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1.0 PEA SUMMARY

In accordance with the California Public Utilities Commission (CPUC) General Order 131-D, this Proponent's Environmental Assessment (PEA) has been prepared by San Diego Gas & Electric Company (SDG&E) to support SDG&E's application for a Certificate of Public Convenience and Necessity (CPCN) for the Sycamore to Peñasquitos 230 kilovolt (kV) Transmission Line Project (Proposed Project)¹.

As discussed in more detail below, the overall purpose of the Proposed Project is to improve the reliability of the existing transmission system in the San Diego metropolitan area through the addition of a new 230 kV transmission line between the existing SDG&E Sycamore Canyon and Peñasquitos Substations. The Proposed Project involves the installation of a new 230 kV transmission line and the consolidation of two existing 69 kV power lines onto new double-circuit, steel structures that would replace existing, predominantly wood structures. The Proposed Project is located within existing SDG&E right-of-way (ROW), where SDG&E currently maintains and operates existing electric transmission, power, distribution and substation facilities, and City of San Diego franchise position.

This PEA Summary briefly describes the location and primary components of the Proposed Project, the Proposed Project need and range of alternatives considered, the PEA contents, the major conclusions of the PEA, SDG&E's public outreach and consultation efforts, areas of controversy, and issues to be resolved. As discussed below, in light of the existing environmental baseline and ordinary construction/operating restrictions and Applicant Proposed Measures (APMs) incorporated into the Proposed Project, no significant, unavoidable environmental impacts have been identified.

1.1 PROJECT LOCATION

Proposed Project components are located in San Diego County, California within the cities of San Diego and Poway, and on the extreme northern portion of Marine Corps Air Station (MCAS) Miramar. The Proposed Project location is discussed in more detail in Section 3, Proposed Project Description. The Proposed Project comprises the addition of one new 230 kV transmission line within existing SDG&E ROW and franchise position (city streets) between the existing SDG&E Sycamore Canyon and Peñasquitos Substations.

1.2 PROPOSED PROJECT COMPONENTS

The Proposed Project includes the following primary components and is generally divided into four discrete segments (Segment A through D) below:

¹ The California Independent System Operator selected SDG&E's proposal to construct and operate the Proposed Project following their 2012-2013 Transmission Plan Competitive Solicitation Process (CAISO Sycamore-Penasquitos Project – Project Sponsor Selection Report [March 4, 2014]).

- Construction of new tubular steel 230 kV transmission poles and 138 kV power poles within existing SDG&E ROW between the existing Sycamore Canyon Substation and Carmel Valley Road (Segment A);
- Installation of a new 230 kV underground transmission line in Carmel Valley Road (franchise position) and new cable pole structures at each corridor end (Segment B);
- Installation of new 230 kV conductor on a vacated position of the existing 230 kV steel structures within existing SDG&E ROW between Carmel Valley Road and Peñasquitos Junction², and Peñasquitos Junction and Peñasquitos Substation, respectively (Segments C and D);
- Consolidation, relocation, and reconductoring of existing 230 kV transmission lines and 138 and 69 kV power lines (Segment C and D); and
- Minor substation modifications at the Sycamore Canyon and Peñasquitos Substations (Segment A and D) and potential minor alterations at the San Luis Rey, Encina, Palomar Energy and Mission Substations.

1.2.1 Segment A: Sycamore to Carmel Valley Road

Within existing SDG&E ROW, the existing 138 kV wood H-frame structures along an 8.31 mile segment between Sycamore Canyon Substation and Carmel Valley Road would be replaced with new tubular steel poles. Key elements of this component and associated work on this segment are:

- Installation of approximately 36 new double-circuit 230 kV and two 138 kV tubular steel poles and two new 230 kV tubular steel poles for TL 23041 connection at the Sycamore Canyon Substation;
- Removal of approximately 42 wood H-frame structures, two tubular steel poles, one double-circuit cable pole, and two single-circuit wood mono poles;
- Installation of new 230 kV conductor on new double-circuit 230 kV tubular steel poles;
- Relocation of existing Tie-Line (TL) 13820 and TL 13825³ to second position on the new double-circuit 230 kV tubular steel poles;
- Installation of existing TL 13820 in an underground position as it enters the Sycamore Canyon Substation; and
- Installation of new fiber optic Optical Ground Wire (OPGW) along the entire alignment.

² The Peñasquitos Junction refers to confluence of existing electric power and transmission lines where existing power lines TL 13804, TL 6920, and TL 675 turn from a north/south alignment and travel west into the Peñasquitos Substation.

³ TL 13825 was recently renumbered to 13811 independent of the Proposed Project. All references to TL 13825 refer to TL 13811.

1.2.2 Segment B: New Underground Transmission Line

A new 2.84 mile underground transmission line (underground cable) that would include both trenching and trenchless techniques would be constructed within Carmel Valley Road utilizing an existing franchise position. Other key elements of this segment are:

- Installation of approximately ten access splice vaults; and
- Construction of two new 230 kV tubular steel cable pole structures, one at either end of Segment B to transition between the above ground and below ground segments.

1.2.3 Segment C: New 230 kV Conductor on Vacated Position

The new 230 kV conductor would be installed on the vacated position of existing double-circuit 230 kV steel structures (10 steel lattice towers) along a 2.19 mile segment within existing SDG&E ROW between Carmel Valley Road and the Peñasquitos Junction. Additional key elements along this segment include:

- Replacement of an existing double circuit 230 kV steel lattice tower with a new double-circuit tubular steel pole at the Peñasquitos Junction;
- Reconductoring and bundling of existing TL 23001 and TL 23004 on the east side of the existing structures along Proposed Project Segment C⁴; and
- Removal of existing shield wire from steel lattice towers and installation of OPGW.

1.2.4 Segment D: Consolidation, Relocation and Reconductoring of Transmission Lines

Within existing SDG&E ROW, the new 230 kV conductor would be installed on the vacated position of existing double-circuit 230 kV steel structures that include 15 steel lattice towers and one tubular steel pole along a 3.34 mile segment between the Peñasquitos Junction and the Peñasquitos Substation. Additional key elements along this segment are:

- Installation of approximately 17 new 69 kV, double circuit tubular steel poles;
- Removal of 16 existing 69 kV wood H-frame structures and five wood monopole structures that currently support TL 675 and TL 6906;
- Consolidation of existing 69 kV power lines (TL 675 and TL 6906) onto new tubular steel poles;
- Replace two existing 69 kV single circuit cable poles with single circuit tubular steel cable poles;
- Relocation of one existing 138 kV power line (TL 13804) from north side of existing steel lattice towers to south side of existing steel lattice towers; and

⁴ TL 23001 and TL 23004 would be consolidated into one bundled 230 kV circuit designated TL 23004.

- Replacement of existing shield wire with new OPGW on existing 230 kV steel lattice towers.

1.2.5 Distribution Underbuild Work

Five existing 138 kV wood H-frame structures located on the northern end of Segment A currently have distribution underbuild. These structures would be replaced with new tubular steel double circuit 230 kV structures, while the distribution underbuild portion of the existing wood H-frame structures would remain in place as the structures would be cut-off and removed above existing distribution circuits.

1.2.6 Substation Work

Work would be required at both the Sycamore Canyon and Peñasquitos Substations to allow for the new 230 kV transmission line. The required work at the substations would be relatively minor and includes alterations to substation and bay arrangements and the installation of capacitor voltage transformers (CVT), circuit breakers and disconnects at both existing substations. Construction of two new 69 kV tubular steel cable poles would replace existing wood 69 kV cable poles located immediately outside of the Peñasquitos Substation, and two new 230 kV tubular steel poles would be required within and immediately adjacent to the Sycamore Canyon Substation to accommodate the transferring of existing 230 kV transmission lines (TL 23041). Additionally, minor substation alterations may be required at surrounding existing substations (see Section 3.3.5 for more details).

1.3 PROJECT NEED AND RANGE OF ALTERNATIVES CONSIDERED

The Proposed Project has been developed by SDG&E in order to achieve the following project objectives (see Section 2.0, Proposed Project Purpose and Need):

1. Meet the Functional Specifications identified by California Independent System Operator's (CAISO) in its 2012-2013 Transmission Plan for a new 230 kV transmission line from the existing Sycamore Canyon Substation to the existing Peñasquitos Substation. This accomplishes the following sub-objectives for the SDG&E bulk power system:
 - a. Ensure that the SDG&E bulk electric system continues to meet North American Electric Reliability Corporation (NERC), Western Electric Coordinating Council (WECC), and CAISO reliability criteria;
 - b. Promote compliance with State of California policy goals with regards to renewable energy integration and Once-Through Cooling (OTC) retirement;
 - c. Reliably and economically meet forecasted load growth for the San Diego metropolitan area; and
 - d. Deliver imported energy more efficiently to the San Diego load center.
2. Locate the Proposed Project's facilities within existing transmission and power line corridors, SDG&E ROW, utility owned property, and City of San Diego franchise ROW.

Section 5.2, Description of Project Alternatives to Minimize Significant Effects, outlines ten alternatives to the Proposed Project, including a no project alternative and various alternative transmission line alignments. Many of these alternatives could meet the Proposed Project Objectives; however, they would result in higher cost, increased and/or more severe adverse effects, and increased regulatory approval requirements.

1.4 PROPONENT'S ENVIRONMENTAL ASSESSMENT CONTENTS

1.4.1 PEA Part A

Part A of this PEA was prepared in accordance with the PEA Checklist issued by the CPUC and is divided into five sections.

Section 1 - PEA Summary. Section 1 discusses the conclusions and content of the PEA sections, and contains information on SDG&E's coordination efforts.

Section 2 - Proposed Project Purpose and Need. Section 2 outlines the purpose and need for the Proposed Project, including the Proposed Project objectives.

Section 3 - Proposed Project Description. Section 3 describes the whole of the Proposed Project, including construction, operation, and maintenance. The Project Description includes a detailed description of construction methods, construction schedule, existing facilities, proposed facilities, and anticipated permit requirements.

Section 4 - Environmental Impact Assessment. Section 4 includes a discussion of the existing conditions and potential and anticipated impacts for the following resource areas:

- Aesthetics
- Agricultural and Forestry Resources
- Air Quality and Greenhouse Gases
- Biological Resources
- Cultural Resources
- Geology, Soils, and Mineral Resources
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Population and Housing
- Public Services
- Recreation
- Transportation and Traffic
- Utilities and Service Systems

Section 4 also includes an assessment of potential cumulative impacts that could occur as a result of impacts from the Proposed Project contributing to cumulatively considerable adverse effects when analyzed with respect to other reasonably foreseeable projects.

Section 5 - Detailed Discussion of Significant Environmental Impacts. Section 5 includes a discussion of why the Proposed Project would not have any growth inducing impacts as well as an evaluation of the alternatives to the Proposed Project.

Throughout the PEA sections and appendices, SDG&E has provided specific information to address the items outlined within the CPUC’s PEA Checklist for Transmission Line, Power Line and Substation Projects (PEA Checklist). Table 1-1, PEA Checklist Key Table, provides the specific location within the PEA and appendices of all data provided to meet the requirements of the PEA Checklist.

1.4.2 PEA Part B (Technical Appendices)

Part B of this PEA contains technical appendices in support of Sections 1 through 5 as well as other items required by the CPUC PEA Checklist and General Order 131-D. Specifically, Part B of the PEA includes the following documents:

- Appendix 1-A: Summary of Agency Consultation
- Appendix 3-A: Pole Detail Table
- Appendix 3-B: Detailed Route Map
- Appendix 3-C: Typical Structure Diagrams
- Appendix 4.3-A: Air Quality Construction Emissions
- Appendix 4.4-A: Biological Technical Report
- Appendix 4.5-A: Archaeological Survey Report (Appendices A, B, C, and E are Confidential and have been omitted)
- Appendix 4.5-B: Paleontological Resources Record Search
- Appendix 4.7-A: Environmental Data Resources, Inc. (EDR) Database Search Results

1.4.3 Other PEA Requirements

A map showing all transmission lines within one mile of the Proposed Project as indicated within the CPUC PEA Checklist and/or CPUC General Order 131-D has been provided as Appendix F of the CPCN (Volume I of II).

1.5 MAJOR PEA CONCLUSIONS

As discussed throughout the PEA, the Proposed Project involves the addition of one new 230 kV transmission line between the existing SDG&E Sycamore Canyon and Peñasquitos Substations. The new transmission line would be located on new and existing structures located entirely within currently existing SDG&E ROW and City of San Diego franchise position. The existing electric transmission, distribution and substation facilities constitute the existing setting and baseline from which the potential impacts of the Proposed Project were analyzed.

1.5.1 Resource Areas with No Impact or Less than Significant Impacts

The PEA analyzes the potential environmental impacts associated with construction, operation and maintenance of the Proposed Project. Eleven resource areas would not have environmental impacts or would experience only less than significant impacts due to the Proposed Project. The resource areas are:

- Aesthetics,
- Agricultural and Forestry Resources,
- Air Quality and Greenhouse Gases,
- Geology, Soils, and Mineral Resources,
- Hazards and Hazardous Materials,
- Hydrology and Water Quality,
- Land Use and Planning,
- Noise,
- Population and Housing,
- Recreation, and
- Utilities and Service Systems.

1.5.2 Resource Areas Requiring Applicant Proposed Measures

In addition, the following five resource areas could result in potentially significant impacts that can be reduced to a level less than significant with the incorporation of APMs (See Table 3-15, Applicant Proposed Measures by Resource Area, and Table 3-16, Applicant Proposed Measures):

- Biological Resources,
- Cultural Resources,
- Public Services,
- Transportation and Traffic, and
- Cumulative Impacts.

The impacts that would be less than significant with incorporation of APMs are discussed below, by resource area.

1.5.2.1 Biological Resources

While not anticipated to be significant, potential impacts relating to biological resources would be avoided and minimized through implementation of project design features and ordinary construction/operating restrictions, as well as APM BIO-1 such that impacts would remain less than significant.

1.5.2.2 Cultural Resources

Potential impacts relating to cultural and paleontological resources would be reduced to a level less than significant through implementation project design features and ordinary construction/operating restrictions as well as APMs CUL-1 through CUL-8.

1.5.2.3 Public Services

Potential impacts relating to disruption of existing parks and recreational facilities during construction of the Proposed Project would be reduced to a level less than significant through implementation of project design features and ordinary construction/operating restrictions as well as APMs PS-1 through PS-5.

1.5.2.4 Transportation and Traffic

Potential impacts related to construction of the Proposed Project resulting in inadequate emergency access would be reduced to a level less than significant through implementation of project design features and ordinary construction/operating restrictions as well as APM TR-1.

1.5.2.5 Cumulative Impacts

Potential impacts related to construction of the Proposed Project conflicting with construction of other SDG&E projects or San Diego Capital Improvement Program (CIP) projects would be reduced to a level less than significant through implementation of project design features and ordinary construction/operating restrictions as well as APMs CUM-1 and CUM-2.

1.5.3 Significant, Unavoidable Impacts

No significant, unavoidable adverse impacts were identified during the preparation of the PEA (refer to PEA Sections 4.1 through 4.16).

1.6 PUBLIC OUTREACH EFFORTS

Due to the nature of the CAISO's 2012-2013 Transmission Planning Process Competitive Solicitation for the construction and operation of a new 230 kV transmission line connecting to the existing Sycamore Canyon and Peñasquitos Substations, SDG&E has not yet conducted outreach to the general public. SDG&E did not want to engage in discourse with the public prior to the CAISO selecting the Project Sponsor for the new 230 kV transmission line. However, SDG&E has communicated with local elected officials, and other governmental, cultural and federal agencies as further described in Section 1.7, Inter-Agency and other Consultations.

SDG&E created a comprehensive Public Education and Outreach Plan to support and enhance the Proposed Project goals by ensuring information about all aspects of the approval phase and construction activities are proactively and accurately disseminated on a timely and regular basis to residents, business owners and other stakeholders along the proposed route. SDG&E submitted this Plan as part of its proposal to the CAISO.

1.7 INTER-AGENCY AND OTHER CONSULTATIONS

SDG&E proactively contacted local elected officials, and other governmental, cultural and federal agencies to discuss the CAISO 2012-2013 Transmission Planning Process Competitive Solicitation process and SDG&E's Proposed Project. SDG&E emailed letters and/or met with representatives from the City of San Diego, City of Poway, the County of San Diego, Native American Heritage Commission (NAHC) and MCAS Miramar. Specifically, SDG&E contacted the following local agencies that have the potential to be impacted by SDG&E's Proposed Project:

- City of San Diego Mayor's Office (Former Interim Mayor Todd Gloria and Newly Elected Mayor Kevin Faulconer)
- City Council District 1 (Council Member Sherri Lightner)
- City Council District 5 (Council Member Mark Kersey)
- City Council District 7 (Council Member Scott Sherman)
- City of San Diego Development Services
- City of San Diego Public Works
- City of Poway Mayor's Office
- City of Poway City Manager's Office (Mayor Don Higginson)
- City of Poway Public Works
- City of Poway Development Services

In addition, SDG&E also contacted the following State of California Senate and Assembly and United States Congressional staff:

- California State Senate District 38 (Senator Mark Wyland)
- California State Senate District 39 (Assembly Member Marty Block)
- California State Assembly District 77 (Assembly Member Brian Maienshein)
- United States Congress District 52 (Congressman Scott Peters)

Finally, SDG&E contacted MCAS Miramar and NAHC staff concerning the Proposed Project.

A summary of SDG&E's interaction with the above mentioned agencies and representatives, including comment letters acknowledging conference calls and/or meetings, are included within Appendix 1-A.

1.7.1 Project Support

The CAISO reviewed proposals from four perspective bidders to construct a new 230 kV transmission line between the existing Sycamore Canyon and Peñasquitos Substations. The CAISO conducted a detailed review of these proposals, including a comparative analysis of the four proposed projects. On March 4, 2014, the CAISO officially selected the Proposed Project. Of particular note, the CAISO determined that the Proposed Project is better with respect to all six of the following key selection factors specified in the CAISO's April 15, 2013 presentation to stakeholders, entitled Transmission Planning Process Phase 3 Competitive Solicitation:

1. Overall capability to finance, license, construct, operate, and maintain the facility (tariff section 24.5.2.4[a]).
2. Possession of existing ROW that could contribute to the project (24.5.2.4[b]).
3. Experience in acquiring ROW to facilitate approval and construction of the project (24.5.2.4[c]).
4. Proposed schedule and demonstrated ability to meet that schedule (24.5.2.4[d]).
5. Environmental permitting and engineering qualifications and experience (24.5.2.4[f]).
6. Demonstrated cost containment capability (tariff section 24.5.2.4[j]).

To date SDG&E has not received any written statements of support to the Proposed Project from local agencies. SDG&E will continue to consult with local agencies and stakeholders and will forward any written statements of project support received.

1.7.2 Project Opposition

To date, SDG&E has not received any written statements of opposition to the Proposed Project. SDG&E will continue to consult with local agencies and stakeholders and will forward any written statements of opposition received.

1.8 AREAS OF CONTROVERSY

To date, SDG&E has not identified any areas of controversy regarding the Proposed Project.

1.9 ISSUES TO BE RESOLVED

To date, no substantial issues remain unresolved.

Table 1-1: PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
Chapter 1: PEA Summary		
	Include major conclusions of the PEA.	Section 1.5 – Major PEA Conclusions
	List any areas of controversy.	Section 1.8 – Areas of Controversy
	Identify any major issues that must be resolved, including the choice among reasonably feasible alternatives and mitigation measures, if any.	Section 1.9 – Issues to be Resolved
	Include a description of inter-agency coordination if any.	Section 1.7 – Inter-Agency and Other Consultations
	Include a description of public outreach efforts, if any.	Section 1.6 – Public Outreach Efforts Appendix 1-A: Summary of Agency Consultation
Chapter 2: Project Purpose and Need		
2.1 Overview	Include an analysis of Proposed Project objectives and purpose and need that is sufficiently detailed so that the Commission can independently evaluate the Proposed Project need and benefits in order to accurately consider them in light of the potential environmental impacts.	Section 2.0 – Proposed Project Purpose and Need
	Explain the objective(s) and/or purpose and need for implementing the Proposed Project.	Section 2.0 – Proposed Project Purpose and Need
2.2 Project Objectives	Include an analysis of the reason why attainment of these objectives is necessary or desirable. Such analysis must be sufficiently detailed to inform the Commission in its independent formulation of Proposed Project objectives which will aid any appropriate CEQA alternatives screening process.	Section 2.0 – Proposed Project Purpose and Need

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
Chapter 3: Project Description		
3.1 Project Location	Identify geographical location: County, City (provide Proposed Project location map[s]).	Section 3.2 – Proposed Project Location, Regional Context, and Regional Electric System Figure 3-1: Project Vicinity Map Figure 3-4: Project Overview Map
	Provide a general description of land uses within the Proposed Project site (e.g., residential, commercial, agricultural, recreation, vineyards, farms, open space, number of stream crossings, etc.).	Section 3.2 – Proposed Project Location, Regional Context, and Regional Electric System Section 4.9 – Land Use and Planning Figure 4.9-1: Designated and Existing Land Uses in the Proposed Project Area
	Determine whether the Proposed Project is located within an existing property owned by the Applicant, traverses existing ROWs, or requires new ROWs. Provide the approximate area of the property or the length of the Proposed Project that is in an existing ROW or which requires new ROWs.	Section 3.2 – Proposed Project Location, Regional Context, and Regional Electric System Section 3.6 – Permanent Land and Right-of-Way Requirements
3.2 Existing System	Describe the local system to which the Proposed Project relates.	Section 2.0 – Proposed Project Purpose and Need Section 3.2 – Proposed Project Location, Regional Context, and Regional Electric System
	Provide a schematic diagram and map of the existing system.	Figure 3-2: Existing System One-Line Diagram Appendix 3-B: Detailed Route Map
	Provide a schematic diagram that illustrates the system as it would be configured with the implementation of the Proposed Project.	Figure 3-3: Proposed System One-Line Diagram Figure 3-4: Project Overview Map

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.4 Proposed Project	Describe the Proposed Project. Is it an upgrade, a new line, new substations, etc.?	Section 3.1 – Proposed Project Overview Section 3.3 – Proposed Project Facilities
	Describe how the Proposed Project fits into the regional system. Does it create a loop for reliability, etc.?	Section 2.0 – Proposed Project Purpose and Need Section 3.1 – Proposed Project Overview Section 3.2 – Proposed Project Location, Regional Context, and Regional Electric System
	Describe all reasonably foreseeable future phases, or other reasonably foreseeable consequences of the Proposed Project.	Section 3.3 – Proposed Project Facilities
	Provide the capacity increase in megawatts (MW). If the Proposed Project does not increase capacity, state that.	Section 3. 3 – Proposed Project Facilities
	Provide GIS (or equivalent) data layers for the Proposed Project preliminary engineering, including estimated locations of all physical components of the Proposed Project, as well as those related to construction.	GIS Data is Confidential and not included
3.5 Project Components 3.5.1 Transmission Line	Describe what type of line exists and what type of line is proposed.	Section 3. 3 – Proposed Project Facilities Section 3.2 – Proposed Project Location, Regional Context, and Regional Electric System
	Identify the length of the upgraded alignment, the new alignment, etc.	Section 3. 3 – Proposed Project Facilities Table 3-1: Proposed Project Transmission Line Segments
	Describe whether construction would require one-for-one pole replacement, new poles, steel poles, etc.?	Section 3. 3 – Proposed Project Facilities Section 3.4 – Construction Methods
	Describe what would happen to other lines and utilities that may be collocated on the poles to be replaced (e.g., distribution, communication, etc.).	Section 3. 3 – Proposed Project Facilities Table 3-8: Relocated/Consolidated Power and Transmission Lines

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.5.2 Poles/Towers	Provide information for each pole/tower that would be installed and for each pole/tower that would be removed.	Section 3. 3 – Proposed Project Facilities Table 3-7: Typical Pole Dimensions Appendix 3-A: Pole Detail Table Appendix 3-B: Detailed Route Map
	Describe any specialty poles or towers; note where they would be used; make sure to note if any guying would likely be required across a road.	Section 3.3.2 – Segment B – Carmel Valley Road Appendix 3-A: Pole Detail Table Appendix 3-B: Detailed Route Map
	If the Proposed Project includes pole-for-pole replacement, describe the approximate location of where the new poles would be installed relative to the existing alignment.	The Proposed Project does not include pole-for-pole replacement, but location of installed and removed poles can be found here: Appendix 3-B: Detailed Route Map
	Describe any special pole types and any special features.	Section 3.3.2 – Segment B – Carmel Valley Road
3.5.3 Conductor/Cable 3.5.3.1 Above-Ground Installation	Describe the type of line to be installed on the poles/tower.	Section 3. 3 – Proposed Project Facilities Section 3.4.1 – Overhead Transmission Line Construction Table 3-8: Relocated/Consolidated Power and Transmission Lines
	Describe the number of conductors required to be installed on the poles or tower and the number on each side including applicable engineering design standards.	Section 3. 3 – Proposed Project Facilities Table 3-8: Relocated/Consolidated Power and Transmission Lines
	Provide the size and type of conductor and insulator configuration.	Section 3. 3 – Proposed Project Facilities Table 3-8: Relocated/Consolidated Power and Transmission Lines

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.5.3.1 Above-Ground Installation	Provide the approximate distance from the ground to the lowest conductor and the approximate distance between the conductors (i.e., both horizontally and vertically). Provide specific information at highways, rivers, or special crossings.	Section 3.3 – Proposed Project Facilities Figure 3-6: Segment A Proposed ROW Cross Section Figure 3-8: Segment C Proposed ROW Cross Section Figure 3-10: Segment D Proposed ROW Cross Section
	Provide the approximate span lengths between poles or towers, note where different if distribution is present or not if relevant.	Section 3.3 – Proposed Project Facilities Appendix 3-A: Pole Detail Table Appendix 3-B: Detailed Route Map
	Determine whether other infrastructure would likely be collocated with the conductor; if so, provide conduit diameter of other infrastructure.	Section 3.3 – Proposed Project Facilities
3.5.3.2 Below Ground Installation	Describe the type of line to be installed.	Section 3.3.2 – Segment B – Carmel Valley Road
	Describe the type of casing the cable would be installed in; provide the dimensions of the casing.	Section 3.3.2 – Segment B – Carmel Valley Road
	Provide an engineering ‘typical’ drawing of the duct bank and describe what types of infrastructure would likely be installed within the duct bank.	Appendix 3-C: Typical Structure Diagrams
3.5.4 Substations	Provide “typical” plan and profile views of the proposed substation and the existing substation if applicable.	Appendix 3-C: Typical Structure Diagrams
	Describe the types of equipment that would be temporarily or permanently installed and provide details as to what the function/use of said equipment would be.	Section 3.3.5 – Associated Substation Work Section 3.3.5.1 – Sycamore Canyon Substation Section 3.3.5.2 – Peñasquitos Substation

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.5.4 Substations	Provide the approximate or “typical” dimensions (width and height) of new structures including engineering and design standards that apply.	Section 3.3.5 – Associated Substation Work Section 3.3.5.1 – Sycamore Canyon Substation Section 3.3.5.2 – Peñasquitos Substation
	Describe the extent of the Proposed Project. Would it occur within the existing fence line, existing property line or would either need to be expanded?	Section 3.3.5 – Associated Substation Work
	Describe the electrical need area served by the distribution substation.	Section 2.0 – Proposed Project Purpose and Need
3.6 Right-of-Way Requirements	Describe the ROW location, ownership, and width. Would the existing ROW be used or would a new ROW be required?	Section 3.3 – Proposed Project Facilities Section 3.6.1 – Permanent Right-of-Way and Easement Requirements
	If a new ROW is required, describe how it would be acquired and approximately how much land would be required (length and width).	Section 3.6.1 – Permanent Right-of-Way and Easement Requirements
	List the properties likely to require acquisition.	Section 3.6.1 – Permanent Right-of-Way and Easement Requirements
3.7 Construction 3.7.1 For All Projects 3.7.1.1 Staging Areas	Where would the main staging area(s) likely be located?	Section 3.4.6 – Temporary Work Areas Section 3.4.6.1 – Materials Storage and Staging
	Approximately how large would the main staging area(s) be?	Section 3.4.6 – Temporary Work Areas Section 3.4.6.1 – Materials Storage and Staging
	Describe any site preparation required, if known, or generally describe what might be required.	Section 3.4.6.1 – Materials Storage and Staging
	Describe what the staging area would be used for.	Section 3.4.6.1 – Materials Storage and Staging

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.1.1 Staging Areas	Describe how the staging area would be secured, would a fence be installed? If so, describe the type and extent of the fencing.	Section 3.4.6.1 – Materials Storage and Staging
	Describe how power to the site would be provided if required.	Section 3.4.6.1 – Materials Storage and Staging
	Describe any grading activities and/or slope stabilization issues.	Section 3.4.6.1 – Materials Storage and Staging
3.7.1.2 Work Areas	Describe known work areas that may be required for specific construction activities.	Section 3.4.6 – Temporary Work Areas Section 3.6.2 – Permanent Work Areas
	For each known work area, provide the area required (include length and width) and describe the types of activities that would be performed.	Section 3.4.6 – Temporary Work Areas Table 3-14: Summary of Permanent Work Areas
	Identify the approximate location of known work areas in the GIS database.	GIS Data is Confidential and not included Appendix 3-B: Detailed Route Map
	Describe how the work areas would likely be accessed.	Section 3.4.6 – Temporary Work Areas Section 3.6.2 – Permanent Work Areas
	If any site preparation is likely required, generally describe what and how it would be accomplished.	Section 3.4.6 – Temporary Work Areas Section 3.6.2 – Permanent Work Areas
	Describe any grading activities and/or slope stabilization issues.	Section 3.4.6 – Temporary Work Areas Section 3.6.2 – Permanent Work Areas

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.1.2 Work Areas	Based on the information provided, describe how the site would be restored.	Section 3.4.1 – Overhead Transmission Line Construction Section 3.4.2 – Underground Transmission Line Construction Section 3.4.6 – Temporary Work Areas Section 3.4.6.3 – Structure Work Areas Section 3.4.9 – Site Cleanup Section 3.8 – Project Design Features and Ordinary Construction/Operation Restrictions
3.7.1.3 Access Roads and/or Spur Roads	Describe the types of roads that would be used and/or would need to be created to implement the Proposed Project.	Section 3.4.1 – Step 1 – Access Road Construction Section 3.4.6.2 – Stringing Sites Section 3.4.6.3 – Structure Work Areas Section 3.4.6.6 - Access
	For road types that require preparation, describe the methods and equipment that would be used.	Section 3.4.1 – Step 1 – Access Road Construction Section 3.4.6.6 – Access Table 3-11: Standard Construction Equipment and Usage
	Identify approximate location of all access roads (by type) in the GIS database.	GIS Data is Confidential and not included
	Describe any grading activities and/or slope stabilization issues.	Section 3.4.1 – Step 1 – Access Road Construction Section 3.4.6.6 – Access
3.7.1.4 Helicopter Access	Identify which proposed poles/towers would be removed and/or installed using a helicopter.	Section 3.4.8 – Helicopter Usage during Transmission Line Construction
	If different types of helicopters are to be used, describe each type and what activities they would be used for.	Section 3.4.8 – Helicopter Usage during Transmission Line Construction

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
<p>3.7.1.4 Helicopter Access</p>	<p>Provide information as to where the helicopters would be staged, where they would refuel, where they would land within the Proposed Project site.</p>	<p>Section 3.4.8 – Helicopter Usage during Transmission Line Construction Section 3.4.6.1 – Incidental Landing Areas</p>
	<p>Describe any BMPs that would be employed to avoid impacts caused by use of helicopters, for example: air quality and noise considerations.</p>	<p>Section 3.4.8 – Helicopter Usage during Transmission Line Construction Section 3.8 – Project Design Features and Ordinary Construction/Operation Restrictions (Helicopter use)</p>
	<p>Describe flight paths, payloads, hours of operations for known locations, and work types.</p>	<p>Section 3.4.8 – Helicopter Usage during Transmission Line Construction</p>
<p>3.7.1.5 Vegetation Clearance</p>	<p>Describe the types of vegetation clearing that may be required and why.</p>	<p>Section 3.4.1 – Step 1 – Access Road Construction Section 3.4.1 – Step 2 – Work Pad Construction Section 3.4.1 – Step 3 – Installing Structure Foundations Section 3.4.1 – Step 5 – Existing Facilities Removal Section 3.4.6.6 – Access Section 3.7 – Operation and Maintenance</p>
	<p>Identify the preliminary location and provide an approximate area of disturbance in the GIS database for each type of vegetation removal.</p>	<p>GIS Data is Confidential and not included</p>
	<p>Describe how each type of vegetation removal would be accomplished.</p>	<p>Section 3.4.6.6 – Access Section 3.7 – Operation and Maintenance (Existing and Proposed)</p>
	<p>For removal of trees, distinguish between tree trimming as required under GO-95D and tree removal.</p>	<p>Section 3.7 – Operation and Maintenance (Existing and Proposed)</p>
<p>Describe the types and approximate number and size of trees that may need to be removed.</p>	<p>Section 4.4 – Biological Resources</p>	

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.1.5 Vegetation Clearance	Describe the type of equipment typically used.	Section 3.7 – Operation and Maintenance (Existing and Proposed) Table 3-11: Standard Construction Equipment and Usage
3.7.1.6 Erosion and Sediment Control and Pollution Prevention during Construction	Describe the areas of soil disturbance including estimated total areas and associated terrain type and slope. List all known permits required. For project sites of less than 1 acre, outline the BMPs that would be implemented to manage surface runoff.	Section 3.4.1 – Step 3 – Installing Structure Foundations Section 3.4.6 – Temporary Work Areas Section 3.8 – Project Design Features and Ordinary Construction/Operating Restrictions Table 3-9: Temporary Work Areas Summary Table 3-14: Summary of Permanent Work Areas Table 3-17: Anticipated Permit, Approval, and Consultation Requirements
	Describe any grading activities and/or slope stabilization issues.	Section 3.4.1 – Overhead Transmission Line Construction Section 3.4.1 – Step 1 – Access Road Construction Section 3.4.1 – Step 2 – Work Pad Construction Section 3.4.1 – Step 3 – Installing Structure Foundations Section 4.6 – Geology, Soils, and Mineral Resources Section 4.8 – Hydrology and Water Quality (Questions 8c and 8e)

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.1.6 Erosion and Sediment Control and Pollution Prevention during Construction	Describe how construction waste would be disposed.	Section 3.4 – Construction Methods Section 3.4.2 - Step 2 – Trenching and Duct Bank Installation Section 3.4.6.1 – Materials Storage and Staging Section 3.4.10 – Removed Structures/Poles, Materials, and Components Section 4.15 – Utilities and Service Systems
	Describe how cleanup and post-construction restoration would be performed.	Section 3.4.1 – Step 8 - Site Cleanup Section 3.4.2 – Step 4 - Site Cleanup Section 3.4.9 – Site Cleanup Table 3-12: Proposed Construction Schedule
3.7.2 Transmission Line Construction (Above Ground) 3.7.2.1 Pull and Tension Sites	Provide the general or average distance between pull and tension sites.	Section 3.4.6.2 – Stringing Sites Appendix 3-B: Detailed Route Map
	Provide the area of pull and tension sites including the estimated length and width.	Section 3.4.6.2 – Stringing Sites
	According to the preliminary plan, identify the number of pull and tension sites that would be required, and their locations. Provide the location information in GIS.	Section 3.4.6.2 – Stringing Sites GIS Data is Confidential and not included Appendix 3-B: Detailed Route Map
	Describe the type of equipment that would be required at these sites.	Section 3.4.6.2 – Stringing Sites Table 3-11: Standard Construction Equipment and Usage
	If conductor is being replaced, describe how it would be removed from the site.	Section 3.4.1 – Step 5 – Existing Facilities Removal Table 3-11: Standard Construction Equipment and Usage

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
<p>3.7.2.2 Pole Installation and Removal</p>	<p>Describe how the construction crews and their equipment would be transported to and from the pole site locations. Provide vehicle type, number of vehicles, estimated number of trips, and hours of operation.</p>	<p>Section 3.4.1 – Step 3 – Installing Structure Foundations Section 3.4.1 – Step 4 – Structure Erection Section 3.4.6.3 – Structure Work Areas Section 3.4.6.6 – Access Table 3-11: Standard Construction Equipment and Usage</p>
	<p>Describe the process of removing the poles and foundations.</p>	<p>Section 3.4.1 – Step 5 – Existing Facilities Removal Section 3.4. 10 – Removed Structures/Poles, Materials, and Components</p>
	<p>Describe what happens to the holes that the poles were in (i.e., reused or backfilled)?</p>	<p>Section 3.4.1 – Step 5 – Existing Facilities Removal</p>
	<p>If the holes are to be backfilled, what type of fill would be used and where would it come from?</p>	<p>Section 3.4.1 – Step 5 – Existing Facilities Removal</p>
	<p>Describe any surface restoration that would occur at the pole sites.</p>	<p>Section 3.4.1 – Step 8 – Site Cleanup</p>
	<p>Describe how the poles would be removed from the sites.</p>	<p>Section 3.4.1 – Step 5 – Existing Facilities Removal</p>
	<p>If topping is required to remove a portion of an existing transmission pole that would now only carry distribution lines, describe the methodology to access and remove the tops of these poles. Describe any special methods that would be required to top poles that may be difficult to access, etc.</p>	<p>Section 3.1 – Proposed Project Overview Section 3.3.6.2 – Distribution Underbuild</p>
	<p>Describe the process of how the new poles/towers would be installed; specifically identify any special construction methods for specific locations or for different types of poles/towers.</p>	<p>Section 3.3 – Proposed Project Facilities Section 3.4.1 – Step 4 – Structure Erection</p>

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.2.2 Pole/Tower Installation	Describe the types of equipment and their use as related to pole/tower installation.	Section 3.4.1 – Step 4 – Structure Erection Table 3-11: Standard Construction Equipment and Usage
	Describe the actions taken to maintain a safe work environment during construction.	Section 3.4 – Construction Methods Section 3.8 – Project Design Features and Ordinary Construction/Operating Restrictions
	Describe what would be done with soil that is removed from a hole/foundation site.	Section 3.4.1 – Step 3 – Installing Structure Foundations
	For any foundations required, provide a description of the construction method(s), approximate average depth and diameter of excavation, approximate volume of soil to be excavated, approximate volume of concrete or other backfill required, etc.	Section 3.4.1 – Step 3 – Installing Structure Foundations
	Describe briefly how poles/towers and associated hardware are assembled.	Section 3.4.1 – Step 4 – Structure Erection
	Describe how the poles/towers and associated hardware would be delivered to the site; would they be assembled off-site and brought in or assembled on site?	Section 3.4.1 – Step 4 – Structure Erection Section 3.4.6.1 – Materials Storage and Staging
	Provide the following information about pole/tower installation and associated disturbance area estimates; pole diameter, lattice tower base dimension, auger hole depth, permanent footprint per pole/tower, number of poles/towers, average work area around poles/towers, and total permanent footprint for poles/towers.	Section 3.4.1 – Step 3 – Installing Structure Foundations Table 3-7: Typical Pole Dimensions Table 3-9: Temporary Work Areas Summary Table 3-14: Summary of Permanent Work Areas Appendix 3-A: Pole Detail Table Appendix 3-B: Detailed Route Map

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.2.3 Conductor/Cable Installation	Provide a process-based description of how new conductor/cable would be installed and how old conductor/cable would be removed, if applicable.	Section 3.4.1 – Step 5 – Existing Facilities Removal Section 3.4.1 – Step 7 – Conductor Stringing
	Generally describe the conductor/cable splicing process.	Section 3.4.2 – Step 3 – Cable Pulling, Splicing, and Termination
	If vaults are required, provide their dimensions and approximate location/spacing along the alignment.	Section 3.3.2 – Segment B – Carmel Valley Road
	Describe in what areas conductor/cable stringing/installation activities would occur.	Section 3.3 – Proposed Project Facilities Section 3.4.6.2 – Stringing Sites Appendix 3-B: Detailed Route Map
	Describe any safety precautions or areas where special methodology would be required.	Section 3.4.6.4 – Guard Structures Section 3.4.7 – Road Crossings Section 3.4.8 – Helicopter Usage during Transmission Line Construction Section 3.8 – Project Design Features and Ordinary Construction/Operating Restrictions
3.7.3 Transmission Line Construction (Below Ground) 3.7.3.1 Trenching	Describe the approximate dimensions of the trench (e.g., depth, width).	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation
	Describe the methodology of making the trench.	Section 3.3.2 – Segment B – Carmel Valley Road Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation
	Provide the total approximate cubic yardage of material to be removed from the trench, the amount to be used as backfill and the amount to subsequently be removed/disposed of off-site.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.3 Transmission Line Construction (Below Ground) 3.7.3.1 Trenching	Provide off-site disposal location, if known, or describe possible option(s).	Section 3.4 – Construction Methods Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation Table 3-10: Common Destination of Retired Project Components
	If engineered fill would be used as backfill, provide information as to the type of engineered backfill and the amount that would be typically used.	Section 3.3.2 – Segment B – Carmel Valley Road Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation
	Describe if dewatering would be anticipated, if so, how the trench would be dewatered, what the anticipated flows of the water are, whether there would be treatment, and how the water would be disposed.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation Section 3.4.4 – Dewatering
	Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants that could be exposed as a result of trenching operations.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation Section 4.7 – Hazards and Hazardous Materials
	If pre-existing hazardous waste was encountered, describe the process of removal and disposal.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation Section 4.7 – Hazards and Hazardous Materials
	Describe any standard BMPs that would be implemented.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation Section 4.7 – Hazards and Hazardous Materials

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.3.2 Trenchless Techniques: Microtunnel, Bore and Jack, Horizontal Directional Drilling	Provide the approximate location of the bore pits.	Not Applicable – Boring will only take place at one existing bridge along Carmel Valley Road. Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation
	Provide the length, width and depth of the sending and receiving pits.	Not Applicable – No sending or receiving pits are proposed.
	Describe the methodology of excavating and shoring the pits.	Not Applicable – No sending or receiving pits are proposed.
	Describe the methodology of the trenchless technique.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation (Duct Bank Installation)
	Provide the total cubic yardage of material to be removed from the pits, the amount to be used as backfill and the amount to subsequently be removed/disposed of off-site.	Not Applicable – No sending or receiving pits are proposed.
	Describe the process for safe handling of drilling mud and bore lubricants.	Not Applicable – No drilling mud is proposed.
	Describe the process for detecting and avoiding “fracturing-out” during horizontal directional drilling operations.	Not Applicable – No horizontal directional drilling is proposed.
	Describe the process for avoiding contact between drilling mud/lubricants and stream beds.	Not Applicable – No drilling mud is proposed.
	If engineered fill would be used as backfill, provide information as to the type of engineered backfill and the amount that would be typically used.	Not Applicable – No engineered fill is anticipated.
If dewatering is anticipated, describe how the pit would be dewatered, what the anticipated flows of the water are, whether there would be treatment, and how the water would be disposed.	Not Applicable – Dewatering is not anticipated.	

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.3.2 Trenchless Techniques: Microtunnel, Bore and Jack, Horizontal Directional Drilling	Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants.	Not Applicable – No soil or groundwater will be encountered at the bore location.
	If a pre-existing hazardous waste was encountered, describe the process of removal and disposal.	Not Applicable – No known contaminants existing near the bore location.
	Describe any grading activities and/or slope stabilization issues.	Not Applicable – No grading or slope stabilization is anticipated at the bore location.
	Describe any standard BMPs that would be implemented.	Section 3.4.2 – Step 2 – Trenching and Duct Bank Installation Section 3.8 – Project Design Features and Ordinary Construction/Operating Restrictions (SDG&E Water Quality Construction BMP Manual)
3.7.4 Substation Construction	Describe any earth moving activities that would be required; what type of activity and, if applicable, estimate cubic yards of materials to be reused and/or removed from the site for both site grading and foundation excavation.	Not Applicable – No earth moving activities at substations are proposed. For pole installations/removals at substations see: Section 3.3.4 – Segment D - Peñasquitos Junction to Peñasquitos Substation Section 3.3.5 – Associated Substation Work Section 3.4.1 – Step 3 – Installing Structure Foundations
	Provide a conceptual landscape plan in consultation with the municipality in which the substation is located.	Not Applicable – No landscape plan is proposed.
	Describe any grading activities and/or slope stabilization issues.	Not Applicable – No grading activities are expected.
	Describe possible relocation of commercial or residential property, if any.	Not Applicable – No relocation of commercial or residential property is being proposed as part of this project.

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.7.5 Construction Workforce and Equipment	Provide the estimated number of construction crew members.	Section 3.4.11.1 – Construction Personnel
	Describe the crew deployment, whether crews would work concurrently, if they would be phased, etc.	Section 3.4.11.1 – Construction Personnel
	Describe the different types of activities to be undertaken during construction, the number of crew members for each activity, and the number and types of equipment expected to be used for said activity. Include a written description of the activity.	Section 3.4 – Construction Methods Section 3.4.11 – Construction Equipment and Personnel
	Provide a list of the types of equipment expected to be used during construction of the Proposed Project as well as a brief description of the use of the equipment.	Table 3-11: Standard Construction Equipment and Usage
3.7.6 Construction Schedule	Provide a preliminary project construction schedule; include contingencies for weather, wildlife closure periods, etc.	Section 3.5 – Construction Schedule
3.8 Operation and Maintenance	Describe the general system monitoring and control.	Section 3.7 – Operation and Maintenance (Existing and Proposed)
	Describe the general maintenance program of the Proposed Project include timing of inspections, type of inspection, and a description of how the inspection would be implemented.	Section 3.7 – Operation and Maintenance (Existing and Proposed)
	If additional full time staff would be required for operation and/or maintenance, provide the number of workers and for what purpose they are required.	Section 3.7 – Operation and Maintenance (Existing and Proposed) Section 3.4.11 – Construction Equipment and Personnel
3.9 Applicant Proposed Measures	If there are measures that the Applicant would propose to be part of the Proposed Project, include those measures and reference plans or implementation descriptions.	Section 3.9 – Applicant Proposed Measures Sections 4.1 through 4.16

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
3.10 Electric and Magnetic Fields Summary	Electric and Magnetic Fields Summary	Detailed Magnetic Field Management Plan included as Appendix H of the CPCN application.
Chapter 4: Environmental Setting		
	For each resource area discussion within the PEA, include the following: a description of the physical environment in the vicinity of the Proposed Project and a description of the regulatory environment/context.	Section 4.1 through Section 4.15
	Limit detailed descriptions to those resource areas which may be subject to a potentially significant impact.	Section 4.1 through Section 4.15
Chapter 5: Environmental Impact Assessment Summary		
5.1 Aesthetics	Provide visual simulations of prominent public view locations, including scenic highways, to demonstrate the views before and after project implementation.	Section 4.1 – Aesthetics Figures 4.1-4 through 4.1-13
5.2 Agriculture Resources	Identify the types of agricultural resources affected.	Section 4.2 – Agriculture and Forestry Resources
5.3 Air Quality	Provide supporting calculations/spreadsheets/technical reports that support emission estimates in the PEA.	Appendix 4.3-A: Air Quality Construction Emissions
	Provide documentation of the location and types of sensitive receptors that could be impacted by the project.	Section 4.3 – Air Quality and Greenhouse Gases
	Identify Proposed Project greenhouse gas (GHG) emissions.	Section 4.3 – Air Quality and Greenhouse Gases

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
5.3 Air Quality	Ensure that the assessment of air quality impacts are consistent with PEA Sections 3.7.5 and 3.7.6, as well as with the PEA's analysis of impacts during construction, including traffic and all other emissions.	Section 4.3 – Air Quality and Greenhouse Gases
5.4 Biological Resources	Provide a copy of the Wetland Delineation and supporting documentation. If verified, provide supporting documentation.	Appendix 4.4-A: Biological Technical Report
	Provide a copy of special-status surveys for wildlife, botanical and aquatic species, as applicable. Any GIS data documenting locations of special-status species should be provided.	Appendix 4.4-A: Biological Technical Report GIS Data is Confidential and not included
5.5 Cultural Resources	Cultural Resources Report documenting a cultural resources investigation of the Proposed Project.	Appendix 4.5-A: Archaeological Survey Report
	Provide a copy of the records found in the literature search.	Appendix 4.5-A: Archaeological Survey Report Appendix 4.5-B: Paleontological Resources Record Search
	Provide a copy of all letters and documentation of Native American consultation.	Appendix 4.5-A: Archaeological Survey Report
5.6 Geology, Soils, and Seismic Potential	Provide a copy of the geotechnical investigation if completed, including known and potential geologic hazards such as ground shaking, subsidence, liquefaction, etc.	Geotechnical Report pending.

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
5.7 Hazards and Hazardous Materials	Include the Environmental Data Resources report.	Appendix 4.7-A: EDR Database Search Results
	Include a Hazardous Substance Control and Emergency Response Plan, if required.	Not Applicable ¹ .
	Include a Health and Safety Plan, if required.	Not Applicable ¹
	Describe the Worker Environmental Awareness Program	Section 3.8 – Project Design Features and Ordinary Construction/Operating Restrictions
5.7 Hazards and Hazardous Materials	Describe which chemicals would be used during construction and operation of the Proposed Project.	Section 4.7 – Hazards and Hazardous Materials
5.8 Hydrology and Water Quality	Describe impacts to groundwater quality including increased runoff due to construction of impermeable surfaces, etc.	Section 4.8 – Hydrology and Water Quality
	Describe impacts to surface water quality including the potential for accelerated soil erosion, downstream sedimentation, and reduced surface water quality.	Section 4.8 – Hydrology and Water Quality
5.9 Land Use and Planning	Provide GIS data of all parcels within 300 feet of the Proposed Project with the following data: APN number, mailing address, and parcel's physical address.	GIS Data is Confidential and not included Parcel data also included as Appendix C of the CPCN application.
5.10 Mineral Resources	Data needs already specified under Chapter 3 would generally meet the data needs for this resource area.	Not Applicable.
5.11 Noise	Provide long term noise estimates for operational noise.	Section 4.10 - Noise
5.12 Population and Housing	Data needs already specified under Chapter 3 would generally meet the data needs for this resource area.	Not Applicable.
5.13 Public Services	Data needs already specified under Chapter 3 would generally meet the data needs for this resource area.	Not Applicable.

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
5.14 Recreation	Data needs already specified under Chapter 3 would generally meet the data needs for this resource area.	Not Applicable.
5.15 Transportation and Traffic	Discuss traffic impacts resulting from construction of the Proposed Project including ongoing maintenance operations.	Section 4.14 – Transportation and Traffic
	Provide a preliminary description of the traffic management plan that would be implemented during construction of the Proposed Project.	Section 4.14 – Transportation and Traffic
5.16 Utilities and Services Systems	Describe how treated wood poles would be disposed of after removal, if applicable.	Section 3.4.10 – Removed Structures/Poles, Materials, and Components
5.17 Cumulative Analysis	Provide a list of projects within the Proposed Project area that the applicant is involved in.	Section 4.16 – Cumulative Impacts Table 4.16-1: Planned and Proposed Projects within One Mile of the Proposed Project Area
	Provide a list of projects that have the potential to be approximate in space and time to the Proposed Project.	Section 4.16 – Cumulative Impacts Table 4.16-1: Planned and Proposed Projects within One Mile of the Proposed Project Area
5.18 Growth-Inducing Impacts, If Significant	Provide information on the Proposed Project's growth-inducing impacts.	Section 5.3 – Growth-Inducing Impacts
Chapter 6: Detailed Discussion of Significant Impacts		
6.1 Mitigation Measures Proposed to Minimize Significant Effects	Discuss each mitigation measure and the basis for selecting a particular mitigation measure should be stated.	Sections 4.1 through 4.16 Section 3.9 - Applicant Proposed Measures

Table 1-1 (cont.): PEA Checklist Key Table

Location in PEA Checklist	Checklist Item	Location within PEA
6.2 Description of Project Alternatives and Impact Analysis	Provide a summary of the alternatives considered that would meet most of the objectives of the Proposed Project and an explanation as to why they were not chosen as the Proposed Project. Include system or facility alternatives, route alternatives, route variations, alternative locations.	Section 5.2 – Description of Project Alternatives to Minimize Significant Effects
	Include a description of a “No Project Alternative”.	Section 5.2 – Description of Project Alternatives to Minimize Significant Effects
6.2 Description of Project Alternatives and Impact Analysis	If significant environmental effects are assessed, the discussion of alternatives shall include alternatives capable of substantially reducing or eliminating any said significant environmental effects, even if the alternative(s) substantially impede the attainment of the Proposed Project objectives and are more costly.	Section 5.2 – Description of Project Alternatives to Minimize Significant Effects
6.3 Growth-Inducing Impacts	Discussion should be fairly succinct and focus on if the Proposed Project will foster economic or population growth, cause an increase in population that could further tax existing community service facilities, or encourage and facilitate other activities that would cause population growth that could significantly affect the environment.	Section 5.3 - Growth-Inducing Impacts
6.4 Suggested Applicant Proposed Measures to address GHG Emissions	Include a menu of suggested APM's that applicants can consider.	Section 3.9 – Applicant Proposed Measures Section 4.3 – Air Quality and Greenhouse Gases
Chapter 7: Other Process-Related Data Needs		
	Include an excel spreadsheet that identifies all parcels within 300 feet of any Proposed Project component with the following data: APN number, owner mailing address, and parcels physical address.	Parcel data also included as Appendix C of the CPCN application.
Notes: ¹ SDG&E would prepare plans if required.		