required by the lead agency	This mitigation measure will be implemented during and following construction and in coordination with the appropriate land-managing agency.
SS-CM-20: Monitor construction activities in FTHL habitat	This mitigation measure will be implemented during construction. FTHL does not occur on USFS land.
SS-CM-20: Fence areas of permanent or long-term projects in FTHL management areas	This mitigation measure will be implemented during construction if areas within FTHL habitat will be active for greater than 1 year. FTHL does not occur on USFS land.
SS-CM-20: Develop habitat restoration plan.	The Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. This plan addresses habitat restoration in FTHL habitat.
V-01a: Screen construction sites if visible from public areas	The pre-construction component of this measure has been completed. The location of staging, material and equipment storage areas and helicopter fly yards are shown in the Project Modification Report, which was submitted to the CPUC on May 14, 2010 and approved by the CPUC and BLM on September 22, 2010. The USFS approved the PMR in the Record of Decision dated July 9, 2010. The Construction Yard Visual Screening Plan also shows the location of these yards and illustrates how these areas will be visually screened with temporary fencing. The Construction Yard Visual Screening Plan was submitted to the CPUC, City of San Diego, BLM and USFS on August 4, 2010 and to Helix Water District on August 19, 2010. The Construction Yard Visual Screening Plan was approved by the CPUC on October 19, 2010. This plan is included with the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment F.
V-01a: Submit final construction plans 60 days prior to construction	Final construction grading plans and Plan and Profile drawings were submitted to the CPUC, BLM, USFS, County of San Diego and Helix Water District on September 2, 2010. Construction plans and drawings were resubmitted to the USFS on January 13, 2011 and January 28, 2011. The USFS approved the construction plans and drawings on March 11, 2011.
V-01b: Design and install lighting to avoid night lighting impacts	SDG&E submitted a Construction Lighting Mitigation Plan to the CPUC as outlined in this mitigation measure on November 30, 2010. The CPUC approved the plan on January 31, 2011. This plan is included with the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment F.
V-01b: Submit a Construction Lighting Mitigation Plan 90 days prior to construction	SDG&E submitted a Construction Lighting Mitigation Plan to the CPUC as outlined in this mitigation measure on November 30, 2010. The CPUC approved the plan on January 31, 2011.
V-02a: Construct access and spur roads at appropriate angles	Construction of access or spur roads shall occur as outlined in this measure.

Mitigation Measure and APM	Status
V-02a: Consult with visual resources specialist to evaluate access road visibility prior to final design	The PMR and associated mapbook were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010. The final design of access roads was based on coordination with several visual resource specialists.
V-02a: Submit table 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, show the location of each structure and the alignment of the access roads. The final design of access roads was based on coordination with several visual resource specialists.
V-02a: Submit final construction plans 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment and incorporate a redesign of the access roads based on coordination with several visual resources specialists. Final Grading Plan and Profiles were submitted to the CPUC for the administrative record on September 2, 2010. The USFS approved the plans and drawings on March 11, 2011.
V-02b: Revegetate boundaries of disturbed areas	This mitigation measure will be fulfilled during construction.
V-02b: Return graded roads to pre-construction conditions	This measure will be fulfilled during construction.
V-02b: Create barriers for public access if opened as a construction route	This mitigation measure will be fulfilled during construction.
V-02b: Submit final construction and restoration plans 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment and incorporate a redesign of the access roads based on coordination with several visual resources specialists. Final Grading Plan and Profiles were submitted to the CPUC on September 2, 2010. These plans and drawings were approved by the USFS on March 11, 2011.
V-02c: Treat disturbed soils visible from sensitive public viewing locations	SDG&E submitted a Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas on September 24, 2010. This plan was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. During construction, SDG&E will consult with the Authorized Officer regarding the site-by-site use of Eonite.
V-02c: Submit final construction and restoration plans 60 days prior to construction	SDG&E has submitted Final Grading Plans and Plan and Profile drawings on September 2, 2010 for the overhead portion of the project. The USFS approved the plans and drawings on March 11, 2011. A Restoration Plan for Temporary Impacts to Sensitive Vegetation Communities was submitted on September 24, 2010; this plan was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. The USFS approved the Habitat Restoration Plan on April 7, 2011.
V-02d: Consult regarding helicopter construction techniques	The Project Modification Report, which was approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, discusses changes to the final design regarding the use of helicopter construction and prohibition of access and spur roads where construction would occur on slopes greater than 15 percent or near public viewing locations.
V-02d: Conduct Agency Consultations 120 days prior to construction	SDG&E has coordinated with the appropriate agencies and received approvals 120 days prior to construction. The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate the redesign of the alignment based on this coordination.
V-02f: Incorporate mitigation to reduce total visual impact	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
V-02f: Submit Scenery Conservation Plan at least 120 days prior to construction	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
V-03a: Conductors shall be non-specular	SDG&E submitted a memorandum to the CPUC for the administrative record on September 30, 2010 demonstrating that SDG&E has ordered non-specular conductor in order to reduce conductor visibility and visual contrast of conductors and towers in compliance with this measure.



Mitigation Measure and APM	Status
V-03a: Consult with a visual resources specialist to evaluate new access roads	The final design of the alignment incorporates a redesign and elimination of access roads based on coordination with several visual resources specialists. The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrates these changes.
V-03a: Submit a table 60 days prior to construction	The final design of the alignment incorporates a redesign and elimination of access roads based on coordination with several visual resources specialists. The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrates these changes.
V-45a: File Scenery Conservation Plan within 1 year after license is issued for USFS	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
VR-APM-01: Place structures at maximum distance from crossings	The Project Modification Report and Mapbook, which were approved by the BLM and CPUC in the Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment to reduce visual impacts at highway, canyon, and trail crossings.
VR-APM-03: Match structure spacing when parallel to an existing line	The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates changes to the final design of the alignment where the line parallels existing transmission lines. SDG&E also submitted a memorandum to the CPUC for the administrative record on September 9, 2010 documenting compliance with this measure.
VR-APM-04: Do not paint or discolor rocks or vegetation	The SWEAP video was approved by the CPUC on March 15, 2010. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project. The video includes instructions prohibiting application of paint or permanent discoloring agents on rocks or vegetation to indicate survey or construction limits.
VR-APM-05: Do not install structures in front or in line-of-sight of residences	SDG&E did not locate structures directly in front of residences or in direct line-of-sight from residences, where possible. SDG&E consulted with affected property owners on the proposed structure locations to reduce land use and visual impacts. SDG&E has coordinated with affected landowners in accordance with MM L-2b.
L-01a: Submit Construction Notification Plan 45 days prior to construction	The Construction Notification Plan was approved by the CPUC on March 1, 2010.
L-01a: Mail a public notice 15 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses mailing public notifications. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Advertise in newspapers and bulletins 15 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses newspaper advertisement notifications. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Post notices of construction at public venues 30 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses posting of notices of construction at public venues. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Provide a public liaison person and toll-free hotline number before and during construction	The Construction Notification Plan identifies the public liaison person assigned to the project and the toll-free hotline. The Plan was approved by the CPUC on March 1, 2010.
L-02b: Notify landowners 90 days prior to completing final design of route	A memorandum submitted to CPUC on October 5, 2010 summarizes the landowner notification process. CPUC approved this memo on October 12, 2010. All landowners have been notified within 1000 feet of the project alignment. Landowners not directly affected by project facilities were sent a letter through certified mail in spring 2009 and given the opportunity to request changes. Landowners already in easement acquisition negotiations were notified through the acquisition process and provided the opportunity to request changes. These changes are also addressed in the Project Modification Report and Mapbook, which were approved by BLM and CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.

Mitigation Measure and APM	Status
L-02b: Provide notified parties 30 days to identify conflicts and potential reroutes	SDG&E provided affected landowners 30 days in which to respond to the project notification and discuss changes to the project to accommodate landowner requests. The L-2b Mitigation Measure Memorandum (dated October 5, 2010) summarizes the criteria used to evaluate these requests. A summary of each landowner request received is also included with this memo, which was approved by the CPUC on October 12, 2010. In addition, the PMR, which was approved by the CPUC and BLM in a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, addresses several of these changes. To reduce conflicts on National Forest System lands in the future, SDG&E will survey and mark boundaries between National Forest System lands and other lands within the approved right-of-way as directed by the USFS, consistent with the requirements of the USFS ROD.
L-02b: Provide written report at or before the time property owners are identified	On March 18, 2009, SDG&E met with CPUC representatives to discuss the interpretation and notification requirements for mitigation measure L-2b. The notification and landowner requests processes were developed based on those discussions. SDG&E did not provide CPUC and BLM with a written report identifying properties that were suspected of having a land use conflict as described in the mitigation measures at or before the time property owners were notified, but SDG&E did consider these impacts in their initial evaluation of the project and with subsequent route changes as described in the Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
L-02b: Provide written report within 30 days of the public notice closing date for responses	A memorandum submitted to CPUC and BLM on October 5, 2010 summarizes the landowner notification process. CPUC approved this memorandum on October 12, 2010. All landowners have been notified within 1000 feet of the project alignment. Landowners not directly affected by project facilities were sent a letter through certified mail in spring 2009 and given the opportunity to request changes. Landowners already in easement acquisition negotiations were notified through the acquisition process and provided the opportunity to request changes. These changes are also addressed in the Project Modification Report and Mapbook approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
L-02b: Develop specific reroute modifications	The modifications required by this task are located on Links 4 and 5. They are not applicable to Links 1,2 and 3.
LU-APM-01: Provide advance notice within 300 feet of construction activities	SDG&E will provide advance notice to residents, property owners, and tenants within 300 feet of construction activities and will appoint a public affairs officer to address public concerns or questions.
LU-APM-02: Place new structures more than 330 feet from residences	SDG&E placed new structures more than 330 feet from existing residences to the extent feasible. Only two structures are closer than 330 feet to a residence and were not able to be moved. These structures include CP-7 (located on Link 5) and EP-228 (located on Link 1).
LU-APM-03: Compensate farmers for loss of crops	No agricultural operators will be impacted on Link 1 that require compensation for loss of crops; therefore, this mitigation measure is not applicable. The only agricultural area that is crossed on Link 1 is the Jacumba Valley Ranch (JVR). However, no loss of crop or disruption to agricultural operations will occur during construction or operation of the project. A memo summarizing coordination with agricultural operators was submitted to the CPUC on October 15, 2010. See mitigation measures Ag-1a and Ag-1c.
LU-APM-03: Avoid planting, growing, and harvesting seasons	No agricultural operations involving crop production will be impacted by construction activities on Link 1; therefore, this mitigation measure is not applicable.
LU-APM-04: Provide notification prior to construction	To facilitate access to properties obstructed by construction activities, SDG&E will notify property owners and tenants in advance of construction activities and provide alternative access if necessary.
LU-APM-05: Coordinate construction activities with water management representatives	SDG&E submitted a memorandum on October 14, 2010 to the CPUC for the administrative record that documents coordination efforts with the Imperial Irrigation District. No other irrigation canals or flood management structures will be affected by construction along Link 1; therefore, coordination with additional agencies is not required.
LU-APM-06: Restrict and confine activity within limits of construction	Final construction plans, which were submitted to the CPUC on September 2, 2010, describes the limits of construction. Construction activities will be restricted to and confined within those limits during construction.
LU-APM-06: Provide flagging for environmentally sensitive areas	The ROW boundary and limits of construction activity inside and outside the ROW will be flagged in environmentally sensitive areas to alert construction personnel that those areas should be minimize or avoided.

Mitigation Measure and APM	Status
LU-APM-07: Install project facilities outside of private properties, parks, and other recreational areas	SDG&E designed project facilities to be located along the edges or borders of private property, open space parks, and recreation areas. When this was not possible, SDG&E consulted with affected property owners to reduce impacts and will pay just compensation to the property owners through contractual agreements with each landowner. SDG&E submitted a memo to CPUC on October 5, 2010 documenting landowner notification and consultation; the CPUC approved this memo on October 12, 2010. The final alignment is shown on the Project Modification Report and Mapbook, which was submitted to CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
LU-APM-08: Coordinate to include Project in General Plans	SDG&E has been coordinating with the County of San Diego and Imperial County to determine whether there are any General Plan updates anticipated during the life of the project that could conflict with construction or operation of the transmission line. SDG&E spoke with LeAnn Carmichael (858-694-3739) at the County of San Diego and Andy Home, Deputy County Executive Officer for Natural Resources Development (760) 482-4727 at Imperial County. No General Plan updates are planned for Imperial County or the City of San Diego in the near future.
LU-APM-09: Obtain ministerial land use permits	SDG&E's contractor will obtain encroachment permits from each local jurisdiction, if necessary, during construction.
LU-APM-10: Match structure locations with existing transmission facilities	<p>A memo was submitted to the CPUC for the administrative record documenting compliance with Mitigation Measure LU-APM-10, on September 1, 2010.</p> <p>Proposed structure locations were matched with existing transmission facilities along the existing 500 kV Southwest Powerlink (SWPL) line and two 69 kV transmission lines. The Sunrise Powerlink parallels SWPL from Imperial Valley Substation to the Jacumba SWPL Breakaway Point Reroute.</p>
R-APM-02a: Provide advance notice if restrictions in access routes to recreational use areas	This mitigation measure will be implemented during construction.
R-APM-02b: No construction on federal holidays that affects trail use	This measure will be implemented during construction.
R-APM-02d: Post signs at alternative park access and parking	This measure will be implemented during construction.
R-APM-02e: Post signs at alternative trails and bikeways	This measure will be implemented during construction.
R-APM-02f: Post signs at equestrian trails during helicopter construction	This measure will be implemented during construction.
R-APM-02f: Regularly check and maintain signs during helicopter construction	This measure will be implemented during construction.
R-APM-03a: Restrict construction-related traffic to approved routes	This mitigation measure will be monitored during construction. The project no longer crosses ABDSP lands; therefore, this portion of the mitigation measure is no longer applicable.
WR-01a: Coordinate construction activities and schedule 60 days prior to construction	SDG&E has been coordinating with the County of San Diego to identify recreational areas that may be impacted by the project and will schedule construction to avoid temporary preclusion of recreational area use. SDG&E will continue its coordination with the County of San Diego and other jurisdictional agencies during construction.
WR-01a: Submit documentation of coordination 30 days prior to construction	SDG&E submitted a memorandum to the CPUC for the administrative record on November 5, 2010 documenting its coordination efforts related to recreational areas and trails. On Link 1, SDG&E has coordinated with the BLM and County of San Diego. No trails or recreational areas have been identified for Imperial County, but SDG&E will continue to coordinate with Imperial County regarding construction activities.
WR-01b: Coordinate temporary detours of trails 60 days prior to construction	SDG&E began coordination efforts with the Trails Coordinator for San Diego County on June 21, 2010. Coordinating with the County 60-days prior to construction has been fulfilled. No trails have been identified in Imperial County that will be affected by construction. Coordination efforts are on-going and will continue throughout the preconstruction and construction phases of the project. Two memos documenting coordination efforts were submitted to the CPUC for the administrative record on November 5 and November 23, 2010.



Mitigation Measure and APM	Status
WR-01b: Site new trail segments to avoid sensitive resources and restore to pre-construction conditions	This measure will be implemented during construction.
WR-01b: Post public notices at trail detours	This measure will be implemented during construction.
WR-01b: Submit documentation of coordination 30 days prior to construction	See WR-1a
WR-01c: Coordinate alternative recreation facilities 60 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-01c: Post public notices at recreation facilities	This measure will be implemented during construction.
WR-01c: Submit documentation of coordination 30 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-02a: Relocate 500kV line along southern boundary of JAM properties	SDG&E relocated the overhead 500 kV transmission line along the southern boundary of JAM properties as required to minimize effects on BLM land, Forest land, and private property. This measure applies to both Links 1 and Link 2.
WR-02a: Submit memo and construction plans 120 days prior to construction	<p>The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate a reroute of the BCD Alternative Revision to reduce effects on recreation. See page 2-47 of the PMR Determination Memorandum for additional detail and confirmation that this measure has been fulfilled. In addition, Exhibit 4 of the USFS SUP, which was approved by the USFS on March 11, 2011, reflects this revision.</p> <p>The USFS ROD modified this measure to authorize the use of the BCNM land use zone adjacent to Thing Valley. Access to this area will be limited to foot and helicopter travel only. To compensate for impacts within the BCNM land use zone, SDG&amp;E will fund improvements to USFS recreation facilities within the Laguna Recreation Area. The agreement for funding the improvements is currently being negotiated, and will be finalized prior to energizing the transmission line. The final agreement will be included in the Recreation Facilities Improvement Plan (SUP Exhibit 19) when finalized. All preconstruction components of this measure have been met.</p>
WR-03a: Coordinate to determine locations of tower sites and spur roads	SDG&E has made considerable effort to limit access roads and tower locations within recreational areas in coordination with the BLM, USFS, Imperial County, and San Diego County. No access roads are located on trails (e.g., PCT, Trans-County Trail, etc.). The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment to avoid recreational areas as much as feasible. Mitigation for impacts have been calculated in the Habitat Acquisition Plan/Habitat Management Plan, which was approved by the Wildlife Agencies on November 10, 2010 and the USFS in February 2011.
WR-03a: Coordinate 60 days prior to construction and submit documentation 30 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
AG-01a: Coordinate with property owners and tenants 60 days prior to construction	SDG&E has coordinated with agricultural property owners and tenants in order to ensure avoidance or minimization of interference with agricultural operations. On Link 1, SDG&E has coordinated with Jacumba Valley Ranch (MP 34). A memorandum summarizing this coordination was submitted to CPUC on October 15, 2010 for their administrative record.
AG-01b: Restore disturbed soils 30 days after completion of construction clean-up	This measure will be implemented during construction.

Mitigation Measure and APM	Status
AG-01c: Coordinate with grazing operators 60 days prior to construction and 30 days after construction	SDG&E has coordinated with landowners to discuss construction activities and address concerns related to agricultural productivity and animal welfare. A memo summarizing this coordination was submitted to CPUC on October 15, 2010.  On Link 1, SDG&E met with the Jacumba Valley Ranch property owners to discuss grazing operations and fencing reconfiguration to reduce impacts to cattle.
AG-03b: Consult and notify 60 days prior to erection of any structure affecting aerial applicator operations	SDG&E sent notification letters to aerial applicators operating in San Diego and Imperial Counties on July 6, 2010. Copies of these notifications were sent to the CPUC, BLM and County Farm Bureaus on July 13, 2010 for their administrative record. The notification advised when and where the new transmission line and towers will be erected and included aerial maps depicting the proposed project route and agricultural lands near the route.
AG-03b: Provide maps of the alignment on or near agricultural lands	SDG&E sent notification letters to aerial applicators operating in San Diego and Imperial Counties on July 6, 2010. Copies of these notifications were sent to the CPUC, BLM and County Farm Bureaus on July 13, 2010. The notification advised when and where the new transmission line and towers will be erected and included aerial maps depicting the proposed project route and agricultural lands near the route.
C-01a: Submit cultural resources inventory prior to construction	A Final Class III Inventory was approved by the CPUC and BLM on June 2, 2010.
C-01a: Stake tower locations prior to cultural resource field surveys	The selected ROW and tower locations were staked prior to the cultural resource field surveys.
C-01b: Protect potential and register-eligible resources from direct project impacts	The Project Modification Report and Mapbook, which was approved by the CPUC and BLM through a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates that the final design of the alignment incorporates changes to avoid impacts to potentially register-eligible and register-eligible resources based on preliminary review of the National Register of Historic Places and consultation with the SHPO.  The Final Class III Inventory, which was approved by the CPUC and BLM on June 2, 2010, identified 25 cultural resource sites within Link 1 where project impacts cannot be avoided. Eligibility evaluations were submitted to the BLM, CPUC, SHPO, and Native American Tribes. The HPTP was reviewed and approved on July 7, 2011.
C-01b: Undertake additional studies if resources cannot be protected from direct impacts	Twenty-five cultural resource sites have been identified on Link 1 where impacts cannot be avoided. However, there are no cultural resource sites in areas of direct project impacts on the Cleveland National Forest. Eligibility evaluations were conducted at the sites where direct ground disturbance will occur and recommendations for treatment of significant resources are included in the Historic Properties Treatment Plan, which was approved on July 7, 2011.
C-01b: Incorporate results of studies in HPTP	The results of the the evaluation studies were incorporated in the Historic Properties Treatment Plan (HPTP), which was approved on July 7, 2011.
C-01b: Designate NRHP and/or CRHR resources as ESA if within 50 feet of direct impact	SDG&E will designate NRHP and/or CRHR resources as an ESA if within 50 feet of direct impact areas. These ESAs will be monitored by archaeological and Native American monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
C-01b: Erect protective flagging or other markers for ESA	If cultural resources sites identified on this link (or within 50 feet of the right-of-way) are determined to be eligible by the SHPO or Native American Tribes, protective fencing and markers will be used to designate areas that can be avoided as an ESA. These ESAs will be monitored by cultural monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
C-01b: Develop and implement monitoring program as part of HPTP	A monitoring program was incorporated into the Historic Properties Management Plan. The HPMP was submitted to the CPUC, BLM, USFS, ACOE and Native American Tribes on May 3, 2010. As required under the Programmatic Agreement, this plan was approved by the CPUC, BLM and USFS in July 2010. This plan will be implemented during construction. A Final Historic Properties Treatment Plan was approved on July 7, 2011 which provides additional information on the implementation of monitoring for the project.
C-01c: Submit Historic Properties Treatment Plan	The Historic Properties Treatment Plan (HPTP) was approved on July 7, 2011.

Mitigation Measure and APM	Status
C-01d: Conduct data recovery investigations to reduce adverse effects	Data gathered during the eligibility evaluation phase is summarized in the Historic Properties Treatment Plan (HPTP). Data-recovery methods, sample sizes, and recommended procedures are detailed in the HPTP as appropriate. The proposed mitigation for resource impacts are also presented in the HPTP, which was approved on July 7, 2011.
C-01d: Submit field closure report prior to construction within 100 feet of affected resource	This mitigation measure was fulfilled for those resource areas to which it applies.
C-01d: Submit final report of data-recovery investigations within 1 year of completing fieldwork	This mitigation measure will be fulfilled within one year of the completion of fieldwork.
C-01e: Implement archaeological monitoring at cultural ESAs	A qualified archaeologist will conduct full-time monitoring during ground-disturbing activities in ESAs. The Historic Properties Treatment Plan (HPTP) includes locations of ESAs and protection boundaries. The HPTP provides recommendations for further management and monitoring during construction.
C-01e: Qualification of archaeologists must be approved	The qualifications of the principal archaeologist and archaeological monitors were submitted to the BLM and CPUC for approval on July 20, 2010. Cultural monitor resumes were approved by the BLM on September 30, 2010. Only monitors approved by the CPUC and BLM will work on the Project. A list of all approved monitors will be updated throughout the project.
C-01e: Retain and schedule any required Native American monitoring	A Historic Properties Management Plan (HPMP) was approved by the CPUC, BLM, and USFS in July 2010. The HPMP includes locations where Native American monitoring will be required. The Historic Properties Treatment Plan provides recommendations for further management and monitoring during construction.
C-01e: Submit cultural resources monitoring monthly reports during construction	This mitigation measure will be fulfilled during construction.
C-01e: Notify if any damage to cultural resource ESAs and divert work to a buffer distance	This mitigation measure will be fulfilled during construction.
C-01f: Train construction personnel to recognize and protect cultural resources	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions regarding the recognition of possible buried cultural remains and protection of all cultural resources. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
C-02a: Avoid known Native American remains and protect with ESA designation	Government-to-government consultations have been ongoing. SDG&E has avoided direct impacts to known locations of Native American human remains and will continue to avoid direct impacts to Native American human remains. Records of consultations are being held with the BLM. No known locations of Native American remains occur along Link 1. If Native American remains are encountered during construction, this mitigation measure will be implemented.
C-02a: Contact agencies if sites will be affected	SDG&E has avoided direct impacts to known locations of Native American human remains and will continue to avoid direct impacts to Native American human remains. Any discoveries will be processed in the manner described in this measure and detailed in the HPMP and HPTP for this project.
C-02a: Assist and support MLD with reinterment location	SDG&E will provide all necessary support to the Most Likely Deceased (MLD) if Native American human remains are encountered during construction.
C-02a: Follow laws that govern treatment of human remains	SDG&E will follow all laws, statutes and regulations as appropriate if Native American human remains are encountered during construction.
C-02a: Support in consultations with Native Americans and implement required actions and studies	Government-to-government consultations have been ongoing. Records of consultations are being held with the BLM. This measure will be satisfied during construction.
C-02a: Divert work if human remains are discovered and inform officer	This measure will be implemented as defined if human remains are discovered during construction.
C-03a: Implement archaeological monitoring	Archaeological and Native American monitors will be on-site during subsurface construction disturbance at all locations identified for buried archaeological deposits in the Historic Properties Treatment Plan (HPTP). Monitoring will be conducted per the HPTP and the Historic Properties Management Plan (HPMP). The HPMP was approved by the CPUC, BLM, and USFS in July 2010. The HPTP was approved on July 7, 2011.

Mitigation Measure and APM	Status
C-03a: Divert work if buried cultural material discovered and notify archaeologist	This mitigation measure will be fulfilled during construction.
C-04a: Assist and support BLM in consultations with Native Americans to assess impacts	The preconstruction component of this measure is complete; however, government-to-government consultations are ongoing. Records of consultations are being held with the BLM.
C-04a: Submit documentation of all pre-construction actions 30 days prior to construction	Written documentation of all preconstruction consultation actions completed to date was included in the HPMP, approved in July 2010, and the Final Class III Inventory. The preconstruction component of this mitigation measure is complete. Additional information will be provided to the BLM as the consultation process continues prior to and during construction. Actions that are required during or after construction are defined, detailed, and scheduled in the Historic Properties Treatment Plan and implemented by the Applicant, consistent with Mitigation Measure C-1c.
C-05a: Design a long-term plan to protect NRHP and/or CRHR eligible sites 30 days prior to project operation	The Long Term Cultural Resource Monitoring Plan is being prepared by SDG&E and will be submitted for review and approval at least 30 days prior to project operation.
C-06a: Provide inventory to conduct visual analysis of all known and potential historic built environment resources in HPTP	All known historic built environment resources located within 0.5 mile of the project have been inventoried and are included in the Historic Properties Treatment Plan (HPTP), which was approved on July 7, 2011. Historic built environment resources that are eligible for nomination to the National Register were analyzed for visual impacts from the project. The HPTP provides a summary of the findings and compensation mitigation for impacts to eligible historic era resources.
C-06e: Minimize visual intrusion of aboveground portion on Highway 80	Project design and location has taken this measure into account. An evaluation of visual impacts to National Register eligible properties was completed and is summarized in the Historic Properties Management Plan. Mitigation measures for visual impacts to Old Highway 80 are provided in the Historic Properties Treatment Plan, which was approved on July 7, 2011.
C-06e: Include protection plan for Old Highway 80 in HPTP	The Historic Properties Treatment Plan, which was approved on July 7, 2011, provides mitigation options for impacts to Old Highway 80.
C-06f: Minimize visual intrusion to the Desert View Tower viewshed	SDG&E included an evaluation of protection options for the Desert View Tower viewshed and the final redesign recommended by the CPUC's visual resource consultant in the Project Modification Report (PMR). The PMR was submitted to the CPUC and BLM for review and approval on May 14, 2010 and was approved on September 22, 2010. Information on the Desert View Tower viewshed can be found on pages 4-24 through 4-28 of the PMR.
C-06f: Submit a protection plan for Desert View Tower viewshed 60 days prior to construction	SDG&E has coordinated with visual resource specialists to minimize visual intrusions to the Desert View Tower viewshed. Final construction plans and the Project Modification Report (PMR6, pages 4-24 through 4-28) reflect implementation of avoidance techniques to minimize visual intrusions to the viewshed.
CR-APM-01: Instruct and provide a contract addressing protection and avoidance of cultural resources	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions regarding the recognition of possible buried cultural remains and protection of all cultural resources. A construction contract addressing state and federal laws regarding antiquities, fossils, and plants and wildlife, including the collection and removal, as well as the importance of these resources and the purpose and necessity of protecting them will be signed by each individual. Records of these contracts will be kept with the monitor. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
CR-APM-02: Flag archaeological sites eligible for National Register	Cultural site inventories have been conducted. Cultural resource sites have been avoided to the extent feasible and sites that cannot be avoided have been evaluated for National Register eligibility and included in the HPTP, which was approved on July 7, 2011. There are no National Register-eligible properties on the Cleveland National Forest that will be impacted by the project. Cultural resource sites in proximity to the project will be protected using Environmentally Sensitive Area designations.
CR-APM-02: Implement impact avoidance and APMs during construction	SDG&E consulted with the appropriate land management agencies to avoid impacts to cultural resources where feasible. The Project Modification Report and Mapbook, which was approved by the CPUC and BLM through a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates that the final design of the alignment incorporates changes based on these consultations. Impact avoidance and APMs are described in the approved HPMP and HPTP. These measures will be implemented during construction.

Mitigation Measure and APM	Status
CR-APM-03: Report within 24 hours any previously unidentified cultural resource discovered	This mitigation measure will be fulfilled during construction.
CR-APM-03: Suspend operations in the immediate area of the discovered cultural resource	This mitigation measure will be fulfilled during construction as needed.
CR-APM-03: Evaluate the discovered resource and determine appropriate actions.	This mitigation measure will be fulfilled during construction as needed.
CR-APM-03: Develop and implement a treatment plan to mitigate impacts	The HPTP and HPMP provide direction for discovery and mitigation of impacts to cultural resource sites.
CR-APM-04: Conduct maintenance and other activities in conformance with national standards	This mitigation measure will be fulfilled during construction.
CR-APM-05: Follow guidelines for cultural resources	The Historic Properties Management Plan (approved on July 15, 2010) and the Historic Properties Treatment Plan (approved on July 7, 2011) incorporate the guidance provided in this measure. SDG&E will continue to comply with cultural resources mitigation measures as outlined in the MMCRP.
CR-APM-06: Avoid historic properties by fencing or barricading	Historic properties have been surveyed and included in the HPTP. The HPTP was approved on July 7, 2011. Properties that cannot be avoided will be flagged as ESAs. These ESAs will be monitored by cultural monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
CR-APM-06: Implement a plan if historic properties cannot be avoided	The Historic Properties Management Plan (HPMP), which was approved by the CPUC, BLM, and USFS in July 2010, identifies historic properties along the Project route. The Historic Properties Treatment Plan, which was approved on July 7, 2011, includes details regarding the recording, relocation, and data recovery of historic properties, as well as compensation mitigation for project impacts.
CR-APM-07: Control impacts that can deteriorate historic	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement protective measures to minimize erosion and weeds	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement control measures to minimize vibration, dust, and fumes	This mitigation measure will be fulfilled during construction.
CR-APM-07: Minimize deterioration to buildings and structures	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement a plan if deterioration cannot be avoided	This mitigation measure will be fulfilled during construction.
CR-APM-08: Avoid and protect landscaping essential to historic property	SDG&E has consulted with the appropriate property owners to avoid impacts to historic properties. The April 30, 2010 Mapbook illustrates changes to the final design of the alignment incorporating re-design of the alignment based on these consultations. The Project Modification Report briefly discusses these reroutes. The Mapbook and PMR were approved by the BLM and CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
CR-APM-08: Minimize intrusion to the historic setting	This mitigation measure will be fulfilled during construction.
CR-APM-09: Install permanent fencing, barriers, or controlled access	This mitigation measure will be fulfilled during construction.
CR-APM-09: Restrict construction and operation access	This mitigation measure will be implemented during construction.
CR-APM-09: Instruct construction and maintenance personnel to protect sensitive properties	Construction and maintenance personnel will be instructed in protection of sensitive properties.



Mitigation Measure and APM	Status
CR-APM-10: Span conductors over historic property	A memo was submitted to the CPUC on September 13, 2010 documenting compliance with this mitigation measure. As part of the final design, SDG&E located project structures so that conductors span linear historic property to the extent feasible.
CR-APM-10: Boring shall avoid disturbance to historic property	Boring is not required to avoid historic properties on the overhead portion of the line; therefore, this mitigation measure is not applicable.
CR-APM-11: Implement standard practices on private land	The preconstruction component of this measure is complete and SDG&E's standard practices will be implemented throughout the duration of the project.
CR-APM-12: Conduct cultural surveys for staging areas not yet identified	The April 30, 2010 Mapbook illustrates changes to the final design of the alignment incorporating a redesign of the alignment based on these surveys. The Project Modification report briefly discusses these changes. The Mapbook and PMR were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
PAL-01a: Submit an inventory of significant paleontological resources	SDG&E has conducted and submitted a "Paleontological Records" report dated February 25, 2010 and a "Sunrise Powerlink Paleontological Monitoring and Discovery Treatment Plan" dated April 7, 2010. These documents were approved by the CPUC, BLM and other involved land-managing agencies on July 30, 2010.
PAL-01b: Submit a Paleontological Monitoring Treatment Plan	The Paleontological Monitoring and Treatment Plan was developed by a qualified paleontologist based on Society of Vertebrate Paleontology guidelines and was approved by the BLM, CPUC and other agencies with jurisdiction on July 20, 2010.
PAL-01c: Conduct full-time paleontological construction monitoring	The areas that require paleontological monitoring have been identified and monitors will be present during ground disturbance activities.
PAL-01c: Conduct part-time monitoring of sediments with low marginal undetermined sensitivity	This mitigation measure will be fulfilled during construction.
PAL-01c: Divert construction activities when significant fossils are recovered	The approved Monitoring and Treatment plan specifies a process for the discovery of paleontological resources.
PAL-01d: Implement Treatment Plan if significant paleontological resources are unavoidable	This mitigation measure will be fulfilled during construction.
PAL-01e: Train construction personnel on paleontological resources	The SWEAP video, which was approved by the CPUC on March 15, 2010, will be shown to all project personnel and enforced throughout all phases of the Project. The SWEAP video includes instructions on the recognition of possible subsurface paleontological resources and protection of all paleontological resources during construction.
N-01a: Obtain a variance for night construction or 200 feet from sensitive receptors 45 days prior to construction	This mitigation measure will be fulfilled during construction. If it is determined that a variance is needed for construction noise, it will be applied for and obtained prior to construction.
N-01a: Employ noise suppression techniques	This measure will be implemented during construction.
N-02a: Manage blasting with a plan for each site 45 days prior to construction	The preconstruction component of this measure is complete. A Blasting Preparation and Protection Plan was submitted to the CPUC on July 7, 2010. If blasting is deemed necessary, a site-specific blasting plan will be submitted to the CPUC and implemented during construction.
N-02a: Restore damaged structure and compensate owner	This mitigation measure will be fulfilled post construction, as needed.
NOI-APM-01: Provide notice to sensitive receptors and residences within 300 feet of construction	The Construction Notification Plan addresses providing notice to sensitive receptors within 300 feet of construction sites, staging areas, and access roads. The Construction Notification Plan was submitted to the CPUC on August 26, 2009 and approved by the CPUC on March 1, 2010. The preconstruction component of this measure is complete. SDG&E will provide the CPUC with verification that notifications were made prior to start of construction.
NOI-APM-01: Provide a public liaison person before and during construction.	The Construction Notification Plan, which was approved by the CPUC on March 1, 2010, identifies the public liaison person who will respond to concerns of neighboring receptors about noise disturbances.

Mitigation Measure and APM	Status
NOI-APM-01: Establish a toll free number for questions and complaints	The Construction Notification Plan, which was approved by the CPUC on March 1, 2010, identifies the toll free telephone number established by SDG&E for receiving questions or complaints during construction. The Construction Notification Plan also identifies procedures for responding to callers.
T-01a: Restrict lane closures or obstructions on major roadways	SDG&E submitted two memos to the CPUC for their administrative record documenting coordination regarding traffic issues. A memo documenting coordination with Imperial County was submitted to CPUC on October 15, 2010. Documentation of coordination with San Diego County and Caltrans was submitted on October 20, 2010. Lane closures are not anticipated to occur; however, if lane closures are required, this measure will be implemented during construction. Lane closures will be addressed in traffic plans as required by any encroachment permits required by the agencies.
T-04a: Provide temporary pedestrian access	Interference with pedestrian access is not anticipated to occur. However, if temporary closures of sidewalks and other pedestrian facilities do occur during construction, this measure will be implemented.
T-04a: Provide detours and signs for bike route closures	Bike route or path closures are not anticipated to occur. However, if bike route or bike path closures do occur during construction, this measure will be implemented.
T-05a: Coordinate road repairs with public agencies	This measure will be implemented post construction.
T-05a: Protect drainage structures and incorporate measures into access agreement/easement	Access agreements/easements will be obtained prior to any road work. Measures required in the agreement/easement will be implemented during construction.
T-07a: Conform to agency requirements if parking spaces are eliminated or relocated	The Construction Notification Plan addresses notification of the public through local newspapers and on-site postings when parking spaces may be temporarily eliminated or relocated. The Plan was submitted to the CPUC on August 26, 2009 and approved by the CPUC on March 1, 2010. Impacts to parking are not anticipated. However, if parking spaces are eliminated or relocated as a result of construction, SDG&E will post "No Parking" signs 48 hours in advance to notify the public of potential short-term elimination of parking spaces.
T-09a: Prepare a Construction Transportation Management Plan	A project-wide Traffic Study was submitted on April 28, 2010 and approved by Imperial County on August 19, 2010, San Diego County on September 29, 2010 and Caltrans on August 19, 2010. The Study revealed that there is only one area, Highway 67 on Link 5, where a CTMP will be required. Documentation of coordination with Imperial County was submitted to CPUC on October 15, 2010. Documentation of coordination with San Diego County and Caltrans was submitted on October 20, 2010.
T-11b: Provide notification when and where the line will be erected prior to construction	SDG&E has consulted with U.S. Customs and Border Patrol regarding the location of new transmission lines and towers. SDG&E met with U.S. Customs and Border Patrol representatives on December 17, 2009, February 8, 2010, and April 20, 2010. A memo documenting this coordination was provided to CPUC for the administrative record on October 15, 2010.
T-11b: Provide maps of the alignment near the U.S./Mexico border	The April 30, 2010 Mapbook, which was approved by the CPUC and BLM in a Determination Memorandum on September 22, 2010, includes aerial images that clearly show the new lines and towers in relation to the U.S./Mexico border within San Diego and Imperial counties. SDG&E provided a copy of this Mapbook to border patrol aircraft, the U.S. Customs and Border Patrol, and the CPUC on May 14, 2010. SDG&E consulted with the U.S. Customs and Border Patrol on December 17, 2009, February 8, 2010, and April 20, 2010.
T-APM-02a: Obtain permits for temporary lane closures	In areas where a temporary lane closure is determined to be necessary, SDG&E will obtain required permits from Imperial County, San Diego County, and Caltrans. This measure will be satisfied during construction. See mitigation measure T-9a regarding coordination with Imperial County, San Diego County, and CalTrans regarding traffic impacts.
T-APM-02b: Submit Detour Plans	In an area where detours are determined to be necessary, SDG&E will submit detour plans to Imperial County, San Diego County, and Caltrans. No detours will occur until detour plans are submitted to the appropriate agency and permits are obtained. This measure will be implemented during construction. See mitigation measure T-9a regarding coordination with Imperial County, San Diego County, and CalTrans related to traffic impacts.

Mitigation Measure and APM	Status
T-APM-02b: Right-of-Entry permit required for construction and maintenance activities outside of easements in the ABDSP	No project activities will occur within ABDSP; therefore, this mitigation measure is not applicable.
T-APM-02b: Provide a request for maintenance or other earth-disturbing activities within California State Parks	No project activities will occur on California State Park land; therefore, this measure is not applicable.
T-APM-04a: Coordinate in advance with emergency service providers	SDG&E will coordinate with emergency service providers prior to initiation of construction activities that would restrict movements of emergency vehicles.
T-APM-04a: Notify cities and counties regarding construction activities	SDG&E shall notify and provide required information to counties and cities prior to initiation of construction activities that could impact police, fire, ambulance and paramedic services.
T-APM-05a: Coordinate construction activities adjacent to school bus stops with school districts 1 month prior to construction	SDG&E has coordinated with school districts project-wide to discuss construction activities adjacent to school bus stops. Documentation of this coordination effort was provided to CPUC for the administrative record on October 28, 2010.
T-APM-05a: Consult with transit authorities 1 month prior to construction	SDG&E has coordinated with the Imperial Valley Transit District and the Metropolitan Transit District to discuss construction activities and potential impacts to transit services. Documentation of this coordination effort was provided to CPUC for the administrative record on October 28, 2010.
T-APM-06a: Parking in Imperial County shall comply with County regulations and per an approved traffic control plan	This measure will be implemented during construction.
T-APM-06b: Parking in San Diego County shall comply with County regulations and per an approved traffic control plan	This measure will be implemented during construction.
T-APM-08a: Obtain permit(s) if entering railroad right-of-way	SDG&E's contractor will obtain right-of way permits with railroad companies as determined. Three railroad crossings occur on Link 1.
T-APM-09a: Underground utility facilities within 1,000 feet of an Officially Designated Scenic Highway	There will be no new or relocated utility facilities on Links 1, 2, or 5 within 1,000 feet of an Officially Designated Scenic Highway. Therefore, this measure is not applicable to Links 1, 2, or 5.
T-APM-10a: Ensure continuous access to properties	During construction, SDG&E will ensure that the construction contractor provides driveway access to businesses and residences.
HS-APM-01: Train personnel using hazardous materials	The SWEAP video that was approved by the CPUC on March 15, 2010 includes training on hazardous materials management procedures. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
HS-APM-01: Develop a Hazardous Communication Plan	The Sunrise Powerlink Hazard Communication (HazCom) Plan was approved by the CPUC on April 2, 2010. The HazCom Plan includes site-specific information and the location of MSDS.
HS-APM-02: Trained personnel to perform refueling	Refueling will only be performed by operators trained in refueling of vehicles or equipment.
HS-APM-02: Conduct refueling in designated areas or by assigned vehicles	Refueling will be performed in designated areas or by a mobile refueling tanker with secondary containment.
HS-APM-03: Develop applicable safety plans	The Sunrise Powerlink Hazard Communication Plan (HazCom) was approved by the CPUC on April 2, 2010. The HazCom Plan includes site specific information and the location of MSDS. Appropriate safety plans, such as a HMBP and/or SPCC Plan will be developed as the project progresses and storage locations are identified. Plans will be updated during construction as needed.
HS-APM-05: Investigate impacts of all contaminated sites	The Soil Management Plan was submitted to the CPUC on July 2, 2010 and approved on September 9, 2010. The Soil Management Plan addresses the requirements stipulated in this measure. The Phase 1 Environmental Site Assessment was submitted to CPUC on December 3, 2009 and provides additional information, as well as the results of the investigation.



Mitigation Measure and APM	Status
HS-APM-06: Investigate UXO by trained contractor	An investigation of the project ROW has been conducted by In Depth Corporation, a trained contractor. A memo summarizing these results was submitted to the CPUC on October 7, 2010. A revised memo was submitted on October 26, 2010 to address comments received from CPUC.
HS-APM-06: Remove UXO by trained personnel	An investigation of the project ROW was conducted by a UXO trained contractor. No UXO were located; however, if potential UXO is found during construction, construction will be temporarily halted until a trained contractor can assess the situation.
HS-APM-07: Train personnel to recognize UXO	The SWEAP video was approved by the CPUC on March 15, 2010 and discusses training of personnel involved in excavation regarding recognition of UXO.
HS-APM-08: Assign Environmental or Health & Safety Representative	SDG&E has assigned Steve Riggs, Field Monitoring Manager with Burns & McDonnell, as the Environmental Field Representative project-wide.
HS-APM-09: Contact airport representatives within 2 miles	A memo was submitted to the CPUC for the administrative record documenting compliance with Mitigation Measure HS-APM-9, Task 1, on September 10, 2010.  SDG&E has provided notice to the FAA of all structures on the line, and the FAA has published notice and request for comment of structures within 2 miles of the Jacumba airstrip. There are no other airports within 2 miles of Link 1.
HS-APM-10: Store and dispose of hazardous waste per regulations	If hazardous wastes are generated, they will be properly disposed of and stored in accordance with all applicable federal and state regulations. Hazardous material minimization measures shall be employed whenever possible.
HS-APM-11: Develop Fire Prevention and Response Plan	The Fire Plan, acknowledged by the CAL Fire Chief, was submitted to the CPUC on December 14, 2009 and approved on February 2, 2010. The USFS approved the plan January 19, 2011.
HS-APM-11: Assign Fire Marshal to enforce fire prevention provisions	The Fire Plan, acknowledged by the CAL Fire Chief, was approved by the CPUC on February 2, 2010 and the USFS on January 19, 2011. A project Fire Marshal has been hired for the project and is assigned to enforce the FPRP.
HS-APM-12: Develop a Traffic Control Plan	See T-9a
HS-APM-14: Conduct environmental training to construction workers	The SWEAP video, which was approved by the CPUC on March 15, 2010, provides environmental training to construction workers regarding potential exposure. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
HS-APM-15: Stop work if soil or groundwater contamination is suspected	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-16: Terminate work and implement health and safety procedures if contamination is suspected	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-16: Take preliminary samples and send to lab for testing	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-17: Work may proceed if no contamination	This mitigation measure will be fulfilled during construction.
HS-APM-17: Notify agencies if contamination is above regulatory limits	This mitigation measure will be fulfilled during construction.
P-01a: Implement an environmental monitoring plan	The Environmental Monitoring Plan was submitted to the CPUC on May 10, 2010. In addition, the SWEAP video, approved by the CPUC on March 15, 2010, discusses implementation of the Environmental Monitoring Program; maintenance of emergency spill supplies and equipment; the proper use of hazardous materials, development of a Hazardous Communication Plan; development of applicable environmental safety plans associated with hazardous materials; assignment of an Environmental Field Representative and/or General Contractor to the Health & Safety Office for the project; proper disposal/storage of hazardous and solid wastes in accordance with federal, state, and local regulations; and environmental training regarding potential exposure. The SWEAP video will be shown to all project personnel and enforced throughout all phases of the Project.

Mitigation Measure and APM	Status
P-01a: Designate an Environmental Field Representative	The Environmental Monitoring Plan was submitted to CPUC on May 10, 2010. The Environmental Monitoring Plan identifies Steve Riggs as the Environmental Field Representative/Lead Monitoring Manager for this Project.
P-01b: Maintain hazardous material spill kits onsite	This measure will be implemented during construction.
P-02a: Test farmed soil samples and submit sampling and testing plan 60 days prior to construction	The Sampling and Testing Plan was approved by the CPUC on May 23, 2010. The Agricultural Sampling Report dated May 7, 2010 was approved on September 2, 2010.
P-02a: Submit laboratory results 30 days prior to construction	The Sampling and Testing Plan was approved on March 23, 2010. The Agricultural Sampling Report dated May 7, 2010 was approved on September 2, 2010. The Soil Management Plan was approved by the CPUC on September 9, 2010. This measure is complete for all project areas with the exception of one property in Link 5 associated with structures CP63 and CP64.
P-02a: Follow regulatory procedures for handling and disposal of contaminated soil	Excavated materials containing elevated levels of pesticide or herbicide will be managed in compliance with the Soil Management Plan approved by the CPUC on September 9, 2010.
P-02a: Use effective dust suppression procedures	During construction, effective dust suppression procedures will be used in construction areas to reduce airborne emissions of these contaminants and reduce the risk of exposure to workers and the public.
P-02a: Consult regulatory agencies for handling, treatment, and/or disposal	Regulatory agencies for the State of California (DTSC or RWQCB) and the appropriate County (San Diego or Imperial) will be contacted by SDG&E or its contractor to plan handling, treatment, and/or disposal options.
P-03a: Collect soil or groundwater samples if contaminated	This measure will be implemented during construction.
P-03a: Coordinate with regulatory agencies if contaminated soil or groundwater confirmed by laboratory data	This measure will be implemented during construction.
P-03b: Submit report to agencies of contaminated soil within 30 days of laboratory data receipt	This measure will be implemented during construction.
P-07a: Implement steps 60 days prior to construction if excavation will occur	The Soil Management Plan was approved by the CPUC on September 9, 2010 as fully addressing the requirements of this measure. A Phase 1 Environmental Site Assessment was submitted to the CPUC for review on December 2, 2009. In the event that new areas requiring ground disturbance are identified during construction, a Phase 1 will be conducted and submitted to the CPUC prior to ground disturbance in those areas.
PS-01a: Limit conductor surface gradient	SDG&E submitted a memorandum to the CPUC on September 30, 2010 demonstrating that SDG&E has limited the conductor surface electric gradient in accordance with the IEEE Radio Noise Design Guide.
PS-02a: Identify objects within and near ROW for induced voltages and implement electrical grounding	A memorandum addressing completion of this measure was submitted to the CPUC on September 30, 2010 and approved on October 6, 2010.
AQ-01a: Pave, apply water 3 times daily, or apply soil stabilizers	A Dust Control Plan was submitted to the CPUC and approved on January 20, 2010. This measure will be implemented during construction, as well as the measures specified in the Dust Control Plan.
AQ-01a: Pre-water sites 48 hours prior to clearing	This mitigation measure will be fulfilled during construction.
AQ-01a: Reduce amount of disturbed area	This mitigation measure will be fulfilled during construction.
AQ-01a: Spray stock-piles daily or as needed	This mitigation measure will be fulfilled during construction.
AQ-01a: Cover loads in trucks or maintain 6 inches of free-board	This mitigation measure will be fulfilled during construction.
AQ-01a: Pre-moisten import and export dirt prior to transport	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
AQ-01a: Sweep public streets daily if soil tracking visible	This mitigation measure will be fulfilled during construction.
AQ-01a: Plant vegetative ground cover following construction	This mitigation measure will be implemented immediately following construction.
AQ-01a: Apply soil stabilizers or water on inactive work areas	This mitigation measure will be fulfilled during construction.
AQ-01a: File a Dust Control Plan 30 days prior to construction	The Dust Control Plan was submitted to the CPUC and approved on January 20, 2010 and the Wildlife Agencies on November 10, 2010.
AQ-01b: Maintain construction equipment and use low-emission equipment	SDG&E will use available Tier 3 equipment, minimizing the use of Tier 2 equipment at the yard. Any portable equipment over 50 hp will be permitted with the local Air Pollution Control District (APCD) or the California Air Resources Control Board. Equipment run logs will be maintained on a daily basis and periodically submitted to the CPUC.
AQ-01h: Obtain NOx emission reduction credits or fund incentive programs prior to construction	Mitigation measure AQ-01h, which was required to achieve emission reductions to levels below the federal thresholds due to BLM activities, is no longer applicable. The emissions expected based on the PMR are less than the federal General Conformity de minimus thresholds for San Diego Air Basin as determined in the Memorandum of Determination issued by the CPUC and BLM in September 2010. For additional information refer to pages 8-9 of the memorandum. Emissions from activities on National Forest System lands are below the de minimus thresholds.
AQ-04a: Report quarterly the status of carbon credits	SDG&E submitted a proposal regarding greenhouse gas emissions off-sets to the CPUC on August 27, 2009. The emissions off-sets approach was conditionally approved on September 7, 2009. The CPUC sent an email approving the proposed off-set purchases on November 9, 2009, and SDG&E then purchased Climate Reserve Tonnes (CRTs) to satisfy this measure. Currently, SDG&E is in the process of retiring approximately 44,392 metric tons (48,934 short tons) of CRTs to offset the greenhouse gas emissions from Project construction. This action will satisfy SDG&E's mitigation obligation under AQ-04a. Documentation of the CRT retirement will be provided to the CPUC.
AQ-04c: Submit SF6 leak detection and repair program 90 days prior to construction	On April 2, 2010, the CPUC approved the submittals provided by SDG&E that documented its partnership with the U.S. EPA and development of a SF6 Leak Detection and Repair Program, which addressed the requirements included in this measure. The CPUC approval acknowledged satisfaction of this measure.
AQ-04c: Become a Partner in EPA's SF6 Partnership prior to construction.	The Partnership MOU between SDG&E and the U.S. EPA was established on February 24, 2010.
AQ-04c: Report SF6 emissions to CCAR	A SF6 Leak Detection and Repair Program was approved on March 12, 2010 and discusses the reporting procedures to the CCAR. SDG&E will implement the program and submit reports as required,
AQ-APM-01: Comply with ICAPCD Rule 800 for work in Imperial County	The Dust Control Plan, which was filed with the ICAPCD and approved by the CPUC on January 20, 2010, addresses compliance with ICAPCD Rule 800. There is no work in Imperial County on USFS lands.
AQ-APM-01: File a Dust Control Plan with ICAPCD for work in Imperial County	The Dust Control Plan was filed with the ICAPCD and approved by the CPUC on January 20, 2010. There is no work in Imperial County on USFS lands.
AQ-APM-02: Prohibit grading when wind exceeds 25 mph	This mitigation measure will be fulfilled during construction. SDG&E will prohibit construction grading on days when the wind gusts exceed 25 mph.
AQ-APM-02: Cover loads in trucks or maintain 2 feet of freeboard	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Install snow fence-type windbreaks	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Limit vehicle speeds to 15 mph on unpaved roads	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Water unpaved roads	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Apply soil stabilizers	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Contain exposed stockpiles of soil and other material	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
AQ-APM-03: Use methods to minimize mud and dust tracking on paved roads	This mitigation measure will be fulfilled during construction. A Dust Control Plan was approved by the CPUC on January 20, 2010. Conditions of the Dust Control Plan will be implemented and enforced throughout the Project.
AQ-APM-04: Encourage carpooling to job sites	The SWEAP video, approved by the CPUC on March 15, 2010, encourages carpooling. This video will be shown to all Project Personnel and enforced throughout all phases of the Project.
AQ-APM-05: Minimize vehicle idling time with common sense approach	The SWEAP video was approved by the CPUC on March 15, 2010. The video addresses vehicle idling. The video will be shown to all Project personnel and enforced throughout all phases of the Project.
AQ-APM-05: Conduct briefings on common sense vehicle use	This mitigation measure will be implemented during construction.
H-01k: File hazardous substance plan within 1 year of license issuance	This mitigation measure is only applicable to USFS-managed lands. The Hazardous Substances Control & Emergency Response Plan was approved by the USFS on March 11, 2011. SDG&E will comply with all Forest Service conditions as required by the Special Use Permit.
H-01k: Confine vehicles to roads identified in a Road and Traffic Management Plan	This mitigation measure is only applicable to USFS-managed lands. SDG&E will comply with all Forest Service conditions as required by the Special Use Permit and implement the approved Road and Transportation Management Plan.
H-01k: File an Erosion Control Measure Plan prior to construction	The NPDES permits and associated SWPPPs were submitted to the CPUC on September 15, 2010. The USFS acknowledged adequacy of the SWPPPs on March 2, 2011. The conditions of the permit and SWPPP, which address the requirements of this measure, will be implemented and enforced during construction to prevent and avoid hydrologic impacts. This measure is only applicable to USFS-managed lands.
H-01k: Submit NEPA analysis prior to ground disturbing work	The Final Environmental Impact Report/Environmental Impact Statement was submitted to the USFS. The Project Modification Report and Mapbook were approved by the USFS in the ROD dated July 9, 2010. This measure is only applicable to USFS-managed lands.
H-01k: Enter into a cost recovery agreement with the Forest Service	This measure is only applicable to USFS-managed lands. On May 4, 2009, SDG&E entered into a Cost Recovery Agreement (#09MJ-11050254201) for USFS review of SDG&E's proposal and application for the Special Use Permit.
H-01k: File a Water Resources Management Plan within 6 months of license issuance	SDG&E will control and monitor project-related effects to water resources on USFS land through the implementation of SWPPPs. The NPDES permits and associated SWPPPs were submitted to the CPUC on September 15, 2010. The USFS acknowledged adequacy of the SWPPPs on March 2, 2011.
H-01k: File a plan for ground and surface water management within 1 year of license issuance	A Water Use Study that discussed coordination efforts with local water districts was submitted for review on February 22, 2010. Groundwater supplies will not be used during project construction; therefore, this component of H-01k is not applicable.
H-01l: Submit a site-specific sediment control plan and SWPPP prior to construction	The SWPPP and NPDES permit associated with WDID #9 37C357500 were submitted to the CPUC and USFS on September 15, 2010. The conditions of the permit and SWPPP will be implemented and enforced during the construction to prevent and avoid hydrologic impacts.
H-02d: Provide vehicle and equipment maintenance log monthly	This mitigation measure will be implemented during construction. A vehicle and equipment maintenance log will be provided to the CPUC and BLM once monthly during project construction.
H-04b: Manage blasting near wells or springs with a Blasting Plan for each site	A Wells and Springs Survey was submitted to CPUC on July 7, 2010 to address this mitigation measure prior to construction. This report was approved by CPUC on September 2, 2010. During construction, if blasting is determined to be necessary near a surveyed well or spring, SDG&E's contractor will prepare a blasting plan that addresses protection of the nearby well or spring.
H-06a: Determine which towers require scour protection during design phase	SDG&E provided the CPUC with an engineering report, sealed by a civil engineer registered in the State of California, demonstrating which towers may reasonably be subject to erosion during the life of the project. The report also provided plans for protection from scour, as well as an engineering demonstration that the tower and associated structures will not induce erosion onto adjacent property. The report was approved by the CPUC on October 7, 2010.
H-06a: Submit evaluation and design plans 60 prior to constructing towers	SDG&E provided the CPUC with an engineering report, sealed by a civil engineer registered in the State of California, demonstrating which towers may reasonably be subject to erosion during the life of the project. The report also provided plans for protection from scour, as well as an engineering demonstration that the tower and associated structures will not induce erosion onto adjacent property. The report was approved by the CPUC on October 7, 2010.



Mitigation Measure and APM	Status
H-07a: Submit a Hazardous Substance Control and Emergency Response Plan 60 days prior to construction	<p>A memo was submitted to the CPUC for their administrative record on September 15, 2010 documenting compliance with this mitigation measure and providing the Waste Discharge Identification numbers assigned by the California State Water Resources Control Board. For Link 1, the following WDID numbers have been assigned: 737C358239, 737C358304, 713C358250, 713C358305, 713C358275.</p> <p>Five site-specific SWPPPs have been developed for Link 1. These SWPPPs contain procedures (Section 8.0) to reduce the potential of spills and emergency response information to ensure quick and safe clean-up of spills. In addition, hazardous materials management is addressed in the Spill Prevention, Control and Countermeasure (SPCC) plans and Hazardous Materials Business Plans developed for the Project.</p>
WQ-APM-01: Minimize disturbance to water resources	This mitigation measure will be implemented during construction. Grading plans, which were submitted to the CPUC on September 2, 2010, demonstrate how disturbance to water resources will be minimized. In addition, the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, address changes to the final alignment to reduce impacts to water resources.
WQ-APM-02: Avoid sensitive water features	Impacts to jurisdictional features were considered during design of the project and have been avoided, to the extent feasible. The locations of the structures are shown in the Project Modification Report and Mapbook, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-2, on August 30, 2010.
WQ-APM-03: Clearly mark restricted sites prior to construction	Specific sites, as identified by authorized agencies, will be staked and flagged by a qualified biologist prior to construction and documented in the weekly monitoring report. Surface disturbing activities will not be allowed to begin until the sites have been clearly marked, fenced or flagged to delineate those areas specifically allowed for use and those areas that are restricted.
WQ-APM-03: Train construction personnel to recognize markers	The SWEAP video, which was approved by the CPUC on March 15, 2010, includes recognition of markers and equipment movement restrictions. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
WQ-APM-04: Maintain adequate distance from stream banks	This mitigation measure will be fulfilled during construction.
WQ-APM-04: Use existing bridges to cross major streams	This mitigation measure will be fulfilled during construction.
WQ-APM-04: Span riparian areas where feasible	Impacts to surface water, riparian areas, and floodplains were considered during design of the project and have been avoided or will be spanned, to the extent feasible. Structure locations are shown in the Project Modification Report and Mapbook, which were approved by CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
WQ-APM-04: Prepare and implement erosion control BMPs per the SWPPP	The SWPPPs and NPDES permits associated with the following WDID #s 737C358239, 737C358304, 713C358250, 713C358305 and 713C358275 were submitted to the CPUC on September 15, 2010. In addition, SWPPPs applicable to USFS land were submitted to the USFS on March 2, 2011. The USFS acknowledged adequacy of the SWPPPs on March 11, 2011. The conditions of the permit and SWPPP will be implemented and enforced during construction to prevent and avoid hydrologic impacts.
WQ-APM-04: Select upland pull sites to minimize disturbance to water resources	Impacts to surface water, riparian areas, wetlands, and floodplains were considered during design of the project and have been avoided to the extent feasible. The locations of the pull sites are shown in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-4, on August 30, 2010.
WQ-APM-04: Do not place structures in streambeds or drainage channels	Impacts to surface water, riparian areas, wetlands, and floodplains were considered during design of the project and have been avoided to the extent feasible. The locations of the pull sites are shown in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-4, on August 30, 2010.

Mitigation Measure and APM	Status
WQ-APM-05: Construct stream crossings and develop a mitigation and restoration plan	SDG&E submitted a HMMP on July 14, 2010 as outlined in this mitigation measure. This plan was revised and provided to the agencies on October 7, 2010. The HMMP was accepted by the Army Corps of Engineers, California Department of Fish and Game, and State Water Resources Control Board in concept; however, the agencies requested that the plan be reformatted to break out each mitigation property. The revised plans (one for each of the five mitigation sites) were submitted to the agencies on November 30, 2010 and accepted on December 16, 2010. The USFS reviewed and acknowledged the HMMP on February 7, 2011 (Exhibit 13 of the SUP). This plan was prepared by a qualified habitat restoration specialist and will be implemented by a qualified habitat restoration specialist. The preconstruction component of this measure is complete.
WQ-APM-06: Avoid designated surface water protection areas	The final project alignment is in the vicinity of the following source water; Lake Morena, Barrett Lake, El Capitan Reservoir, and San Vicente Reservoir. All these source waters will be avoided. The nearest source water to a project facility is the El Capitan Reservoir (Link 5). Structure CP72-2 (PMR mapbook page MS-119) is within 350 feet of the reservoir. The pullsite adjacent to the structure is approximately 100 feet from the reservoir. The next nearest source water to a project facility is the San Vicente Reservoir (Link 5), which is approximately 1650 feet from structure CP39 (PMR mapbook page MS-132). All other source waters are at least 1 mile from a project facility.
WQ-APM-06: No diversions, detention, retention, or consumption of surface waters	This mitigation measure will be fulfilled during construction.
WQ-APM-06: Conduct interviews with affected landowners prior to construction	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-06: Negotiate with landowners to provide alternative water supplies	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-08: Obtain permits prior to discharging groundwater into storm drains	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-08: Contain and sample if dewatering and then release water according to test results	Discharge of groundwater and dewatering is not anticipated during construction. If it is later determined that dewatering is necessary, SDG&E will implement this measure as described.
WQ-APM-09: Storing fuels and hazardous materials prohibited near wells	This mitigation measure will be fulfilled during construction.
WQ-APM-10: Minimize stream bank erosion	See H-06a
WQ-APM-13: Dispose trash into enclosed containment	A trash enclosure will be provided during construction.
WQ-APM-13: Remove hazardous materials to a hazardous waste facility and promptly clean up if released onto ground	This mitigation measure will be fulfilled during construction.
WQ-APM-14: Obtain NPDES permit and implement a SWPPP	The SWPPPs and NPDES permits associated with the following WDID #s 737C358239, 737C358304, 713C358250, 713C358305 and 713C358275 were submitted to the CPUC on September 15, 2010. In addition, SWPPPs applicable to USFS land were submitted to the USFS on March 2, 2011. The USFS acknowledged adequacy of the SWPPPs on March 11, 2011. The conditions of the permits and SWPPPs will be implemented and enforced during the construction to prevent and avoid hydrologic impacts.
WQ-APM-15: Adjust route of access roads to avoid sensitive features	Revised 401, 404 and 1602 permit applications were submitted for review and approval on March 30, 2010. SDG&E received the signed 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was received on January 7, 2011. Also see BIO-APM-05.
WQ-APM-15: Use existing roads or cross-country access routes	This mitigation measure will be fulfilled during construction.
WQ-APM-15: Clearly mark approved construction traffic routes	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
WQ-APM-16: Conduct site-specific assessment where sensitive water resources cannot be avoided	Biological, hydrology and cultural resource assessments were completed in accordance with the ACOE and CDFG guidelines. Permit applications for ACOE 404 Nationwide 12, CDFG 1600 Streambed Alteration Agreement and Regional Water Quality Control Board 401 Water Quality Certification were submitted on March 30, 2010. SDG&E received the signed 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement on November 17, 2010. The ACOE 404 permit was received on January 7, 2011.
WQ-APM-16: Locate staging/storage areas outside of riparian areas	SDG&E has located staging/storage areas for equipment and materials outside of riparian areas. This is demonstrated in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
WQ-APM-16: Obtain a Streambed Alteration Agreement when constructing new access through streambeds	The California Department of Fish and Game issued a Streambed Alteration Agreement (SAA) on November 17, 2010. A copy of the SAA will be maintained onsite during construction.
G-02a: Avoid or minimize desert pavement grading	SDG&E prepared a Desert Pavement Protection Plan that identifies areas of desert pavement and discusses protection of desert pavement. This Plan was approved by the CPUC and BLM on September 10, 2010. SDG&E will implement the plan during construction to minimize impacts to desert pavement. There is no desert pavement on USFS land.
G-02a: Submit a plan to identify and protect desert pavement 60 days prior to construction	SDG&E prepared a Desert Pavement Protection Plan that identifies areas of desert pavement and discusses protection of desert pavement. This Plan was approved by the CPUC and BLM on September 10, 2010. There is no desert pavement on USFS land.
G-03a: Submit design-level geotechnical studies 60 day prior to final project design	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. CPUC issued a memorandum on June 18, 2010 confirming that this report satisfies the requirements of this mitigation measure.
G-04a: Submit site-specific seismic analyses 60 days prior to final project design	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. An explanation of structure design based on windloading instead of seismic loading is included in the Executive Summary. The final project design is based on the findings of this report. CPUC's geotechnical consultant issued a memorandum on June 18, 2010 confirming that this report satisfies the requirements of this mitigation measure.
G-04b: Submit liquefaction studies 60 days prior to final project design	The Geotechnical and Geologic Hazards Investigation Report (dated October 16, 2009) was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. SDG&E will conduct additional geotechnical exploration, including borings, as soon as authorization is received from the appropriate land-managing agency. A supplemental report will be provided prior to installation of structures.
G-05a: Submit a report with studies of active and potential active faults 60 days prior to construction	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. SDG&E will conduct additional geotechnical exploration to confirm the location of mapped traces of active and potentially active faults and will submit a report to the CPUC that addresses any required modifications based on the results of these investigations. SDG&E will provide this supplemental report prior to installation of structures.
G-06a: Submit slope stability analyses 60 days prior to construction	The Geotechnical and Geologic Hazards Investigation Report (dated October 16, 2009) was submitted to CPUC for review and approval on April 19, 2010. The Geotechnical Evaluation, Access Roads and Structure Pads (dated October 16, 2009) was submitted to CPUC for review and approval on May 28, 2010. These reports included slope stability analyses as described in this measure. The final project design is based on the findings of these reports. As required by the CPUC memo dated June 18, 2010, additional investigations for landslide and rock fall hazards will occur in areas along Segment 9A of Link 1 during construction.
G-09a: Coordinate to determine status and plans of active quarries	SDG&E has coordinated with Pyramid Quarry personnel and BLM to determine the status of and plans for active quarries adjacent to or crossed by project alignments. Coordination efforts were included in the Project Modification Report submitted to the CPUC on May 14, 2010. The Determination Memorandum and BLM Determination of NEPA Adequacy dated September 22, 2010 acknowledged coordination efforts and noted that SDG&E will continue to coordinate with Pyramid during construction. This measure does not apply to USFS-managed lands.

Mitigation Measure and APM	Status
G-09a: Submit plan to avoid impacts to mining operations 60 days prior to construction	SDG&E has coordinated with Pyramid Quarry personnel and BLM to determine the status of and plans for active quarries adjacent to or crossed by project alignments. Coordination efforts and a plan to minimize interference with operations were included in the Project Modification Report submitted to the CPUC on May 14, 2010. The Determination Memorandum and BLM Determination of NEPA Adequacy dated September 22, 2010 acknowledged coordination efforts and noted that SDG&E will continue to coordinate with Pyramid during construction. This measure does not apply to USFS-managed lands.
G-09a: Provide map of reroute and summary of impacts to mining areas	Neither the SWPL or the Interstate 8 Alternative require a reroute due to quarry operations; therefore, this mitigation measure is not applicable.
GEO-APM-01: No widening or grading of existing access roads if soil is sensitive to disturbance	The FEIR/EIS identified sensitive soils as "natural sand sources that supply the material for sand dune systems throughout the ABDSP." The project no longer impacts ABDSP and there are no sand dune systems along the project route; therefore, this mitigation measure does not apply.
GEO-APM-02: Minimize soil disturbance or return to pre-construction contours and condition	This mitigation measure will be implemented during construction.
GEO-APM-03: Avoid placing structures in areas of high shrink/swell potential	The Geotechnical and Geologic Hazards Investigation Report was submitted to CPUC for review and approval on April 19, 2010. The report determined that no areas of high shrink/swell are present. The CPUC geotechnical consultant issued a memorandum on June 18, 2010 confirming concurrence with this finding. Therefore, this measure does not apply.
GEO-APM-04: Place structures in geologically stable areas	See G-6a
GEO-APM-05: Implement construction to avoid or minimize new soil disturbance	The preconstruction portion of this measure is complete. Final grading and plan and profiles were submitted to the CPUC on September 2, 2010 and approved by the USFS on March 11, 2011. Project construction activities were designed to avoid or minimize new disturbance and erosion on manufactured slopes. SDG&E will adhere to the grading plans and the SWPPP during construction.
GEO-APM-05: Maintain cut and fill slopes with erosion control and repair	This mitigation measure will be fulfilled during construction.
GEO-APM-06: Perform surface restoration for erosion control and re-vegetation	Erosion control will be implemented under Project site-specific SWPPPs and shall include areas where re-contouring and substantial ground disturbance will be required. This mitigation measure will be fulfilled during construction.
GEO-APM-08: Remove or stabilize boulders and span structures over landslide areas	This mitigation measure will be fulfilled during construction.
GEO-APM-09: Implement field mitigation efforts if paleontological resources are encountered	This mitigation measure will be fulfilled during construction.
GEO-APM-09: Consult with agencies if paleontological resources cannot be avoided	This mitigation measure will be fulfilled during construction.
PSU-APM-01: Coordinate with utility providers	A memo was submitted to the CPUC documenting compliance with Mitigation Measure PSU-APM-1 on October 14, 2010. The memo was approved by November 5, 2010 and satisfies the preconstruction component of this measure. SDG&E will continue to coordinate with the Imperial Irrigation District (IID) during construction on the locations and times where work will be in close proximity to IID utility lines. Additionally, SDG&E will notify the DigAlert service immediately prior to construction in areas to identify conflicts with utility providers and avoid/provide adequate operational and safety buffering.
PSU-APM-02: Notify Underground Service Alert 48 hours prior to earth-disturbing activities	This mitigation measure will be implemented during construction.
PSU-APM-03: Minimize disruption to response times and access for emergency and police services	This mitigation measure will be implemented during construction.



Mitigation Measure and APM	Status
S-02a: Provide copies of posted public notices of planned outages	This measure will be implemented during construction. Copies of notices and dates of public notification shall be provided to the CPUC and BLM prior to any planned outage.
S-02b: Submit documentation prior to construction of the underground transmission line	Link 1 does not include underground transmission line construction; therefore, this mitigation measure is not applicable.
S-03a: Provide documentation to show amount of waste recycled	This mitigation measure will be implemented during and following the completion of construction.
S-03b: Coordinate with water districts	A Water Use Study that discussed coordination efforts with local water districts was submitted for review on February 22, 2010. In addition, an Addendum to the 23 April 2010 Water Resources Availability Study (dated March 18, 2011) was submitted on March 21, 2011. SDG&E will obtain a variance for the use of reclaimed water outside of the Padre Dam and City of San Diego jurisdictions. Potable water will be used until the variance is obtained. Copies of variances will be submitted to the CPUC prior to use of reclaimed water.
S-03b: Provide letter 60 days prior to construction describing availability of reclaimed water and efforts to obtain for use	A Water Use Study describing the availability of reclaimed water was submitted on February 22, 2010. In addition, and Addendum to the 23 April 2010 Water Resources Availability Study (dated March 18, 2011) was submitted on March 21, 2011.
F-01a: Submit draft Construction Fire Prevention Plan 90 days prior to construction	A Construction Fire Plan was acknowledged by the CAL FIRE Chief and was approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011.
F-01a: Receive approval of final Plan 30 days prior to construction	A Construction Fire Plan was acknowledged by the CAL FIRE Chief and approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011.
F-01a: Implement Fire Plan during construction and maintenance	The preconstruction component of this measure has been completed. A Construction Fire Plan was acknowledged by the CAL FIRE Chief and was approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011. The Construction Fire Plan includes the requirements of this mitigation measure and will be implemented and enforced during construction.
F-01c: Do not obstruct firefighting equipment or crews	This measure will be implemented during construction.
F-01c: Coordinate fire suppression activities and unobstruct access roads at all times	This measure will be implemented during construction.
F-01c: Cease construction in work areas if fire within 1,000 feet	This measure will be implemented during construction.
F-01c: Contact dispatch centers 2 days prior to helicopter use	This measure will be implemented during construction.
F-01d: Clear and spread onsite dead and decaying vegetation prior to construction and maintenance	SDG&E will clear dead and decaying vegetation from work areas prior to initiating grading activities and/or maintenance work. Clearing of dead and decaying vegetation will be monitored during construction and observations will be summarized and submitted to the CPUC in the weekly report.
F-01e: Contribute an annual sum to be distributed as homeowner grants	This measure will be fulfilled prior to energizing the transmission line. SDG&E has established a Collection Agreement with USFS for receiving the funds required by Record of Decision and is working on subordinate agreements for the Defensible Space Fuel Treatment Plan (Special Use Permit Exhibit 21) and the Cameron Type 1 Helicopter Base Plan (Special Use Permit Exhibit 22).
F-03a: Contribute annually to Powerline Firefighting Mitigation Fund	On-going efforts with CAL FIRE and local fire agencies are in progress to establish and provide oversight to the Powerline Firefighting Mitigation Fund. In addition, SDG&E has established a Collection Agreement with the USFS for receiving the funds required by the Record of Decision. The final agreement will be included in the Cameron Type 1 Helicopter Base Plan (Special Use Permit Exhibit 22). This is measure will be fulfilled prior to energizing the transmission line.
F-03b: Create and implement a Multi-agency Fire Prevention MOU	SDG&E has prepared a draft Fire Prevention MOU. Draft comments from CAL FIRE and local fire agencies have been incorporated and on-going efforts are in progress to refine the draft MOU.

# Attachment A: Preconstruction Status Report

Friday, July 29, 2011

5:11:50 PM

## Report Criteria:

AGENCY: USFS

LOCATION: Link 2

TIMING: Design; Design and During; During; During and Post; Pre; Pre and During; Pre and Post; Pre, During, and Post

 -To Be Implemented During Construction

 -Pending OR To Be Implemented Immediately Prior to Construction

 -Complete

 -Not Applicable

Note: This table contains U.S. Fish and Wildlife Service Conservation Measures in addition to the mitigation measures and applicant proposed mitigation measures from the Final EIS/EIR. The conservation measures are denoted in the table as G-CM-# or SS-G-#.

The mitigation measure and APM numbers listed in this table reference the actual measures in the MMCPR. The text after the measure number provides a summary of specific tasks within each measure, but is not intended to provide the entire language contained within the MMCPR. Please note that several measures include multiple entries in this table. These multiple entries break out the various requirements or tasks contained within that measure. Please reference the MMCPR for the actual requirements for each measure or visit [www.cpuc.ca.gov/Environment/info/asp/sunrise](http://www.cpuc.ca.gov/Environment/info/asp/sunrise).

## Mitigation Measure and APM

## Status

B-01a: Locate surface disturbing components in previously disturbed areas	The preconstruction portion of this measure is complete. Sensitive resources were mapped using GIS and project structures and work areas were designed to avoid these resources, to the extent possible. The Mapbook and PMR, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, shows both sensitive resources and the location of areas that may be disturbed. During construction, vegetation and soil impacts will be minimized.
B-01a: Use construction mats to minimize disturbance	This mitigation measure will be fulfilled during construction.
B-01a: Double mitigation ratios on lands already in mitigation	The Project will impact sensitive vegetation communities on lands already in use as mitigation. A Habitat Acquisition Plan, which discusses doubled mitigation ratios on lands already in mitigation, was submitted for review and approval on February 4, 2010. This plan was approved by the Wildlife Agencies as described in the G-CM-17 of the reinitiated Biological Opinion, dated November 10, 2010.
B-01a: Delineate all limits of construction	The limits of construction will be delineated with orange construction fencing or flagging prior to the start of construction.
B-01a: Coordinate gate installation 60 days prior to construction	SDG&E submitted a memo to CPUC for the administrative record on October 26, 2010 to document coordination of access road gate installation prior to construction.  A new cattle gate was requested by Tulloch to address the containment and management of his cattle. The gate will be installed during construction of the access road.  SDG&E met with USFS representatives, Tim Cardoza and Steve Eastwood on September 13, 2010 to discuss gate installation on USFS property.
B-01a: Submit documentation of coordination with the administering agency of the road/trail 30 days prior to construction	SDG&E submitted a memo to CPUC for the administrative record on October 26, 2010 to document coordination of access road gate installation prior to construction.
B-01a: Post signs on access road gates prohibiting unauthorized users	This mitigation measure will be fulfilled during construction.
B-01a: Provide funding for off-road vehicle patrols	SDG&E has coordinated with land managers regarding unauthorized use of access roads by off-road vehicle enthusiasts, including funding of off-road vehicle patrols and gate installation. A memo was submitted to CPUC for the administrative record on October 26, 2010 documenting coordination. In addition, SDG&E has an approved collection agreement with the USFS and is negotiating a subordinate agreement for off-road vehicles.

Mitigation Measure and APM	Status
B-01a: Mitigate for impacts by unauthorized activity (e.g., exceeding approved construction footprints)	This mitigation measure will be fulfilled during construction. The mitigation ratios for unauthorized impacts have been eliminated as described in Conservation Measure G-CM-6 of the reinitiated Biological Opinion, dated November 10, 2010.
B-01a: Submit a Habitat Restoration Plan	SDG&E submitted the Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas to the CPUC, BLM, USFS and Wildlife Agencies for review and approval on September 24, 2010. A revised plan incorporating agency comments was resubmitted on October 25, 2010. This plan was approved by the CPUC on November 3, 2010 and by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010), as noted in Conservation Measure G-CM-16 (page 33 of the BO). The USFS approved the plan on April 7, 2011.
B-01a: Mitigate for impacted habitat	In coordination with the appropriate agencies, off-site purchase and dedication of habitat shall be provided for areas where habitat restoration cannot meet mitigation requirements as outlined in this measure. This will be determined during and post construction during restoration activities. For impacts to habitat on National Forest System lands, mitigation ratios required in the USFS ROD will be adhered to.
B-01a: Mitigate for the loss of native trees and tree trimming	The Wildlife Agencies have agreed that conservation of woodland areas on mitigation lands included in the Habitat Acquisition Plan/Habitat Management Plan is acceptable mitigation for impacts to native trees. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Submit a Habitat Acquisition Plan 120 days prior to construction	The Habitat Acquisition Plan was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service for review and approval on February 4, 2010. The HAP was further refined and resubmitted on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HAP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Submit a Habitat Management Plan	The Habitat Management Plan was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service for review and approval on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HMP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Include legal descriptions of all legal parcels	The HMP, prepared by a qualified biologist, was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service on September 22, 2010 for review and approval. All the components in this mitigation measure have been included in the HMP. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01c: Provide biological monitoring and perform periodic inspections once or twice a week	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01c: Send weekly monitoring reports	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01c: Qualified biologists shall handle all environmental issues and have the authority to issue stop work orders	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01k: Re-seed all public and private natural areas burned due to project-caused fire	This mitigation measure will be fulfilled during and post construction, as needed.
B-01k: Develop re-seeding plan	This mitigation measure will be fulfilled during and post construction, as needed.
B-01l: Minimize impacts to the RCA between Structures 184 and 187 of the BCD South Option.	SDG&E has coordinated with the USFS to minimize impacts to RCAs. The Project Modification Report (PMR) and Mapbook illustrate modifications that were made to the alignment to reduce overall impacts to RCAs. The Mapbook and PMR were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.

Mitigation Measure and APM	Status
B-02a: Avoid impacts to jurisdictional areas	Impacts to jurisdictional features were considered during the design of the project and have been avoided, to the extent feasible. The location of each jurisdictional drainage and potential impact was described in the Preliminary Jurisdictional Determination report that was accepted by the Army Corps of Engineers on August 27, 2010.
B-02a: Mitigate impacted areas as required by wetland permitting	SDG&E received Nationwide Permit #12 under Section 404 of the Clean Water Act on January 7, 2011 for impacts to waters of the U.S., including wetlands. Attachment 2 of the permit provides a summary of the impacts to wetlands and the required mitigation. Enclosures 4 and 5 of the permit provide detailed lists of the wetlands and their locations.
B-02a: Prepare jurisdictional delineation and impact assessment	The entire project area was surveyed and impacts to resources under the jurisdiction of the ACOE, Regional Water Boards, State Water Board, and CDFG were determined. A revised Preliminary Jurisdictional Determination was submitted on February 24, 2010 and accepted as part of the 404 permit application on August 27, 2010. Final Grading Plans and Plan and Profile Drawings were submitted to the CPUC on September 2, 2010 for the administrative record. The USFS approved the construction plans and drawings on March 11, 2011.
B-02a: Mitigate for jurisdictional wetland habitat	SDG&E received Nationwide Permit #12 under Section 404 of the Clean Water Act on January 7, 2011 for impacts to waters of the U.S., including wetlands. Mitigation requirements and ratios are stipulated on pages 2 through 8 of the permit.
B-02a: Obtain wetland permits prior to construction	The 401 Water Quality Certification was issued on November 15, 2010. The California Department of Fish and Game issued a Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was issued on January 7, 2011.
B-02a: Delineate all limits of construction	The Project Modification Report and Mapbook, which was submitted to the CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and the USFS in the ROD on July 9, 2010, illustrates the limits of construction. Limits of construction will be delineated immediately prior to construction with orange construction fencing, flagging, or silt fencing.
B-02a: Install gates and signs at entrances of access roads	This mitigation measure will be fulfilled during construction.
B-02a: Mitigate impacts from unauthorized activity	This mitigation measure will be fulfilled during construction.
B-02a: Submit and implement Wetland Mitigation Plan	SDG&E submitted a HMMP on July 14, 2010 as outlined in this mitigation measure. This plan was revised and provided to the agencies on October 7, 2010. The HMMP was accepted by the Army Corps of Engineers, California Department of Fish and Game, and State Water Resources Control Board in concept; however, the agencies requested that the plan be reformatted to break out each mitigation property. The revised plans (one for each of the five mitigation sites) were submitted to the agencies on November 30, 2010 and accepted on December 16, 2010. The USFS reviewed and acknowledged the HMMP on February 7, 2011 (Exhibit 13 of the SUP). This plan was prepared by a qualified habitat restoration specialist and will be implemented by a qualified habitat restoration specialist. The preconstruction component of this measure is complete.
B-02a: Submit a Habitat Management Plan that includes jurisdictional areas	The Habitat Management Plan (HMP) was submitted to the CPUC, BLM, Wildlife Agencies, and the USDA Forest Service for review and approval on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HMP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 4, 2011. The HMMP, which was updated on May 9, 2011, was approved by the Corps on June 27, 2011 and by the SWRCB on June 13, 2011.
B-03a: Submit and implement a Weed Control Plan	The Weed Control Plan was approved by the BLM and CPUC on September 8, 2010. Additional comments from the USFWS, City of San Diego, and USFS were incorporated into the plan, which was resubmitted to all agencies on November 10, 2010. The Weed Control Plan was approved by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010). The USFS approved the Weed Control Plan on January 7, 2011.
B-03a: Conduct pre-construction weed inventory	The Weed Control Plan was approved by the BLM and CPUC on September 8, 2010. Additional comments from the USFWS, City of San Diego, and USFS were incorporated into the plan, which was resubmitted to all agencies on November 10, 2010. The Weed Control Plan was approved by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010). The USFS approved the Weed Control Plan on January 7, 2011.

Mitigation Measure and APM	Status
B-03a: Implement weed control treatments	The Weed Control Plan will be implemented immediately prior to, during and following construction as appropriate for the weed species being treated.
B-03a: Annually survey for new invasive weeds for 2 years	The Weed Control Plan addresses surveying for invasive exotic species during construction and annually following construction to monitor previously-identified and treated populations and to identify new invasive weed populations for the life of the Project. Treatment of weeds will occur on a minimum annual basis unless otherwise approved by the PCA, San Diego County Agricultural Commissioner, and Cal-IPC. This mitigation measure will be fulfilled during/post construction.
B-03a: Ensure all seeds and other material are certified weed free	This mitigation measure will be fulfilled during/post construction.
B-03a: Wash vehicles and equipment	This mitigation measure will be fulfilled during/post construction.
B-03a: Submit monthly wash logs during construction and annual logs during operation/maintenance	This mitigation measure will be fulfilled during/post construction.
B-05a: Conduct surveys in the spring and submit a special status plant report	Rare plant surveys were completed by qualified biologists in 2009 and 2010. The 2010 Rare Plant Survey Report, which included all project areas as described in the Project Modification Report, was approved by the USFWS on December 22, 2010 and the CPUC on January 19, 2011.
B-05a: Stake or flag special status plant populations	Special status plant populations will be staked or flagged immediately prior to construction by a qualified biologist.
B-05a: Avoid impacts to federal and state listed plant species	The Project Modification Report and Mapbook, which was submitted on May 14, 2010 and approved by the BLM and the CPUC on September 22, 2010 through a Determination Memorandum and the USFS in the ROD dated July 9, 2010, shows both sensitive resources and the locations of sensitive resource areas that may be disturbed. As noted in the revised Biological Opinion, dated November 10, 2010, SDG&E will not impact any listed plant species during construction activities for this project (see pages 3-4 of the Biological Opinion).
B-05a: Submit a Restoration Plan for federal and state listed plants	No federal or state listed plants will be impacted by construction activities on the project, but moderately sensitive plant species will be affected; therefore, SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Avoid impacts to moderately sensitive plant species	Moderately sensitive plant species will be affected; therefore, SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Submit a Restoration Plan for special status plant species	No federal or state listed plant will be impacted by construction activities on the project; however moderately sensitive plant species will be affected. SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Submit a Habitat Management Plan that addresses offsite mitigation for rare plants	A Habitat Management Plan was submitted to the appropriate agencies for review and approval on September 22, 2010 as outlined in this measure. The Habitat Acquisition Plan and Habitat Management Plan were approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17). The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07a: Cover excavations or install fencing when not in use	Steep-walled trenches or excavations will be covered, fencing will be installed or sloped on one end (i.e., ramped) to prevent the entrapment of wildlife during construction. This mitigation measure will be fulfilled during construction.
B-07a: Inspect excavations 3 times per day and before backfilling	A qualified biological monitor will inspect any open trenches as required. This mitigation measure will be fulfilled during construction.
B-07a: Look under vehicles and equipment before moving for presence of wildlife	Workers will be instructed to look under vehicles for wildlife before movement and to report mortality or injury of a listed species within 48 hours. No vehicles or equipment will be moved until the animal has left or is removed by a qualified biologist. This mitigation measure will be fulfilled during construction.
B-07a: Contact within 48 hours of finding a dead or injured listed species	A qualified biological monitor will submit monitoring reports as required by this measure. This mitigation measure will be fulfilled during construction.



Mitigation Measure and APM	Status
B-07c: Limit activities in PBS critical habitat to October 1 - December 31, unless otherwise approved by the Wildlife Agencies, or maintain 1,500-foot ceiling for flights	After reinitiation of consultation with the USFWS, this mitigation measure has been revised to permit construction during a larger work window in Peninsular bighorn sheep habitat. See Biological Opinion, Sunrise Powerlink Project (2010), Species Specific Conservation Measure 16. BLM has found that the request for an extended work window is consistent with the Final EIR/EIS. Determination of NEPA Adequacy (DNA), Sunrise Powerlink Project: Project Modifications (Sept. 2010). This mitigation measure, as revised, will be fulfilled during construction. SDG&E will have a USFWS-approved bighorn sheep monitor conduct surveys prior to any land survey activities and monitor the land surveyors to minimize impacts to bighorn sheep.
B-07e: Conduct grading or brushing outside of least Bell's vireo and southwestern willow flycatcher breeding season September 16-March 14	Grading and brushing in least Bell's vireo and southwestern willow flycatcher habitat will occur as outlined in this mitigation measure.
B-07e: Survey for least Bells' vireo and southwestern willow flycatcher within 10 days prior to initiating work in area	The 2009 Riparian Bird Survey Report, which was submitted to the CPUC for review on January 10, 2010, indicated a breeding pair of least Bell's vireo was observed along an existing access road near milepost 68. As shown on page MS-80 of the PMR Mapbook, no upgrades are proposed for this portion of the access road. Another least Bell's vireo sighting was recorded during the 2010 surveys near milepost 77 (page MS-89). The 2010 Riparian Bird Survey Report was submitted to the agencies on October 28, 2010 and approved by the CPUC on November 2, 2010 and the Wildlife Agencies on November 10, 2010. Four southwestern willow flycatchers were observed on Link 2, but were determined to constitute migratory observations. As described in the revised Biological Opinion dated November 10, 2010, southwestern willow flycatcher are not likely to be adversely affected by the project (see page 4 of the Reinitiated Biological Opinion). Preconstruction surveys will be conducted as required by this mitigation measure.
B-07e: Survey once per week if least Bell's vireo and/or southwestern willow flycatcher are present	This mitigation measure will be fulfilled during construction.
B-07e: Establish 300-foot buffer if active nest found	This mitigation measure will be fulfilled during construction.
B-07e: Monitor noise if construction occurs within buffer	This mitigation measure will be fulfilled during construction.
B-07e: Provide mitigation for temporary and permanent impacts	A Habitat Acquisition Plan was submitted to the CPUC for review and approval on February 4, 2010. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The Habitat Acquisition Plan discusses mitigation for impacts to least Bell's vireo occupied habitat, although no permanent impacts are expected to occur to occupied or critical habitat on Link 2. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07e: Submit a Habitat Management Plan that addresses impacts to least Bell's vireo and southwestern willow flycatcher	The Riparian Birds Survey Report 2009 was submitted to CPUC for review on January 14, 2010. The 2010 Riparian Bird Survey Report was submitted to CPUC on October 28, 2010. A Habitat Management Plan was submitted to the CPUC on September 22, 2010. The plan was approved by the Wildlife Agencies as described in G-CM-17 of the reinitiated Biological Opinion, dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07h: No activities within 4,000 ft. of eagle nest during breeding season	This measure will be implemented during and post construction. SDG&E received a letter from the USFWS on December 8, 2010 stating that Sunrise's Avian Plan "is appropriate in its adaptive approach to avoid and minimize the potential take of migratory birds, hawks and eagles." As a result, no BGEPA permit is needed at this time.
B-07i: Determine suitable habitat areas of QCB	Per USFWS QCB protocol, site assessments for suitable QCB habitat were conducted in 2009 and 2010 by USFWS permitted biologists. The site assessments identified areas requiring protocol surveys. QCB protocol surveys were completed by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found near mileposts 71, 74.5, and between 79 and 80 on Link 2. These surveys results were accepted by the Wildlife Agencies (as described in the revised Biological Opinion dated November 10, 2010) and by the CPUC on January 21, 2011.

Mitigation Measure and APM	Status
B-07i: Conduct pre-construction protocol survey for QCB	Per USFWS QCB protocol, QCB surveys were performed in 2009 by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found by mileposts 116.5, 110, 79 to 80, 74.5, 71, and 36. These surveys results were accepted by the Wildlife Agencies (as described in the revised Biological Opinion dated November 10, 2010) and by the CPUC on January 21, 2011.
B-07i: Mitigation required if survey non-conclusive for determining QCB presence	Per USFWS QCB protocol, site assessments for suitable QCB habitat were conducted in 2009 and 2010 by USFWS permitted biologists. The site assessments identified areas requiring protocol surveys. QCB protocol surveys were completed by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found near mileposts 71, 74.5 and between 79 and 80 on Link 2. All QCB surveys have been conclusive for the project.
B-07i: Submit a Habitat Management Plan that addresses offsite mitigation for QCB habitat	Survey results indicate QCB were found near mileposts 71, 74.5 and between 79 and 80 on Link 2. A Habitat Management Plan has been submitted to the agencies for approval on September 22, 2010. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07j: Conduct pre-construction protocol survey for arroyo toad	USFWS protocol-level arroyo toad (ARTO) surveys were conducted in 2009 and 2010. The 2009 ARTO Survey Report was submitted to the CPUC on October 2, 2009 and re-submitted to CPUC on January 14, 2010.  The 2009 and 2010 surveys have concluded that no ARTO have been observed and no critical or proposed habitat exists in Link 1. This has been confirmed by the Wildlife Agencies as noted in Table 7 of the revised Biological Opinion dated November 10, 2010 (see page 51).
B-07j: Remove toad riparian breeding habitat October-December	This mitigation measure will be fulfilled during construction.
B-07j: Install exclusion fencing if toad is present and monitor daily during construction	If arroyo toads are present, or assumed to be present, exclusion fencing will be installed as outlined in this measure. Exclusion fencing will be monitored during construction and observations will be summarized and submitted to the CPUC in the weekly report.
B-07j: Conduct pre- and post-exclusion fencing surveys	Clearance surveys shall occur as outlined in this measure.
B-07j: Conduct daily surveys in the morning prior to work activities	This measure will be implemented during and post construction.
B-07j: Mitigate for the loss of occupied arroyo toad habitat	Loss of arroyo toad-occupied habitat shall be mitigated as outlined in this measure.
B-07j: Submit a Habitat Management Plan that includes arroyo toad habitat	A Habitat Management Plan was submitted to the appropriate agencies for review and approval on September 22, 2010. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion (G-CM-17). The CNF HAPHMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07l: Conduct brushing or grading in occupied gnatcatcher habitat outside breeding season February 15-August 30	Occupied coastal California gnatcatcher habitat does not occur on this portion of the project; therefore, this mitigation measure is not applicable.
B-07l: Conduct gnatcatcher survey within 10 days of initiating other activities in area and submit to agencies	Coastal California gnatcatcher does not occur on this portion of the project; therefore, this mitigation measure is not applicable.
B-07l: Establish 300-foot buffer if active nest found	Coastal California gnatcatcher does not occur on this portion of the project; therefore, this mitigation measure is not applicable.
B-07l: Mitigate the loss of occupied habitat and unoccupied designated critical habitat	Coastal California gnatcatcher will not be impacted by construction activities on this portion of the project; therefore, this mitigation measure is not applicable.
B-07l: Submit a Habitat Management Plan that addresses the coastal California gnatcatcher and its habitat	Coastal California gnatcatcher habitat does not occur on this portion of the project; therefore, this mitigation measure is not applicable.

Mitigation Measure and APM	Status
B-08a: Clear vegetation August 16-January 14 and remove/trim trees September 16-December 31	This mitigation measure will be fulfilled during construction.
B-08a: Conduct pre-construction avian breeding surveys within 10 days of initiating work January 15-August 15 and submit surveys	Within 7 calendar days prior to construction, a qualified biologist will conduct avian breeding surveys for construction activities occurring within the general avian breeding season. Results of the surveys will be submitted to the Wildlife Agencies for review and approval.
B-08a: Conduct pre-construction raptor breeding surveys within 10 days of initiating work January 1-September 15 and submit surveys	Pre-construction surveys for active raptor nests will be conducted by a qualified biologist within 7 days of construction if activities will occur during the raptor breeding season. Results of the surveys will be submitted to the Wildlife Agencies for review and approval.
B-08a: Proceed with construction if no active nests observed	This mitigation measure will be fulfilled during construction.
B-08a: Proceed with construction if active nests found per conditions	If active nests are identified, a buffer as defined in this measure will be established and monitored on a weekly basis to allow construction to proceed. This measure will be implemented during construction.
B-08a: Monitor active nests weekly until fledged	This mitigation measure will be fulfilled during construction.
B-08a: Report survey results and monitoring	Results of surveys will be submitted as required and a qualified biologist will continue to monitor the site as appropriate. Weekly monitoring reports will be submitted to the agencies.
B-09a: Conduct habitat assessment for bat nursery colonies prior to construction	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010.
B-09a: Conduct survey for bat nursery colonies prior to construction	A CDFG-approved biologist conducted a survey for bat nursery colonies. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010.
B-09a: No direct impacts to bat nursery colonies allowed	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010. If bat nursery colonies are observed during construction, this mitigation measure will be implemented.
B-09a: Implement methods to minimize indirect impacts to bat nursery colonies	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. A 2009 Bat Survey Report Amendment-Report and 2009 Bat Survey Amendment - Appendix 1 were submitted on October 1, 2010. The amended report was approved by CPUC on October 11, 2010. If bat nursery colonies are observed during construction, this mitigation measure will be implemented.
B-10a: Install transmission lines using Avian Power Line Interaction Committee standards	SDG&E will install transmission lines as outlined in this mitigation measure. Where diverters/markers have been installed, a study will be funded as outlined in this measure. The Avian Monitoring and Mitigation Plan, which was developed pursuant to the requirements described in this measure, was approved by the USFWS on December 8, 2010 and the USFS on June 30, 2011.
BIO-APM-01: Submit protocol surveys for sensitive plant and wildlife	On-the-ground protocol surveys have been conducted for sensitive plant and animal species, as appropriate, along the entire alignment. Per G-CM-32 of the Revised Biological Opinion dated November 10, 2010, surveys for federally listed species have been deemed complete by the Wildlife Agencies. The following survey reports for the 2010 survey season have been approved: 2010 Riparian Bird Survey Report; 2010 Arroyo Toad Survey; 2010 Rare Plant Survey; 2010 Quino Checkerspot Butterfly Report; and 2010 Coastal California Gnatcatcher Survey Report. The 2010 Bat Survey Report is currently pending and will be submitted when complete.
BIO-APM-02: Environmental training prior to construction	Project personnel shall receive training as outlined in this measure.

Mitigation Measure and APM	Status
BIO-APM-03: Restrict vehicle movement to existing access roads	Vehicle traffic will be restricted to existing paved and unpaved access roads when feasible. All approved work areas, including access roads, will be delineated immediately prior to construction.
BIO-APM-03: Avoid constructing roads during nesting season and submit surveys if new roads needed during nesting season	SDG&E will perform surveys and submit survey results to the USFWS and CDFG should access road construction occur during nesting season or if it is not feasible to keep vehicles on existing access roads.
BIO-APM-03: No parking or driving under oak trees	This mitigation measure will be monitored during construction to ensure parking or driving underneath oak trees does not occur.
BIO-APM-03: Observe a 15 mph speed limit on dirt access roads	This mitigation measure will be fulfilled during construction.
BIO-APM-04: Restrict project activity to disturbance areas	Final Grading Plans and Plan and Profiles were submitted to the CPUC on September 2, 2010. The USFS approved these plans and drawings on March 11, 2011. Project and survey activities will be confined to areas noted in final engineering drawings.
BIO-APM-04: Keep survey vehicles on existing roads	Survey vehicles shall remain on existing roads.
BIO-APM-04: Obtain prior approval for surveying activities in sensitive habitat	A biological monitor shall monitor project surveying activities for conformance with APMs.
BIO-APM-04: Hiking off roads or paths during survey data collection is permitted	SDG&E survey personnel will implement all appropriate APMs.
BIO-APM-04: Do not apply discoloring agents on rocks or vegetation	No paint or permanent discoloring agents shall be applied as outlined in this measure.
BIO-APM-05: Construct roads at right angles to streambeds and washes	To the extent possible, access roads shall be constructed as outlined in this mitigation measure.
BIO-APM-05: Obtain permits for streambed crossings and roads constructed parallel to streambeds	The SWRCB issued the 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was issued on January 7, 2011.
BIO-APM-05: Minimize disturbance from construction and maintenance activities	This mitigation measure will be fulfilled during construction.
BIO-APM-06: Comply with all applicable environmental laws and regulations	This mitigation measure will be fulfilled during construction.
BIO-APM-07: Littering is not allowed	Littering will be prohibited on this project. This mitigation measure will be monitored during construction.
BIO-APM-08: Delineate and avoid sensitive plant populations	Prior to construction, the boundaries of any sensitive plant populations will be delineated with flagging and avoided to the extent practicable.
BIO-APM-10: Do not harm wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that no wildlife, including rattlesnakes, may be harmed except to protect life and limb. This SWEAP will be shown to all project personnel prior to construction and enforced throughout all phases of the Project. If rattlesnakes are encountered, they will be safely removed by a biologist or staff trained in safe snake handling procedures.
BIO-APM-10: Firearms are prohibited	The SWEAP video was approved by the CPUC on March 15, 2010. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project, and addresses that firearms are prohibited in all project areas, except for security personnel.
BIO-APM-11: Do not feed wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that feeding wildlife is prohibited. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
BIO-APM-12: No pets permitted	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that pets are prohibited at the Project site. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.



Mitigation Measure and APM	Status
BIO-APM-13: Do not collect plants or wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that prohibit collecting plants or wildlife species for any reason. This SWEAP will be shown to all project personnel prior to construction of the Project and enforced throughout all phases of the Project.
BIO-APM-14: Removal of wildlife by qualified biological monitor or wildlife agency	Wildlife found to be trapped will be removed by a qualified biological monitor. If the biological resource monitor is not qualified to remove the entrapped wildlife, a recognized wildlife rescue agency (such as Project Wildlife) will be contacted to remove the wildlife and transport it safely to other suitable habitats.
BIO-APM-15: Submit report of unavoidable environmental damage	This mitigation measure will be fulfilled during construction, as needed.
BIO-APM-16: Schedule tree trimming during non-sensitive times	This mitigation measure will be fulfilled during and post construction. Information regarding sensitive tree trimming locations will be entered into SDG&E's mitigation measure tracking system and Semptra's system-wide mapping database.
BIO-APM-16: Vary tree removal widths to maintain edge diversity	This mitigation measure will be fulfilled during construction.
BIO-APM-17: Mow vegetation to use as access road	This mitigation measure will be fulfilled during and post construction.
BIO-APM-18: Design structures and access roads to minimize impacts to sensitive features	A memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure BIO-APM-18, on September 1, 2010. The final Project Modification Report (PMR) and Map Book, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment with an overall reduction of impacts to sensitive features. They also show the redesign and relocation of the alignment to previously disturbed areas when feasible.
BIO-APM-18: Submit site surveys when constructing poles or roads in high value habitats cannot be avoided	Surveys have been performed to determine the presence or absence of endangered species in sensitive habitats along the project route. These surveys were determined to be complete by the Wildlife Agencies as described in G-CM-32 of the revised Biological Opinion. If new areas of disturbance are identified, site specific surveys will be conducted to determine the presence or absence of endangered species; this measure will be implemented during construction.
BIO-APM-18: Construct crossings at right angles to streambeds if access roads cannot avoid sensitive water features	During construction, access roads will be constructed as outlined in this measure. In addition, SDG&E has secured required permits for access road construction that will impact sensitive water features. More specifically, the 401 Water Quality Certification was issued on November 15, 2010, the California Department of Fish and Game Streambed Alteration Agreement (SAA) was issued on November 17, 2010, and the ACOE 404 permit was issued on January 7, 2011.
BIO-APM-19: Implement and comply with BLM mitigation measures	This mitigation measure will be fulfilled during and post construction.
BIO-APM-19: Use Section 7 process to obtain incidental take authorization	SDG&E has obtained an incidental take authorization through the Section 7 process (Refer to Biological Opinion FWS2008BO423-2009F0097). The BO was reinitiated and finalized on November 10, 2010.
BIO-APM-20: Leave vegetation in place where re-contouring is not required	This mitigation measure will be fulfilled during construction.
BIO-APM-21: Conform to "Suggested Practices for Raptor Protection on Power Lines"	A memo was submitted to the CPUC for the administrative record on September 15, 2010 describing that the conductor spacing meets recommended suggested practices where feasible and the CPUC confirmed compliance with this measure on September 16, 2010.  SDG&E has designed structures in conformance with "Suggested Practices for Raptor Protection on Power Lines."
BIO-APM-22: Salvaging may include removal and stockpiling for replanting	This mitigation measure will be fulfilled during construction.
BIO-APM-23: Remove only minimum amount of vegetation necessary for construction	This mitigation measure will be fulfilled during construction.
BIO-APM-23: Conserve topsoil in areas of sensitive habitat	This mitigation measure will be fulfilled during construction.



Mitigation Measure and APM	Status
BIO-APM-24: Secure appropriate covers over excavations	The SWEAP video was approved by the CPUC on March 15, 2010. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project, and includes instructions on covering construction holes overnight to prevent harm to wildlife.
BIO-APM-25: Revegetate disturbed soils	This mitigation measure will be fulfilled during construction.
BIO-APM-26: Slope excavations on one end	This mitigation measure will be fulfilled during construction.
BIO-APM-27: Remove all raptor nests outside breeding season and prior to construction	SDG&E will remove unoccupied non-threatened/endangered or non-eagle raptor species' nests that would be affected by construction activities outside of the raptor breeding season. Per the USFWS, the golden eagle breeding season is December through June.
BIO-APM-27: Monitor active nests during breeding season	Monitoring of an existing raptor nest during the breeding season shall occur as outlined in this mitigation measure, by an approved biologist.
BIO-APM-28: Survey potential bat roost trees to be removed and follow procedures for felling trees	A CDFG-approved biologist has conducted surveys for bat maternity roost trees. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010 and the 2009 Bat Survey Report Amendment was submitted on October 1, 2010. The amended report was approved by CPUC on October 11, 2010. The 2010 Bat Survey Report was submitted to the agencies on July 1, 2011 and is currently under review. No maternity roosts were observed on the project; therefore, this measure is not applicable.
BIO-APM-29: Minimize impacts of exterior lighting adjacent to preserved habitat	On USFS lands, construction of Link 2 will occur during daytime hours, as directed by local county ordinances. Should night lighting be deemed necessary during construction, SDG&E will comply with this mitigation measure.  Construction yards, including the Thing Valley Construction Yard on USFS land, will require lighting at night for security. Construction yard lighting will be designed and installed per the approved Construction Yard Lighting Plan. This plan is included in the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment E.
BIO-APM-29: Minimize vehicle speed and volume	This mitigation measure will be fulfilled during construction.
G-CM-01: Provide biological monitoring and perform periodic inspections once or twice a week	See B-1c
G-CM-02: Use SDG&Es Water Quality Construction BMP Manual.	See WQ-APM-4. This mitigation measure will be implemented during construction.
G-CM-03: Obtain NPDES permit and implement a SWPPP.	See WQ-APM-14
G-CM-04: Training to implement conservation measures.	See BIO-APM-2
G-CM-05: Limit vehicle speeds on access roads to minimize fugitive dust.	See BIO-APM-3 and AQ-1a
G-CM-06: Keep all activities within designated temporary and permanent disturbance areas.	Final Grading Plans and Plan and Profiles has been submitted to the CPUC on September 2, 2010. The USFS approved these plans and drawings on March 11, 2011. Project activities will be confined to areas noted in final engineering drawings. Also see BIO-APM-4.
G-CM-06: Keep survey vehicles on existing roads.	See BIO-APM-4
G-CM-06: No paint or discoloring agents will be applied to rocks or vegetation.	See BIO-APM-4
G-CM-06: Impacts associated unauthorized activity will be mitigated at a 5:1 ratio	This measure will be implemented during construction if unauthorized impacts occur. Also see BIO-APM-4.

Mitigation Measure and APM	Status
G-CM-07: Brush clearing will require prior approval from the biological monitor in conformance with the CMs.	No brush clearing will occur on the project without prior approval from the project biological monitor. This measure will be implemented during construction.
G-CM-08: Wire stringing	This measure will be implemented during construction.
G-CM-09: Disposal of wastes.	See BIO-APM-7
G-CM-10: Emergency repairs will follow the CM's to the extent feasible.	See BIO-APM-15
G-CM-10: Submit written report to agencies having jurisdiction.	See BIO-APM-15
G-CM-10: If required, develop mitigation plan consistent with CMs.	See BIO-APM-15
G-CM-11: Structures and access roads should be designed to minimize impacts to sensitive features.	A memo was submitted to the CPUC documenting compliance with Mitigation Measure BIO-APM-18, on September 1, 2010 for their administrative record. The Project Modification Report (PMR) and Mapbook, which was approved by the CPUC and BLM in a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010 illustrates changes to the final design of the alignment to reduce impacts to sensitive features. The USFWS confirmed that this conservation measure has been met through the final project designs (see page 32 of the reinitiated Biological Opinion).
G-CM-12: Leave vegetation in place where re-contouring is not required. Restore disturbed soils based on HRP per G-CM-16.	This mitigation measure will be fulfilled during construction.
G-CM-13: Use lowest illumination allowed for human safety.	See BIO-APM-29
G-CM-13: Vehicle speed limits may not exceed 15 mph to prevent mortality of nocturnal wildlife species.	See BIO-APM-29
G-CM-14: Locate surface-disturbing activities in previously disturbed areas, to the extent practical.	The pre-construction portion of this measure is complete. The project structures and work areas were designed to avoid sensitive vegetation, to the extent possible. During construction, vegetation and soil impacts will be minimized. See B-1a for additional information.
G-CM-15: Use of construction mats.	See B-1a
G-CM-15: Incorporate impact of using mats into HRP (G-CM-16).	See B-1a
G-CM-16: Habitat Restoration Plan approval.	See B-1a. The Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas has been approved as stated in the revised Biological Opinion dated November 10, 2010.
G-CM-16: Impacts, compensation, and a qualified habitat restoration specialist.	See B-1a
G-CM-16: Temporary impacts to desert scrub and dune habitats.	This mitigation measure does not apply to Link 2. No desert scrub or dune habitats exist along Link 2.
G-CM-17: Provide assurances to fund the acquisitions	SDG&E has acquired or funded for purchase the nine properties listed in this mitigation measure.
G-CM-17: Off-site compensation and property acquisition.	The HAP/HMP was prepared by an approved biologist and was submitted for review and approval on September 22, 2010 as outlined in this mitigation measure. The HMP/HAP was approved by the Wildlife Agencies as stated in G-CM-17 of the Reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011. The remaining requirements of this mitigation measure will be implemented during construction and within the timeframes described in this measure.
G-CM-18: Re-seeding of disturbed areas after a transmission line-caused fire.	See B-1k

Mitigation Measure and APM	Status
G-CM-20: Develop a Weed Control Plan for pre-construction and long-term invasive weed abatement.	See B-3a
G-CM-21: Implementation of erosion control measures.	See GEO-APM-5
G-CM-22: Restoration where ground disturbance is substantial or where recontouring is required.	See GEO-APM-6
G-CM-23: Use appropriately sized equipment.	This mitigation measure will be implemented during construction.
G-CM-24: Implement Dust Control Plan.	A Dust Control Plan was approved by the CPUC on January 20, 2010 and the Wildlife Agencies on November 10, 2010. Dust Control Plan measures will be implemented during project construction. (See AQ-1a)
G-CM-24: Implement additional dust control measures	See AQ-1a
G-CM-25: Restrict vehicle movement to access roads.	See BIO-APM-3
G-CM-26: Delineate construction limits.	See B-1a and BIO-APM-4
G-CM-27: Build access roads at right-angles to stream crossings.	See BIO-APM-18
G-CM-28: Coordinate with land officer 60 days prior to initiating construction to determine the use of gates and signs at access roads.	The preconstruction component of this measure is complete (see B-1a). Signs will be posted on access roads prohibiting unauthorized users during construction.
G-CM-29: Provide funding for protection from off-road vehicle enthusiasts	See B-1a
G-CM-31: Mowing of access roads to maintain access for maintenance.	See BIO-APM-17
G-CM-32: Surveys for USFWS listed species.	See B-5a and BIO-APM-1
G-CM-33: Delineate plant population boundaries.	See BIO-APM-8
G-CM-34: Native Tree Restoration	The Habitat Acquisition Plan discusses mitigation for loss of native trees. A Habitat Acquisition Plan was submitted to the CPUC for review and approval on February 4, 2010. Tree mitigation will occur as described in the Habitat Acquisition/Habitat Management Plan which was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17). The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
G-CM-35: Rare plants shall be salvaged where avoidance is not feasible.	This measure will be implemented during construction.
G-CM-36: Do not harm wildlife, including rattlesnakes.	See BIO-APM-10
G-CM-37: Do not feed wildlife.	See BIO-APM-11
G-CM-38: Do not bring pets to project areas.	See BIO-APM-12
G-CM-39: Cover steep-walled trenches to avoid entrapping wildlife.	See B-7a
G-CM-40: Look under vehicles and around equipment for wildlife prior to use.	See B-7a

Mitigation Measure and APM	Status
G-CM-41: Do not dispose of excess fill, brush, or debris within waters of the U.S.	This measure will be implemented during construction.
G-CM-41: Do not dispose of fuel, oil, coolant, and other wastes within or near waters of the U.S. Do not fuel vehicles near waters of the U.S.	This measure will be implemented during construction. The Project site specific SWPPPs designate where fueling is permitted to occur. Unless otherwise indicated in the SWPPP's, all other areas are considered "No-Fueling Zones".
G-CM-42: Maintain riparian buffer construction/staging areas and riparian areas.	This mitigation measure will be implemented during construction.
G-CM-44: Determine project limits for temporary and permanent disturbance to occur during maintenance activities.	Final Grading Plans and Plan and Profiles were submitted to the CPUC on September 2, 2010. The USFS approved the plans and drawings on March 11, 2011. Project and survey activities will be confined to areas noted in final engineering drawings. The preconstruction component of this measure is complete. Adherence to the right-of-way limits and approved work areas will occur during construction.
G-CM-45: Purchase/dedicate suitable habitat for preservation.	See G-CM-17
SS-CM-01: Conduct ground- or vegetation disturbance outside of the gnatcatcher breeding season	Suitable habitat for coastal California gnatcatcher does not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-03: Survey for gnatcatchers within 10 days prior to initiating activities	Suitable habitat for coastal California gnatcatcher does not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-04: Purchase and manage occupied gnatcatcher habitat	Suitable habitat for coastal California gnatcatcher does not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-05: Conduct construction and O&M activities outside the vireo breeding season or implement pre-activity surveys	This mitigation measure will be implemented immediately prior to construction during the vireo breeding season.
SS-CM-05: Survey for nesting vireos	This mitigation measure will be implemented immediately prior to construction if vireos are present.
SS-CM-06: Purchase and manage suitable vireo habitat	SDG&E has established assurance bonds with the USFWS and CDFG for impacts to vireo habitat, as outlined in the HAP/HMP.
SS-CM-07: Monitor construction in critical and occupied Quino habitat	This measure will be implemented during construction.
SS-CM-08: Develop site-specific restoration for temporarily impacted Quino habitat	Site-specific restoration will be developed during construction and will be based on actual temporary impacts to Quino habitat.
SS-CM-10: Purchase and manage occupied Quino habitat	This mitigation measure will be fulfilled during construction.
SS-CM-11: Implement the Arroyo Toad Translocation and Monitoring Program	This plan will be implemented during construction.
SS-CM-12: Daylight use of access roads to avoid/minimize impacts to arroyo toads.	This mitigation measure will be implemented during construction.
SS-CM-13: No construction activities within arroyo toad breeding habitat.	This measure will be implemented during construction.
SS-CM-14: Remove all temporary exclusion and construction fencing at conclusion of construction.	All temporary exclusion fencing installed during construction will be removed, during or following construction, once protection measures are no longer required.
SS-CM-15: Purchase and manage occupied arroyo toad breeding habitat	SDG&E has established assurance bonds with the USFWS and CDFG for impacts to arroyo toad habitat, as outlined in the HAP/HMP.
SS-CM-16: Prohibit construction and O&M activities during lambing season	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.

Mitigation Measure and APM	Status
SS-CM-17: Restore suitable bighorn sheep habitat	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-18: Retain a Project Biologist to oversee and implement the PBS Monitoring Plan	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-19: Purchase habitat to partially offset impacts to PBS population	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-19: Provide funding for protection of PBS and I-8 crossing	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-19: Fund removal of invasive species and install PBS water sources	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-19: Fund Monitoring Program for PBS	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-19: Fund aerial surveys for PBS	Peninsular bighorn sheep do not occur on Link 2; therefore, this mitigation measure is not applicable.
SS-CM-20: Implement avoidance, mitigation and compensation measures	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Designate a field contact representative	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
SS-CM-20: Clearly define the limits of work limits	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Minimize disturbance to soil and vegetation in FTHL habitat	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Use existing roads whenever possible	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
SS-CM-20: Block newly created access routes as required by the lead agency	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
SS-CM-20: Monitor construction activities in FTHL habitat	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Fence areas of permanent or long-term projects in FTHL management areas	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Develop habitat restoration plan.	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
V-01a: Screen construction sites if visible from public areas	The pre-construction component of this measure has been completed. The location of staging, material and equipment storage areas and helicopter fly yards are shown in the Project Modification Report, which was submitted to the CPUC on May 14, 2010 and approved by the CPUC and BLM on September 22, 2010. The USFS approved the PMR in the Record of Decision dated July 9, 2010. The Construction Yard Visual Screening Plan also shows the location of these yards and illustrates how these areas will be visually screened with temporary fencing. The Construction Yard Visual Screening Plan was submitted to the CPUC, City of San Diego, BLM and USFS on August 4, 2010 and to Helix Water District on August 19, 2010. The Construction Yard Visual Screening Plan was approved by the CPUC on October 19, 2010. This plan is included with the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment F.
V-01a: Submit final construction plans 60 days prior to construction	Final construction grading plans and Plan and Profile drawings were submitted to the CPUC, BLM, USFS, County of San Diego and Helix Water District on September 2, 2010. Construction plans and drawings were resubmitted to the USFS on January 13, 2011 and January 28, 2011. The USFS approved the construction plans and drawings on March 11, 2011.



Mitigation Measure and APM	Status
V-01b: Design and install lighting to avoid night lighting impacts	SDG&E submitted a Construction Lighting Mitigation Plan to the CPUC as outlined in this mitigation measure on November 30, 2010. The CPUC approved the plan on January 31, 2011. This plan is included with the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment F.
V-01b: Submit a Construction Lighting Mitigation Plan 90 days prior to construction	SDG&E submitted a Construction Lighting Mitigation Plan to the CPUC as outlined in this mitigation measure on November 30, 2010. The CPUC approved the plan on January 31, 2011.
V-02a: Construct access and spur roads at appropriate angles	Construction of access or spur roads shall occur as outlined in this measure.
V-02a: Consult with visual resources specialist to evaluate access road visibility prior to final design	The PMR and associated mapbook were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010. The final design of access roads was based on coordination with several visual resource specialists.
V-02a: Submit table 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, show the location of each structure and the alignment of the access roads. The final design of access roads was based on coordination with several visual resource specialists.
V-02a: Submit final construction plans 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment and incorporate a redesign of the access roads based on coordination with several visual resources specialists. Final Grading Plan and Profiles were submitted to the CPUC for the administrative record on September 2, 2010. The USFS approved the plans and drawings on March 11, 2011.
V-02b: Revegetate boundaries of disturbed areas	This mitigation measure will be fulfilled during construction.
V-02b: Return graded roads to pre-construction conditions	This measure will be fulfilled during construction.
V-02b: Create barriers for public access if opened as a construction route	This mitigation measure will be fulfilled during construction.
V-02b: Submit final construction and restoration plans 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment and incorporate a redesign of the access roads based on coordination with several visual resources specialists. Final Grading Plan and Profiles were submitted to the CPUC on September 2, 2010. These plans and drawings were approved by the USFS on March 11, 2011.
V-02c: Treat disturbed soils visible from sensitive public viewing locations	SDG&E submitted a Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas on September 24, 2010. This plan was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. During construction, SDG&E will consult with the Authorized Officer regarding the site-by-site use of Eonite. This measure is only applicable to non-Forest lands.
V-02c: Submit final construction and restoration plans 60 days prior to construction	SDG&E has submitted Final Grading Plans and Plan and Profile drawings on September 2, 2010 for the overhead portion of the project. The USFS approved the plans and drawings on March 11, 2011. A Restoration Plan for Temporary Impacts to Sensitive Vegetation Communities was submitted on September 24, 2010; this plan was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. The USFS approved the Habitat Restoration Plan on April 7, 2011.
V-02d: Consult regarding helicopter construction techniques	The Project Modification Report, which was approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, discusses changes to the final design regarding the use of helicopter construction and prohibition of access and spur roads where construction would occur on slopes greater than 15 percent or near public viewing locations.
V-02d: Conduct Agency Consultations 120 days prior to construction	SDG&E has coordinated with the appropriate agencies and received approvals 120 days prior to construction. The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate the redesign of the alignment based on this coordination.
V-02f: Limit vegetation clearing	This measure will be implemented during construction on USFS-managed lands.

Mitigation Measure and APM	Status
V-02f: Incorporate mitigation to reduce total visual impact	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
V-02f: Submit Scenery Conservation Plan at least 120 days prior to construction	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
V-03a: Conductors shall be non-specular	SDG&E submitted a memorandum to the CPUC on September 30, 2010 demonstrating that SDG&E has ordered non-specular conductor in order to reduce conductor visibility and visual contrast of conductors and towers in compliance with this measure.
V-03a: Consult with a visual resources specialist to evaluate new access roads	The final design of the alignment incorporates a redesign and elimination of access roads based on coordination with several visual resources specialists. The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrates these changes.
V-03a: Submit a table 60 days prior to construction	The final design of the alignment incorporates a redesign and elimination of access roads based on coordination with several visual resources specialists. The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrates these changes.
V-45a: File Scenery Conservation Plan within 1 year after license is issued for USFS	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
VR-APM-01: Place structures at maximum distance from crossings	The Project Modification Report and Mapbook, which were approved by the BLM and CPUC in the Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment to reduce visual impacts at highway, canyon, and trail crossings.
VR-APM-03: Match structure spacing when parallel to an existing line	The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates changes to the final design of the alignment where the line parallels existing transmission lines. SDG&E also submitted a memorandum to the CPUC for the administrative record on September 9, 2010 documenting compliance with this measure.
VR-APM-04: Do not paint or discolor rocks or vegetation	The SWEAP video was approved by the CPUC on March 15, 2010. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project. The video includes instructions prohibiting application of paint or permanent discoloring agents on rocks or vegetation to indicate survey or construction limits.
VR-APM-05: Do not install structures in front or in line-of-sight of residences	SDG&E did not locate structures directly in front of residences or in direct line-of-sight from residences, where possible. The majority of Link 2 is on Forest Service lands and residences are not present. SDG&E consulted with affected property owners on the proposed structure locations to reduce land use and visual impacts. SDG&E has coordinated with affected landowners in accordance with MM L-2b.
L-01a: Submit Construction Notification Plan 45 days prior to construction	The Construction Notification Plan was approved by the CPUC on March 1, 2010.
L-01a: Mail a public notice 15 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses mailing public notifications. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Advertise in newspapers and bulletins 15 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses newspaper advertisement notifications. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Post notices of construction at public venues 30 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses posting of notices of construction at public venues. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.

Mitigation Measure and APM	Status
L-01a: Provide a public liaison person and toll-free hotline number before and during construction	The Construction Notification Plan identifies the public liaison person assigned to the project and the toll-free hotline. The Plan was approved by the CPUC on March 1, 2010.
L-02b: Notify landowners 90 days prior to completing final design of route	A memorandum submitted to CPUC on October 5, 2010 summarizes the landowner notification process. CPUC approved this memo on October 12, 2010. All landowners have been notified within 1000 feet of the project alignment. Landowners not directly affected by project facilities were sent a letter through certified mail in spring 2009 and given the opportunity to request changes. Landowners already in easement acquisition negotiations were notified through the acquisition process and provided the opportunity to request changes. These changes are also addressed in the Project Modification Report and Mapbook, which were approved by BLM and CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
L-02b: Provide notified parties 30 days to identify conflicts and potential reroutes	SDG&E provided affected landowners 30 days in which to respond to the project notification and discuss changes to the project to accommodate landowner requests. The L-2b Mitigation Measure Memorandum (dated October 5, 2010) summarizes the criteria used to evaluate these requests. A summary of each landowner request received is also included with this memo, which was approved by the CPUC on October 12, 2010. In addition, the PMR, which was approved by the CPUC and BLM in a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, addresses several of these changes. To reduce conflicts on National Forest System lands in the future, SDG&E will survey and mark boundaries between National Forest System lands and other lands within the approved right-of-way as directed by the USFS, consistent with the requirements of the USFS ROD.
L-02b: Provide written report at or before the time property owners are identified	On March 18, 2009, SDG&E met with CPUC representatives to discuss the interpretation and notification requirements for mitigation measure L-2b. The notification and landowner requests processes were developed based on those discussions. SDG&E did not provide CPUC and BLM with a written report identifying properties that were suspected of having a land use conflict as described in the mitigation measures at or before the time property owners were notified, but SDG&E did consider these impacts in their initial evaluation of the project and with subsequent route changes as described in the Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
L-02b: Provide written report within 30 days of the public notice closing date for responses	A memorandum submitted to CPUC and BLM on October 5, 2010 summarizes the landowner notification process. CPUC approved this memorandum on October 12, 2010. All landowners have been notified within 1000 feet of the project alignment. Landowners not directly affected by project facilities were sent a letter through certified mail in spring 2009 and given the opportunity to request changes. Landowners already in easement acquisition negotiations were notified through the acquisition process and provided the opportunity to request changes. These changes are also addressed in the Project Modification Report and Mapbook approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
L-02b: Develop specific reroute modifications	The modifications required by this task are located on Links 4 and 5. They are not applicable to Links 1,2 and 3.
LU-APM-01: Provide advance notice within 300 feet of construction activities	SDG&E will provide advance notice to residents, property owners, and tenants within 300 feet of construction activities and will appoint a public affairs officer to address public concerns or questions.
LU-APM-02: Place new structures more than 330 feet from residences	SDG&E placed new structures more than 330 feet from existing residences to the extent feasible. Only two structures are closer than 330 feet to a residence and were not able to be moved. These structures include CP-7 (located on Link 5) and EP-228 (located on Link 1).
LU-APM-03: Compensate farmers for loss of crops	No agricultural operators will be impacted on Link 2 that require compensation for loss of crops; therefore, this mitigation measure is not applicable. SDG&E has met with a vineyard owner on Link 2 to confirm that there will be no loss of crops as a result from construction activities. A memo summarizing coordination with agricultural operators was submitted to the CPUC on October 15, 2010. See mitigation measures Ag-1a and Ag-1c.
LU-APM-03: Avoid planting, growing, and harvesting seasons	No agricultural operations involving crop production will be impacted by construction activities on Link 2; therefore, this mitigation measure is not applicable.
LU-APM-04: Provide notification prior to construction	To facilitate access to properties obstructed by construction activities, SDG&E will notify property owners and tenants in advance of construction activities and provide alternative access if necessary.

Mitigation Measure and APM	Status
LU-APM-05: Coordinate construction activities with water management representatives	There are no irrigation canals or flood management structures impacted by construction activities on Link 2; therefore, this mitigation measure is not applicable.
LU-APM-06: Restrict and confine activity within limits of construction	Final construction plans, which were submitted to the CPUC on September 2, 2010, illustrates the limits of construction. Construction activities will be restricted to and confined within those limits during construction.
LU-APM-06: Provide flagging for environmentally sensitive areas	The ROW boundary and limits of construction activity inside and outside the ROW will be flagged in environmentally sensitive areas to alert construction personnel that those areas should be minimize or avoided.
LU-APM-07: Install project facilities outside of private properties, parks, and other recreational areas	SDG&E designed project facilities to be located along the edges or borders of private property, open space parks, and recreation areas. When this was not possible, SDG&E consulted with affected property owners to reduce impacts and will pay just compensation to the property owners through contractual agreements with each landowner. SDG&E submitted a memo to CPUC on October 5, 2010 documenting landowner notification and consultation; the CPUC approved this memo on October 12, 2010. The final alignment is shown on the Project Modification Report and Mapbook, which was submitted to CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
LU-APM-08: Coordinate to include Project in General Plans	SDG&E has been coordinating with the County of San Diego and Imperial County to determine whether there are any General Plan updates anticipated during the life of the project that could conflict with construction or operation of the transmission line. SDG&E spoke with LeAnn Carmichael (858-694-3739) at the County of San Diego and Andy Home, Deputy County Executive Officer for Natural Resources Development (760) 482-4727 at Imperial County. No General Plan updates are planned for Imperial County or the City of San Diego in the near future.
LU-APM-09: Obtain ministerial land use permits	SDG&E's contractor will obtain encroachment permits from each local jurisdiction, if necessary, during construction.
LU-APM-10: Match structure locations with existing transmission facilities	A memo was submitted to the CPUC for the administrative record documenting compliance with Mitigation Measure LU-APM-10, on September 1, 2010.  Proposed structure locations were matched with existing transmission facilities along the existing 500 kV Southwest Powerlink (SWPL) line and two 69 kV transmission lines. The Sunrise Powerlink parallels SWPL from Imperial Valley Substation to the Jacumba SWPL Breakaway Point Reroute.
R-APM-02a: Provide advance notice if restrictions in access routes to recreational use areas	This mitigation measure will be implemented during construction.
R-APM-02b: No construction on federal holidays that affects trail use	This measure will be implemented during construction.
R-APM-02c: Coordinate construction activities affecting parkland and trails prior to construction	SDG&E has coordinated with the appropriate land management agencies, as required. During construction, advance notice of restrictions to recreational use areas will be provided to the agencies.
R-APM-02d: Post signs at alternative park access and parking	This measure will be implemented during construction.
R-APM-02e: Post signs at alternative trails and bikeways	This measure will be implemented during construction.
R-APM-02f: Post signs at equestrian trails during helicopter construction	This measure will be implemented during construction.
R-APM-02f: Regularly check and maintain signs during helicopter construction	This measure will be implemented during construction.
R-APM-03a: Restrict construction-related traffic to approved routes	This mitigation measure will be monitored during construction. The project no longer crosses ABDSP lands; therefore, this portion of the mitigation measure is no longer applicable.



Mitigation Measure and APM	Status
WR-01a: Coordinate construction activities and schedule 60 days prior to construction	SDG&E has been coordinating with the County of San Diego to identify recreational areas that may be impacted by the project and will schedule construction to avoid temporary preclusion of recreational area use. SDG&E will continue its coordination with the County of San Diego and other jurisdictional agencies during construction.
WR-01a: Submit documentation of coordination 30 days prior to construction	SDG&E submitted a memorandum to the CPUC for the administrative record on November 5, 2010 documenting its coordination efforts related to recreational areas and trails. SDG&E has coordinated with the USFS, BLM and County of San Diego regarding recreational areas and trails.
WR-01b: Coordinate temporary detours of trails 60 days prior to construction	SDG&E began coordination efforts with the Trails Coordinator for San Diego County on June 21, 2010. Coordinating with the County 60-days prior to construction has been fulfilled. Coordination efforts are on-going and will continue throughout the preconstruction and construction phases of the project. Two memos documenting coordination efforts were submitted to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-01b: Site new trail segments to avoid sensitive resources and restore to pre-construction conditions	This measure will be implemented during construction.
WR-01b: Post public notices at trail detours	This measure will be implemented during construction.
WR-01b: Submit documentation of coordination 30 days prior to construction	See WR-1a
WR-01c: Coordinate alternative recreation facilities 60 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-01c: Post public notices at recreation facilities	This measure will be implemented during construction.
WR-01c: Submit documentation of coordination 30 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-02a: Relocate 500kV line along southern boundary of JAM properties	SDG&E relocated the overhead 500 kV transmission line along the southern boundary of JAM properties as required to minimize effects on BLM land, Forest Service land, and private property. This measure applies to both Links 1 and Link 2.
WR-02a: Submit memo and construction plans 120 days prior to construction	<p>The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate a reroute of the BCD Alternative Revision to reduce effects on recreation. See page 2-47 of the PMR Determination Memorandum for additional detail and confirmation that this measure has been fulfilled. In addition, Exhibit 4 of the USFS SUP, which was approved by the USFS on March 11, 2011, reflects this revision.</p> <p>The USFS ROD modified this measure to authorize the use of the BCNM land use zone adjacent to Thing Valley. Access to this area will be limited to foot and helicopter travel only. To compensate for impacts within the BCNM land use zone, SDG&amp;E will fund improvements to USFS recreation facilities within the Laguna Recreation Area. The agreement for funding the improvements is currently being negotiated, and will be finalized prior to energizing the transmission line. The final agreement will be included in the Recreation Facilities Improvement Plan (SUP Exhibit 19) when finalized. All preconstruction components of this measure have been met.</p>
WR-02b: Coordinate and submit route options for revising the Pacific Crest Trail	SDG&E began consultations and coordination efforts with the U.S. Forest Service (USFS), BLM, and Pacific Crest Trail Association (PCTA) in early May 2010 to develop route options to minimize the number of times the Pacific Crest Trail crosses the Modified Route D Alternative alignment. The Project Modification Report, which was approved by the CPUC and BLM in a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, addresses the Pacific Crest Trail. See PMR 21 of the Project Modification Report, pages 4-81 through 4-84.



Mitigation Measure and APM	Status
WR-03a: Coordinate to determine locations of tower sites and spur roads	SDG&E has made considerable effort to limit access roads and tower locations within recreational areas in coordination with the BLM, USFS, Imperial County, and San Diego County. No access roads are located on trails (e.g., PCT, Trans-County Trail, etc.). The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment to avoid recreational areas as much as feasible. Mitigation for impacts have been calculated in the Habitat Acquisition Plan/Habitat Management Plan, which was approved by the Wildlife Agencies on November 10, 2010 and the USFS in February 2011.
WR-03a: Coordinate 60 days prior to construction and submit documentation 30 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
AG-01a: Coordinate with property owners and tenants 60 days prior to construction	SDG&E has coordinated with agricultural property owners and tenants in order to ensure avoidance or minimization of interference with agricultural operations.  On Link 2, SDG&E coordinated with the property owner regarding access to structure locations to minimize impacts to vineyards. SDG&E met with Mr. Westfall on October 21, 2009. A memorandum summarizing this coordination was submitted to CPUC on October 15, 2010 for their administrative record.
AG-01b: Restore disturbed soils 30 days after completion of construction clean-up	This measure will be implemented during construction.
AG-01c: Coordinate with grazing operators 60 days prior to construction and 30 days after construction	SDG&E has coordinated with landowners to discuss construction activities and address concerns related to agricultural productivity and animal welfare. A memo summarizing this coordination was submitted to CPUC on October 15, 2010.  SDG&E has acquired a road easement (Cameron Truck Trail) from Tulloch landowners that crosses grazing lands. A new cattle gate was requested by Tulloch to address the containment and management of his cattle. The gate will be installed during construction of the access road.
AG-03b: Consult and notify 60 days prior to erection of any structure affecting aerial applicator operations	SDG&E sent notification letters to aerial applicators operating in San Diego and Imperial Counties on July 6, 2010. Copies of these notifications were sent to the CPUC, BLM and County Farm Bureaus on July 13, 2010 for their administrative record. The notification advised when and where the new transmission line and towers will be erected and included aerial maps depicting the proposed project route and agricultural lands near the route.
AG-03b: Provide maps of the alignment on or near agricultural lands	SDG&E sent notification letters to aerial applicators operating in San Diego and Imperial Counties on July 6, 2010. Copies of these notifications were sent to the CPUC, BLM and County Farm Bureaus on July 13, 2010. The notification advised when and where the new transmission line and towers will be erected and included aerial maps depicting the proposed project route and agricultural lands near the route.
C-01a: Submit cultural resources inventory prior to construction	A Final Class III Inventory was approved by the CPUC and BLM on June 2, 2010.
C-01a: Stake tower locations prior to cultural resource field surveys	The selected ROW and tower locations were staked prior to the cultural resource field surveys.
C-01b: Protect potential and register-eligible resources from direct project impacts	The Project Modification Report and Mapbook, which was approved by the CPUC and BLM through a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates that the final design of the alignment incorporates changes to avoid impacts to potentially register-eligible and register-eligible resources based on preliminary review of the National Register of Historic Places and consultation with the SHPO.  The Final Class III Inventory Report, which was approved by the CPUC and BLM on June 2, 2010, identified one (1) cultural resource site in an area of direct ground disturbance on Link 2. Although this site is located on private and CNF land, only the portion of the site on private land is located in an area of direct ground disturbance. The Historic Properties Treatment Plan is currently under agency and tribal review, and is pending approval. The portion of the site on CNF land will be protected as an Environmentally Sensitive Area (ESA) during construction.

Mitigation Measure and APM	Status
C-01b: Undertake additional studies if resources cannot be protected from direct impacts	The Final Class III Inventory Report, which was approved by the CPUC and BLM on June 2, 2010, identified one (1) cultural resource site in an area of direct ground disturbance on Link 2. Although this site is located on private and CNF land, only the portion of the site on private land is located in an area of direct ground disturbance. The portion of the site on CNF land will be protected as an Environmentally Sensitive Area (ESA) during construction. The Historic Properties Treatment Plan, which was approved on July 7, 2011, will be implemented where required.
C-01b: Incorporate results of studies in HPTP	The results of the the evaluation studies were incorporated in the Historic Properties Treatment Plan (HPTP), which was approved on July 7, 2011.
C-01b: Designate NRHP and/or CRHR resources as ESA if within 50 feet of direct impact	SDG&E will designate NRHP and/or CRHR resources as an ESA if within 50 feet of direct impact areas. These ESAs will be monitored by archaeological and Native American monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
C-01b: Erect protective flagging or other markers for ESA	If cultural resources sites identified on this link (or within 50 feet of the right-of-way) are determined to be eligible by the SHPO or Native American Tribes, protective fencing and markers will be used to designate areas that can be avoided as an ESA. These ESAs will be monitored by cultural monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
C-01b: Develop and implement monitoring program as part of HPTP	A monitoring program was incorporated into the Historic Properties Management Plan. The HPMP was submitted to the CPUC, BLM, USFS, ACOE and Native American Tribes on May 3, 2010. As required under the Programmatic Agreement, this plan was approved by the CPUC, BLM and USFS in July 2010. This plan will be implemented during construction.
C-01c: Submit Historic Properties Treatment Plan	The Historic Properties Treatment Plan (HPTP) was approved on July 7, 2011.
C-01d: Conduct data recovery investigations to reduce adverse effects	Data gathered during the eligibility evaluation phase is summarized in the Historic Properties Treatment Plan (HPTP). Data-recovery methods, sample sizes, and recommended procedures are detailed in the HPTP as appropriate. The proposed mitigation for resource impacts are also presented in the HPTP, which was approved on July 7, 2011.
C-01d: Submit field closure report prior to construction within 100 feet of affected resource	This mitigation measure was fulfilled for those resource areas to which it applies.
C-01d: Submit final report of data-recovery investigations within 1 year of completing fieldwork	This mitigation measure will be fulfilled within one year of the completion of fieldwork.
C-01e: Implement archaeological monitoring at cultural ESAs	A qualified archaeologist will conduct full-time monitoring during ground-disturbing activities in ESAs. The Historic Properties Treatment Plan (HPTP) includes locations of ESAs and protection boundaries. The HPTP provides recommendations for further management and monitoring during construction.
C-01e: Qualification of archaeologists must be approved	The qualifications of the principal archaeologist and archaeological monitors were submitted to the BLM and CPUC for approval on July 20, 2010. Cultural monitor resumes were approved by the BLM on September 30, 2010. Only monitors approved by the CPUC and BLM will work on the Project. A list of all approved monitors will be updated throughout the project.
C-01e: Retain and schedule any required Native American monitoring	A Historic Properties Management Plan (HPMP) was approved by the CPUC, BLM, and USFS in July 2010. The HPMP includes locations where Native American monitoring will be required. The Historic Properties Treatment Plan provides recommendations for further management and monitoring during construction.
C-01e: Submit cultural resources monitoring monthly reports during construction	This mitigation measure will be fulfilled during construction.
C-01e: Notify if any damage to cultural resource ESAs and divert work to a buffer distance	This mitigation measure will be fulfilled during construction.
C-01f: Train construction personnel to recognize and protect cultural resources	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions regarding the recognition of possible buried cultural remains and protection of all cultural resources. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.

Mitigation Measure and APM	Status
C-02a: Avoid known Native American remains and protect with ESA designation	Government-to-government consultations have been ongoing. SDG&E has avoided direct impacts to known locations of Native American human remains and will continue to avoid direct impacts to Native American human remains. Records of consultations are being held with the BLM. No known locations of Native American remains occur along Link 2. If Native American remains are encountered during construction, this mitigation measure will be implemented.
C-02a: Contact agencies if sites will be affected	SDG&E has avoided direct impacts to known locations of Native American human remains and will continue to avoid direct impacts to Native American human remains. Any discoveries will be processed in the manner described in this measure and detailed in the HPMP and HPTP for this project.
C-02a: Assist and support MLD with reinterment location	SDG&E will provide all necessary support to the Most Likely Deceased (MLD) if Native American human remains are encountered during construction.
C-02a: Follow laws that govern treatment of human remains	SDG&E will follow all laws, statutes and regulations as appropriate if Native American human remains are encountered during construction.
C-02a: Support in consultations with Native Americans and implement required actions and studies	Government-to-government consultations have been ongoing. Records of consultations are being held with the BLM. This measure will be satisfied during construction.
C-02a: Divert work if human remains are discovered and inform officer	This measure will be implemented as defined if human remains are discovered during construction.
C-03a: Implement archaeological monitoring	Archaeological and Native American monitors will be on-site during subsurface construction disturbance at all locations identified for buried archaeological deposits in the Historic Properties Treatment Plan (HPTP). Monitoring will be conducted per the HPTP and the Historic Properties Management Plan (HPMP). The HPMP was approved by the CPUC, BLM, and USFS in July 2010. The HPTP was approved on July 7, 2011.
C-03a: Divert work if buried cultural material discovered and notify archaeologist	This mitigation measure will be fulfilled during construction.
C-04a: Assist and support BLM in consultations with Native Americans to assess impacts	The preconstruction component of this measure is complete; however, government-to-government consultations are ongoing. Records of consultations are being held with the BLM.
C-04a: Submit documentation of all pre-construction actions 30 days prior to construction	Written documentation of all preconstruction consultation actions completed to date was included in the HPMP, approved in July 2010, and the Final Class III Inventory. The preconstruction component of this mitigation measure is complete. Additional information will be provided to the BLM as the consultation process continues prior to and during construction. Actions that are required during or after construction are defined, detailed, and scheduled in the Historic Properties Treatment Plan and implemented by the Applicant, consistent with Mitigation Measure C-1c.
C-05a: Design a long-term plan to protect NRHP and/or CRHR eligible sites 30 days prior to project operation	The Long Term Cultural Resource Monitoring Plan is being prepared by SDG&E and will be submitted for review and approval at least 30 days prior to project operation.
C-06a: Provide inventory to conduct visual analysis of all known and potential historic built environment resources in HPTP	All known historic built environment resources located within 0.5 mile of the project have been inventoried and are included in the Historic Properties Treatment Plan (HPTP), which was approved on July 7, 2011. Historic built environment resources that are eligible for nomination to the National Register were analyzed for visual impacts from the project. The HPTP provides a summary of the findings and compensation mitigation for impacts to eligible historic era resources.
C-06e: Minimize visual intrusion of aboveground portion on Highway 80	Project design and location has taken this measure into account. There were no impacts to Old Highway 80 identified in this portion of the Project; therefore this measure is not applicable.
C-06e: Include protection plan for Old Highway 80 in HPTP	There are no portions of Old Highway 80 within Link 2 that require protection; therefore this mitigation measure is not applicable.

Mitigation Measure and APM	Status
CR-APM-01: Instruct and provide a contract addressing protection and avoidance of cultural resources	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions regarding the recognition of possible buried cultural remains and protection of all cultural resources. A construction contract addressing state and federal laws regarding antiquities, fossils, and plants and wildlife, including the collection and removal, as well as the importance of these resources and the purpose and necessity of protecting them will be signed by each individual. Records of these contracts will be kept with the monitor. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
CR-APM-02: Flag archaeological sites eligible for National Register	Cultural site inventories have been conducted. Cultural resource sites have been avoided to the extent feasible and sites that cannot be avoided have been evaluated for National Register eligibility and included in the HPTP, which was approved on July 7, 2011. There are no National Register-eligible properties on the Cleveland National Forest that will be impacted by the project. Cultural resource sites in proximity to the project will be protected using Environmentally Sensitive Area designations.
CR-APM-02: Implement impact avoidance and APMs during construction	SDG&E consulted with the appropriate land management agencies to avoid impacts to cultural resources where feasible. The Project Modification Report and Mapbook, which was approved by the CPUC and BLM through a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates that the final design of the alignment incorporates changes based on these consultations. Impact avoidance and APMs are described in the approved HPMP and HPTP. These measures will be implemented during construction.
CR-APM-03: Report within 24 hours any previously unidentified cultural resource discovered	This mitigation measure will be fulfilled during construction.
CR-APM-03: Suspend operations in the immediate area of the discovered cultural resource	This mitigation measure will be fulfilled during construction as needed.
CR-APM-03: Evaluate the discovered resource and determine appropriate actions.	This mitigation measure will be fulfilled during construction as needed.
CR-APM-03: Develop and implement a treatment plan to mitigate impacts	The HPTP and HPMP provide direction for discovery and mitigation of impacts to cultural resource sites.
CR-APM-04: Conduct maintenance and other activities in conformance with national standards	This mitigation measure will be fulfilled during construction.
CR-APM-05: Follow guidelines for cultural resources	The Historic Properties Management Plan (approved on July 15, 2010) and the Historic Properties Treatment Plan (approved on July 7, 2011) incorporate the guidance provided in this measure. SDG&E will continue to comply with cultural resources mitigation measures as outlined in the MMCRP.
CR-APM-06: Avoid historic properties by fencing or barricading	Historic properties have been surveyed and included in the HPTP. The HPTP was approved on July 7, 2011. Properties that cannot be avoided will be flagged as ESAs. These ESAs will be monitored by cultural monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
CR-APM-06: Implement a plan if historic properties cannot be avoided	The Historic Properties Management Plan (HPMP), which was approved by the CPUC, BLM, and USFS in July 2010, identifies historic properties along the Project route. The Historic Properties Treatment Plan, which was approved on July 7, 2011, includes details regarding the recording, relocation, and data recovery of historic properties, as well as compensation mitigation for project impacts.
CR-APM-07: Control impacts that can deteriorate historic	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement protective measures to minimize erosion and weeds	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement control measures to minimize vibration, dust, and fumes	This mitigation measure will be fulfilled during construction.
CR-APM-07: Minimize deterioration to buildings and structures	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
CR-APM-07: Implement a plan if deterioration cannot be avoided	This mitigation measure will be fulfilled during construction.
CR-APM-08: Avoid and protect landscaping essential to historic property	SDG&E has consulted with the appropriate property owners to avoid impacts to historic properties. The April 30, 2010 Mapbook illustrates changes to the final design of the alignment incorporating re-design of the alignment based on these consultations. The Project Modification report briefly discusses these reroutes. The Mapbook and PMR were approved by the BLM and CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
CR-APM-08: Minimize intrusion to the historic setting	This mitigation measure will be fulfilled during construction.
CR-APM-09: Install permanent fencing, barriers, or controlled access	This mitigation measure will be fulfilled during construction.
CR-APM-09: Restrict construction and operation access	This mitigation measure will be implemented during construction.
CR-APM-09: Instruct construction and maintenance personnel to protect sensitive properties	Construction and maintenance personnel will be instructed in protection of sensitive properties.
CR-APM-10: Span conductors over historic property	A memo was submitted to the CPUC on September 13, 2010 documenting compliance with this mitigation measure. As part of the final design, SDG&E located project structures so that conductors span linear historic property to the extent feasible.
CR-APM-10: Boring shall avoid disturbance to historic property	Boring is not required to avoid historic properties on the overhead portion of the line; therefore, this mitigation measure is not applicable.
CR-APM-11: Implement standard practices on private land	The preconstruction component of this measure is complete and SDG&E's standard practices will be implemented throughout the duration of the project.
CR-APM-12: Conduct cultural surveys for staging areas not yet identified	The April 30, 2010 Mapbook illustrates changes to the final design of the alignment incorporating a redesign of the alignment based on these surveys. The Project Modification report briefly discusses these changes. The Mapbook and PMR were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
PAL-01a: Submit an inventory of significant paleontological resources	SDG&E has conducted and submitted a "Paleontological Records" report dated February 25, 2010 and a "Sunrise Powerlink Paleontological Monitoring and Discovery Treatment Plan" dated April 7, 2010. These documents were approved by the CPUC, BLM and other involved land-managing agencies on July 30, 2010.
PAL-01b: Submit a Paleontological Monitoring Treatment Plan	The Paleontological Monitoring and Treatment Plan was developed by a qualified paleontologist based on Society of Vertebrate Paleontology guidelines and was approved by the BLM, CPUC and other agencies with jurisdiction on July 20, 2010.
PAL-01c: Conduct full-time paleontological construction monitoring	The areas that require paleontological monitoring have been identified and monitors will be present during ground disturbance activities.
PAL-01c: Conduct part-time monitoring of sediments with low marginal undetermined sensitivity	This mitigation measure will be fulfilled during construction.
PAL-01c: Divert construction activities when significant fossils are recovered	The approved Monitoring and Treatment plan specifies a process for the discovery of paleontological resources.
PAL-01d: Implement Treatment Plan if significant paleontological resources are unavoidable	This mitigation measure will be fulfilled during construction.
PAL-01e: Train construction personnel on paleontological resources	The SWEAP video, which was approved by the CPUC on March 15, 2010, will be shown to all project personnel and enforced throughout all phases of the Project. The SWEAP video includes instructions on the recognition of possible subsurface paleontological resources and protection of all paleontological resources during construction.



Mitigation Measure and APM	Status
N-01a: Obtain a variance for night construction or 200 feet from sensitive receptors 45 days prior to construction	This mitigation measure will be fulfilled during construction. If it is determined that a variance is needed for construction noise, it will be applied for and obtained prior to construction.
N-01a: Employ noise suppression techniques	This measure will be implemented during construction.
N-02a: Manage blasting with a plan for each site 45 days prior to construction	The preconstruction component of this measure is complete. A Blasting Preparation and Protection Plan was submitted to the CPUC on July 7, 2010. If blasting is deemed necessary, a site-specific blasting plan will be submitted to the CPUC and implemented during construction.
N-02a: Restore damaged structure and compensate owner	This mitigation measure will be fulfilled post construction, as needed.
NOI-APM-01: Provide notice to sensitive receptors and residences within 300 feet of construction	The Construction Notification Plan addresses providing notice to sensitive receptors within 300 feet of construction sites, staging areas, and access roads. The Construction Notification Plan was submitted to the CPUC on August 26, 2009 and approved by the CPUC on March 1, 2010. The preconstruction component of this measure is complete. SDG&E will provide the CPUC with verification that notifications were made prior to start of construction.
NOI-APM-01: Provide a public liaison person before and during construction.	The Construction Notification Plan, which was approved by the CPUC on March 1, 2010, identifies the public liaison person who will respond to concerns of neighboring receptors about noise disturbances.
NOI-APM-01: Establish a toll free number for questions and complaints	The Construction Notification Plan, which was approved by the CPUC on March 1, 2010, identifies the toll free telephone number established by SDG&E for receiving questions or complaints during construction. The Construction Notification Plan also identifies procedures for responding to callers.
T-01a: Restrict lane closures or obstructions on major roadways	SDG&E submitted two memos to the CPUC for their administrative record documenting coordination regarding traffic issues. A memo documenting coordination with Imperial County was submitted to CPUC on October 15, 2010. Documentation of coordination with San Diego County and Caltrans was submitted on October 20, 2010. Lane closures are not anticipated to occur; however, if lane closures do occur this measure will be implemented during construction. Lane closures will be addressed in traffic plans as required by any encroachment permits required by the agencies.
T-04a: Provide temporary pedestrian access	Interference with pedestrian access is not anticipated to occur. However, if temporary closures of sidewalks and other pedestrian facilities do occur during construction, this measure will be implemented.
T-04a: Provide detours and signs for bike route closures	Bike route or path closures are not anticipated to occur. However, if bike route or bike path closures do occur during construction, this measure will be implemented.
T-05a: Coordinate road repairs with public agencies	This measure will be implemented post construction.
T-05a: Protect drainage structures and incorporate measures into access agreement/easement	Access agreements/easements will be obtained prior to any road work. Measures required in the agreement/easement will be implemented during construction.
T-07a: Conform to agency requirements if parking spaces are eliminated or relocated	The Construction Notification Plan addresses notification of the public through local newspapers and on-site postings when parking spaces may be temporarily eliminated or relocated. The Plan was submitted to the CPUC on August 26, 2009 and approved by the CPUC on March 1, 2010. Impacts to parking are not anticipated. However, if parking spaces are eliminated or relocated as a result of construction, SDG&E will post "No Parking" signs 48 hours in advance to notify the public of potential short-term elimination of parking spaces.
T-09a: Prepare a Construction Transportation Management Plan	A project-wide Traffic Study was submitted on April 28, 2010 and approved by Imperial County on August 19, 2010, San Diego County on September 29, 2010 and Caltrans on August 19, 2010. The Study revealed that there is only one area, Highway 67 on Link 5, where a CTMP will be required. Documentation of coordination with Imperial County was submitted to CPUC on October 15, 2010. Documentation of coordination with San Diego County and Caltrans was submitted on October 20, 2010.
T-11b: Provide notification when and where the line will be erected prior to construction	SDG&E has consulted with U.S. Customs and Border Patrol regarding the location of new transmission lines and towers. SDG&E met with U.S. Customs and Border Patrol representatives on December 17, 2009, February 8, 2010, and April 20, 2010. A memo documenting this coordination was provided to CPUC for the administrative record on October 15, 2010.

Mitigation Measure and APM	Status
T-11b: Provide maps of the alignment near the U.S./Mexico border	The April 30, 2010 Mapbook, which was approved by the CPUC and BLM in a Determination Memorandum on September 22, 2010, includes aerial images that clearly show the new lines and towers in relation to the U.S./Mexico border within San Diego and Imperial counties. SDG&E provided a copy of this Mapbook to border patrol aircraft, the U.S. Customs and Border Patrol, and the CPUC on May 14, 2010. SDG&E consulted with the U.S. Customs and Border Patrol on December 17, 2009, February 8, 2010, and April 20, 2010.
T-APM-02a: Obtain permits for temporary lane closures	In areas where a temporary lane closure is determined to be necessary, SDG&E will obtain required permits from Imperial County, San Diego County, and Caltrans. This measure will be satisfied during construction. See mitigation measure T-9a regarding coordination with Imperial County, San Diego County, and CalTrans regarding traffic impacts.
T-APM-02b: Submit Detour Plans	In an area where detours are determined to be necessary, SDG&E will submit detour plans to Imperial County, San Diego County, and Caltrans. No detours will occur until detour plans are submitted to the appropriate agency and permits are obtained. This measure will be implemented during construction. See mitigation measure T-9a regarding coordination with Imperial County, San Diego County, and CalTrans related to traffic impacts.
T-APM-02b: Right-of-Entry permit required for construction and maintenance activities outside of easements in the ABDSP	No project activities will occur within ABDSP; therefore, this mitigation measure is not applicable.
T-APM-02b: Provide a request for maintenance or other earth-disturbing activities within California State Parks	No project activities will occur on California State Park land; therefore, this measure is not applicable.
T-APM-04a: Coordinate in advance with emergency service providers	SDG&E will coordinate with emergency service providers prior to initiation of construction activities that would restrict movements of emergency vehicles.
T-APM-04a: Notify cities and counties regarding construction activities	SDG&E shall notify and provide required information to counties and cities prior to initiation of construction activities that could impact police, fire, ambulance and paramedic services.
T-APM-05a: Coordinate construction activities adjacent to school bus stops with school districts 1 month prior to construction	SDG&E has coordinated with school districts project-wide to discuss construction activities adjacent to school bus stops. Documentation of this coordination effort was provided to CPUC for the administrative record on October 28, 2010.
T-APM-05a: Consult with transit authorities 1 month prior to construction	SDG&E has coordinated with the Metropolitan Transit District to discuss construction activities and potential impacts to transit services. Documentation of this coordination effort was provided to CPUC for the administrative record on October 28, 2010.
T-APM-06b: Parking in San Diego County shall comply with County regulations and per an approved traffic control plan	This measure will be implemented during construction.
T-APM-08a: Obtain permit(s) if entering railroad right-of-way	No railroad crossing permits are required for Link 2; therefore, this mitigation measure is not applicable.
T-APM-09a: Underground utility facilities within 1,000 feet of an Officially Designated Scenic Highway	There will be no new or relocated utility facilities on Links 1, 2, or 5 within 1,000 feet of an Officially Designated Scenic Highway. Therefore, this measure is not applicable to Links 1, 2, or 5.
T-APM-10a: Ensure continuous access to properties	During construction, SDG&E will ensure that the construction contractor provides driveway access to businesses and residences.
HS-APM-01: Train personnel using hazardous materials	The SWEAP video that was approved by the CPUC on March 15, 2010 includes training on hazardous materials management procedures. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
HS-APM-01: Develop a Hazardous Communication Plan	The Sunrise Powerlink Hazard Communication (HazCom) Plan was approved by the CPUC on April 2, 2010. The HazCom Plan includes site-specific information and the location of MSDS.
HS-APM-02: Trained personnel to perform refueling	Refueling will only be performed by operators trained in refueling of vehicles or equipment.

Mitigation Measure and APM	Status
HS-APM-02: Conduct refueling in designated areas or by assigned vehicles	Refueling will be performed in designated areas or by a mobile refueling tanker with secondary containment.
HS-APM-03: Develop applicable safety plans	The Sunrise Powerlink Hazard Communication Plan (HazCom) was approved by the CPUC on April 2, 2010. The HazCom Plan includes site specific information and the location of MSDS. Appropriate safety plans, such as a HMBP and/or SPCC Plan will be developed as the project progresses and storage locations are identified. Plans will be updated during construction as needed.
HS-APM-05: Investigate impacts of all contaminated sites	The Soil Management Plan was submitted to the CPUC on July 2, 2010 and approved on September 9, 2010. The Soil Management Plan addresses the requirements stipulated in this measure. The Phase 1 Environmental Site Assessment was submitted to CPUC on December 3, 2009 and provides additional information, as well as the results of the investigation.
HS-APM-07: Train personnel to recognize UXO	The SWEAP video was approved by the CPUC on March 15, 2010 and discusses training of personnel involved in excavation regarding recognition of UXO.
HS-APM-08: Assign Environmental or Health & Safety Representative	SDG&E has assigned Steve Riggs, Field Monitoring Manager with Burns & McDonnell, as the Environmental Field Representative project-wide.
HS-APM-09: Contact airport representatives within 2 miles	A memo was submitted to the CPUC for the administrative record documenting compliance with Mitigation Measure HS-APM-9, Task 1, on September 10, 2010.
HS-APM-10: Store and dispose of hazardous waste per regulations	If hazardous wastes are generated, they will be properly disposed of and stored in accordance with all applicable federal and state regulations. Hazardous material minimization measures shall be employed whenever possible.
HS-APM-11: Develop Fire Prevention and Response Plan	The Fire Plan, acknowledged by the CAL Fire Chief, was submitted to the CPUC on December 14, 2009 and approved on February 2, 2010. The USFS approved the plan January 19, 2011.
HS-APM-11: Assign Fire Marshal to enforce fire prevention provisions	The Fire Plan, acknowledged by the CAL Fire Chief, was approved by the CPUC on February 2, 2010 and the USFS on January 19, 2011. A project Fire Marshall has been hired for the project and is assigned to enforce the FPRP.
HS-APM-12: Develop a Traffic Control Plan	See T-9a
HS-APM-14: Conduct environmental training to construction workers	The SWEAP video, which was approved by the CPUC on March 15, 2010, provides environmental training to construction workers regarding potential exposure. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
HS-APM-15: Stop work if soil or groundwater contamination is suspected	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-16: Terminate work and implement health and safety procedures if contamination is suspected	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-16: Take preliminary samples and send to lab for testing	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-17: Work may proceed if no contamination	This mitigation measure will be fulfilled during construction.
HS-APM-17: Notify agencies if contamination is above regulatory limits	This mitigation measure will be fulfilled during construction.
P-01a: Implement an environmental monitoring plan	The Environmental Monitoring Plan was submitted to the CPUC on May 10, 2010. In addition, the SWEAP video, approved by the CPUC on March 15, 2010, discusses implementation of the Environmental Monitoring Program; maintenance of emergency spill supplies and equipment; the proper use of hazardous materials, development of a Hazardous Communication Plan; development of applicable environmental safety plans associated with hazardous materials; assignment of an Environmental Field Representative and/or General Contractor to the Health & Safety Office for the project; proper disposal/storage of hazardous and solid wastes in accordance with federal, state, and local regulations; and environmental training regarding potential exposure. The SWEAP video will be shown to all project personnel and enforced throughout all phases of the Project.

Mitigation Measure and APM	Status
P-01a: Designate an Environmental Field Representative	The Environmental Monitoring Plan was submitted to CPUC on May 10, 2010. The Plan states that the Environmental Field Representative/ Lead Monitoring Manager for this Project is Steve Riggs.
P-01b: Maintain hazardous material spill kits onsite	This measure will be implemented during construction.
P-02a: Test farmed soil samples and submit sampling and testing plan 60 days prior to construction	The Sampling and Testing Plan was approved by the CPUC on May 23, 2010. The Agricultural Sampling Report dated May 7, 2010 was approved on September 2, 2010.
P-02a: Submit laboratory results 30 days prior to construction	The Sampling and Testing Plan was approved on March 23, 2010. The Agricultural Sampling Report dated May 7, 2010 was approved on September 2, 2010. The Soil Management Plan was approved by the CPUC on September 9, 2010. This measure is complete for all project areas with the exception of one property in Link 5 associated with structures CP63 and CP64.
P-02a: Follow regulatory procedures for handling and disposal of contaminated soil	Excavated materials containing elevated levels of pesticide or herbicide will be managed in compliance with the Soil Management Plan approved by the CPUC on September 9, 2010.
P-02a: Use effective dust suppression procedures	During construction, effective dust suppression procedures will be used in construction areas to reduce airborne emissions of these contaminants and reduce the risk of exposure to workers and the public.
P-02a: Consult regulatory agencies for handling, treatment, and/or disposal	Regulatory agencies for the State of California (DTSC or RWQCB) and San Diego County will be contacted by SDG&E or its contractor to plan handling, treatment, and/or disposal options.
P-03a: Collect soil or groundwater samples if contaminated	This measure will be implemented during construction.
P-03a: Coordinate with regulatory agencies if contaminated soil or groundwater confirmed by laboratory data	This measure will be implemented during construction.
P-03b: Submit report to agencies of contaminated soil within 30 days of laboratory data receipt	This measure will be implemented during construction.
P-07a: Implement steps 60 days prior to construction if excavation will occur	The Soil Management Plan was approved by the CPUC on September 9, 2010 as fully addressing the requirements of this measure. A Phase 1 Environmental Site Assessment was submitted to the CPUC for review on December 2, 2009. In the event that new areas requiring ground disturbance are identified during construction, a Phase 1 will be conducted and submitted to the CPUC prior to construction in those areas.
PS-01a: Limit conductor surface gradient	SDG&E submitted a memorandum to the CPUC on September 30, 2010 demonstrating that SDG&E has limited the conductor surface electric gradient in accordance with the IEEE Radio Noise Design Guide.
PS-02a: Identify objects within and near ROW for induced voltages and implement electrical grounding	A memorandum addressing completion of this measure was submitted to the CPUC on September 30, 2010 and approved on October 6, 2010.
AQ-01a: Pave, apply water 3 times daily, or apply soil stabilizers	A Dust Control Plan was submitted to the CPUC and approved on January 20, 2010. This measure will be implemented during construction, as well as the measures specified in the Dust Control Plan.
AQ-01a: Pre-water sites 48 hours prior to clearing	This mitigation measure will be fulfilled during construction.
AQ-01a: Reduce amount of disturbed area	This mitigation measure will be fulfilled during construction.
AQ-01a: Spray stock-piles daily or as needed	This mitigation measure will be fulfilled during construction.
AQ-01a: Cover loads in trucks or maintain 6 inches of free-board	This mitigation measure will be fulfilled during construction.
AQ-01a: Pre-moisten import and export dirt prior to transport	This mitigation measure will be fulfilled during construction.



Mitigation Measure and APM	Status
AQ-01a: Sweep public streets daily if soil tracking visible	This mitigation measure will be fulfilled during construction.
AQ-01a: Plant vegetative ground cover following construction	This mitigation measure will be implemented immediately following construction.
AQ-01a: Apply soil stabilizers or water on inactive work areas	This mitigation measure will be fulfilled during construction.
AQ-01a: File a Dust Control Plan 30 days prior to construction	The Dust Control Plan was submitted to the CPUC and approved on January 20, 2010 and the Wildlife Agencies on November 10, 2010.
AQ-01b: Maintain construction equipment and use low-emission equipment	SDG&E will use available Tier 3 equipment, minimizing the use of Tier 2 equipment at the yard. Any portable equipment over 50 hp will be permitted with the local Air Pollution Control District (APCD) or the California Air Resources Control Board. Equipment run logs will be maintained on a daily basis and periodically submitted to the CPUC.
AQ-01h: Obtain NOx emission reduction credits or fund incentive programs prior to construction	Mitigation measure AQ-01h, which was required to achieve emission reductions to levels below the federal thresholds due to BLM activities, is no longer applicable. The emissions expected based on the PMR are less than the federal General Conformity de minimus thresholds for San Diego Air Basin as determined in the Memorandum of Determination issued by the CPUC and BLM in September 2010. For additional information refer to pages 8-9 of the memorandum. Emissions from activities on National Forest System lands are below the de minimus thresholds.
AQ-04a: Report quarterly the status of carbon credits	SDG&E submitted a proposal regarding greenhouse gas emissions off-sets to the CPUC on August 27, 2009. The emissions off-sets approach was conditionally approved on September 7, 2009. The CPUC sent an email approving the proposed off-set purchases on November 9, 2009, and SDG&E then purchased Climate Reserve Tonnes (CRTs) to satisfy this measure. Currently, SDG&E is in the process of retiring approximately 44,392 metric tons (48,934 short tons) of CRTs to offset the greenhouse gas emissions from Project construction. This action will satisfy SDG&E's mitigation obligation under AQ-04a. Documentation of the CRT retirement will be provided to the CPUC.
AQ-04c: Submit SF6 leak detection and repair program 90 days prior to construction	On April 2, 2010, the CPUC approved the submittals provided by SDG&E that documented its partnership with the U.S. EPA and development of a SF6 Leak Detection and Repair Program, which addressed the requirements included in this measure. The CPUC approval acknowledged satisfaction of this measure.
AQ-04c: Become a Partner in EPA's SF6 Partnership prior to construction.	The Partnership MOU between SDG&E and the U.S. EPA was established on February 24, 2010.
AQ-04c: Report SF6 emissions to CCAR	A SF6 Leak Detection and Repair Program was approved on March 12, 2010 and discusses the reporting procedures to the CCAR. SDG&E will implement the program and submit reports as required,
AQ-APM-02: Prohibit grading when wind exceeds 25 mph	This mitigation measure will be fulfilled during construction. SDG&E will prohibit construction grading on days when the wind gusts exceed 25 mph.
AQ-APM-02: Cover loads in trucks or maintain 2 feet of freeboard	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Install snow fence-type windbreaks	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Limit vehicle speeds to 15 mph on unpaved roads	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Water unpaved roads	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Apply soil stabilizers	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Contain exposed stockpiles of soil and other material	This mitigation measure will be fulfilled during construction.
AQ-APM-03: Use methods to minimize mud and dust tracking on paved roads	This mitigation measure will be fulfilled during construction. A Dust Control Plan was approved by the CPUC on January 20, 2010. Conditions of the Dust Control Plan will be implemented and enforced throughout the Project.



Mitigation Measure and APM	Status
AQ-APM-04: Encourage carpooling to job sites	The SWEAP video, approved by the CPUC on March 15, 2010, encourages carpooling. This video will be shown to all Project Personnel and enforced throughout all phases of the Project.
AQ-APM-05: Minimize vehicle idling time with common sense approach	The SWEAP video was approved by the CPUC on March 15, 2010. The video addresses vehicle idling. The video will be shown to all Project personnel and enforced throughout all phases of the Project.
AQ-APM-05: Conduct briefings on common sense vehicle use	This mitigation measure will be implemented during construction.
H-01k: File hazardous substance plan within 1 year of license issuance	This mitigation measure is only applicable to USFS-managed lands. The Hazardous Substances Control & Emergency Response Plan was approved by the USFS on March 11, 2011. SDG&E will comply with all Forest Service conditions as required by the Special Use Permit.
H-01k: Confine vehicles to roads identified in a Road and Traffic Management Plan	This mitigation measure is only applicable to USFS-managed lands. SDG&E will comply with all Forest Service conditions as required by the Special Use Permit and implement the approved Road and Transportation Management Plan.
H-01k: File an Erosion Control Measure Plan prior to construction	The NPDES permits and associated SWPPPs were submitted to the CPUC on September 15, 2010. The USFS acknowledged adequacy of the SWPPPs on March 2, 2011. The conditions of the permit and SWPPP, which address the requirements of this measure, will be implemented and enforced during construction to prevent and avoid hydrologic impacts.
H-01k: Submit NEPA analysis prior to ground disturbing work	The Final Environmental Impact Report/Environmental Impact Statement was submitted to the USFS. The Project Modification Report and Mapbook were approved by the USFS in the ROD dated July 9, 2010. This measure is only applicable to USFS-managed lands.
H-01k: Enter into a cost recovery agreement with the Forest Service	This measure is only applicable to USFS-managed lands. On May 4, 2009, SDG&E entered into a Cost Recovery Agreement (#09MJ-11050254201) for USFS review of SDG&E's proposal and application for the Special Use Permit.
H-01k: File a Water Resources Management Plan within 6 months of license issuance	SDG&E will control and monitor project-related effects to water resources on USFS land through the implementation of SWPPPs. The NPDES permits and associated SWPPPs were submitted to the CPUC on September 15, 2010. The USFS acknowledged adequacy of the SWPPPs on March 2, 2011.
H-01k: File a plan for ground and surface water management within 1 year of license issuance	A Water Use Study that discussed coordination efforts with local water districts was submitted for review on February 22, 2010. Groundwater supplies will not be used during project construction; therefore, this component of H-01k is not applicable.
H-01l: Submit a site-specific sediment control plan and SWPPP prior to construction	The SWPPP and NPDES permit associated with WDID #9 37C357500 were submitted to the CPUC and USFS on September 15, 2010. The conditions of the permit and SWPPP will be implemented and enforced during the construction to prevent and avoid hydrologic impacts.
H-02d: Provide vehicle and equipment maintenance log monthly	This mitigation measure will be implemented during construction. A vehicle and equipment maintenance log will be provided to the CPUC and BLM once monthly during project construction.
H-04b: Manage blasting near wells or springs with a Blasting Plan for each site	A Wells and Springs Survey was submitted to CPUC on July 7, 2010 to address this mitigation measure prior to construction. This report was approved by CPUC on September 2, 2010. During construction, if blasting is determined to be necessary near a surveyed well or spring, SDG&E's contractor will prepare a blasting plan that addresses protection of the nearby well or spring.
H-06a: Determine which towers require scour protection during design phase	SDG&E provided the CPUC with an engineering report, sealed by a civil engineer registered in the State of California, demonstrating which towers may reasonably be subject to erosion during the life of the project. The report also provided plans for protection from scour, as well as an engineering demonstration that the tower and associated structures will not induce erosion onto adjacent property. The report was approved by the CPUC on October 7, 2010.
H-06a: Submit evaluation and design plans 60 prior to constructing towers	SDG&E provided the CPUC with an engineering report, sealed by a civil engineer registered in the State of California, demonstrating which towers may reasonably be subject to erosion during the life of the project. The report also provided plans for protection from scour, as well as an engineering demonstration that the tower and associated structures will not induce erosion onto adjacent property. The report was approved by the CPUC on October 7, 2010.

Mitigation Measure and APM	Status
H-07a: Submit a Hazardous Substance Control and Emergency Response Plan 60 days prior to construction	<p>A memo was submitted to the CPUC for their administrative record on September 15, 2010 documenting compliance with this mitigation measure and provides the Waste Discharge Identification numbers assigned by the California State Water Resources Control Board. WDID numbers associated with Link 2 include: 937C358169 and 937C358216.</p> <p>Two site-specific SWPPPs have been developed for Link 2. These SWPPPs contain procedures (Section 8.0) to reduce the potential of spills and emergency response information to ensure quick and safe clean-up of spills. In addition, hazardous materials management is addressed in the Spill Prevention, Control and Countermeasure (SPCC) plans and Hazardous Materials Business Plans developed for the Project.</p>
WQ-APM-01: Minimize disturbance to water resources	This mitigation measure will be implemented during construction. Grading plans, which were submitted to the CPUC on September 2, 2010, demonstrate how disturbance to water resources will be minimized. In addition, the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, address changes to the final alignment to reduce impacts to water resources.
WQ-APM-02: Avoid sensitive water features	Impacts to jurisdictional features were considered during design of the project and have been avoided, to the extent feasible. The locations of the structures are shown in the Project Modification Report and Mapbook, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-2, on August 30, 2010.
WQ-APM-03: Clearly mark restricted sites prior to construction	Specific sites, as identified by authorized agencies, will be staked and flagged by a qualified biologist prior to construction and documented in the weekly monitoring report. Surface disturbing activities will not be allowed to begin until the sites have been clearly marked, fenced or flagged to delineate those areas specifically allowed for use and those areas that are restricted.
WQ-APM-03: Train construction personnel to recognize markers	The SWEAP video, which was approved by the CPUC on March 15, 2010, includes recognition of markers and equipment movement restrictions. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
WQ-APM-04: Maintain adequate distance from stream banks	This mitigation measure will be fulfilled during construction.
WQ-APM-04: Use existing bridges to cross major streams	This mitigation measure will be fulfilled during construction.
WQ-APM-04: Span riparian areas where feasible	Impacts to surface water, riparian areas, and floodplains were considered during design of the project and have been avoided or will be spanned, to the extent feasible. Structure locations are shown in the Project Modification Report and Mapbook, which were approved by CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
WQ-APM-04: Prepare and implement erosion control BMPs per the SWPPP	The SWPPPs and NPDES permits associated with the following WDID #s 937C358169 and 937C358216 were submitted to the CPUC on September 15, 2010. In addition, SWPPPs applicable to USFS land were submitted to the USFS on March 2, 2011. The USFS acknowledged adequacy of the SWPPPs on March 11, 2011. The conditions of the permit and SWPPP will be implemented and enforced during construction to prevent and avoid hydrologic impacts.
WQ-APM-04: Select upland pull sites to minimize disturbance to water resources	Impacts to surface water, riparian areas, wetlands, and floodplains were considered during design of the project and have been avoided to the extent feasible. The locations of the pull sites are shown in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-4, on August 30, 2010.
WQ-APM-04: Do not place structures in streambeds or drainage channels	Impacts to surface water, riparian areas, wetlands, and floodplains were considered during design of the project and have been avoided to the extent feasible. The locations of the pull sites are shown in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-4, on August 30, 2010.

Mitigation Measure and APM	Status
WQ-APM-05: Construct stream crossings and develop a mitigation and restoration plan	SDG&E submitted a HMMP on July 14, 2010 as outlined in this mitigation measure. This plan was revised and provided to the agencies on October 7, 2010. The HMMP was accepted by the Army Corps of Engineers, California Department of Fish and Game, and State Water Resources Control Board in concept; however, the agencies requested that the plan be reformatted to break out each mitigation property. The revised plans (one for each of the five mitigation sites) were submitted to the agencies on November 30, 2010 and accepted on December 16, 2010. The USFS reviewed and acknowledged the HMMP on February 7, 2011 (Exhibit 13 of the SUP). This plan was prepared by a qualified habitat restoration specialist and will be implemented by a qualified habitat restoration specialist. The preconstruction component of this measure is complete.
WQ-APM-06: Avoid designated surface water protection areas	The final project alignment is in the vicinity of the following source water; Lake Morena, Barrett Lake, El Capitan Reservoir, and San Vicente Reservoir. All these source waters will be avoided. The nearest source water to a project facility is the El Capitan Reservoir (Link 5). Structure CP72-2 (PMR mapbook page MS-119) is within 350 feet of the reservoir. The pullsite adjacent to the structure is approximately 100 feet from the reservoir. The next nearest source water to a project facility is the San Vicente Reservoir (Link 5), which is approximately 1650 feet from structure CP39 (PMR mapbook page MS-132). All other source waters are at least 1 mile from a project facility.
WQ-APM-06: No diversions, detention, retention, or consumption of surface waters	This mitigation measure will be fulfilled during construction.
WQ-APM-06: Conduct interviews with affected landowners prior to construction	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-06: Negotiate with landowners to provide alternative water supplies	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-08: Obtain permits prior to discharging groundwater into storm drains	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-08: Contain and sample if dewatering and then release water according to test results	Discharge of groundwater and dewatering is not anticipated during construction. If it is later determined that dewatering is necessary, SDG&E will implement this measure as described.
WQ-APM-09: Storing fuels and hazardous materials prohibited near wells	This mitigation measure will be fulfilled during construction.
WQ-APM-10: Minimize stream bank erosion	See H-06a
WQ-APM-13: Dispose trash into enclosed containment	A trash enclosure will be provided during construction.
WQ-APM-13: Remove hazardous materials to a hazardous waste facility and promptly clean up if released onto ground	This mitigation measure will be fulfilled during construction.
WQ-APM-14: Obtain NPDES permit and implement a SWPPP	The SWPPPs and NPDES permits associated with the following WDID #s 937C358169 and 937C358216 were submitted to the CPUC on September 15, 2010. In addition, SWPPPs applicable to USFS land were submitted to the USFS on March 2, 2011. The USFS acknowledged adequacy of the SWPPPs on March 11, 2011. The conditions of the permits and SWPPPs will be implemented and enforced during the construction to prevent and avoid hydrologic impacts.
WQ-APM-15: Adjust route of access roads to avoid sensitive features	Revised 401, 404 and 1602 permit applications were submitted for review and approval on March 30, 2010. SDG&E received the signed 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was received on January 7, 2011. Also see BIO-APM-05.
WQ-APM-15: Use existing roads or cross-country access routes	This mitigation measure will be fulfilled during construction.
WQ-APM-15: Clearly mark approved construction traffic routes	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
WQ-APM-16: Conduct site-specific assessment where sensitive water resources cannot be avoided	Biological, hydrology and cultural resource assessments were completed in accordance with the ACOE and CDFG guidelines. Permit applications for ACOE 404 Nationwide 12, CDFG 1600 Streambed Alteration Agreement and Regional Water Quality Control Board 401 Water Quality Certification were submitted on March 30, 2010. SDG&E received the signed 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement on November 17, 2010. The ACOE 404 permit was received on January 7, 2011.
WQ-APM-16: Locate staging/storage areas outside of riparian areas	SDG&E has located staging/storage areas for equipment and materials outside of riparian areas. This is demonstrated in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
WQ-APM-16: Obtain a Streambed Alteration Agreement when constructing new access through streambeds	The California Department of Fish and Game issued a Streambed Alteration Agreement (SAA) on November 17, 2010. A copy of the SAA will be maintained onsite during construction.
G-03a: Submit design-level geotechnical studies 60 day prior to final project design	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. CPUC issued a memorandum on June 18, 2010 confirming that this report satisfies the requirements of this mitigation measure.
G-04a: Submit site-specific seismic analyses 60 days prior to final project design	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. An explanation of structure design based on windloading instead of seismic loading is included in the Executive Summary. The final project design is based on the findings of this report. CPUC's geotechnical consultant issued a memorandum on June 18, 2010 confirming that this report satisfies the requirements of this mitigation measure.
G-04b: Submit liquefaction studies 60 days prior to final project design	The Geotechnical and Geologic Hazards Investigation Report (dated October 16, 2009) was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. SDG&E will conduct additional geotechnical exploration, including borings, as soon as authorization is received from the appropriate land-managing agency. A supplemental report will be provided prior to installation of structures.
G-06a: Submit slope stability analyses 60 days prior to construction	The Geotechnical and Geologic Hazards Investigation Report (dated October 16, 2009) was submitted to CPUC for review and approval on April 19, 2010. A report titled Geotechnical Evaluation, Access Roads and Structure Pads (dated October 16, 2009) was submitted to CPUC for review and approval on May 28, 2010. These reports included slope stability analyses as described in this measure. The final project design is based on the findings of these reports. As required by the CPUC memo dated June 18, 2010, additional investigations for landslide and rock fall hazards will occur in areas along Segment 8A of Link 2 prior to construction in this area.
GEO-APM-01: No widening or grading of existing access roads if soil is sensitive to disturbance	The FEIR/EIS identified sensitive soils as "natural sand sources that supply the material for sand dune systems throughout the ABDSP." The project no longer impacts ABDSP and there are no sand dune systems along the project route; therefore, this mitigation measure does not apply.
GEO-APM-02: Minimize soil disturbance or return to pre-construction contours and condition	This mitigation measure will be implemented during construction.
GEO-APM-03: Avoid placing structures in areas of high shrink/swell potential	The Geotechnical and Geologic Hazards Investigation Report was submitted to CPUC for review and approval on April 19, 2010. The report determined that no areas of high shrink/swell are present. The CPUC geotechnical consultant issued a memorandum on June 18, 2010 confirming concurrence with this finding. Therefore, this measure does not apply.
GEO-APM-04: Place structures in geologically stable areas	See G-6a
GEO-APM-05: Implement construction to avoid or minimize new soil disturbance	The preconstruction portion of this measure is complete. Final grading and plan and profiles were submitted to the CPUC on September 2, 2010 and approved by the USFS on March 11, 2011. Project construction activities were designed to avoid or minimize new disturbance and erosion on manufactured slopes. SDG&E will adhere to the grading plans and the SWPPP during construction.



Mitigation Measure and APM	Status
GEO-APM-05: Maintain cut and fill slopes with erosion control and repair	This mitigation measure will be fulfilled during construction.
GEO-APM-06: Perform surface restoration for erosion control and re-vegetation	Erosion control will be implemented under Project site-specific SWPPPs and shall include areas where re-contouring and substantial ground disturbance will be required. This mitigation measure will be fulfilled during construction.
GEO-APM-08: Remove or stabilize boulders and span structures over landslide areas	This mitigation measure will be fulfilled during construction.
GEO-APM-09: Implement field mitigation efforts if paleontological resources are encountered	This mitigation measure will be fulfilled during construction.
GEO-APM-09: Consult with agencies if paleontological resources cannot be avoided	This mitigation measure will be fulfilled during construction.
PSU-APM-01: Coordinate with utility providers	There are no third party utilities that will be affected by the project on Link 2; therefore, this mitigation measure is not applicable. A memo was submitted to the CPUC documenting compliance with Mitigation Measure PSU-APM-1 on October 14, 2010 and approved November 5, 2010.
PSU-APM-02: Notify Underground Service Alert 48 hours prior to earth-disturbing activities	This mitigation measure will be implemented during construction.
PSU-APM-03: Minimize disruption to response times and access for emergency and police services	This mitigation measure will be implemented during construction.
S-02a: Provide copies of posted public notices of planned outages	This measure will be implemented during construction. Copies of notices and dates of public notification shall be provided to the CPUC and BLM prior to any planned outage.
S-03a: Provide documentation to show amount of waste recycled	This mitigation measure will be implemented during and following the completion of construction.
S-03b: Coordinate with water districts	A Water Use Study that discussed coordination efforts with local water districts was submitted for review on February 22, 2010. In addition, an Addendum to the 23 April 2010 Water Resources Availability Study (dated March 18, 2011) was submitted on March 21, 2011. SDG&E will obtain a variance for the use of reclaimed water outside of the Padre Dam and City of San Diego jurisdictions. Potable water will be used until the variance is obtained. Copies of variances will be submitted to the CPUC prior to use of reclaimed water.
S-03b: Provide letter 60 days prior to construction describing availability of reclaimed water and efforts to obtain for use	A Water Use Study describing the availability of reclaimed water was submitted on February 22, 2010. In addition, and Addendum to the 23 April 2010 Water Resources Availability Study (dated March 18, 2011) was submitted on March 21, 2011.
F-01a: Submit draft Construction Fire Prevention Plan 90 days prior to construction	A Construction Fire Plan was acknowledged by the CAL FIRE Chief and was approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011.
F-01a: Receive approval of final Plan 30 days prior to construction	A Construction Fire Plan was acknowledged by the CAL FIRE Chief and approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011.
F-01a: Implement Fire Plan during construction and maintenance	The preconstruction component of this measure has been completed. A Construction Fire Plan was acknowledged by the CAL FIRE Chief and was approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011. The Construction Fire Plan includes the requirements of this mitigation measure and will be implemented and enforced during construction.
F-01c: Do not obstruct firefighting equipment or crews	This measure will be implemented during construction.
F-01c: Coordinate fire suppression activities and unobstruct access roads at all times	This measure will be implemented during construction.



Mitigation Measure and APM	Status
F-01c: Cease construction in work areas if fire within 1,000 feet	This measure will be implemented during construction.
F-01c: Contact dispatch centers 2 days prior to helicopter use	This measure will be implemented during construction.
F-01d: Clear and spread onsite dead and decaying vegetation prior to construction and maintenance	SDG&E will clear dead and decaying vegetation from work areas prior to initiating grading activities and/or maintenance work. Clearing of dead and decaying vegetation will be monitored during construction and observations will be summarized and submitted to the CPUC in the weekly report.
F-01e: Contribute an annual sum to be distributed as homeowner grants	This measure will be fulfilled prior to energizing the transmission line. SDG&E has established a Collection Agreement with USFS for receiving the funds required by Record of Decision and is working on subordinate agreements for the Defensible Space Fuel Treatment Plan (Special Use Permit Exhibit 21) and the Cameron Type 1 Helicopter Base Plan (Special Use Permit Exhibit 22).
F-02b: Relocate 69 kV lines onto non-specular steel poles using vertical conductor construction	SDG&E has incorporated non-specular steel poles into the project design in compliance with this mitigation measure. SDG&E provided the CPUC with final construction drawings on September 2, 2010.
F-03a: Contribute annually to Powerline Firefighting Mitigation Fund	On-going efforts with CAL FIRE and local fire agencies are in progress to establish and provide oversight to the Powerline Firefighting Mitigation Fund. In addition, SDG&E has established a Collection Agreement with the USFS for receiving the funds required by the Record of Decision. The final agreement will be included in the Cameron Type 1 Helicopter Base Plan (Special Use Permit Exhibit 22). This is measure will be fulfilled prior to energizing the transmission line.
F-03b: Create and implement a Multi-agency Fire Prevention MOU	SDG&E has prepared a draft Fire Prevention MOU. Draft comments from CAL FIRE and local fire agencies have been incorporated and on-going efforts are in progress to refine the draft MOU.

# Attachment A: Preconstruction Status Report

Friday, July 29, 2011

5:13:44 PM

## Report Criteria:

AGENCY: USFS

LOCATION: Link 5

TIMING: Design; Design and During; During; During and Post; Pre; Pre and During; Pre and Post; Pre, During, and Post

 -To Be Implemented During Construction

 -Pending OR To Be Implemented Immediately Prior to Construction

 -Complete

 -Not Applicable

Note: This table contains U.S. Fish and Wildlife Service Conservation Measures in addition to the mitigation measures and applicant proposed mitigation measures from the Final EIS/EIR. The conservation measures are denoted in the table as G-CM-# or SS-G-#.

The mitigation measure and APM numbers listed in this table reference the actual measures in the MMCRP. The text after the measure number provides a summary of specific tasks within each measure, but is not intended to provide the entire language contained within the MMCRP. Please note that several measures include multiple entries in this table. These multiple entries break out the various requirements or tasks contained within that measure. Please reference the MMCRP for the actual requirements for each measure or visit [www.cpuc.ca.gov/Environment/info/aspen/sunrise](http://www.cpuc.ca.gov/Environment/info/aspen/sunrise).

Mitigation Measure and APM	Status
B-01a: Locate surface disturbing components in previously disturbed areas	The preconstruction portion of this measure is complete. Sensitive resources were mapped using GIS and project structures and work areas were designed to avoid these resources, to the extent possible. The Mapbook and PMR, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, shows both sensitive resources and the location of areas that may be disturbed. During construction, vegetation and soil impacts will be minimized.
B-01a: Use construction mats to minimize disturbance	This mitigation measure will be fulfilled during construction.
B-01a: Double mitigation ratios on lands already in mitigation	The Project will impact sensitive vegetation communities on lands already in use as mitigation. A Habitat Acquisition Plan, which discusses doubled mitigation ratios on lands already in mitigation, was submitted for review and approval on February 4, 2010. This plan was approved by the Wildlife Agencies as described in the G-CM-17 of the reinitiated Biological Opinion, dated November 10, 2010.
B-01a: Delineate all limits of construction	The limits of construction will be delineated with orange construction fencing or flagging prior to the start of construction.
B-01a: Coordinate gate installation 60 days prior to construction	SDG&E submitted a memo to CPUC for the administrative record on October 26, 2010 to document coordination of access road gate installation prior to construction.
B-01a: Submit documentation of coordination with the administering agency of the road/trail 30 days prior to construction	SDG&E submitted a memo to CPUC for the administrative record on October 26, 2010 to document coordination of access road gate installation prior to construction.
B-01a: Post signs on access road gates prohibiting unauthorized users	This mitigation measure will be fulfilled during construction.
B-01a: Provide funding for off-road vehicle patrols	SDG&E has coordinated with land managers regarding unauthorized use of access roads by off-road vehicle enthusiasts, including funding of off-road vehicle patrols and gate installation. A memo was submitted to CPUC for the administrative record on October 26, 2010 documenting coordination. In addition, SDG&E has an approved collection agreement with the USFS and is negotiating a subordinate agreement for off-road vehicles.
B-01a: Mitigate for impacts by unauthorized activity (e.g., exceeding approved construction footprints)	This mitigation measure will be fulfilled during construction. The mitigation ratios for unauthorized impacts have been eliminated as described in Conservation Measure G-CM-6 of the reinitiated Biological Opinion, dated November 10, 2010.

Mitigation Measure and APM	Status
B-01a: Submit a Habitat Restoration Plan	SDG&E submitted the Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas to the CPUC, BLM, USFS and Wildlife Agencies for review and approval on September 24, 2010. A revised plan incorporating agency comments was resubmitted on October 25, 2010. This plan was approved by the CPUC on November 3, 2010 and by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010), as noted in Conservation Measure G-CM-16 (page 33 of the BO). The USFS approved the plan on April 7, 2011.
B-01a: Mitigate for impacted habitat	In coordination with the appropriate agencies, off-site purchase and dedication of habitat shall be provided for areas where habitat restoration cannot meet mitigation requirements as outlined in this measure. This will be determined during and post construction during restoration activities. For impacts to habitat on National Forest System lands, mitigation ratios required in the USFS ROD will be adhered to.
B-01a: Mitigate for the loss of native trees and tree trimming	The Wildlife Agencies have agreed that conservation of woodland areas on mitigation lands included in the Habitat Acquisition Plan/Habitat Management Plan is acceptable mitigation for impacts to native trees. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Submit a Habitat Acquisition Plan 120 days prior to construction	The Habitat Acquisition Plan was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service for review and approval on February 4, 2010. The HAP was further refined and resubmitted on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HAP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Submit a Habitat Management Plan	The Habitat Management Plan was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service for review and approval on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HMP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01a: Include legal descriptions of all legal parcels	The HMP, prepared by a qualified biologist, was submitted to the CPUC, BLM, Wildlife Agencies, and USDA Forest Service on September 22, 2010 for review and approval. All the components in this mitigation measure have been included in the HMP. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 7, 2011.
B-01c: Provide biological monitoring and perform periodic inspections once or twice a week	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01c: Send weekly monitoring reports	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01c: Qualified biologists shall handle all environmental issues and have the authority to issue stop work orders	A qualified biological monitor with the authority to issue stop work orders will be on-site during construction activities and weekly monitoring reports will be prepared. This mitigation measure will be fulfilled during construction.
B-01k: Re-seed all public and private natural areas burned due to project-caused fire	This mitigation measure will be fulfilled during and post construction, as needed.
B-01k: Develop re-seeding plan	This mitigation measure will be fulfilled during and post construction, as needed.
B-01l: Minimize impacts to the RCA between Structures 184 and 187 of the BCD South Option.	SDG&E has coordinated with the USFS to minimize impacts to RCAs. The Project Modification Report (PMR) and Mapbook illustrate modifications that were made to the alignment to reduce overall impacts to RCAs. The Mapbook and PMR were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
B-02a: Avoid impacts to jurisdictional areas	Impacts to jurisdictional features were considered during the design of the project and have been avoided, to the extent feasible. The location of each jurisdictional drainage and potential impact was described in the Preliminary Jurisdictional Determination report that was accepted by the Army Corps of Engineers on August 27, 2010.

Mitigation Measure and APM	Status
B-02a: Mitigate impacted areas as required by wetland permitting	SDG&E received Nationwide Permit #12 under Section 404 of the Clean Water Act on January 7, 2011 for impacts to waters of the U.S., including wetlands. Attachment 2 of the permit provides a summary of the impacts to wetlands and the required mitigation. Enclosures 4 and 5 of the permit provide detailed lists of the wetlands and their locations.
B-02a: Prepare jurisdictional delineation and impact assessment	The entire project area was surveyed and impacts to resources under the jurisdiction of the ACOE, Regional Water Boards, State Water Board, and CDFG were determined. A revised Preliminary Jurisdictional Determination was submitted on February 24, 2010 and accepted as part of the 404 permit application on August 27, 2010. Final Grading Plans and Plan and Profile Drawings were submitted to the CPUC on September 2, 2010 for the administrative record. The USFS approved the construction plans and drawings on March 11, 2011.
B-02a: Mitigate for jurisdictional wetland habitat	SDG&E received Nationwide Permit #12 under Section 404 of the Clean Water Act on January 7, 2011 for impacts to waters of the U.S., including wetlands. Mitigation requirements and ratios are stipulated on pages 2 through 8 of the permit.
B-02a: Obtain wetland permits prior to construction	The 401 Water Quality Certification was issued on November 15, 2010. The California Department of Fish and Game issued a Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was issued on January 7, 2011.
B-02a: Delineate all limits of construction	The Project Modification Report and Mapbook, which was submitted to the CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and the USFS in the ROD on July 9, 2010, illustrates the limits of construction. Limits of construction will be delineated immediately prior to construction with orange construction fencing, flagging, or silt fencing.
B-02a: Install gates and signs at entrances of access roads	This mitigation measure will be fulfilled during construction.
B-02a: Mitigate impacts from unauthorized activity	This mitigation measure will be fulfilled during construction.
B-02a: Submit and implement Wetland Mitigation Plan	SDG&E submitted a HMMP on July 14, 2010 as outlined in this mitigation measure. This plan was revised and provided to the agencies on October 7, 2010. The HMMP was accepted by the Army Corps of Engineers, California Department of Fish and Game, and State Water Resources Control Board in concept; however, the agencies requested that the plan be reformatted to break out each mitigation property. The revised plans (one for each of the five mitigation sites) were submitted to the agencies on November 30, 2010 and accepted on December 16, 2010. The USFS reviewed and acknowledged the HMMP on February 7, 2011 (Exhibit 13 of the SUP). This plan was prepared by a qualified habitat restoration specialist and will be implemented by a qualified habitat restoration specialist. The preconstruction component of this measure is complete.
B-02a: Submit a Habitat Management Plan that includes jurisdictional areas	The Habitat Management Plan (HMP) was submitted to the CPUC, BLM, Wildlife Agencies, and the USDA Forest Service for review and approval on September 22, 2010. The plan includes the requirements as outlined in this mitigation measure. The HMP was approved by the Wildlife Agencies as stated in the reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was approved by the USFS on March 4, 2011. The HMMP, which was updated on May 9, 2011, was approved by the Corps on June 27, 2011 and by the SWRCB on June 13, 2011.
B-03a: Submit and implement a Weed Control Plan	The Weed Control Plan was approved by the BLM and CPUC on September 8, 2010. Additional comments from the USFWS, City of San Diego, and USFS were incorporated into the plan, which was resubmitted to all agencies on November 10, 2010. The Weed Control Plan was approved by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010). The USFS approved the Weed Control Plan on January 7, 2011.
B-03a: Conduct pre-construction weed inventory	The Weed Control Plan was approved by the BLM and CPUC on September 8, 2010. Additional comments from the USFWS, City of San Diego, and USFS were incorporated into the plan, which was resubmitted to all agencies on November 10, 2010. The Weed Control Plan was approved by the Wildlife Agencies in the revised Biological Opinion (dated November 10, 2010). The USFS approved the Weed Control Plan on January 7, 2011.
B-03a: Implement weed control treatments	The Weed Control Plan will be implemented immediately prior to, during and following construction as appropriate for the weed species being treated.

Mitigation Measure and APM	Status
B-03a: Annually survey for new invasive weeds for 2 years	The Weed Control Plan addresses surveying for invasive exotic species during construction and annually following construction to monitor previously-identified and treated populations and to identify new invasive weed populations for the life of the Project. Treatment of weeds will occur on a minimum annual basis unless otherwise approved by the PCA, San Diego County Agricultural Commissioner, and Cal-IPC. This mitigation measure will be fulfilled during/post construction.
B-03a: Ensure all seeds and other material are certified weed free	This mitigation measure will be fulfilled during/post construction.
B-03a: Wash vehicles and equipment	This mitigation measure will be fulfilled during/post construction.
B-03a: Submit monthly wash logs during construction and annual logs during operation/maintenance	This mitigation measure will be fulfilled during/post construction.
B-05a: Conduct surveys in the spring and submit a special status plant report	Rare plant surveys were completed by qualified biologists in 2009 and 2010. The 2010 Rare Plant Survey Report, which included all project areas as described in the Project Modification Report, was approved by the USFWS on December 22, 2010 and the CPUC on January 19, 2011.
B-05a: Stake or flag special status plant populations	Special status plant populations will be staked or flagged immediately prior to construction by a qualified biologist.
B-05a: Avoid impacts to federal and state listed plant species	The Project Modification Report and Mapbook, which was submitted on May 14, 2010 and approved by the BLM and the CPUC on September 22, 2010 through a Determination Memorandum and the USFS in the ROD dated July 9, 2010, shows both sensitive resources and the locations of sensitive resource areas that may be disturbed. As noted in the revised Biological Opinion, dated November 10, 2010, SDG&E will not impact any listed plant species during construction activities for this project (see pages 3-4 of the Biological Opinion).
B-05a: Submit a Restoration Plan for federal and state listed plants	No federal or state listed plants will be impacted by construction activities on the project, but moderately sensitive plant species will be affected; therefore, SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Avoid impacts to moderately sensitive plant species	Moderately sensitive plant species will be affected; therefore, SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Submit a Restoration Plan for special status plant species	No federal or state listed plant will be impacted by construction activities on the project; however moderately sensitive plant species will be affected. SDG&E has prepared a Restoration Plan for Special Status Plants. This plan was submitted to the agencies for review on November 29, 2010 and approved on January 3, 2011. The USFS approved the plan on April 7, 2011.
B-05a: Submit a Habitat Management Plan that addresses offsite mitigation for rare plants	A Habitat Management Plan was submitted to the appropriate agencies for review and approval on September 22, 2010 as outlined in this measure. The Habitat Acquisition Plan and Habitat Management Plan were approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17). The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07a: Cover excavations or install fencing when not in use	Steep-walled trenches or excavations will be covered, fencing will be installed or sloped on one end (i.e., ramped) to prevent the entrapment of wildlife during construction. This mitigation measure will be fulfilled during construction.
B-07a: Inspect excavations 3 times per day and before backfilling	A qualified biological monitor will inspect any open trenches as required. This mitigation measure will be fulfilled during construction.
B-07a: Look under vehicles and equipment before moving for presence of wildlife	Workers will be instructed to look under vehicles for wildlife before movement and to report mortality or injury of a listed species within 48 hours. No vehicles or equipment will be moved until the animal has left or is removed by a qualified biologist. This mitigation measure will be fulfilled during construction.
B-07a: Contact within 48 hours of finding a dead or injured listed species	A qualified biological monitor will submit monitoring reports as required by this measure. This mitigation measure will be fulfilled during construction.



Mitigation Measure and APM	Status
B-07c: Limit activities in PBS critical habitat to October 1 - December 31, unless otherwise approved by the Wildlife Agencies, or maintain 1,500-foot ceiling for flights	After reinitiation of consultation with the USFWS, this mitigation measure has been revised to permit construction during a larger work window in Peninsular bighorn sheep habitat. See Biological Opinion, Sunrise Powerlink Project (2010), Species Specific Conservation Measure 16. BLM has found that the request for an extended work window is consistent with the Final EIR/EIS. Determination of NEPA Adequacy (DNA), Sunrise Powerlink Project: Project Modifications (Sept. 2010). This mitigation measure, as revised, will be fulfilled during construction. SDG&E will have a USFWS-approved bighorn sheep monitor conduct surveys prior to any land survey activities and monitor the land surveyors to minimize impacts to bighorn sheep.
B-07e: Conduct grading or brushing outside of least Bell's vireo and southwestern willow flycatcher breeding season September 16-March 14	Grading and brushing in least Bell's vireo and southwestern willow flycatcher habitat will occur as outlined in this mitigation measure.
B-07e: Survey for least Bells' vireo and southwestern willow flycatcher within 10 days prior to initiating work in area	The 2009 Riparian Bird Survey Report was submitted to CPUC for review on January 10, 2010. The 2010 Riparian Bird Survey Report was submitted to the agencies on October 28, 2010 and approved by the CPUC on November 2, 2010 and the Wildlife Agencies on November 10, 2010. Least Bell's vireo were observed near milepost 101. No construction impacts are expected to occur to least Bell's vireo, but preconstruction surveys will be conducted as required by this mitigation measure.
B-07e: Survey once per week if least Bell's vireo and/or southwestern willow flycatcher are present	This mitigation measure will be fulfilled during construction.
B-07e: Establish 300-foot buffer if active nest found	This mitigation measure will be fulfilled during construction.
B-07e: Monitor noise if construction occurs within buffer	This mitigation measure will be fulfilled during construction.
B-07e: Provide mitigation for temporary and permanent impacts	A Habitat Acquisition Plan was submitted to the CPUC for review and approval on February 4, 2010. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The Habitat Acquisition Plan discusses mitigation for impacts to least Bell's vireo occupied habitat, although no permanent impacts are expected to occur to occupied or critical habitat on Link 5. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07e: Submit a Habitat Management Plan that addresses impacts to least Bell's vireo and southwestern willow flycatcher	The Riparian Birds Survey Report 2009 was submitted to CPUC for review on January 14, 2010. The 2010 Riparian Bird Survey Report was submitted to CPUC on October 28, 2010. A Habitat Management Plan was submitted to the CPUC on September 22, 2010. The plan was approved by the Wildlife Agencies as described in G-CM-17 of the reinitiated Biological Opinion, dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07h: No activities within 4,000 ft. of eagle nest during breeding season	This measure will be implemented during and post construction. SDG&E received a letter from the USFWS on December 8, 2010 stating that Sunrise's Avian Plan "is appropriate in its adaptive approach to avoid and minimize the potential take of migratory birds, hawks and eagles." As a result, no BGEPA permit is needed at this time.
B-07i: Determine suitable habitat areas of QCB	Per USFWS QCB protocol, site assessments for suitable QCB habitat were conducted in 2009 and 2010 by USFWS permitted biologists. The site assessments identified areas requiring protocol surveys. QCB protocol surveys were completed by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. These surveys results were accepted by the Wildlife Agencies (as described in the revised Biological Opinion dated November 10, 2010) and by the CPUC on January 21, 2011.
B-07i: Conduct pre-construction protocol survey for QCB	Per USFWS QCB protocol, QCB surveys were performed in 2009 by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found by mileposts 116.5, 110, 79 to 80, 74.5, 71, and 36. These surveys results were accepted by the Wildlife Agencies (as described in the revised Biological Opinion dated November 10, 2010) and by the CPUC on January 21, 2011.

Mitigation Measure and APM	Status
B-07i: Mitigation required if survey non-conclusive for determining QCB presence	Per USFWS QCB protocol, site assessments for suitable QCB habitat were conducted in 2009 and 2010 by USFWS permitted biologists. The site assessments identified areas requiring protocol surveys. QCB protocol surveys were completed by a USFWS permitted biologist and a revised 2009 QCB Focused Survey Report was submitted to CPUC for review January 14, 2010. Survey results indicate QCB were found near mileposts 110 and 116 on Link 5. All QCB surveys have been conclusive for the project.
B-07i: Submit a Habitat Management Plan that addresses offsite mitigation for QCB habitat	Survey results indicate QCB were found near mileposts 110 and 116 on Link 5. A Habitat Management Plan has been submitted to the agencies for approval on September 22, 2010. This plan was approved by the Wildlife Agencies on November 10, 2010 as stated in the revised Biological Opinion. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07j: Conduct pre-construction protocol survey for arroyo toad	USFWS protocol-level arroyo toad (ARTO) surveys were conducted in 2009 and 2010. The 2009 ARTO Survey Report was submitted to the CPUC on October 2, 2009 and re-submitted to CPUC on January 14, 2010.  The 2009 and 2010 surveys have concluded that no ARTO have been observed and no critical or proposed habitat exists in Link 1. This has been confirmed by the Wildlife Agencies as noted in Table 7 of the revised Biological Opinion dated November 10, 2010 (see page 51).
B-07j: Remove toad riparian breeding habitat October-December	This mitigation measure will be fulfilled during construction.
B-07j: Install exclusion fencing if toad is present and monitor daily during construction	If arroyo toads are present, or assumed to be present, exclusion fencing will be installed as outlined in this measure. Exclusion fencing will be monitored during construction and observations will be summarized and submitted to the CPUC in the weekly report.
B-07j: Conduct pre- and post-exclusion fencing surveys	Clearance surveys shall occur as outlined in this measure.
B-07j: Conduct daily surveys in the morning prior to work activities	This measure will be implemented during and post construction.
B-07j: Mitigate for the loss of occupied arroyo toad habitat	Loss of arroyo toad-occupied habitat shall be mitigated as outlined in this measure.
B-07j: Submit a Habitat Management Plan that includes arroyo toad habitat	A Habitat Management Plan was submitted to the appropriate agencies for review and approval on September 22, 2010. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion (G-CM-17). The CNF HAPHMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
B-07l: Conduct brushing or grading in occupied gnatcatcher habitat outside breeding season February 15-August 30	This mitigation measure will be fulfilled during construction.
B-07l: Conduct gnatcatcher survey within 10 days of initiating other activities in area and submit to agencies	Nesting surveys for coastal California gnatcatcher will be conducted by a qualified biologist within 10 days of construction. Results of the surveys will be submitted to Wildlife Agencies for review and approval.
B-07l: Establish 300-foot buffer if active nest found	This mitigation measure will be fulfilled during construction.
B-07l: Mitigate the loss of occupied habitat and unoccupied designated critical habitat	The Habitat Acquisition Plan discusses mitigation for impacted habitat. A draft Habitat Acquisition Plan was submitted to the CPUC for review and approval on February 4, 2010. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010. This mitigation will be implemented during construction.
B-07l: Submit a Habitat Management Plan that addresses the coastal California gnatcatcher and its habitat	A Habitat Management Plan has been submitted to the appropriate agencies for review and approval on September 22, 2010. This plan was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010.
B-08a: Clear vegetation August 16-January 14 and remove/trim trees September 16-December 31	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
B-08a: Conduct pre-construction avian breeding surveys within 10 days of initiating work January 15-August 15 and submit surveys	Within 7 calendar days prior to construction, a qualified biologist will conduct avian breeding surveys for construction activities occurring within the general avian breeding season. Results of the surveys will be submitted to the Wildlife Agencies for review and approval.
B-08a: Conduct pre-construction raptor breeding surveys within 10 days of initiating work January 1-September 15 and submit surveys	Pre-construction surveys for active raptor nests will be conducted by a qualified biologist within 7 days of construction if activities will occur during the raptor breeding season. Results of the surveys will be submitted to the Wildlife Agencies for review and approval.
B-08a: Proceed with construction if no active nests observed	This mitigation measure will be fulfilled during construction.
B-08a: Proceed with construction if active nests found per conditions	If active nests are identified, a buffer as defined in this measure will be established and monitored on a weekly basis to allow construction to proceed. This measure will be implemented during construction.
B-08a: Monitor active nests weekly until fledged	This mitigation measure will be fulfilled during construction.
B-08a: Report survey results and monitoring	Results of surveys will be submitted as required and a qualified biologist will continue to monitor the site as appropriate. Weekly monitoring reports will be submitted to the agencies.
B-09a: Conduct habitat assessment for bat nursery colonies prior to construction	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010.
B-09a: Conduct survey for bat nursery colonies prior to construction	A CDFG-approved biologist conducted a survey for bat nursery colonies. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010.
B-09a: No direct impacts to bat nursery colonies allowed	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. An amendment to the 2009 Bat Survey Report was submitted on October 1, 2010 and approved by the CPUC on October 11, 2010. If bat nursery colonies are observed during construction, this mitigation measure will be implemented.
B-09a: Implement methods to minimize indirect impacts to bat nursery colonies	A CDFG-approved biologist conducted day and night surveys. No bat nursery colonies were observed during the 2009 bat surveys performed along the Sunrise Powerlink alignment. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010. A 2009 Bat Survey Report Amendment-Report and 2009 Bat Survey Amendment - Appendix 1 were submitted on October 1, 2010. The amended report was approved by CPUC on October 11, 2010. If bat nursery colonies are observed during construction, this mitigation measure will be implemented.
B-10a: Install transmission lines using Avian Power Line Interaction Committee standards	SDG&E will install transmission lines as outlined in this mitigation measure. Where diverters/markers have been installed, a study will be funded as outlined in this measure. The Avian Monitoring and Mitigation Plan, which was developed pursuant to the requirements described in this measure, was approved by the USFWS on December 8, 2010 and the USFS on June 30, 2011.
BIO-APM-01: Submit protocol surveys for sensitive plant and wildlife	On-the-ground protocol surveys have been conducted for sensitive plant and animal species, as appropriate, along the entire alignment. Per G-CM-32 of the Revised Biological Opinion dated November 10, 2010, surveys for federally listed species have been deemed complete by the Wildlife Agencies. The following survey reports for the 2010 survey season have been approved: 2010 Riparian Bird Survey Report; 2010 Arroyo Toad Survey; 2010 Rare Plant Survey; 2010 Quino Checkerspot Butterfly Report; and 2010 Coastal California Gnatcatcher Survey Report. The 2010 Bat Survey Report is currently pending and will be submitted when complete.
BIO-APM-02: Environmental training prior to construction	Project personnel shall receive training as outlined in this measure.
BIO-APM-03: Restrict vehicle movement to existing access roads	Vehicle traffic will be restricted to existing paved and unpaved access roads when feasible. All approved work areas, including access roads, will be delineated immediately prior to construction.

Mitigation Measure and APM	Status
BIO-APM-03: Avoid constructing roads during nesting season and submit surveys if new roads needed during nesting season	SDG&E will perform surveys and submit survey results the the USFWS and CDFG should access road construction occur during nesting season or if it is not feasible to keep vehicles on existing access roads.
BIO-APM-03: No parking or driving under oak trees	This mitigation measure will be monitored during construction to ensure parking or driving underneath oak trees does not occur.
BIO-APM-03: Observe a 15 mph speed limit on dirt access roads	This mitigation measure will be fulfilled during construction.
BIO-APM-04: Restrict project activity to disturbance areas	Final Grading Plans and Plan and Profiles were submitted to the CPUC on September 2, 2010. The USFS approved these plans and drawings on March 11, 2011. Project and survey activities will be confined to areas noted in final engineering drawings.
BIO-APM-04: Keep survey vehicles on existing roads	Survey vehicles shall remain on existing roads.
BIO-APM-04: Obtain prior approval for surveying activities in sensitive habitat	A biological monitor shall monitor project surveying activities for conformance with APMs.
BIO-APM-04: Hiking off roads or paths during survey data collection is permitted	SDG&E survey personnel will implement all appropriate APMs.
BIO-APM-04: Do not apply discoloring agents on rocks or vegetation	No paint or permanent discoloring agents shall be applied as outlined in this measure.
BIO-APM-05: Construct roads at right angles to streambeds and washes	To the extent possible, access roads shall be constructed as outlined in this mitigation measure.
BIO-APM-05: Obtain permits for streambed crossings and roads constructed parallel to streambeds	The SWRCB issued the 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was issued on January 7, 2011.
BIO-APM-05: Minimize disturbance from construction and maintenance activities	This mitigation measure will be fulfilled during construction.
BIO-APM-06: Comply with all applicable environmental laws and regulations	This mitigation measure will be fulfilled during construction.
BIO-APM-07: Littering is not allowed	Littering will be prohibited on this project. This mitigation measure will be monitored during construction.
BIO-APM-08: Delineate and avoid sensitive plant populations	Prior to construction, the boundaries of any sensitive plant populations will be delineated with flagging and avoided to the extent practicable.
BIO-APM-10: Do not harm wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that no wildlife, including rattlesnakes, may be harmed except to protect life and limb. This SWEAP will be shown to all project personnel prior to construction and enforced throughout all phases of the Project. If rattlesnakes are encountered, they will be safely removed by a biologist or staff trained in safe snake handling procedures.
BIO-APM-10: Firearms are prohibited	The SWEAP video was approved by the CPUC on March 15, 2010. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project, and addresses that firearms are prohibited in all project areas, except for security personnel.
BIO-APM-11: Do not feed wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that feeding wildlife is prohibited. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
BIO-APM-12: No pets permitted	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that pets are prohibited at the Project site. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
BIO-APM-13: Do not collect plants or wildlife	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions that prohibit collecting plants or wildlife species for any reason. This SWEAP will be shown to all project personnel prior to construction of the Project and enforced throughout all phases of the Project.



Mitigation Measure and APM	Status
BIO-APM-14: Removal of wildlife by qualified biological monitor or wildlife agency	Wildlife found to be trapped will be removed by a qualified biological monitor. If the biological resource monitor is not qualified to remove the entrapped wildlife, a recognized wildlife rescue agency (such as Project Wildlife) will be contacted to remove the wildlife and transport it safely to other suitable habitats.
BIO-APM-15: Submit report of unavoidable environmental damage	This mitigation measure will be fulfilled during construction, as needed.
BIO-APM-16: Schedule tree trimming during non-sensitive times	This mitigation measure will be fulfilled during and post construction. Information regarding sensitive tree trimming locations will entered into SDG&E's mitigation measure tracking system and Sempra's system-wide mapping database.
BIO-APM-16: Vary tree removal widths to maintain edge diversity	This mitigation measure will be fulfilled during construction.
BIO-APM-17: Mow vegetation to use as access road	This mitigation measure will be fulfilled during and post construction.
BIO-APM-18: Design structures and access roads to minimize impacts to sensitive features	A memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure BIO-APM-18, on September 1, 2010. The final Project Modification Report (PMR) and Map Book, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment with an overall reduction of impacts to sensitive features. They also show the redesign and relocation of the alignment to previously disturbed areas when feasible.
BIO-APM-18: Submit site surveys when constructing poles or roads in high value habitats cannot be avoided	Surveys have been performed to determine the presence or absence of endangered species in sensitive habitats along the project route. These surveys were determined to be complete by the Wildlife Agencies as described in G-CM-32 of the revised Biological Opinion. If new areas of disturbance are identified, site specific surveys will be conducted to determine the presence or absence of endangered species; this measure will be implemented during construction.
BIO-APM-18: Construct crossings at right angles to streambeds if access roads cannot avoid sensitive water features	During construction, access roads will be constructed as outlined in this measure. In addition, SDG&E has secured required permits for access road construction that will impact sensitive water features. More specifically, the 401 Water Quality Certification was issued on November 15, 2010, the California Department of Fish and Game Streambed Alteration Agreement (SAA) was issued on on November 17, 2010, and the ACOE 404 permit was issued on January 7, 2011.
BIO-APM-19: Implement and comply with BLM mitigation measures	This mitigation measure will be fulfilled during and post construction.
BIO-APM-19: Use Section 7 process to obtain incidental take authorization	SDG&E has obtained an incidental take authorization through the Section 7 process (Refer to Biological Opinion FWS2008BO423-2009F0097). The BO was reinitiated and finalized on November 10, 2010.
BIO-APM-20: Leave vegetation in place where re-contouring is not required	This mitigation measure will be fulfilled during construction.
BIO-APM-21: Conform to "Suggested Practices for Raptor Protection on Power Lines"	A memo was submitted to the CPUC for the administrative record on September 15, 2010 describing that the conductor spacing meets recommended suggested practices where feasible and the CPUC confirmed compliance with this measure on September 16, 2010.  SDG&E has designed structures in conformance with "Suggested Practices for Raptor Protection on Power Lines."
BIO-APM-22: Salvaging may include removal and stockpiling for replanting	This mitigation measure will be fulfilled during construction.
BIO-APM-23: Remove only minimum amount of vegetation necessary for construction	This mitigation measure will be fulfilled during construction.
BIO-APM-23: Conserve topsoil in areas of sensitive habitat	This mitigation measure will be fulfilled during construction.
BIO-APM-24: Secure appropriate covers over excavations	The SWEAP video was approved by the CPUC on March 15, 2010. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project, and includes instructions on covering construction holes overnight to prevent harm to wildlife.



Mitigation Measure and APM	Status
BIO-APM-25: Revegetate disturbed soils	This mitigation measure will be fulfilled during construction.
BIO-APM-26: Slope excavations on one end	This mitigation measure will be fulfilled during construction.
BIO-APM-27: Remove all raptor nests outside breeding season and prior to construction	SDG&E will remove unoccupied non-threatened/endangered or non-eagle raptor species' nests that would be affected by construction activities outside of the raptor breeding season. Per the USFWS, the golden eagle breeding season is December through June.
BIO-APM-27: Monitor active nests during breeding season	Monitoring of an existing raptor nest during the breeding season shall occur as outlined in this mitigation measure, by an approved biologist.
BIO-APM-28: Survey potential bat roost trees to be removed and follow procedures for felling trees	A CDFG-approved biologist has conducted surveys for bat maternity roost trees. The 2009 Bat Survey Report was submitted to the CPUC on February 19, 2010 and the 2009 Bat Survey Report Amendment was submitted on October 1, 2010. The amended report was approved by CPUC on October 11, 2010. The 2010 Bat Survey Report was submitted to the agencies on July 1, 2011 and is currently under review. No maternity roosts were observed on the project; therefore, this measure is not applicable.
BIO-APM-29: Minimize impacts of exterior lighting adjacent to preserved habitat	On USFS lands, construction of Link 5 will occur during daytime hours, as directed by local county ordinances. Should night lighting be deemed necessary during construction, SDG&E will comply with this mitigation measure.  Security night lighting at construction yards will be designed and installed per the approved Construction Yard Lighting Plan.
BIO-APM-29: Minimize vehicle speed and volume	This mitigation measure will be fulfilled during construction.
G-CM-01: Provide biological monitoring and perform periodic inspections once or twice a week	See B-1c
G-CM-02: Use SDG&Es Water Quality Construction BMP Manual.	See WQ-APM-4. This mitigation measure will be implemented during construction.
G-CM-03: Obtain NPDES permit and implement a SWPPP.	See WQ-APM-14
G-CM-04: Training to implement conservation measures.	See BIO-APM-2
G-CM-05: Limit vehicle speeds on access roads to minimize fugitive dust.	See BIO-APM-3 and AQ-1a
G-CM-06: Keep all activities within designated temporary and permanent disturbance areas.	Final Grading Plans and Plan and Profiles has been submitted to the CPUC on September 2, 2010. The USFS approved these plans and drawings on March 11, 2011. Project activities will be confined to areas noted in final engineering drawings. Also see BIO-APM-4.
G-CM-06: Keep survey vehicles on existing roads.	See BIO-APM-4
G-CM-06: No paint or discoloring agents will be applied to rocks or vegetation.	See BIO-APM-4
G-CM-06: Impacts associated unauthorized activity will be mitigated at a 5:1 ratio	This measure will be implemented during construction if unauthorized impacts occur. Also see BIO-APM-4.
G-CM-07: Brush clearing will require prior approval from the biological monitor in conformance with the CMs.	No brush clearing will occur on the project without prior approval from the project biological monitor. This measure will be implemented during construction. Also see BIO-APM-9 for additional brush clearing requirements.
G-CM-08: Wire stringing	This measure will be implemented during construction.
G-CM-09: Disposal of wastes.	See BIO-APM-7

Mitigation Measure and APM	Status
G-CM-10: Emergency repairs will follow the CM's to the extent feasible.	See BIO-APM-15
G-CM-10: Submit written report to agencies having jurisdiction.	See BIO-APM-15
G-CM-10: If required, develop mitigation plan consistent with CMs.	See BIO-APM-15
G-CM-11: Structures and access roads should be designed to minimize impacts to sensitive features.	A memo was submitted to the CPUC documenting compliance with Mitigation Measure BIO-APM-18, on September 1, 2010 for their administrative record. The Project Modification Report (PMR) and Mapbook, which was approved by the CPUC and BLM in a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010 illustrates changes to the final design of the alignment to reduce impacts to sensitive features. The USFWS confirmed that this conservation measure has been met through the final project designs (see page 32 of the reinitiated Biological Opinion).
G-CM-12: Leave vegetation in place where re-contouring is not required. Restore disturbed soils based on HRP per G-CM-16.	This mitigation measure will be fulfilled during construction.
G-CM-13: Use lowest illumination allowed for human safety.	See BIO-APM-29
G-CM-13: Vehicle speed limits may not exceed 15 mph to prevent mortality of nocturnal wildlife species.	See BIO-APM-29
G-CM-14: Locate surface-disturbing activities in previously disturbed areas, to the extent practical.	The pre-construction portion of this measure is complete. The project structures and work areas were designed to avoid sensitive vegetation, to the extent possible. During construction, vegetation and soil impacts will be minimized. See B-1a for additional information.
G-CM-15: Use of construction mats.	See B-1a
G-CM-15: Incorporate impact of using mats into HRP (G-CM-16).	See B-1a
G-CM-16: Habitat Restoration Plan approval.	See B-1a. The Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas has been approved as stated in the revised Biological Opinion dated November 10, 2010.
G-CM-16: Impacts, compensation, and a qualified habitat restoration specialist.	See B-1a
G-CM-16: Temporary impacts to desert scrub and dune habitats.	This mitigation measure does not apply to Link 5. No desert scrub or dune habitats exist along Link 5.
G-CM-17: Provide assurances to fund the acquisitions	SDG&E has acquired or funded for purchase the nine properties listed in this mitigation measure.
G-CM-17: Off-site compensation and property acquisition.	The HAP/HMP was prepared by an approved biologist and was submitted for review and approval on September 22, 2010 as outlined in this mitigation measure. The HMP/HAP was approved by the Wildlife Agencies as stated in G-CM-17 of the Reinitiated Biological Opinion dated November 10, 2010. The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011. The remaining requirements of this mitigation measure will be implemented during construction and within the timeframes described in this measure.
G-CM-18: Re-seeding of disturbed areas after a transmission line-caused fire.	See B-1k
G-CM-20: Develop a Weed Control Plan for pre-construction and long-term invasive weed abatement.	See B-3a
G-CM-21: Implementation of erosion control measures.	See GEO-APM-5

Mitigation Measure and APM	Status
G-CM-22: Restoration where ground disturbance is substantial or where recontouring is required.	See GEO-APM-6
G-CM-23: Use appropriately sized equipment.	This mitigation measure will be implemented during construction.
G-CM-24: Implement Dust Control Plan.	A Dust Control Plan was approved by the CPUC on January 20, 2010 and the Wildlife Agencies on November 10, 2010. Dust Control Plan measures will be implemented during project construction. (See AQ-1a)
G-CM-24: Implement additional dust control measures	See AQ-1a
G-CM-25: Restrict vehicle movement to access roads.	See BIO-APM-3
G-CM-26: Delineate construction limits.	See B-1a and BIO-APM-4
G-CM-27: Build access roads at right-angles to stream crossings.	See BIO-APM-18
G-CM-28: Coordinate with land officer 60 days prior to initiating construction to determine the use of gates and signs at access roads.	The preconstruction component of this measure is complete (see B-1a). Signs will be posted on access roads prohibiting unauthorized users during construction.
G-CM-29: Provide funding for protection from off-road vehicle enthusiasts	See B-1a
G-CM-31: Mowing of access roads to maintain access for maintenance.	See BIO-APM-17
G-CM-32: Surveys for USFWS listed species.	See B-5a and BIO-APM-1
G-CM-33: Delineate plant population boundaries.	See BIO-APM-8
G-CM-34: Native Tree Restoration	The Habitat Acquisition Plan discusses mitigation for loss of native trees. A Habitat Acquisition Plan was submitted to the CPUC for review and approval on February 4, 2010. Tree mitigation will occur as described in the Habitat Acquisition/Habitat Management Plan which was approved by the Wildlife Agencies as stated in the revised Biological Opinion dated November 10, 2010 (G-CM-17). The CNF HAP/HMP (dated February 24, 2011) was accepted by the USFS on March 4, 2011.
G-CM-35: Rare plants shall be salvaged where avoidance is not feasible.	This measure will be implemented during construction.
G-CM-36: Do not harm wildlife, including rattlesnakes.	See BIO-APM-10
G-CM-37: Do not feed wildlife.	See BIO-APM-11
G-CM-38: Do not bring pets to project areas.	See BIO-APM-12
G-CM-39: Cover steep-walled trenches to avoid entrapping wildlife.	See B-7a
G-CM-40: Look under vehicles and around equipment for wildlife prior to use.	See B-7a
G-CM-41: Do not dispose of excess fill, brush, or debris within waters of the U.S.	This measure will be implemented during construction.
G-CM-41: Do not dispose of fuel, oil, coolant, and other wastes within or near waters of the U.S. Do not fuel vehicles near waters of the U.S.	This measure will be implemented during construction. The Project site specific SWPPPs designate where fueling is permitted to occur. Unless otherwise indicated in the SWPPP's, all other areas are considered "No-Fueling Zones".

Mitigation Measure and APM	Status
G-CM-42: Maintain riparian buffer construction/staging areas and riparian areas.	This mitigation measure will be implemented during construction.
G-CM-44: Determine project limits for temporary and permanent disturbance to occur during maintenance activities.	Final Grading Plans and Plan and Profiles were submitted to the CPUC on September 2, 2010. The USFS approved the plans and drawings on March 11, 2011. Project and survey activities will be confined to areas noted in final engineering drawings. The preconstruction component of this measure is complete. Adherence to the right-of-way limits and approved work areas will occur during construction.
G-CM-45: Purchase/dedicate suitable habitat for preservation.	See G-CM-17
SS-CM-01: Conduct ground- or vegetation disturbance outside of the gnatcatcher breeding season	This mitigation measure will be implemented during construction.
SS-CM-03: Survey for gnatcatchers within 10 days prior to initiating activities	This measure will be implemented if construction and O&M activities occur during the gnatcatcher breeding season within suitable gnatcatcher habitat.
SS-CM-04: Purchase and manage occupied gnatcatcher habitat	This mitigation measure will be implemented during construction.
SS-CM-05: Conduct construction and O&M activities outside the vireo breeding season or implement pre-activity surveys	This mitigation measure will be implemented immediately prior to construction during the vireo breeding season.
SS-CM-05: Survey for nesting vireos	This mitigation measure will be implemented during construction if vireos are present.
SS-CM-06: Purchase and manage suitable vireo habitat	SDG&E has established assurance bonds with the USFWS and CDFG for impacts to vireo habitat, as outlined in the HAP/HMP.
SS-CM-07: Monitor construction in critical and occupied Quino habitat	This measure will be implemented during construction.
SS-CM-08: Develop site-specific restoration for temporarily impacted Quino habitat	Site-specific restoration will be developed as stated in this mitigation measure. Site-specific restoration will be developed during construction and will be based on actual temporary impacts to Quino habitat.
SS-CM-10: Purchase and manage occupied Quino habitat	This mitigation measure will be fulfilled during construction.
SS-CM-11: Implement the Arroyo Toad Translocation and Monitoring Program	This plan will be implemented during construction.
SS-CM-12: Daylight use of access roads to avoid/minimize impacts to arroyo toads.	This mitigation measure will be implemented during construction.
SS-CM-13: No construction activities within arroyo toad breeding habitat.	This measure will be implemented during construction.
SS-CM-14: Remove all temporary exclusion and construction fencing at conclusion of construction.	All temporary exclusion fencing installed during construction will be removed, during or following construction, once protection measures are no longer required.
SS-CM-15: Purchase and manage occupied arroyo toad breeding habitat	SDG&E has established assurance bonds with the USFWS and CDFG for impacts to arroyo toad habitat, as outlined in the HAP/HMP.
SS-CM-16: Prohibit construction and O&M activities during lambing season	Peninsular bighorn sheep do not occur on Link 5; therefore, this mitigation measure is not applicable.
SS-CM-17: Restore suitable bighorn sheep habitat	Peninsular bighorn sheep does not occur on Link 5; therefore, this mitigation measure is not applicable.
SS-CM-18: Retain a Project Biologist to oversee and implement the PBS Monitoring Plan	Peninsular bighorn sheep do not occur on Link 5; therefore, this mitigation measure is not applicable.

Mitigation Measure and APM	Status
SS-CM-19: Purchase habitat to partially offset impacts to PBS population	Peninsular bighorn sheep do not occur on Link 5; therefore, this mitigation measure is not applicable.
SS-CM-19: Provide funding for protection of PBS and I-8 crossing	Peninsular bighorn sheep do not occur on Link 5; therefore, this mitigation measure is not applicable.
SS-CM-19: Fund removal of invasive species and install PBS water sources	Peninsular bighorn sheep do not occur on Link 5 ; therefore, this mitigation measure is not applicable.
SS-CM-19: Fund Monitoring Program for PBS	Peninsular bighorn sheep do not occur on Link 5; therefore, this mitigation measure is not applicable.
SS-CM-19: Fund aerial surveys for PBS	Peninsular bighorn sheep do not occur on Link 5; therefore, this mitigation measure is not applicable.
SS-CM-20: Implement avoidance, mitigation and compensation measures	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Designate a field contact representative	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
SS-CM-20: Clearly define the limits of work limits	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Minimize disturbance to soil and vegetation in FTHL habitat	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Use existing roads whenever possible	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
SS-CM-20: Block newly created access routes as required by the lead agency	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
SS-CM-20: Monitor construction activities in FTHL habitat	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Fence areas of permanent or long-term projects in FTHL management areas	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable. FTHL does not occur on USFS land.
SS-CM-20: Develop habitat restoration plan.	Flat-tailed horned lizards are restricted to the first 23 miles of the Project (Link 1); therefore, this mitigation measure is not applicable.
V-01a: Screen construction sites if visible from public areas	The pre-construction component of this measure has been completed. The location of staging, material and equipment storage areas and helicopter fly yards are shown in the Project Modification Report, which was submitted to the CPUC on May 14, 2010 and approved by the CPUC and BLM on September 22, 2010. The USFS approved the PMR in the Record of Decision dated July 9, 2010. The Construction Yard Visual Screening Plan also shows the location of these yards and illustrates how these areas will be visually screened with temporary fencing. The Construction Yard Visual Screening Plan was submitted to the CPUC, City of San Diego, BLM and USFS on August 4, 2010 and to Helix Water District on August 19, 2010. The Construction Yard Visual Screening Plan was approved by the CPUC on October 19, 2010. This plan is included with the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment F.
V-01a: Submit final construction plans 60 days prior to construction	Final construction grading plans and Plan and Profile drawings were submitted to the CPUC, BLM, USFS, County of San Diego and Helix Water District on September 2, 2010. Construction plans and drawings were resubmitted to the USFS on January 13, 2011 and January 28, 2011. The USFS approved the construction plans and drawings on March 11, 2011.
V-01b: Design and install lighting to avoid night lighting impacts	SDG&E submitted a Construction Lighting Mitigation Plan to the CPUC as outlined in this mitigation measure on November 30, 2010. The CPUC approved the plan on January 31, 2011. This plan is included with the Scenery Conservation Plan, which was approved by the USFS on July 27, 2011, as Attachment F.
V-01b: Submit a Construction Lighting Mitigation Plan 90 days prior to construction	SDG&E submitted a Construction Lighting Mitigation Plan to the CPUC as outlined in this mitigation measure on November 30, 2010. The CPUC approved the plan on January 31, 2011.



Mitigation Measure and APM	Status
V-02a: Construct access and spur roads at appropriate angles	Construction of access or spur roads shall occur as outlined in this measure.
V-02a: Consult with visual resources specialist to evaluate access road visibility prior to final design	The PMR and associated mapbook were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010. The final design of access roads was based on coordination with several visual resource specialists.
V-02a: Submit table 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, show the location of each structure and the alignment of the access roads. The final design of access roads was based on coordination with several visual resource specialists.
V-02a: Submit final construction plans 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment and incorporate a redesign of the access roads based on coordination with several visual resources specialists. Final Grading Plan and Profiles were submitted to the CPUC for the administrative record on September 2, 2010. The USFS approved the plans and drawings on March 11, 2011.
V-02b: Revegetate boundaries of disturbed areas	This mitigation measure will be fulfilled during construction.
V-02b: Return graded roads to pre-construction conditions	This measure will be fulfilled during construction.
V-02b: Create barriers for public access if opened as a construction route	This mitigation measure will be fulfilled during construction.
V-02b: Submit final construction and restoration plans 60 days prior to construction	The PMR and Mapbook, which were approved by the BLM and CPUC in a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment and incorporate a redesign of the access roads based on coordination with several visual resources specialists. Final Grading Plan and Profiles were submitted to the CPUC on September 2, 2010. These plans and drawings were approved by the USFS on March 11, 2011.
V-02c: Treat disturbed soils visible from sensitive public viewing locations	SDG&E submitted a Restoration Plan for Sensitive Vegetation Communities in Temporary Impact Areas on September 24, 2010. This plan was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. During construction, SDG&E will consult with the Authorized Officer regarding the site-by-site use of Eonite. This measure is only applicable to non-Forest lands.
V-02c: Submit final construction and restoration plans 60 days prior to construction	SDG&E has submitted Final Grading Plans and Plan and Profile drawings on September 2, 2010 for the overhead portion of the project. The USFS approved the plans and drawings on March 11, 2011. A Restoration Plan for Temporary Impacts to Sensitive Vegetation Communities was submitted on September 24, 2010; this plan was approved by the CPUC on November 3, 2010 and the Wildlife Agencies on November 10, 2010. The USFS approved the Habitat Restoration Plan on April 7, 2011.
V-02d: Consult regarding helicopter construction techniques	The Project Modification Report, which was approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, discusses changes to the final design regarding the use of helicopter construction and prohibition of access and spur roads where construction would occur on slopes greater than 15 percent or near public viewing locations.
V-02d: Conduct Agency Consultations 120 days prior to construction	SDG&E has coordinated with the appropriate agencies and received approvals 120 days prior to construction. The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate the redesign of the alignment based on this coordination.
V-02f: Limit vegetation clearing	This measure will be implemented during construction on USFS-managed lands.
V-02f: Incorporate mitigation to reduce total visual impact	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
V-02f: Submit Scenery Conservation Plan at least 120 days prior to construction	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.

Mitigation Measure and APM	Status
V-03a: Conductors shall be non-specular	SDG&E submitted a memorandum to the CPUC on September 30, 2010 demonstrating that SDG&E has ordered non-specular conductor in order to reduce conductor visibility and visual contrast of conductors and towers in compliance with this measure.
V-03a: Consult with a visual resources specialist to evaluate new access roads	The final design of the alignment incorporates a redesign and elimination of access roads based on coordination with several visual resources specialists. The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrates these changes.
V-03a: Submit a table 60 days prior to construction	The final design of the alignment incorporates a redesign and elimination of access roads based on coordination with several visual resources specialists. The Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrates these changes.
V-45a: File Scenery Conservation Plan within 1 year after license is issued for USFS	The Scenery Conservation Plan was submitted to the USFS for review and approval in March 2011. The USFS approved the plan and signed the signatory page for Exhibit No. 15 on July 27, 2011. All preconstruction requirements are complete.
V-66a: Reconsider the location of transition structures	According to the CPUC's visual resources consultant and documented on October 6, 2010, the relocation of the Chocolate Canyon transition cable poles as shown in the April 30, 2010 Mapbook demonstrates compliance with the requirements of V-66a.
V-68a: Eliminate skylining of ridgeline towers and conductors when viewed from Moreno Boulevard or SR67	The Project Modification Report, which was submitted to the CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and approved by the USFS in the ROD dated July 9, 2010, discusses changes in PMR 34 and PMR 35 regarding skylining of towers. The modifications allowed for the reduction in the number of towers, but did increase the elevation of other towers; these changes were approved through the Determination Memorandum.
V-68a: Submit final construction plans 120 days prior to construction	The Project Modification Report and Mapbook, which was submitted to the CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and approved by the USFS in the ROD dated July 9, 2010, demonstrates compliance with this measure. Final construction plans for the overhead alignment were submitted to the CPUC on September 2, 2010.
VR-APM-01: Place structures at maximum distance from crossings	The Project Modification Report and Mapbook, which were approved by the BLM and CPUC in the Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment to reduce visual impacts at highway, canyon, and trail crossings.
VR-APM-04: Do not paint or discolor rocks or vegetation	The SWEAP video was approved by the CPUC on March 15, 2010. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project. The video includes instructions prohibiting application of paint or permanent discoloring agents on rocks or vegetation to indicate survey or construction limits.
VR-APM-05: Do not install structures in front or in line-of-sight of residences	SDG&E did not locate structures directly in front of residences or in direct line-of-sight from residences, where possible. SDG&E consulted with affected property owners on the proposed structure locations to reduce land use and visual impacts. SDG&E has coordinated with affected landowners in accordance with MM L-2b.
L-01a: Submit Construction Notification Plan 45 days prior to construction	The Construction Notification Plan was approved by the CPUC on March 1, 2010.
L-01a: Mail a public notice 15 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses mailing public notifications. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Advertise in newspapers and bulletins 15 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses newspaper advertisement notifications. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.
L-01a: Post notices of construction at public venues 30 days prior to construction	The Construction Notification Plan that was approved by the CPUC on March 1, 2010 addresses posting of notices of construction at public venues. Proof of Notification will be submitted to CPUC prior to start of construction for site specific areas of the Project.

Mitigation Measure and APM	Status
L-01a: Provide a public liaison person and toll-free hotline number before and during construction	The Construction Notification Plan identifies the public liaison person assigned to the project and the toll-free hotline. The Plan was approved by the CPUC on March 1, 2010.
L-01c: Provide project engineering details to MCAS Miramar 90 days prior to construction	SDG&E and Miramar had a coordination meeting on March 5, 2010. A copy of the minutes from that meeting were submitted to the CPUC on May 19, 2010 for their administrative record. During that meeting SDG&E provided engineering details to MCAS Miramar for review and approval. Authorization to proceed with construction on MCAS Miramar was received on June 28, 2011.  This measure is applicable to MCAS Miramar-managed lands on Link 5 only.
L-01c: Provide evidence of coordination 60 days prior to construction	SDG&E and Miramar had a coordination meeting on March 5, 2010. A copy of the minutes from that meeting were submitted to the CPUC on May 19, 2010 for their administrative record. SDG&E is continuing to meet with Miramar and will continue to provide CPUC and BLM with documentation of this on-going coordination.
L-02b: Notify landowners 90 days prior to completing final design of route	A memorandum submitted to CPUC on October 5, 2010 summarizes the landowner notification process. CPUC approved this memo on October 12, 2010. All landowners have been notified within 1000 feet of the project alignment. Landowners not directly affected by project facilities were sent a letter through certified mail in spring 2009 and given the opportunity to request changes. Landowners already in easement acquisition negotiations were notified through the acquisition process and provided the opportunity to request changes. These changes are also addressed in the Project Modification Report and Mapbook, which were approved by BLM and CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
L-02b: Provide notified parties 30 days to identify conflicts and potential reroutes	SDG&E provided affected landowners 30 days in which to respond to the project notification and discuss changes to the project to accommodate landowner requests. The L-2b Mitigation Measure Memorandum (dated October 5, 2010) summarizes the criteria used to evaluate these requests. A summary of each landowner request received is also included with this memo, which was approved by the CPUC on October 12, 2010. In addition, the PMR, which was approved by the CPUC and BLM in a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, addresses several of these changes. To reduce conflicts on National Forest System lands in the future, SDG&E will survey and mark boundaries between National Forest System lands and other lands within the approved right-of-way as directed by the USFS, consistent with the requirements of the USFS ROD.
L-02b: Provide written report at or before the time property owners are identified	On March 18, 2009, SDG&E met with CPUC representatives to discuss the interpretation and notification requirements for mitigation measure L-2b. The notification and landowner requests processes were developed based on those discussions. SDG&E did not provide CPUC and BLM with a written report identifying properties that were suspected of having a land use conflict as described in the mitigation measures at or before the time property owners were notified, but SDG&E did consider these impacts in their initial evaluation of the project and with subsequent route changes as described in the Project Modification Report, which was approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
L-02b: Provide written report within 30 days of the public notice closing date for responses	A memorandum submitted to CPUC and BLM on October 5, 2010 summarizes the landowner notification process. CPUC approved this memorandum on October 12, 2010. All landowners have been notified within 1000 feet of the project alignment. Landowners not directly affected by project facilities were sent a letter through certified mail in spring 2009 and given the opportunity to request changes. Landowners already in easement acquisition negotiations were notified through the acquisition process and provided the opportunity to request changes. These changes are also addressed in the Project Modification Report and Mapbook approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
L-02b: Develop specific reroute modifications	The alignment along Highway 67 was shifted as shown on the Project Modification Report (PMR) Map Book page MS-134 and is located further away from the preserve as shown in the PMR that was approved on September 22, 2010.
LU-APM-01: Provide advance notice within 300 feet of construction activities	SDG&E will provide advance notice to residents, property owners, and tenants within 300 feet of construction activities and will appoint a public affairs officer to address public concerns or questions.
LU-APM-02: Place new structures more than 330 feet from residences	SDG&E placed new structures more than 330 feet from existing residences to the extent feasible. Only two structures are closer than 330 feet to a residence and were not able to be moved. These structures include CP-7 (located on Link 5) and EP-228 (located on Link 1).

Mitigation Measure and APM	Status
LU-APM-03: Compensate farmers for loss of crops	One agricultural operator has been compensated for loss of crops (oat hay). This compensation is summarized in a memo submitted to the CPUC on October 15, 2010. See mitigation measures Ag-1a and Ag-1c for additional detail.
LU-APM-03: Avoid planting, growing, and harvesting seasons	This measure will be implemented during construction.
LU-APM-04: Provide notification prior to construction	To facilitate access to properties obstructed by construction activities, SDG&E will notify property owners and tenants in advance of construction activities and provide alternative access if necessary.
LU-APM-05: Coordinate construction activities with water management representatives	There are no irrigation canals or flood management structures impacted by construction activities on Link 5; therefore this mitigation measure is not applicable.
LU-APM-06: Restrict and confine activity within limits of construction	Final construction plans, which were submitted to the CPUC on September 2, 2010, illustrates the limits of construction. Construction activities will be restricted to and confined within those limits during construction.
LU-APM-06: Provide flagging for environmentally sensitive areas	The ROW boundary and limits of construction activity inside and outside the ROW will be flagged in environmentally sensitive areas to alert construction personnel that those areas should be minimize or avoided.
LU-APM-07: Install project facilities outside of private properties, parks, and other recreational areas	SDG&E designed project facilities to be located along the edges or borders of private property, open space parks, and recreation areas. When this was not possible, SDG&E consulted with affected property owners to reduce impacts and will pay just compensation to the property owners through contractual agreements with each landowner. SDG&E submitted a memo to CPUC on October 5, 2010 documenting landowner notification and consultation; the CPUC approved this memo on October 12, 2010. The final alignment is shown on the Project Modification Report and Mapbook, which was submitted to CPUC on May 14, 2010 and approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
LU-APM-08: Coordinate to include Project in General Plans	SDG&E has been coordinating with the County of San Diego and Imperial County to determine whether there are any General Plan updates anticipated during the life of the project that could conflict with construction or operation of the transmission line. SDG&E spoke with LeAnn Carmichael (858-694-3739) at the County of San Diego and Andy Home, Deputy County Executive Officer for Natural Resources Development (760) 482-4727 at Imperial County. No General Plan updates are planned for Imperial County or the City of San Diego in the near future.
LU-APM-09: Obtain ministerial land use permits	SDG&E's contractor will obtain encroachment permits from each local jurisdiction, if necessary, during construction.
LU-APM-10: Match structure locations with existing transmission facilities	A memo was submitted to the CPUC for the administrative record documenting compliance with Mitigation Measure LU-APM-10, on September 1, 2010.
R-APM-02a: Provide advance notice if restrictions in access routes to recreational use areas	This mitigation measure will be implemented during construction.
R-APM-02b: No construction on federal holidays that affects trail use	This measure will be implemented during construction.
R-APM-02c: Coordinate construction activities affecting parkland and trails prior to construction	SDG&E has coordinated with the appropriate land management agencies, as required. During construction, advance notice of restrictions to recreational use areas will be provided to the agencies.
R-APM-02d: Post signs at alternative park access and parking	This measure will be implemented during construction.
R-APM-02e: Post signs at alternative trails and bikeways	This measure will be implemented during construction.
R-APM-02f: Post signs at equestrian trails during helicopter construction	This measure will be implemented during construction.
R-APM-02f: Regularly check and maintain signs during helicopter construction	This measure will be implemented during construction.



Mitigation Measure and APM	Status
R-APM-03a: Restrict construction-related traffic to approved routes	This mitigation measure will be monitored during construction. The project no longer crosses ABDSP lands; therefore, this portion of the mitigation measure is no longer applicable.
WR-01a: Coordinate construction activities and schedule 60 days prior to construction	SDG&E has been coordinating with the County of San Diego to identify recreational areas that may be impacted by the project and will schedule construction to avoid temporary preclusion of recreational area use. SDG&E will continue its coordination with the County of San Diego and other jurisdictional agencies during construction.
WR-01a: Submit documentation of coordination 30 days prior to construction	SDG&E submitted a memorandum to the CPUC for the administrative record on November 5, 2010 documenting its coordination efforts related to recreational areas and trails. SDG&E has coordinated with the USFS, BLM and County of San Diego regarding recreational areas and trails.
WR-01b: Coordinate temporary detours of trails 60 days prior to construction	SDG&E began coordination efforts with the Trails Coordinator for San Diego County on June 21, 2010. Coordinating with the County 60-days prior to construction has been fulfilled. Coordination efforts are on-going and will continue throughout the preconstruction and construction phases of the project. Two memos documenting coordination efforts were submitted to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-01b: Site new trail segments to avoid sensitive resources and restore to pre-construction conditions	This measure will be implemented during construction.
WR-01b: Post public notices at trail detours	This measure will be implemented during construction.
WR-01b: Submit documentation of coordination 30 days prior to construction	See WR-1a
WR-01c: Coordinate alternative recreation facilities 60 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-01c: Post public notices at recreation facilities	This measure will be implemented during construction.
WR-01c: Submit documentation of coordination 30 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
WR-02a: Relocate 500kV line along southern boundary of JAM properties	The JAM property is not located on Link 5; therefore, this measure is not applicable.
WR-02a: Submit memo and construction plans 120 days prior to construction	The BCD Alternative does not occur on Link 5; therefore, this measure is not applicable.
WR-03a: Coordinate to determine locations of tower sites and spur roads	SDG&E has made considerable effort to limit access roads and tower locations within recreational areas in coordination with the BLM, USFS, Imperial County, and San Diego County. No access roads are located on trails (e.g., PCT, Trans-County Trail, etc.). The Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, illustrate changes to the final design of the alignment to avoid recreational areas as much as feasible. Mitigation for impacts have been calculated in the Habitat Acquisition Plan/Habitat Management Plan, which was approved by the Wildlife Agencies on November 10, 2010 and the USFS in February 2011.
WR-03a: Coordinate 60 days prior to construction and submit documentation 30 days prior to construction	SDG&E has made considerable effort to work with local agencies to identify alternative recreational areas that may be used by the public in lieu of affected parks during construction. SDG&E submitted documentation of this coordination to the CPUC for the administrative record on November 5 and November 23, 2010.
AG-01a: Coordinate with property owners and tenants 60 days prior to construction	SDG&E has coordinated with agricultural property owners and tenants in order to ensure avoidance or minimization of interference with agricultural operations.  On Link 5, SDG&E coordinated with the Hartung property owners regarding impacts to oat hay production. The property owner provided SDG&E with their requirements, which were incorporated into the official Right of Entry document. A memorandum summarizing this coordination was submitted to CPUC on October 15, 2010.



Mitigation Measure and APM	Status
AG-01b: Restore disturbed soils 30 days after completion of construction clean-up	This measure will be implemented during construction.
AG-01c: Coordinate with grazing operators 60 days prior to construction and 30 days after construction	SDG&E has coordinated with landowners to discuss construction activities and address concerns related to agricultural productivity and animal welfare. A memo summarizing this coordination was submitted to CPUC on October 15, 2010.  On September 14, 2010, SDG&E coordinated with Hartung property representatives regarding reconfiguration of fencing to accommodate grazing operations and minimize impacts to cattle.
AG-03b: Consult and notify 60 days prior to erection of any structure affecting aerial applicator operations	SDG&E sent notification letters to aerial applicators operating in San Diego and Imperial Counties on July 6, 2010. Copies of these notifications were sent to the CPUC, BLM and County Farm Bureaus on July 13, 2010 for their administrative record. The notification advised when and where the new transmission line and towers will be erected and included aerial maps depicting the proposed project route and agricultural lands near the route.
AG-03b: Provide maps of the alignment on or near agricultural lands	SDG&E sent notification letters to aerial applicators operating in San Diego and Imperial Counties on July 6, 2010. Copies of these notifications were sent to the CPUC, BLM and County Farm Bureaus on July 13, 2010. The notification advised when and where the new transmission line and towers will be erected and included aerial maps depicting the proposed project route and agricultural lands near the route.
C-01a: Submit cultural resources inventory prior to construction	A Final Class III Inventory was approved by the CPUC and BLM on June 2, 2010.
C-01a: Stake tower locations prior to cultural resource field surveys	The selected ROW and tower locations were staked prior to the cultural resource field surveys.
C-01b: Protect potential and register-eligible resources from direct project impacts	The Project Modification Report and Mapbook, which was approved by the CPUC and BLM through a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates that the final design of the alignment incorporates changes to avoid impacts to potentially register-eligible and register-eligible resources based on preliminary review of the National Register of Historic Places and consultation with the SHPO.  The Final Class III Inventory, which was approved by the CPUC and BLM on June 2, 2010, determined that no cultural resource sites will be directly impacted on Link 5.
C-01b: Undertake additional studies if resources cannot be protected from direct impacts	Based on the Final Class III Inventory, all cultural resource sites have been avoided on Link 5.
C-01b: Incorporate results of studies in HPTP	The results of the the evaluation studies were incorporated in the Historic Properties Treatment Plan (HPTP), which was approved on July 7, 2011.
C-01b: Designate NRHP and/or CRHR resources as ESA if within 50 feet of direct impact	SDG&E will designate NRHP and/or CRHR resources as an ESA if within 50 feet of direct impact areas. These ESAs will be monitored by archaeological and Native American monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
C-01b: Erect protective flagging or other markers for ESA	If cultural resources sites identified on this link (or within 50 feet of the right-of-way) are determined to be eligible by the SHPO or Native American Tribes, protective fencing and markers will be used to designate areas that can be avoided as an ESA. These ESAs will be monitored by cultural monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
C-01b: Develop and implement monitoring program as part of HPTP	A monitoring program was incorporated into the Historic Properties Management Plan. The HPMP was submitted to the CPUC, BLM, USFS, ACOE and Native American Tribes on May 3, 2010. As required under the Programmatic Agreement, this plan was approved by the CPUC, BLM and USFS in July 2010. This plan will be implemented during construction.
C-01c: Submit Historic Properties Treatment Plan	The Historic Properties Treatment Plan (HPTP) was approved on July 7, 2011.
C-01d: Conduct data recovery investigations to reduce adverse effects	Data gathered during the eligibility evaluation phase is summarized in the Historic Properties Treatment Plan (HPTP). Data-recovery methods, sample sizes, and recommended procedures are detailed in the HPTP as appropriate. The proposed mitigation for resource impacts are also presented in the HPTP, which was approved on July 7, 2011.

Mitigation Measure and APM	Status
C-01d: Submit field closure report prior to construction within 100 feet of affected resource	This mitigation measure was fulfilled for those resource areas to which it applies.
C-01d: Submit final report of data-recovery investigations within 1 year of completing fieldwork	This mitigation measure will be fulfilled within one year of the completion of fieldwork.
C-01e: Implement archaeological monitoring at cultural ESAs	A qualified archaeologist will conduct full-time monitoring during ground-disturbing activities in ESAs. The Historic Properties Treatment Plan (HPTP) includes locations of ESAs and protection boundaries. The HPTP provides recommendations for further management and monitoring during construction.
C-01e: Qualification of archaeologists must be approved	The qualifications of the principal archaeologist and archaeological monitors were submitted to the BLM and CPUC for approval on July 20, 2010. Cultural monitor resumes were approved by the BLM on September 30, 2010. Only monitors approved by the CPUC and BLM will work on the Project. A list of all approved monitors will be updated throughout the project.
C-01e: Retain and schedule any required Native American monitoring	A Historic Properties Management Plan (HPMP) was approved by the CPUC, BLM, and USFS in July 2010. The HPMP includes locations where Native American monitoring will be required. The Historic Properties Treatment Plan provides recommendations for further management and monitoring during construction.
C-01e: Submit cultural resources monitoring monthly reports during construction	This mitigation measure will be fulfilled during construction.
C-01e: Notify if any damage to cultural resource ESAs and divert work to a buffer distance	This mitigation measure will be fulfilled during construction.
C-01f: Train construction personnel to recognize and protect cultural resources	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions regarding the recognition of possible buried cultural remains and protection of all cultural resources. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
C-02a: Avoid known Native American remains and protect with ESA designation	Government-to-government consultations have been ongoing. SDG&E has avoided direct impacts to known locations of Native American human remains and will continue to avoid direct impacts to Native American human remains. Records of consultations are being held with the BLM. No known locations of Native American remains occur along Link 5. If Native American remains are encountered during construction, this mitigation measure will be implemented.
C-02a: Contact agencies if sites will be affected	SDG&E has avoided direct impacts to known locations of Native American human remains and will continue to avoid direct impacts to Native American human remains. Any discoveries will be processed in the manner described in this measure and detailed in the HPMP and HPTP for this project.
C-02a: Assist and support MLD with reinterment location	SDG&E will provide all necessary support to the Most Likely Deceased (MLD) if Native American human remains are encountered during construction.
C-02a: Follow laws that govern treatment of human remains	SDG&E will follow all laws, statutes and regulations as appropriate if Native American human remains are encountered during construction.
C-02a: Support in consultations with Native Americans and implement required actions and studies	Government-to-government consultations have been ongoing. Records of consultations are being held with the BLM. This measure will be satisfied during construction.
C-02a: Divert work if human remains are discovered and inform officer	This measure will be implemented as defined if human remains are discovered during construction.
C-03a: Implement archaeological monitoring	Archaeological and Native American monitors will be on-site during subsurface construction disturbance at all locations identified for buried archaeological deposits in the Historic Properties Treatment Plan (HPTP). Monitoring will be conducted per the HPTP and the Historic Properties Management Plan (HPMP). The HPMP was approved by the CPUC, BLM, and USFS in July 2010. The HPTP was approved on July 7, 2011.
C-03a: Divert work if buried cultural material discovered and notify archaeologist	This mitigation measure will be fulfilled during construction.

Mitigation Measure and APM	Status
C-04a: Assist and support BLM in consultations with Native Americans to assess impacts	The preconstruction component of this measure is complete; however, government-to-government consultations are ongoing. Records of consultations are being held with the BLM.
C-04a: Submit documentation of all pre-construction actions 30 days prior to construction	Written documentation of all preconstruction consultation actions completed to date was included in the HPMP, approved in July 2010, and the Final Class III Inventory. The preconstruction component of this mitigation measure is complete. Additional information will be provided to the BLM as the consultation process continues prior to and during construction. Actions that are required during or after construction are defined, detailed, and scheduled in the Historic Properties Treatment Plan and implemented by the Applicant, consistent with Mitigation Measure C-1c.
C-05a: Design a long-term plan to protect NRHP and/or CRHR eligible sites 30 days prior to project operation	The Long Term Cultural Resource Monitoring Plan is being prepared by SDG&E and will be submitted for review and approval at least 30 days prior to project operation.
C-06a: Provide inventory to conduct visual analysis of all known and potential historic built environment resources in HPTP	All known historic built environment resources located within 0.5 mile of the project have been inventoried and are included in the Historic Properties Treatment Plan (HPTP), which was approved on July 7, 2011. Historic built environment resources that are eligible for nomination to the National Register were analyzed for visual impacts from the project. The HPTP provides a summary of the findings and compensation mitigation for impacts to eligible historic era resources.
CR-APM-01: Instruct and provide a contract addressing protection and avoidance of cultural resources	The SWEAP video, approved by the CPUC on March 15, 2010, includes instructions regarding the recognition of possible buried cultural remains and protection of all cultural resources. A construction contract addressing state and federal laws regarding antiquities, fossils, and plants and wildlife, including the collection and removal, as well as the importance of these resources and the purpose and necessity of protecting them will be signed by each individual. Records of these contracts will be kept with the monitor. The SWEAP video will be shown to all project personnel prior to construction and enforced throughout all phases of the Project.
CR-APM-02: Flag archaeological sites eligible for National Register	Cultural site inventories have been conducted. Cultural resource sites have been avoided to the extent feasible and sites that cannot be avoided have been evaluated for National Register eligibility and included in the HPTP, which was approved on July 7, 2011. There are no National Register-eligible properties on the Cleveland National Forest that will be impacted by the project. Cultural resource sites in proximity to the project will be protected using Environmentally Sensitive Area designations.
CR-APM-02: Implement impact avoidance and APMs during construction	SDG&E consulted with the appropriate land management agencies to avoid impacts to cultural resources where feasible. The Project Modification Report and Mapbook, which was approved by the CPUC and BLM through a Determination Memorandum on September 22, 2010 and the USFS in the ROD dated July 9, 2010, illustrates that the final design of the alignment incorporates changes based on these consultations. Impact avoidance and APMs are described in the approved HPMP and HPTP. These measures will be implemented during construction.
CR-APM-03: Report within 24 hours any previously unidentified cultural resource discovered	This mitigation measure will be fulfilled during construction.
CR-APM-03: Suspend operations in the immediate area of the discovered cultural resource	This mitigation measure will be fulfilled during construction as needed.
CR-APM-03: Evaluate the discovered resource and determine appropriate actions.	This mitigation measure will be fulfilled during construction as needed.
CR-APM-03: Develop and implement a treatment plan to mitigate impacts	The HPTP and HPMP provide direction for discovery and mitigation of impacts to cultural resource sites.
CR-APM-04: Conduct maintenance and other activities in conformance with national standards	This mitigation measure will be fulfilled during construction.
CR-APM-05: Follow guidelines for cultural resources	The Historic Properties Management Plan (approved on July 15, 2010) and the Historic Properties Treatment Plan (approved on July 7, 2011) incorporate the guidance provided in this measure. SDG&E will continue to comply with cultural resources mitigation measures as outlined in the MMCRP.

Mitigation Measure and APM	Status
CR-APM-06: Avoid historic properties by fencing or barricading	Historic properties have been surveyed and included in the HPTP. The HPTP was approved on July 7, 2011. Properties that cannot be avoided will be flagged as ESAs. These ESAs will be monitored by cultural monitors during construction and observations will be summarized and submitted to the CPUC in the weekly report.
CR-APM-06: Implement a plan if historic properties cannot be avoided	The Historic Properties Management Plan (HPMP), which was approved by the CPUC, BLM, and USFS in July 2010, identifies historic properties along the Project route. The Historic Properties Treatment Plan, which was approved on July 7, 2011, includes details regarding the recording, relocation, and data recovery of historic properties, as well as compensation mitigation for project impacts.
CR-APM-07: Control impacts that can deteriorate historic	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement protective measures to minimize erosion and weeds	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement control measures to minimize vibration, dust, and fumes	This mitigation measure will be fulfilled during construction.
CR-APM-07: Minimize deterioration to buildings and structures	This mitigation measure will be fulfilled during construction.
CR-APM-07: Implement a plan if deterioration cannot be avoided	This mitigation measure will be fulfilled during construction.
CR-APM-08: Avoid and protect landscaping essential to historic property	SDG&E has consulted with the appropriate property owners to avoid impacts to historic properties. The April 30, 2010 Mapbook illustrates changes to the final design of the alignment incorporating re-design of the alignment based on these consultations. The Project Modification Report briefly discusses these reroutes. The Mapbook and PMR were approved by the BLM and CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
CR-APM-08: Minimize intrusion to the historic setting	This mitigation measure will be fulfilled during construction.
CR-APM-09: Install permanent fencing, barriers, or controlled access	This mitigation measure will be fulfilled during construction.
CR-APM-09: Restrict construction and operation access	This mitigation measure will be implemented during construction.
CR-APM-09: Instruct construction and maintenance personnel to protect sensitive properties	Construction and maintenance personnel will be instructed in protection of sensitive properties.
CR-APM-10: Span conductors over historic property	A memo was submitted to the CPUC on September 13, 2010 documenting compliance with this mitigation measure. As part of the final design, SDG&E located project structures so that conductors span linear historic property to the extent feasible.
CR-APM-10: Boring shall avoid disturbance to historic property	Boring is not required to avoid historic properties on the overhead portion of the line; therefore, this mitigation measure is not applicable.
CR-APM-11: Implement standard practices on private land	The preconstruction component of this measure is complete and SDG&E's standard practices will be implemented throughout the duration of the project.
CR-APM-12: Conduct cultural surveys for staging areas not yet identified	The April 30, 2010 Mapbook illustrates changes to the final design of the alignment incorporating a redesign of the alignment based on these surveys. The Project Modification report briefly discusses these changes. The Mapbook and PMR were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and the USFS in the ROD dated July 9, 2010.
PAL-01a: Submit an inventory of significant paleontological resources	SDG&E has conducted and submitted a "Paleontological Records" report dated February 25, 2010 and a "Sunrise Powerlink Paleontological Monitoring and Discovery Treatment Plan" dated April 7, 2010. These documents were approved by the CPUC, BLM and other involved land-managing agencies on July 30, 2010.
PAL-01b: Submit a Paleontological Monitoring Treatment Plan	The Paleontological Monitoring and Treatment Plan was developed by a qualified paleontologist based on Society of Vertebrate Paleontology guidelines and was approved by the BLM, CPUC and other agencies with jurisdiction on July 20, 2010.

Mitigation Measure and APM	Status
PAL-01c: Conduct full-time paleontological construction monitoring	The areas that require paleontological monitoring have been identified and monitors will be present during ground disturbance activities.
PAL-01c: Conduct part-time monitoring of sediments with low marginal undetermined sensitivity	This mitigation measure will be fulfilled during construction.
PAL-01c: Divert construction activities when significant fossils are recovered	The approved Monitoring and Treatment plan specifies a process for the discovery of paleontological resources.
PAL-01d: Implement Treatment Plan if significant paleontological resources are unavoidable	This mitigation measure will be fulfilled during construction.
PAL-01e: Train construction personnel on paleontological resources	The SWEAP video, which was approved by the CPUC on March 15, 2010, will be shown to all project personnel and enforced throughout all phases of the Project. The SWEAP video includes instructions on the recognition of possible subsurface paleontological resources and protection of all paleontological resources during construction.
N-01a: Obtain a variance for night construction or 200 feet from sensitive receptors 45 days prior to construction	This mitigation measure will be fulfilled during construction. If it is determined that a variance is needed for construction noise, it will be applied for and obtained prior to construction.
N-01a: Employ noise suppression techniques	This measure will be implemented during construction.
N-02a: Manage blasting with a plan for each site 45 days prior to construction	The preconstruction component of this measure is complete. A Blasting Preparation and Protection Plan was submitted to the CPUC on July 7, 2010. If blasting is deemed necessary, a site-specific blasting plan will be submitted to the CPUC and implemented during construction.
N-02a: Restore damaged structure and compensate owner	This mitigation measure will be fulfilled post construction, as needed.
NOI-APM-01: Provide notice to sensitive receptors and residences within 300 feet of construction	The Construction Notification Plan addresses providing notice to sensitive receptors within 300 feet of construction sites, staging areas, and access roads. The Construction Notification Plan was submitted to the CPUC on August 26, 2009 and approved by the CPUC on March 1, 2010. The preconstruction component of this measure is complete. SDG&E will provide the CPUC with verification that notifications were made prior to start of construction.
NOI-APM-01: Provide a public liaison person before and during construction.	The Construction Notification Plan, which was approved by the CPUC on March 1, 2010, identifies the public liaison person who will respond to concerns of neighboring receptors about noise disturbances.
NOI-APM-01: Establish a toll free number for questions and complaints	The Construction Notification Plan, which was approved by the CPUC on March 1, 2010, identifies the toll free telephone number established by SDG&E for receiving questions or complaints during construction. The Construction Notification Plan also identifies procedures for responding to callers.
T-01a: Restrict lane closures or obstructions on major roadways	SDG&E submitted two memos to the CPUC for their administrative record documenting coordination regarding traffic issues. A memo documenting coordination with Imperial County was submitted to CPUC on October 15, 2010. Documentation of coordination with San Diego County and Caltrans was submitted on October 20, 2010. Lane closures are not anticipated to occur; however, if lane closures do occur this measure will be implemented during construction. Lane closures will be addressed in traffic plans as required by any encroachment permits required by the agencies.
T-04a: Provide temporary pedestrian access	Interference with pedestrian access is not anticipated to occur. However, if temporary closures of sidewalks and other pedestrian facilities do occur during construction, this measure will be implemented.
T-04a: Provide detours and signs for bike route closures	Bike route or path closures are not anticipated to occur. However, if bike route or bike path closures do occur during construction, this measure will be implemented.
T-05a: Coordinate road repairs with public agencies	This measure will be implemented post construction.
T-05a: Protect drainage structures and incorporate measures into access agreement/easement	Access agreements/easements will be obtained prior to any road work. Measures required in the agreement/easement will be implemented during construction.



Mitigation Measure and APM	Status
T-07a: Conform to agency requirements if parking spaces are eliminated or relocated	The Construction Notification Plan addresses notification of the public through local newspapers and on-site postings when parking spaces may be temporarily eliminated or relocated. The Plan was submitted to the CPUC on August 26, 2009 and approved by the CPUC on March 1, 2010. Impacts to parking are not anticipated. However, if parking spaces are eliminated or relocated as a result of construction, SDG&E will post "No Parking" signs 48 hours in advance to notify the public of potential short-term elimination of parking spaces.
T-09a: Prepare a Construction Transportation Management Plan	A project-wide Traffic Study was submitted on April 28, 2010 and approved by Imperial County on August 19, 2010, San Diego County on September 29, 2010 and Caltrans on August 19, 2010. The Study revealed that there is only one area, Highway 67 on Link 5, where a CTMP will be required. Documentation of coordination with Imperial County was submitted to CPUC on October 15, 2010. Documentation of coordination with San Diego County and Caltrans was submitted on October 20, 2010.
T-11b: Provide notification when and where the line will be erected prior to construction	SDG&E has consulted with U.S. Customs and Border Patrol regarding the location of new transmission lines and towers. SDG&E met with U.S. Customs and Border Patrol representatives on December 17, 2009, February 8, 2010, and April 20, 2010. A memo documenting this coordination was provided to CPUC for the administrative record on October 15, 2010.
T-11b: Provide maps of the alignment near the U.S./Mexico border	The April 30, 2010 Mapbook, which was approved by the CPUC and BLM in a Determination Memorandum on September 22, 2010, includes aerial images that clearly show the new lines and towers in relation to the U.S./Mexico border within San Diego and Imperial counties. SDG&E provided a copy of this Mapbook to border patrol aircraft, the U.S. Customs and Border Patrol, and the CPUC on May 14, 2010. SDG&E consulted with the U.S. Customs and Border Patrol on December 17, 2009, February 8, 2010, and April 20, 2010.
T-APM-02a: Obtain permits for temporary lane closures	In areas where a temporary lane closure is determined to be necessary, SDG&E will obtain required permits from Imperial County, San Diego County, and Caltrans. This measure will be satisfied during construction. See mitigation measure T-9a regarding coordination with Imperial County, San Diego County, and CalTrans regarding traffic impacts.
T-APM-02b: Submit Detour Plans	In an area where detours are determined to be necessary, SDG&E will submit detour plans to Imperial County, San Diego County, and Caltrans. No detours will occur until detour plans are submitted to the appropriate agency and permits are obtained. This measure will be implemented during construction. See mitigation measure T-9a regarding coordination with Imperial County, San Diego County, and CalTrans related to traffic impacts.
T-APM-02b: Right-of-Entry permit required for construction and maintenance activities outside of easements in the ABDSP	No project activities will occur within ABDSP; therefore, this mitigation measure is not applicable.
T-APM-02b: Provide a request for maintenance or other earth-disturbing activities within California State Parks	No project activities will occur on California State Park land; therefore, this measure is not applicable.
T-APM-04a: Coordinate in advance with emergency service providers	SDG&E will coordinate with emergency service providers prior to initiation of construction activities that would restrict movements of emergency vehicles.
T-APM-04a: Notify cities and counties regarding construction activities	SDG&E shall notify and provide required information to counties and cities prior to initiation of construction activities that could impact police, fire, ambulance and paramedic services.
T-APM-05a: Coordinate construction activities adjacent to school bus stops with school districts 1 month prior to construction	SDG&E has coordinated with school districts project-wide to discuss construction activities adjacent to school bus stops. Documentation of this coordination effort was provided to CPUC for the administrative record on October 28, 2010.
T-APM-05a: Consult with transit authorities 1 month prior to construction	SDG&E has coordinated with the Metropolitan Transit District to discuss construction activities and potential impacts to transit services. Documentation of this coordination effort was provided to CPUC for the administrative record on October 28, 2010.
T-APM-06b: Parking in San Diego County shall comply with County regulations and per an approved traffic control plan	This measure will be implemented during construction.

Mitigation Measure and APM	Status
T-APM-08a: Obtain permit(s) if entering railroad right-of-way	No railroad crossing permits are required for Link 5; therefore, this mitigation measure is not applicable.
T-APM-09a: Underground utility facilities within 1,000 feet of an Officially Designated Scenic Highway	There will be no new or relocated utility facilities on Links 1, 2, or 5 within 1,000 feet of an Officially Designated Scenic Highway. Therefore, this measure is not applicable to Links 1, 2, or 5.
T-APM-10a: Ensure continuous access to properties	During construction, SDG&E will ensure that the construction contractor provides driveway access to businesses and residences.
HS-APM-01: Train personnel using hazardous materials	The SWEAP video that was approved by the CPUC on March 15, 2010 includes training on hazardous materials management procedures. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
HS-APM-01: Develop a Hazardous Communication Plan	The Sunrise Powerlink Hazard Communication (HazCom) Plan was approved by the CPUC on April 2, 2010. The HazCom Plan includes site-specific information and the location of MSDS.
HS-APM-02: Trained personnel to perform refueling	Refueling will only be performed by operators trained in refueling of vehicles or equipment.
HS-APM-02: Conduct refueling in designated areas or by assigned vehicles	Refueling will be performed in designated areas or by a mobile refueling tanker with secondary containment.
HS-APM-03: Develop applicable safety plans	The Sunrise Powerlink Hazard Communication Plan (HazCom) was approved by the CPUC on April 2, 2010. The HazCom Plan includes site specific information and the location of MSDS. Appropriate safety plans, such as a HMBP and/or SPCC Plan will be developed as the project progresses and storage locations are identified. Plans will be updated during construction as needed.
HS-APM-04: Develop site specific blasting plan	SDG&E will prepare a site specific blasting plan prior to blasting. This measure will be satisfied during construction.
HS-APM-04: Use California licensed Blasting Contractor	A California licensed Blasting Contractor shall be used for all blasting operation.
HS-APM-05: Investigate impacts of all contaminated sites	The Soil Management Plan was submitted to the CPUC on July 2, 2010 and approved on September 9, 2010. The Soil Management Plan addresses the requirements stipulated in this measure. The Phase 1 Environmental Site Assessment was submitted to CPUC on December 3, 2009 and provides additional information, as well as the results of the investigation.
HS-APM-06: Investigate UXO by trained contractor	An investigation of the project ROW has been conducted by In Depth Corporation, a trained contractor. A memo summarizing these results was submitted to the CPUC on October 7, 2010. A revised memo was submitted on October 26, 2010 to address comments received from the CPUC.
HS-APM-06: Remove UXO by trained personnel	An investigation of the project ROW was conducted by a UXO trained contractor. No UXO were located; however, if potential UXO is found during construction, construction will be temporarily halted until a trained contractor can assess the situation.
HS-APM-07: Train personnel to recognize UXO	The SWEAP video was approved by the CPUC on March 15, 2010 and discusses training of personnel involved in excavation regarding recognition of UXO.
HS-APM-08: Assign Environmental or Health & Safety Representative	SDG&E has assigned Steve Riggs, Field Monitoring Manager with Burns & McDonnell, as the Environmental Field Representative project-wide.
HS-APM-09: Contact airport representatives within 2 miles	A memo was submitted to the CPUC for the administrative record documenting compliance with Mitigation Measure HS-APM-9, Task 1, on September 10, 2010.
HS-APM-10: Store and dispose of hazardous waste per regulations	If hazardous wastes are generated, they will be properly disposed of and stored in accordance with all applicable federal and state regulations. Hazardous material minimization measures shall be employed whenever possible.
HS-APM-11: Develop Fire Prevention and Response Plan	The Fire Plan, acknowledged by the CAL Fire Chief, was submitted to the CPUC on December 14, 2009 and approved on February 2, 2010. The USFS approved the plan January 19, 2011.
HS-APM-11: Assign Fire Marshal to enforce fire prevention provisions	The Fire Plan, acknowledged by the CAL Fire Chief, was approved by the CPUC on February 2, 2010 and the USFS on January 19, 2011. A project Fire Marshall has been hired for the project and is assigned to enforce the FPRP.

Mitigation Measure and APM	Status
HS-APM-12: Develop a Traffic Control Plan	See T-9a
HS-APM-14: Conduct environmental training to construction workers	The SWEAP video, which was approved by the CPUC on March 15, 2010, provides environmental training to construction workers regarding potential exposure. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
HS-APM-15: Stop work if soil or groundwater contamination is suspected	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-16: Terminate work and implement health and safety procedures if contamination is suspected	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-16: Take preliminary samples and send to lab for testing	This mitigation measure will be fulfilled during construction if suspected contaminated soil or water is discovered.
HS-APM-17: Work may proceed if no contamination	This mitigation measure will be fulfilled during construction.
HS-APM-17: Notify agencies if contamination is above regulatory limits	This mitigation measure will be fulfilled during construction.
P-01a: Implement an environmental monitoring plan	The Environmental Monitoring Plan was submitted to the CPUC on May 10, 2010. In addition, the SWEAP video, approved by the CPUC on March 15, 2010, discusses implementation of the Environmental Monitoring Program; maintenance of emergency spill supplies and equipment; the proper use of hazardous materials, development of a Hazardous Communication Plan; development of applicable environmental safety plans associated with hazardous materials; assignment of an Environmental Field Representative and/or General Contractor to the Health & Safety Office for the project; proper disposal/storage of hazardous and solid wastes in accordance with federal, state, and local regulations; and environmental training regarding potential exposure. The SWEAP video will be shown to all project personnel and enforced throughout all phases of the Project.
P-01a: Designate an Environmental Field Representative	The Environmental Monitoring Plan was submitted to CPUC on May 10, 2010. The Plan states that the Environmental Field Representative/ Lead Monitoring Manager for this Project is Steve Riggs.
P-01b: Maintain hazardous material spill kits onsite	This measure will be implemented during construction.
P-02a: Test farmed soil samples and submit sampling and testing plan 60 days prior to construction	The Sampling and Testing Plan was approved on March 23, 2010. The Agricultural Sampling Report dated May 7, 2010 was approved on September 2, 2010 and an amendment to the Sampling Report was approved on January 31, 2011. The Soil Management Plan was approved by the CPUC on September 9, 2010.
P-02a: Submit laboratory results 30 days prior to construction	The Sampling and Testing Plan was approved on March 23, 2010. The Agricultural Sampling Report dated May 7, 2010 was approved on September 2, 2010 and an amendment to the Sampling Report was approved on January 31, 2011. The Soil Management Plan was approved by the CPUC on September 9, 2010. This measure is complete for all project areas with the exception of one property in Link 5 associated with structures CP63 and CP64.
P-02a: Follow regulatory procedures for handling and disposal of contaminated soil	Excavated materials containing elevated levels of pesticide or herbicide will be managed in compliance with the Soil Management Plan approved by the CPUC on September 9, 2010.
P-02a: Use effective dust suppression procedures	During construction, effective dust suppression procedures will be used in construction areas to reduce airborne emissions of these contaminants and reduce the risk of exposure to workers and the public.
P-02a: Consult regulatory agencies for handling, treatment, and/or disposal	Regulatory agencies for the State of California (DTSC or RWQCB) and San Diego County will be contacted by SDG&E or its contractor to plan handling, treatment, and/or disposal options.
P-03a: Collect soil or groundwater samples if contaminated	This measure will be implemented during construction.
P-03a: Coordinate with regulatory agencies if contaminated soil or groundwater confirmed by laboratory data	This measure will be implemented during construction.

Mitigation Measure and APM	Status
P-03b: Submit report to agencies of contaminated soil within 30 days of laboratory data receipt	This measure will be implemented during construction.
P-07a: Implement steps 60 days prior to construction if excavation will occur	The Soil Management Plan was approved by the CPUC on September 9, 2010 as fully addressing the requirements of this measure. A Phase 1 Environmental Site Assessment was submitted to the CPUC for review on December 2, 2009. In the event that new areas requiring ground disturbance are identified during construction, a Phase 1 will be conducted and submitted to the CPUC prior to ground disturbance in those areas.
PS-01a: Limit conductor surface gradient	SDG&E submitted a memorandum to the CPUC on September 30, 2010 demonstrating that SDG&E has limited the conductor surface electric gradient in accordance with the IEEE Radio Noise Design Guide.
PS-02a: Identify objects within and near ROW for induced voltages and implement electrical grounding	A memorandum addressing completion of this measure was submitted to the CPUC on September 30, 2010 and approved on October 6, 2010.
AQ-01a: Pave, apply water 3 times daily, or apply soil stabilizers	A Dust Control Plan was submitted to the CPUC and approved on January 20, 2010. This measure will be implemented during construction, as well as the measures specified in the Dust Control Plan.
AQ-01a: Pre-water sites 48 hours prior to clearing	This mitigation measure will be fulfilled during construction.
AQ-01a: Reduce amount of disturbed area	This mitigation measure will be fulfilled during construction.
AQ-01a: Spray stock-piles daily or as needed	This mitigation measure will be fulfilled during construction.
AQ-01a: Cover loads in trucks or maintain 6 inches of free-board	This mitigation measure will be fulfilled during construction.
AQ-01a: Pre-moisten import and export dirt prior to transport	This mitigation measure will be fulfilled during construction.
AQ-01a: Sweep public streets daily if soil tracking visible	This mitigation measure will be fulfilled during construction.
AQ-01a: Plant vegetative ground cover following construction	This mitigation measure will be implemented immediately following construction.
AQ-01a: Apply soil stabilizers or water on inactive work areas	This mitigation measure will be fulfilled during construction.
AQ-01a: File a Dust Control Plan 30 days prior to construction	The Dust Control Plan was submitted to the CPUC and approved on January 20, 2010 and the Wildlife Agencies on November 10, 2010.
AQ-01b: Maintain construction equipment and use low-emission equipment	SDG&E will use available Tier 3 equipment, minimizing the use of Tier 2 equipment at the yard. Any portable equipment over 50 hp will be permitted with the local Air Pollution Control District (APCD) or the California Air Resources Control Board. Equipment run logs will be maintained on a daily basis and periodically submitted to the CPUC.
AQ-01h: Obtain NOx emission reduction credits or fund incentive programs prior to construction	Mitigation measure AQ-01h, which was required to achieve emission reductions to levels below the federal thresholds due to BLM activities, is no longer applicable. The emissions expected based on the PMR are less than the federal General Conformity de minimus thresholds for San Diego Air Basin as determined in the Memorandum of Determination issued by the CPUC and BLM in September 2010. For additional information refer to pages 8-9 of the memorandum. Emissions from activities on National Forest System lands are below the de minimus thresholds.
AQ-04a: Report quarterly the status of carbon credits	SDG&E submitted a proposal regarding greenhouse gas emissions off-sets to the CPUC on August 27, 2009. The emissions off-sets approach was conditionally approved on September 7, 2009. The CPUC sent an email approving the proposed off-set purchases on November 9, 2009, and SDG&E then purchased Climate Reserve Tonnes (CRTs) to satisfy this measure. Currently, SDG&E is in the process of retiring approximately 44,392 metric tons (48,934 short tons) of CRTs to offset the greenhouse gas emissions from Project construction. This action will satisfy SDG&E's mitigation obligation under AQ-04a. Documentation of the CRT retirement will be provided to the CPUC.



Mitigation Measure and APM	Status
AQ-04c: Submit SF6 leak detection and repair program 90 days prior to construction	On April 2, 2010, the CPUC approved the submittals provided by SDG&E that documented its partnership with the U.S. EPA and development of a SF6 Leak Detection and Repair Program, which addressed the requirements included in this measure. The CPUC approval acknowledged satisfaction of this measure.
AQ-04c: Become a Partner in EPA's SF6 Partnership prior to construction.	The Partnership MOU between SDG&E and the U.S. EPA was established on February 24, 2010.
AQ-04c: Report SF6 emissions to CCAR	A SF6 Leak Detection and Repair Program was approved on March 12, 2010 and discusses the reporting procedures to the CCAR. SDG&E will implement the program and submit reports as required,
AQ-APM-02: Prohibit grading when wind exceeds 25 mph	This mitigation measure will be fulfilled during construction. SDG&E will prohibit construction grading on days when the wind gusts exceed 25 mph.
AQ-APM-02: Cover loads in trucks or maintain 2 feet of freeboard	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Install snow fence-type windbreaks	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Limit vehicle speeds to 15 mph on unpaved roads	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Water unpaved roads	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Apply soil stabilizers	This mitigation measure will be fulfilled during construction.
AQ-APM-02: Contain exposed stockpiles of soil and other material	This mitigation measure will be fulfilled during construction.
AQ-APM-03: Use methods to minimize mud and dust tracking on paved roads	This mitigation measure will be fulfilled during construction. A Dust Control Plan was approved by the CPUC on January 20, 2010. Conditions of the Dust Control Plan will be implemented and enforced throughout the Project.
AQ-APM-04: Encourage carpooling to job sites	The SWEAP video, approved by the CPUC on March 15, 2010, encourages carpooling. This video will be shown to all Project Personnel and enforced throughout all phases of the Project.
AQ-APM-05: Minimize vehicle idling time with common sense approach	The SWEAP video was approved by the CPUC on March 15, 2010. The video addresses vehicle idling. The video will be shown to all Project personnel and enforced throughout all phases of the Project.
AQ-APM-05: Conduct briefings on common sense vehicle use	This mitigation measure will be implemented during construction.
H-01a (CC): Construct Chocolate Canyon Option in dry season	This mitigation measure will be fulfilled during construction.
H-01a (CC): Drainage control and BMPs in place prior to winter rains	This mitigation measure will be fulfilled during construction.
H-01a (CC): Implement Source Water Protection Guidelines	This mitigation measure will be fulfilled during construction.
H-01b: Project construction plans and SWPPP for Los Peñasquitos Canyon Preserve	Los Peñasquitos Canyon Preserve was part of the Coastal Link Alternative, which was not chosen as the Environmentally Superior Route.
H-01k: File hazardous substance plan within 1 year of license issuance	This mitigation measure is only applicable to USFS-managed lands. The Hazardous Substances Control & Emergency Response Plan was approved by the USFS on March 11, 2011. SDG&E will comply with all Forest Service conditions as required by the Special Use Permit.
H-01k: Confine vehicles to roads identified in a Road and Traffic Management Plan	This mitigation measure is only applicable to USFS-managed lands. SDG&E will comply with all Forest Service conditions as required by the Special Use Permit and implement the approved Road and Transportation Management Plan.
H-01k: File an Erosion Control Measure Plan prior to construction	The NPDES permits and associated SWPPPs were submitted to the CPUC on September 15, 2010. The USFS acknowledged adequacy of the SWPPPs on March 2, 2011. The conditions of the permit and SWPPP, which address the requirements of this measure, will be implemented and enforced during construction to prevent and avoid hydrologic impacts.



Mitigation Measure and APM	Status
H-01k: Submit NEPA analysis prior to ground disturbing work	The Final Environmental Impact Report/Environmental Impact Statement was submitted to the USFS. The Project Modification Report and Mapbook were approved by the USFS in the ROD dated July 9, 2010. This measure is only applicable to USFS-managed lands.
H-01k: Enter into a cost recovery agreement with the Forest Service	This measure is only applicable to USFS-managed lands. On May 4, 2009, SDG&E entered into a Cost Recovery Agreement (#09MJ-11050254201) for USFS review of SDG&E's proposal and application for the Special Use Permit.
H-01k: File a Water Resources Management Plan within 6 months of license issuance	SDG&E will control and monitor project-related effects to water resources on USFS land through the implementation of SWPPPs. The NPDES permits and associated SWPPPs were submitted to the CPUC on September 15, 2010. The USFS acknowledged adequacy of the SWPPPs on March 2, 2011.
H-01k: File a plan for ground and surface water management within 1 year of license issuance	A Water Use Study that discussed coordination efforts with local water districts was submitted for review on February 22, 2010. Groundwater supplies will not be used during project construction.
H-01l: Submit a site-specific sediment control plan and SWPPP prior to construction	The SWPPPs and NPDES permits associated with the following WDID #s 937C358184 and 937C358217 were submitted to the CPUC on September 15, 2010. The conditions of the permit and SWPPP will be implemented and enforced during the construction to prevent and avoid hydrologic impacts.
H-02d: Provide vehicle and equipment maintenance log monthly	This mitigation measure will be implemented during construction. A vehicle and equipment maintenance log will be provided to the CPUC and BLM once monthly during project construction.
H-04b: Manage blasting near wells or springs with a Blasting Plan for each site	A Wells and Springs Survey was submitted to CPUC on July 7, 2010 to address this mitigation measure prior to construction. This report was approved by CPUC on September 2, 2010. During construction, if blasting is determined to be necessary near a surveyed well or spring, SDG&E's contractor will prepare a blasting plan that addresses protection of the nearby well or spring.
H-06a: Determine which towers require scour protection during design phase	SDG&E provided the CPUC with an engineering report, sealed by a civil engineer registered in the State of California, demonstrating which towers may reasonably be subject to erosion during the life of the project. The report also provided plans for protection from scour, as well as an engineering demonstration that the tower and associated structures will not induce erosion onto adjacent property. The report was approved by the CPUC on October 7, 2010.
H-06a: Submit evaluation and design plans 60 prior to constructing towers	SDG&E provided the CPUC with an engineering report, sealed by a civil engineer registered in the State of California, demonstrating which towers may reasonably be subject to erosion during the life of the project. The report also provided plans for protection from scour, as well as an engineering demonstration that the tower and associated structures will not induce erosion onto adjacent property. The report was approved by the CPUC on October 7, 2010.
H-07a: Submit a Hazardous Substance Control and Emergency Response Plan 60 days prior to construction	<p>A memo was submitted to the CPUC for their administrative record on September 15, 2010 documenting compliance with this mitigation measure and provides the Waste Discharge Identification numbers assigned by the California State Water Resources Control Board. WDID numbers associated with Link 5 include: 937C358184 and 937C358217.</p> <p>Two site-specific SWPPPs have been developed for Link 5. These SWPPPs contain procedures (Section 8.0) to reduce the potential of spills and emergency response information to ensure quick and safe clean-up of spills. In addition, hazardous materials management is addressed in the Spill Prevention, Control and Countermeasure (SPCC) plans and Hazardous Materials Business Plans developed for the Project.</p>
WQ-APM-01: Minimize disturbance to water resources	This mitigation measure will be implemented during construction. Grading plans, which were submitted to the CPUC on September 2, 2010, demonstrate how disturbance to water resources will be minimized. In addition, the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010, address changes to the final alignment to reduce impacts to water resources.
WQ-APM-02: Avoid sensitive water features	Impacts to jurisdictional features were considered during design of the project and have been avoided, to the extent feasible. The locations of the structures are shown in the Project Modification Report and Mapbook, which were approved by the CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-2, on August 30, 2010.

Mitigation Measure and APM	Status
WQ-APM-03: Clearly mark restricted sites prior to construction	Specific sites, as identified by authorized agencies, will be staked and flagged by a qualified biologist prior to construction and documented in the weekly monitoring report. Surface disturbing activities will not be allowed to begin until the sites have been clearly marked, fenced or flagged to delineate those areas specifically allowed for use and those areas that are restricted.
WQ-APM-03: Train construction personnel to recognize markers	The SWEAP video, which was approved by the CPUC on March 15, 2010, includes recognition of markers and equipment movement restrictions. This SWEAP will be shown to all project personnel and enforced throughout all phases of the Project.
WQ-APM-04: Maintain adequate distance from stream banks	This mitigation measure will be fulfilled during construction.
WQ-APM-04: Use existing bridges to cross major streams	This mitigation measure will be fulfilled during construction.
WQ-APM-04: Span riparian areas where feasible	Impacts to surface water, riparian areas, and floodplains were considered during design of the project and have been avoided or will be spanned, to the extent feasible. Structure locations are shown in the Project Modification Report and Mapbook, which were approved by CPUC and BLM through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
WQ-APM-04: Prepare and implement erosion control BMPs per the SWPPP	The SWPPPs and NPDES permits associated with the following WDID #s 937C358184 and 937C358217 were submitted to the CPUC on September 15, 2010. In addition, SWPPPs applicable to USFS land were submitted to the USFS on March 2, 2011. The USFS acknowledged adequacy of the SWPPPs on March 11, 2011. The conditions of the permit and SWPPP will be implemented and enforced during construction to prevent and avoid hydrologic impacts.
WQ-APM-04: Select upland pull sites to minimize disturbance to water resources	Impacts to surface water, riparian areas, wetlands, and floodplains were considered during design of the project and have been avoided to the extent feasible. The locations of the pull sites are shown in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-4, on August 30, 2010.
WQ-APM-04: Do not place structures in streambeds or drainage channels	Impacts to surface water, riparian areas, wetlands, and floodplains were considered during design of the project and have been avoided to the extent feasible. The locations of the pull sites are shown in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum on September 22, 2010 and by the USFS in the ROD dated July 9, 2010. In addition, a memo was submitted to the CPUC for their administrative record documenting compliance with Mitigation Measure WQ-APM-4, on August 30, 2010.
WQ-APM-05: Construct stream crossings and develop a mitigation and restoration plan	SDG&E submitted a HMMP on July 14, 2010 as outlined in this mitigation measure. This plan was revised and provided to the agencies on October 7, 2010. The HMMP was accepted by the Army Corps of Engineers, California Department of Fish and Game, and State Water Resources Control Board in concept; however, the agencies requested that the plan be reformatted to break out each mitigation property. The revised plans (one for each of the five mitigation sites) were submitted to the agencies on November 30, 2010 and accepted on December 16, 2010. The USFS reviewed and acknowledged the HMMP on February 7, 2011 (Exhibit 13 of the SUP). This plan was prepared by a qualified habitat restoration specialist and will be implemented by a qualified habitat restoration specialist. The preconstruction component of this measure is complete.
WQ-APM-06: Avoid designated surface water protection areas	The final project alignment is in the vicinity of the following source water; Lake Morena, Barrett Lake, El Capitan Reservoir, and San Vicente Reservoir. All these source waters will be avoided. The nearest source water to a project facility is the El Capitan Reservoir (Link 5). Structure CP72-2 (PMR mapbook page MS-119) is within 350 feet of the reservoir. The pullsite adjacent to the structure is approximately 100 feet from the reservoir. The next nearest source water to a project facility is the San Vicente Reservoir (Link 5), which is approximately 1650 feet from structure CP39 (PMR mapbook page MS-132). All other source waters are at least 1 mile from a project facility.
WQ-APM-06: No diversions, detention, retention, or consumption of surface waters	This mitigation measure will be fulfilled during construction.
WQ-APM-06: Conduct interviews with affected landowners prior to construction	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.

Mitigation Measure and APM	Status
WQ-APM-06: Negotiate with landowners to provide alternative water supplies	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-08: Obtain permits prior to discharging groundwater into storm drains	Groundwater supplies will not be used during project construction; therefore this mitigation measure is not applicable.
WQ-APM-08: Contain and sample if dewatering and then release water according to test results	Discharge of groundwater and dewatering is not anticipated during construction. If it is later determined that dewatering is necessary, SDG&E will implement this measure as described.
WQ-APM-09: Storing fuels and hazardous materials prohibited near wells	This mitigation measure will be fulfilled during construction.
WQ-APM-10: Minimize stream bank erosion	See H-06a
WQ-APM-13: Dispose trash into enclosed containment	A trash enclosure will be provided during construction.
WQ-APM-13: Remove hazardous materials to a hazardous waste facility and promptly clean up if released onto ground	This mitigation measure will be fulfilled during construction.
WQ-APM-14: Obtain NPDES permit and implement a SWPPP	The SWPPPs and NPDES permits associated with the following WDID #s 937C358184 and 937C358217 were submitted to the CPUC on September 15, 2010. In addition, SWPPPs applicable to USFS land were submitted to the USFS on March 2, 2011. The USFS acknowledged adequacy of the SWPPPs on March 11, 2011. The conditions of the permits and SWPPPs will be implemented and enforced during the construction to prevent and avoid hydrologic impacts.
WQ-APM-15: Adjust route of access roads to avoid sensitive features	Revised 401, 404 and 1602 permit applications were submitted for review and approval on March 30, 2010. SDG&E received the signed 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement (SAA) on November 17, 2010. The ACOE 404 permit was received on January 7, 2011. Also see BIO-APM-05.
WQ-APM-15: Use existing roads or cross-country access routes	This mitigation measure will be fulfilled during construction.
WQ-APM-15: Clearly mark approved construction traffic routes	This mitigation measure will be fulfilled during construction.
WQ-APM-16: Conduct site-specific assessment where sensitive water resources cannot be avoided	Biological, hydrology and cultural resource assessments were completed in accordance with the ACOE and CDFG guidelines. Permit applications for ACOE 404 Nationwide 12, CDFG 1600 Streambed Alteration Agreement and Regional Water Quality Control Board 401 Water Quality Certification were submitted on March 30, 2010. SDG&E received the signed 401 Water Quality Certification on November 15, 2010. The California Department of Fish and Game issued the Streambed Alteration Agreement on November 17, 2010. The ACOE 404 permit was received on January 7, 2011.
WQ-APM-16: Locate staging/storage areas outside of riparian areas	SDG&E has located staging/storage areas for equipment and materials outside of riparian areas. This is demonstrated in the Project Modification Report and Mapbook, which were approved by the BLM and the CPUC through a Determination Memorandum dated September 22, 2010 and by the USFS in the ROD dated July 9, 2010.
WQ-APM-16: Obtain a Streambed Alteration Agreement when constructing new access through streambeds	The California Department of Fish and Game issued a Streambed Alteration Agreement (SAA) on November 17, 2010. A copy of the SAA will be maintained onsite during construction.
G-03a: Submit design-level geotechnical studies 60 day prior to final project design	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. CPUC issued a memorandum on June 18, 2010 confirming that this report satisfies the requirements of this mitigation measure.

Mitigation Measure and APM	Status
G-04a: Submit site-specific seismic analyses 60 days prior to final project design	A Geotechnical Report titled, "Geotechnical and Geologic Hazards Investigation Report" dated October 16, 2009 was submitted to CPUC for review and approval on April 19, 2010. An explanation of structure design based on windloading instead of seismic loading is included in the Executive Summary. The final project design is based on the findings of this report. CPUC's geotechnical consultant issued a memorandum on June 18, 2010 confirming that this report satisfies the requirements of this mitigation measure.
G-04b: Submit liquefaction studies 60 days prior to final project design	The Geotechnical and Geologic Hazards Investigation Report (dated October 16, 2009) was submitted to CPUC for review and approval on April 19, 2010. The final project design is based on the findings of this report. SDG&E will conduct additional geotechnical exploration, including borings, as soon as authorization is received from the appropriate land-managing agency. A supplemental report will be provided prior to installation of structures.
G-06a: Submit slope stability analyses 60 days prior to construction	The Geotechnical and Geologic Hazards Investigation Report (dated October 16, 2009) was submitted to CPUC for review and approval on April 19, 2010. The Geotechnical Evaluation, Access Roads and Structure Pads (dated October 16, 2009) was submitted to CPUC for review and approval on May 28, 2010. These reports included slope stability analyses as described in this measure. The final project design is based on the findings of these reports. As required by the CPUC memo dated June 18, 2010, additional investigations for landslide and rock fall hazards will occur in areas along Section 5 and Segment 4A of Link 5 prior to construction in these areas.
G-09a: Coordinate to determine status and plans of active quarries	There are no active quarries in Link 5. There is one property, Hansen, where quarry operations may occur in the future. SDG&E has coordinated with the Hansen property owner to determine the status of and plans for future quarry operations and SDG&E has agreed to compensate the owner if construction interferes with future quarry plans. This measure does not apply to USFS-managed lands.
G-09a: Submit plan to avoid impacts to mining operations 60 days prior to construction	There are no active quarries in Link 5. However, SDG&E has agreed to compensate the Hansen property owner if construction interferes with future quarry plans. This measure does not apply to USFS-managed lands.
G-09a: Provide map of reroute and summary of impacts to mining areas	Neither the SWPL or the Interstate 8 Alternative require a reroute due to quarry operations.
GEO-APM-01: No widening or grading of existing access roads if soil is sensitive to disturbance	The FEIR/EIS identified sensitive soils as "natural sand sources that supply the material for sand dune systems throughout the ABDSP." The project no longer impacts ABDSP and there are no sand dune systems along the project route; therefore, this mitigation measure does not apply.
GEO-APM-02: Minimize soil disturbance or return to pre-construction contours and condition	This mitigation measure will be implemented during construction.
GEO-APM-03: Avoid placing structures in areas of high shrink/swell potential	The Geotechnical and Geologic Hazards Investigation Report was submitted to CPUC for review and approval on April 19, 2010. The report determined that no areas of high shrink/swell are present. The CPUC geotechnical consultant issued a memorandum on June 18, 2010 confirming concurrence with this finding. Therefore, this measure does not apply.
GEO-APM-04: Place structures in geologically stable areas	See G-6a
GEO-APM-05: Implement construction to avoid or minimize new soil disturbance	The preconstruction portion of this measure is complete. Final grading and plan and profiles were submitted to the CPUC on September 2, 2010 and approved by the USFS on March 11, 2011. Project construction activities were designed to avoid or minimize new disturbance and erosion on manufactured slopes. SDG&E will adhere to the grading plans and the SWPPP during construction.
GEO-APM-05: Maintain cut and fill slopes with erosion control and repair	This mitigation measure will be fulfilled during construction.
GEO-APM-06: Perform surface restoration for erosion control and re-vegetation	Erosion control will be implemented under Project site-specific SWPPPs and shall include areas where re-contouring and substantial ground disturbance will be required. This mitigation measure will be fulfilled during construction.
GEO-APM-08: Remove or stabilize boulders and span structures over landslide areas	This mitigation measure will be fulfilled during construction.



Mitigation Measure and APM	Status
GEO-APM-09: Implement field mitigation efforts if paleontological resources are encountered	This mitigation measure will be fulfilled during construction.
GEO-APM-09: Consult with agencies if paleontological resources cannot be avoided	This mitigation measure will be fulfilled during construction.
PSU-APM-01: Coordinate with utility providers	There are no third party utilities that will be affected by the project on Link 5; therefore, this mitigation measure is not applicable. A memo was submitted to the CPUC documenting compliance with Mitigation Measure PSU-APM-1 on October 14, 2010 and approved November 5, 2010.
PSU-APM-02: Notify Underground Service Alert 48 hours prior to earth-disturbing activities	This mitigation measure will be implemented during construction.
PSU-APM-03: Minimize disruption to response times and access for emergency and police services	This mitigation measure will be implemented during construction.
S-02a: Provide copies of posted public notices of planned outages	This measure will be implemented during construction. Copies of notices and dates of public notification shall be provided to the CPUC and BLM prior to any planned outage.
S-02b: Submit documentation prior to construction of the underground transmission line	Link 5 does not include underground transmission line construction; therefore, this mitigation measure is not applicable.
S-03a: Provide documentation to show amount of waste recycled	This mitigation measure will be implemented during and following the completion of construction.
S-03b: Coordinate with water districts	A Water Use Study that discussed coordination efforts with local water districts was submitted for review on February 22, 2010. In addition, an Addendum to the 23 April 2010 Water Resources Availability Study (dated March 18, 2011) was submitted on March 21, 2011. SDG&E will obtain a variance for the use of reclaimed water outside of the Padre Dam and City of San Diego jurisdictions. Potable water will be used until the variance is obtained. Copies of variances will be submitted to the CPUC prior to use of reclaimed water.
S-03b: Provide letter 60 days prior to construction describing availability of reclaimed water and efforts to obtain for use	A Water Use Study describing the availability of reclaimed water was submitted on February 22, 2010. In addition, and Addendum to the 23 April 2010 Water Resources Availability Study (dated March 18, 2011) was submitted on March 21, 2011.
F-01a: Submit draft Construction Fire Prevention Plan 90 days prior to construction	A Construction Fire Plan was acknowledged by the CAL FIRE Chief and was approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011.
F-01a: Receive approval of final Plan 30 days prior to construction	A Construction Fire Plan was acknowledged by the CAL FIRE Chief and approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011.
F-01a: Implement Fire Plan during construction and maintenance	The preconstruction component of this measure has been completed. A Construction Fire Plan was acknowledged by the CAL FIRE Chief and was approved by the CPUC on January 20, 2010. The USFS approved the Fire Plan on January 19, 2011. The Construction Fire Plan includes the requirements of this mitigation measure and will be implemented and enforced during construction.
F-01c: Do not obstruct firefighting equipment or crews	This measure will be implemented during construction.
F-01c: Coordinate fire suppression activities and unobstruct access roads at all times	This measure will be implemented during construction.
F-01c: Cease construction in work areas if fire within 1,000 feet	This measure will be implemented during construction.
F-01c: Contact dispatch centers 2 days prior to helicopter use	This measure will be implemented during construction.



Mitigation Measure and APM	Status
F-01d: Clear and spread onsite dead and decaying vegetation prior to construction and maintenance	SDG&E will clear dead and decaying vegetation from work areas prior to initiating grading activities and/or maintenance work. Clearing of dead and decaying vegetation will be monitored during construction and observations will be summarized and submitted to the CPUC in the weekly report.
F-01e: Contribute an annual sum to be distributed as homeowner grants	This measure will be fulfilled prior to energizing the transmission line. SDG&E has established a Collection Agreement with USFS for receiving the funds required by Record of Decision and is working on subordinate agreements for the Defensible Space Fuel Treatment Plan (Special Use Permit Exhibit 21) and the Cameron Type 1 Helicopter Base Plan (Special Use Permit Exhibit 22).
F-02b: Relocate 69 kV lines onto non-specular steel poles using vertical conductor construction	SDG&E has incorporated non-specular steel poles into the project design in compliance with this mitigation measure. SDG&E provided the CPUC with final construction drawings for reference.
F-03a: Contribute annually to Powerline Firefighting Mitigation Fund	On-going efforts with CAL FIRE and local fire agencies are in progress to establish and provide oversight to the Powerline Firefighting Mitigation Fund. In addition, SDG&E has established a Collection Agreement with the USFS for receiving the funds required by the Record of Decision. The final agreement will be included in the Cameron Type 1 Helicopter Base Plan (Special Use Permit Exhibit 22). This measure will be fulfilled prior to energizing the transmission line.
F-03b: Create and implement a Multi-agency Fire Prevention MOU	SDG&E has prepared a draft Fire Prevention MOU. Draft comments from CAL FIRE and local fire agencies have been incorporated and on-going efforts are in progress to refine the draft MOU.



**ATTACHMENT B: STATUS OF SPECIAL USE PERMIT EXHIBITS**



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<b>Exhibit No.</b>	<b>Title</b>	<b>Submittal Date</b>	<b>Signature Page Status</b>	<b>Remarks</b>
1	Project Overview Map	May 14, 2010	Not applicable (NA)	Exhibit 1 has been submitted. Signature page not required.
2	Project Map Book	May 14, 2010	NA	Exhibit 2 has been submitted. Signature page not required.
3	Construction Schedule	January 28, 2011	NA	Exhibit 3 has been submitted. SDG&E will continue to provide the USFS with updates to the construction schedule.
4	Construction Plans, Drawings, Specifications	January 13, 2011 January 28, 2011	Received	Signature page received March 11, 2011 for Construction Plans and Drawings.  No approval required for Construction Specifications.
5	Temporary Use Areas	February 7, 2011	NA	Signature page not required, but received March 4, 2011.
6	Road and Transportation Management Plan	January 11, 2011	Received	Signature page received January 13, 2011.  An updated version of this plan was provided to Brian Paul of the USFS on July 21, 2011.
7	Hazardous Substance Control & Emergency Response Plan	March 3, 2011	Received	Signature page received March 11, 2011.
8	SWPPP	March 2, 2011	Received	Signature page received March 11, 2011.
9	Fire Plan	January 13, 2011	Received	Signature page received January 19, 2011.
10	Weed Control Plan	January 7, 2011	Received	Signature page received January 13, 2011.
11	Habitat Restoration Plan (RSSP & RSVP)	January 11, 2011 March 3, 2011	Received	Signature page received April 7, 2011.



Attachment B: Status of Special Use Permit Exhibits

Exhibit No.	Title	Submittal Date	Signature Page Status	Remarks
12	Habitat Acquisition Plan	February 7, 2011	Received	Signature page received March 4, 2011.
13	Wetland Mitigation Plan (HMMP)	January 20, 2011	Received	Signature page received February 7, 2011.
14	Biological Opinion	NA	NA	The Biological Opinion was issued November 10, 2010. Signature page not required.
15	Scenery Conservation Plan	March 16, 2011	Received	Signature page received July 27, 2011.
16	Programmatic Agreement for Cultural Resources	NA	NA	The Programmatic Agreement was entered into by the signatory parties, and executed by the USFS in January 2009.
17	Historic Properties Management Plan	NA	Received	The Historic Properties Management Plan was approved July 2010. Signature page was received January 13, 2011.
18	Record of Decision and Mitigation Measures	NA	NA	The USFS Record of Decision was issued July 9, 2010. Signature page not required.
19	Recreation Facilities Improvement Plan	TBD	Pending; not required prior to construction	Exhibit 19 is currently being developed. Signature page not required prior to initiating construction.
20	Pacific Crest Trail Route Mitigation Plan	TBD	Pending; not required prior to construction	Exhibit 19 is currently being developed. Signature page not required prior to initiating construction.
21	Defensible Space Fuel Treatment Plan	TBD	Pending; not required prior to construction	Exhibit 21 is currently being developed. Signature page not required prior to initiating construction.
22	Cameron Type 1 Helicopter Base Plan	TBD	Pending; not required prior to construction	Exhibit 22 is currently being developed. Signature page not required prior to initiating construction.

<b>Exhibit No.</b>	<b>Title</b>	<b>Submittal Date</b>	<b>Signature Page Status</b>	<b>Remarks</b>
23	Operation Plan for Geotechnical Testing	January 14, 2011 February 9, 2011	Received	Signature page received March 4, 2011.
24	Avian Monitoring & Mitigation Plan	January 14, 2011 March 2, 2011	Received	Signature page received June 30, 2011.
25	Temporary Mobile Radio Communication Plan	January 14, 2011	Received	Signature page received January 27, 2011.