

## 1 Executive Summary

This section will include, but is not limited to, the following:	PEA Section and Page Number <sup>1</sup>	Applicant Notes, Comments
<b>1.1: Proposed Project Summary.</b> Provide a summary of the proposed project and its underlying purpose and basic objectives.	1.1 p. 1-1	
<b>1.2: Land Ownership and Right-of-Way Requirements.</b> Provide a summary of the existing and proposed land ownership and rights-of-way for the proposed project.	1.2 p. 1-1	
<b>1.3: Areas of Controversy.</b> Identify areas of anticipated controversy and public concern regarding the project.	1.3 p. 1-1	
<b>1.4: Summary of Impacts</b> <ul style="list-style-type: none"> <li>a) Identify all impacts expected by the Applicant to be potentially significant. Identify and discuss Applicant Proposed Measures here and provide a reference to the full listing of Applicant Proposed Measures provided in the table described in Section 3.11 of this PEA Checklist.</li> <li>b) Identify any significant and unavoidable impacts that may occur.</li> </ul>	1.4 p. 1-1	
<b>1.5: Summary of Alternatives.</b> Summarize alternatives that were considered by the Applicant and the process and criteria that were used to select the proposed project.	1.5 p. 1-8	
<b>1.6: Pre-filing Consultation and Public Outreach Summary.</b> Briefly summarize Pre-filing consultation and public outreach efforts that occurred and identify any significant outcomes that were incorporated into the proposed project.	1.6 p. 1-9	
<b>1.7: Conclusions.</b> Provide a summary of the major PEA conclusions.	1.7 p. 1-9	
<b>1.8: Remaining Issues.</b> Describe any major issues that must still be resolved.	1.8 p. 1-9	

---

<sup>1</sup> The *PEA Section and Page Number* column and *Applicant Notes, Comments* column are intended to be filled out and provided with PEA submittals. The PEA Checklist is provided in Word to all Applicants to allow column resizing as appropriate to reduce PEA checklist length when completed for submittal. Landscape formatting may also be appropriate for completed PEA Checklist tables.

## 2 Introduction

### 2.1 Project Background

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>2.1.1: Purpose and Need</b></p> <ul style="list-style-type: none"> <li>a) Explain why the proposed project is needed.</li> <li>b) Describe localities the proposed project would serve and how the project would fit into the local and regional utility system.</li> <li>c) If the proposed project was identified by the California Independent System Operator (CAISO), thoroughly describe the CAISO's consideration of the proposed project and provide the following information:               <ul style="list-style-type: none"> <li>i. Include references to all CAISO Transmission Planning Processes that considered the proposed project.</li> <li>ii. Explain if the proposed project is considered an economic, reliability, or policy-driven project or a combination thereof.</li> <li>iii. Identify whether and how the Participating Transmission Owner recommended the project in response to a CAISO identified need, if applicable.</li> <li>iv. Identify if the CAISO approved the original scope of the project or an alternative and the rationale for their approval either for the original scope or an alternative.</li> <li>v. Identify how and whether the proposed project would exceed, combine, or modify in any way the CAISO identified project need.</li> <li>vi. If the Applicant was selected as part of a competitive bid process, identify the factors that contributed to the selection and CAISO's requirements for in-service date.</li> </ul> </li> <li>d) If the project was not considered by the CAISO, explain why.</li> </ul>	<p>2.1.1 p. 2-1</p>	
<p><b>(Natural Gas Storage Only)</b></p> <ul style="list-style-type: none"> <li>e) Provide storage capacity or storage capacity increase in billion cubic feet. If the project does not increase capacity, make this statement.</li> <li>f) Describe how existing storage facilities will work in conjunction with the proposed project. Describe the purchasing process (injection, etc.) and transportation arrangements this facility will have with its customers.</li> </ul>		<p>Not applicable</p>
<p><b>2.1.2: Project Objectives</b></p>	<p>2.1.2 p. 2-2</p>	

<p>a) Identify and describe the basic project objectives.<sup>2</sup>The objectives will include reasons for constructing the project based on its purpose and need (i.e., address a specific reliability issue). The description of the project objectives will be sufficiently detailed to permit CPUC to independently evaluate the project need and benefits to accurately consider them in light of the potential environmental impacts. The basic project objectives will be used to guide the alternatives screening process, when applicable.</p> <p>b) Explain how implementing the project will achieve the basic project objectives and underlying purpose and need.</p> <p>c) Discuss the reasons why attainment of each basic objective is necessary or desirable.</p>		
<p><b>2.1.3: Project Applicant(s).</b> Identify the project Applicant(s) and ownership of each component of the proposed project. Describe each Applicant’s utility services and their local and regional service territories.</p>	<p>2.1.3 p. 2-2</p>	

## 2.2 Pre-filing Consultation and Public Outreach<sup>3</sup>

<p><b>This section will include, but is not limited to, the following:</b></p>	<p><b>PEA Section and Page Number</b></p>	<p><b>Applicant Notes, Comments</b></p>
<p><b>2.2.1: Pre-filing Consultation and Public Outreach</b></p> <p>a) Describe all Pre-filing consultation and public outreach that occurred, such as, but not limited to:</p> <ul style="list-style-type: none"> <li>i. CAISO</li> <li>ii. Public agencies with jurisdiction over project areas or resources that may occur in the project area</li> <li>iii. Native American tribes affiliated with the project area</li> <li>iv. Private landowners and homeowner associations</li> <li>v. Developers for large housing or commercial projects near the project area</li> <li>vi. Other utility owners and operators</li> <li>vii. Federal, state, and local fire management agencies</li> </ul> <p>b) Provide meeting dates, attendees, and discussion summaries, including any preliminary concerns and how they were addressed and any project alternatives that were suggested.</p> <p>c) Clearly identify any significant outcomes of consultation that were incorporated into the proposed project.</p>	<p>2.2.1 p. 2-3</p>	

<sup>2</sup> Tangential project goals should not be included as basic project objectives, such as, minimizing environmental impacts, using existing ROWs and disturbed land to the maximum extent feasible, ensuring safety during construction and operation, building on property already controlled by the Applicant/existing site control. Goals of this type do not describe the underlying purpose or basic objectives but, rather, are good general practices for all projects.

<sup>3</sup> CPUC CEQA Unit Staff request that consultation and public outreach that occurs during the Pre-filing period and throughout environmental review include the assigned CPUC Staff person and CPUC consultant.

d) Clearly identify any developments that could coincide or conflict with project activities (i.e., developments within or adjacent to a proposed ROW).		
<b>2.2.2: Records of Consultation and Public Outreach.</b> Provide contact information, notification materials, meeting dates and materials, meeting notes, and records of communication organized by entity as an Appendix to the PEA (Appendix G).	2.2.2 p. 2-4	

### 2.3 Environmental Review Process

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>2.3.1: Environmental Review Process.</b> Provide a summary of the anticipated environmental review process and schedule.	2.3.1 p. 2-4	
<b>2.3.2: CEQA Review</b> a) Explain why CPUC is the appropriate CEQA Lead agency. b) Identify other state agencies and any federal agencies that may have discretionary permitting authority over any aspect of the proposed project. c) Identify all potential involvement by federal, state, and local agencies not expected to have discretionary permitting authority (i.e., ministerial actions). d) Summarize the results of any preliminary outreach with these agencies as well as future plans for outreach.	2.3.2 p. 2-4	
<b>2.3.3: NEPA Review (if applicable).</b> If review according to the National Environmental Policy Act (NEPA) is expected, explain the portions of the project that will require the NEPA review process. Discuss which agency is anticipated to be the NEPA Lead agency if discretionary approval by more than one federal agency is required.	2.3.3 p. 2-6	
<b>2.3.4: Pre-filing CEQA and NEPA Coordination.</b> Describe the results of Pre-filing coordination with CEQA and NEPA review agencies (refer to CPUC's Pre-Filing Consultation Guidelines). Identify major outcomes of the Pre-filing coordination process and how the information was incorporated into the PEA, including suggestions on the type of environmental documents and joint or separate processes based on discussions with agency staff.	2.3.4 p. 2-6	

### 2.4 Document Organization

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>2.4: PEA Organization.</b> Summarize the contents of the PEA and provide an annotated list of its sections.	2.4 p. 2-6	



### 3 Proposed Project Description<sup>4</sup>

#### 3.1 Project Overview

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.1: Project Overview</b></p> <ul style="list-style-type: none"> <li>a) Provide a concise summary of the proposed project and components in a few paragraphs.</li> <li>b) Described the geographical location of the proposed project (i.e., county, city, etc.).</li> <li>c) Provide an overview map of the proposed project location.</li> </ul>	<p>3.1 p. 3-1</p>	

#### 3.2 Existing and Proposed System

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.2.1: Existing System</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe the existing utility system that would be modified by the proposed project, including connected facilities to provide context. Include detailed information about substations, transmission lines, distribution lines, compressor stations, metering stations, valve stations, nearby renewable generation and energy storage facilities, telecommunications facilities, control systems, SCADA systems, etc.</li> <li>b) Provide information on users and the area served by the existing system features.</li> <li>c) Explain how the proposed project would fit into the existing local and regional systems.</li> <li>d) Provide a schematic diagram of the existing system features.</li> <li>e) Provide detailed maps and associated GIS data for existing facilities that would be modified by the proposed project.</li> </ul>	<p>3.2.1 p. 3-4</p>	
<p><b>3.2.2: Proposed Project System</b></p> <ul style="list-style-type: none"> <li>a) Describe the whole of the proposed project by component, including all new facilities and any modifications, upgrades, or expansions to existing facilities and any interrelated activities that are part of the whole of the action.</li> <li>b) Clearly identify system features that would be added, modified, removed, disconnected and left in place, etc.</li> <li>c) Identify the expected capacities of the proposed facilities, highlighting any changes from the existing system. If the project would not change existing capacities, make this statement. For electrical projects, provide the anticipated capacity increase in</li> </ul>	<p>3.2.2 p. 3-4</p>	

<sup>4</sup> Applicant review of the Administrative Draft Project Description or sections of the Administrative Draft Project Description prepared for the CEQA document may be requested by CPUC CEQA Unit Staff to ensure technical accuracy.

<p>amps or megawatts or in the typical units for the types of facilities proposed. For gas projects, provide the total volume of gas to be delivered by the proposed facilities, anticipated system capacity increase (typically in million cubic feet per day), expected customers, delivery points and corresponding volumes, and the anticipated maximum allowable operating pressure(s).</p> <p>d) Describe the initial buildout and eventual full buildout of the proposed project facilities. For example, if an electrical substation or gas compressor station would be installed to accommodate additional demand in the future, then include the designs for both the initial construction based on current demand and the design for all infrastructure that could ultimately be installed within the planned footprint of an electric substation or compressor station.</p> <p>e) Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability.</p> <p>f) Provide information on users and the area served by the proposed system features, highlighting any differences from the existing system.</p> <p>g) Provide a schematic diagram of the proposed system features.</p> <p>h) Provide detailed maps and associated GIS data for proposed facilities that would be installed, modified, or relocated by the proposed project.</p>		
<p><b>3.2.3: System Reliability.</b> Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability. Clearly explain and show how the proposed project relates to and supports the existing utility systems.</p>	3.2.3 p. 3-4	
<p><b>3.2.4: Planning Area.</b> Describe the system planning area served or to be served by the project. Clearly define the Applicant’s term for the planning area (e.g., Electrical Needs Area or Distribution Planning Area).</p>	3.2.4 p. 3-6	

### 3.3 Project Components

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>Required for all Project Types</b>		
<p><b>3.3.1: Preliminary Design and Engineering</b></p> <p>a) Provide preliminary design and engineering information for all above-ground and below-ground facilities for the proposed project. The approximately locations, maximum dimensions of facilities, and limits of areas that would be needed to construction and operate the facilities should be clearly defined.<sup>5</sup></p> <p>b) Provide preliminary design drawings for project features and explain the level of completeness (i.e., percentage).</p>	3.3.1 p. 3-6	

<sup>5</sup> Refer to Attachment 1 for mapping and GIS data requirements for the project layout and design.

<p>c) Provide detailed project maps (approximately 1:3,000 scale) and associated GIS data of all facility locations and boundaries with attributes and spatial geometry that corresponds to information in the Project Description.</p>		
<p><b>3.3.2: Segments, Components, and Phases</b></p> <p>a) Define all project segments, components, and phases for the proposed project.</p> <p>b) Provide the length/area of each segment or component, and the timing of each development phase.</p> <p>c) Provide an overview map showing each segment and provide associated GIS data (may be combined with other mapping efforts).</p>	<p>3.3.2 p. 3-6</p>	
<p><b>3.3.3: Existing Facilities</b></p> <p>a) Identify the types of existing facilities that would be removed or modified by the proposed project (i.e., conductor/cable, poles/towers, substations, switching stations, gas storage facilities, gas pipelines, service buildings, communication systems, etc.).</p> <p>b) Describe the existing facilities by project segment and/or component, and provide information regarding existing dimensions, areas/footprints, quantities, locations, spans, etc.</p> <p>c) Distinguish between above-ground and below-ground facilities and provide both depth and height ranges for each type of facility. For poles/towers, provide the installation method (i.e., foundation type or direct bury), and maximum above-ground heights and below-ground depths.</p> <p>d) Explain what would happen to the existing facilities. Would they be replaced, completely removed, modified, or abandoned? Explain why.</p> <p>e) Identify the names, types, materials, and capacity/volumes ranges (i.e., minimum and maximum) of existing facilities that would be installed or modified by the proposed project.</p> <p>f) Provide diagrams with dimensions representing existing facilities to provide context on how the proposed facilities would be different.</p> <p>g) Briefly describe the surface colors, textures, light reflectivity, and any lighting of existing facilities.</p>	<p>3.3.3 p. 3-11</p>	
<p><b>3.3.4: Proposed Facilities</b></p> <p>a) Identify the types of proposed facilities to be installed or modified by the proposed project (e.g., conductor/cable, poles/towers, substations, switching stations, gas storage facilities, gas pipelines, service buildings, communication systems).</p> <p>b) Describe the proposed facilities by project segment and/or component, and provide information regarding maximum dimensions, areas/footprints, quantities, locations, spans, etc.</p>	<p>3.3.4 p. 3-13</p>	



<ul style="list-style-type: none"> <li>c) Distinguish between above-ground and below-ground facilities and provide both depth and height ranges for each type of facility. For poles/towers, provide the installation method (i.e., foundation type or direct bury), and maximum above-ground heights and below-ground depths.</li> <li>d) Identify where facilities would be different (e.g., where unique or larger poles would be located, large guy supports or snub poles).</li> <li>e) Provide details about civil engineering requirements (i.e., permanent roads, foundations, pads, drainage systems, detention basins, spill containment, etc.).</li> <li>f) Distinguish between permanent facilities and any temporary facilities (i.e., poles, shoo-fly lines, mobile substations, mobile compressors, transformers, capacitors, switch racks, compressors, valves, driveways, and lighting).</li> <li>g) Identify the names, types, materials, and capacity/volumes ranges (i.e., minimum and maximum) of proposed facilities that would be installed or modified by the proposed project.</li> <li>h) Provide diagrams with dimensions representing existing facilities.</li> <li>i) Briefly describe the surface colors, textures, light reflectivity, and any lighting of proposed facilities.</li> </ul>		
<p><b>3.3.5: Other Potentially Required Facilities</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe in detail any other actions or facilities that may be required to complete the project. For example, consider the following questions: <ul style="list-style-type: none"> <li>i. Could the project require the relocation (temporary or permanent), modification, or replacement of unconnected utilities or other types of infrastructure by the Applicant or any other entity?</li> <li>ii. Could the project require aviation lighting and/or marking?</li> <li>iii. Could the project require additional civil engineering requirements to address site conditions or slope stabilization issues, such as pads and retaining walls, etc.?</li> </ul> </li> <li>b) Provide the location of each facility and a description of the facility.</li> </ul>	<p>3.3.5 p. 3-17</p>	
<p><b>3.3.6: Future Expansions and Equipment Lifespans</b></p> <ul style="list-style-type: none"> <li>a) Provide detailed information about the current and reasonably foreseeable plans for expansion and future phases of development.</li> <li>b) Provide the expected usable life of all facilities.</li> <li>c) Describe all reasonably foreseeable consequences of the proposed project (e.g., future ability to upgrade gas compressor station to match added pipeline capacity).</li> </ul>	<p>3.3.6 p. 3-17</p>	
<p><b>Required for Certain Project Types</b></p>		
<p><b>3.3.7: Below-ground Conductor/Cable Installations (as Applicable)</b></p>	<p>3.3.4.5</p>	

<ul style="list-style-type: none"> <li>a) Describe the type of line to be installed (e.g., single circuit cross-linked polyethylene-insulated solid-dielectric, copper-conductor cables).</li> <li>b) Describe the type of casing the cable would be installed in (e.g., concrete-encased duct bank system) and provide the dimensions of the casing.</li> <li>c) Describe the types of infrastructure would likely be installed within the duct bank (e.g., transmission, fiber optics, etc.).</li> </ul>	p. 3-17	
<p><b>3.3.8: Electric Substations and Switching Stations (as Applicable)</b></p> <ul style="list-style-type: none"> <li>a) Provide the number of transformer banks that will be added at initial and full buildout of the substation. Identify the transformer voltage and number of each transformer type.</li> <li>b) Identify any gas insulated switchgear that will be installed within the substation.</li> <li>c) Describe any operation and maintenance facilities, telecommunications equipment, and SCADA equipment that would be installed within the substation.</li> </ul>	<p>3.3.4.1 and 3.5.7.1</p> <p>p. 3-13 and 3-25</p>	
<p><b>3.3.9: Gas Pipelines (as Applicable).</b> For each segment:</p> <ul style="list-style-type: none"> <li>a) Identify pipe diameter, number and length of exposed sections, classes and types of pipe to be installed, pressure of pipe, and cathodic protection for each linear segment.</li> <li>b) Describe new and existing inspection facilities (e.g., pig launcher sites).</li> <li>c) Describe system cross ties and laterals/taps.</li> <li>d) Identify the spacing between each valve station.</li> <li>e) Describe the compressor station, if needed, for any new or existing pipeline.</li> <li>f) Describe all pipelines and interconnections with existing and proposed facilities: <ul style="list-style-type: none"> <li>i. Number of interconnections and locations and sizes;</li> <li>ii. All below-ground and above-ground installations; and</li> <li>iii. All remote facility locations for metering, telemetry, control.</li> </ul> </li> </ul>		Not applicable
<p><b>3.3.10: Gas Storage Facilities – Background and Resource Information (as Applicable)</b></p> <ul style="list-style-type: none"> <li>a) Provide detailed background information on the natural gas formation contributing to the existing or proposed natural gas facility, including the following: <ul style="list-style-type: none"> <li>i. Description of overlying stratigraphy, especially caps</li> <li>ii. Description of production, injection, and intervening strata</li> <li>iii. Types of rock</li> <li>iv. Description of types of rocks in formation, including permeability or fractures</li> <li>v. Thickness of strata</li> </ul> </li> <li>b) Provide a graphic and/or table showing formation thicknesses.</li> </ul>		Not applicable

<ul style="list-style-type: none"> <li>c) Identify and describe any potential gas migration pathways, such as faults, permeable contacts, abandoned wells, underground water or other pipelines.</li> <li>d) Provide a summary and detailed cross-section diagrams of the geologic formations and structures of the oil/gas field or area.</li> <li>e) Provide the first well drilling and production history, abandonment procedures, inspections, etc.</li> <li>f) Describe production zones, including depth, types of formations, and characteristics of field/area.</li> <li>g) Describe the existing and proposed storage capacity and limiting factors, such as injection or withdrawal capacities.</li> <li>h) Describe existing simulation studies that were used to predict the reservoir pressure response under gas injection and withdrawal operations, and simulation studies for how the system would change as proposed. Provide the studies as a PEA Appendix.</li> <li>i) Provide the history of the oil/gas field or area.</li> </ul>		
<p><b>3.3.11: Gas Storage Facilities – Well-Head Sites (as Applicable).</b> Describe the location, depth, size and completion information for all existing, abandoned, proposed production and injection, monitoring, and test wells.</p>		Not applicable
<p><b>3.3.12: Gas Storage Facilities – Production and Injection (as Applicable)</b></p> <ul style="list-style-type: none"> <li>a) Provide the proposed storage capacity of production and injection wells.</li> <li>b) Provide production and injection pressures, depths, and rates.</li> <li>c) Provide production and injection cycles by day, week, and year.</li> <li>d) Describe existing and proposed withdrawal/production wells (i.e., size, depth, formations, etc.).</li> <li>e) Describe existing and proposed cushion gas requirements.</li> <li>f) Describe any cushion gas injection—formation the well is completed in (cushion gas formation), and injection information.</li> </ul>		Not applicable
<p><b>3.3.13: Gas Storage Facilities – Electrical Energy (as Applicable).</b> Describe all existing and proposed electric lines, telecommunications facilities, and other utilities/facilities (e.g., administrative offices, service buildings, and non-hazardous storage), and chemical storage associated with the proposed project.</p>		Not applicable

<p><b>3.3.14: Telecommunication Lines (as Applicable)</b></p> <p>a) Identify the type of cable that is proposed and length in linear miles by segment.</p> <p>b) Identify any antenna and node facilities that are part of the project.</p> <p>c) For below-ground telecommunication lines, provide the depth of cable and type of conduit.</p> <p>d) For above-ground telecommunication lines, provide:</p> <ul style="list-style-type: none"> <li>i. Types of poles that will be installed (if new poles are required)</li> <li>ii. Where existing poles will be used</li> <li>iii. Any additional infrastructure (e.g., guy wires) or pole changes required to support the additional cable on existing poles</li> </ul>	<p>3.3.3.5</p> <p>3-13</p>	
---	----------------------------	--

### 3.4 Land Ownership, Rights-of-Way, and Easements

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.4.1: Land Ownership.</b> Describe existing land ownership where each project component would be located. State whether the proposed project would be located on property(ies) owned by the Applicant or if additional property would be required.</p>	<p>3.4.1</p> <p>p. 3-18</p>	
<p><b>3.4.2: Existing Rights-of-Way or Easements</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe existing rights-of-way (ROWs) or easements where project components would be located. Provide the approximately lengths and widths in each project area.</li> <li>b) Clearly state if project facilities would be replaced, modified, or relocated within existing ROWs or easements.</li> </ul>	<p>3.4.2</p> <p>p. 3-18</p>	
<p><b>3.4.3: New or Modified Rights-of-Way or Easements</b></p> <ul style="list-style-type: none"> <li>a) Describe new permanent or modified ROWs or easements that would be required. Provide the approximately lengths and widths in each project area.</li> <li>b) Describe how any new permanent or modified ROWs or easements would be acquired.</li> <li>c) Provide site plans identifying all properties/parcels and partial properties/parcels that may require acquisition and the anticipated ROWs or easements. Provide associated GIS data.</li> <li>d) Describe any development restrictions within new ROWs or easements, e.g., building clearances and height restrictions, etc.</li> <li>e) Describe any relocation or demolition of commercial or residential property/structures that may be necessary.</li> </ul>	<p>3.4.3</p> <p>p. 3-18</p>	

<p><b>3.4.4: Temporary Rights-of-Way or Easements</b></p> <p>f) Describe temporary ROWs or easements that would be required to access project areas, including ROWs or easements for temporary construction areas (i.e., staging areas or landing zones).</p> <p>g) Explain where temporary construction areas would be located with existing ROWs or easements for the project or otherwise available to the Applicant without a temporary ROW or easement.</p> <p>h) Describe how any temporary ROWs or easements would be acquired.</p>	<p>3.4.4 p. 3-18</p>	
--	--------------------------	--

### 3.5 Construction

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>3.5.1 Construction Access (All Projects)</b>		
<b>3.5.1.1: Existing Access Roads</b>		
<p>a) Provide the lengths, widths, ownership details (both public and private roads), and surface characteristics (i.e., paved, graveled, bare soil) of existing access roads that would be used during construction. Provide the area of existing roads that would be used (see example in <b>Error! Reference source not found.</b> below).</p> <p>b) Describe any road modifications or stabilization that would be required prior to construction, including on the adjacent road shoulders or slopes. Identify any roads that would be expanded and provide the proposed width increases.</p> <p>c) Describe any procedures to address incidental road damage cause by project activities following construction.</p> <p>d) Provide detailed maps and associated GIS data for all existing access roads.</p>	<p>3.5.1.1 p. 3-19</p>	

<p><b>3.5.1.2: New Access Roads</b></p> <p>a) Identify any new access roads that would be developed for project construction purposes, such as where any blading, grading, or gravel placement could occur to provide equipment access outside of a designated workspace.<sup>6</sup></p> <p>b) Provide lengths, widths, and development methods for new access roads.</p> <p>c) Identify any temporary or permanent gates that would be installed.</p> <p>d) Clearly identify any roads that would be temporary and fully restored following construction. Otherwise it will be assumed the new access road is a permanent feature.</p>	<p>3.5.1.2 p. 3-20</p>	
--	----------------------------	--

<sup>6</sup> Temporary roads that would not require these activities should be considered an overland route.

e) Provide detailed maps and associated GIS data for all new access roads.		
<b>3.5.1.3: Overland Access Routes</b> a) Identify any overland access routes that would be used during construction, such as where vehicles and equipment would travel over existing vegetation and where blading, grading, or gravel placement would occur. b) Provide lengths and widths for new access roads. c) Provide detailed maps and associated GIS data for all overland access routes.	3.5.1.3 p. 3-20	
<b>3.5.1.4: Watercourse Crossings</b> a) Identify all temporary watercourse crossings that would be required during construction. Provide specific methods and procedures for temporary watercourse crossings. b) Describe any bridges or culverts that replacement or installation of would be required for construction access. c) Provide details about the location, design and construction methods.	3.5.1.4 p. 3-20	
<b>3.5.1.3: Helicopter Access.</b> If helicopters would be used during construction: a) Describe the types and quantities of helicopters that would be used during construction (e.g., light, medium, heavy, or sky crane), and a description of the activities that each helicopter would be used for. b) Identify areas for helicopter takeoff and landing. c) Describe helicopter refueling procedures and locations. d) Describe flight paths, payloads, and expected hours and durations of helicopter operation. e) Describe any safety procedures or requirements unique to helicopter operations, such as but not limited to obtaining a Congested Area Plan from the Federal Aviation Administration (FAA).	3.5.1.3 p. 3-21	
<b>3.5.2 Staging Areas (All Projects)</b>		
<b>3.5.2.1: Staging Area Locations</b> a) Identify the locations of all staging area(s). Provide a map and GIS data for each. <sup>7</sup> b) Provide the size (in acres) for each staging area and the total staging area requirements for the project.	3.5.2.1 p. 3-21	
<b>3.5.2.2: Staging Area Preparation</b>	3.5.2.2	

<sup>7</sup> While not all potential local site staging areas will be known prior to selection of a contractor, it is expected that approximate area and likely locations of staging areas be disclosed. The identification of extra or optional staging areas should be considered to reduce the risk of changes after project approval that could necessitate further CEQA review.

<ul style="list-style-type: none"> <li>a) Describe any site preparation required, if known, or generally describe what might be required (i.e., vegetation removal, new access road, installation of rock base, etc.).</li> <li>b) Describe what the staging area would be used for (i.e., material and equipment storage, field office, reporting location for workers, parking area for vehicles and equipment, etc.).</li> <li>c) Describe how the staging area would be secured. Would a fence be installed? If so, describe the type and extent of the fencing.</li> <li>d) Describe how power to the site would be provided if required (i.e., tap into existing distribution, use of diesel generators, etc.).</li> <li>e) Describe any temporary lightning facilities for the site.</li> <li>f) Describe any grading activities and/or slope stabilization issues.</li> </ul>	p. 3-21	
<b>3.5.3 Construction Work Areas (All Projects)</b>		
<b>3.5.3.1: Construction Work Areas</b>		
<ul style="list-style-type: none"> <li>a) Describe known work areas that may be required for specific construction activities (e.g., pole assembly, hillside construction)<sup>8</sup></li> <li>b) Describe the types of activities that would be performed at each work area. Work areas may include but are not necessarily limited to: <ul style="list-style-type: none"> <li>i. Helicopter landing zones and touchdown areas</li> <li>ii. Vehicle and equipment parking, passing, or turnaround areas</li> <li>iii. Railroad, bridge, or watercourse crossings</li> <li>iv. Temporary work pads for facility installation, modification, or removal</li> <li>v. Excavations and associated equipment work areas</li> <li>vi. Temporary guard structures</li> <li>vii. Pull-and-tension/stringing sites</li> <li>viii. Jack and bore pits, drilling areas and pull-back areas for horizontal directional drills</li> <li>ix. Retaining walls</li> </ul> </li> </ul>	3.5.3.1 p. 3-21	
<b>3.5.3.2 Work Area Disturbance</b>		
<ul style="list-style-type: none"> <li>a) Provide the dimensions of each work area including the maximum area that would be disturbed during construction (e.g., 100 feet by 200 feet) (see example in <b>Error! Reference source not found.</b> below).</li> <li>b) Provide a table with temporary and permanent disturbance at each work area (in square feet or acres), and the total area of temporary and permanent disturbance for the entire project (in acres).</li> </ul>	3.5.3.2 p. 3-21	
<b>3.5.3.3: Temporary Power.</b> Identify how power would be provided at work area (i.e., tap into existing distribution, use of diesel generators, etc.). Provide the disturbance area for any temporary power lines.		
	3.5.3.3 p. 3-22	

<sup>8</sup> Understanding that each specific work area may not be determined until the final work plan is submitted by the construction contractor, estimate total area likely to be disturbed.

<b>3.5.4 Site Preparation (All Projects)</b>		
<b>3.5.4.1: Surveying and Staking.</b> Describe initial surveying and staking procedures for site preparation and access.	3.5.4.1 p. 3-22	
<b>3.5.4.2: Utilities</b> a) Describe the process for identifying any underground utilities prior to construction (i.e., underground service alerts, etc.). b) Describe the process for relocating any existing overhead or underground utilities that aren't directly connected to the project system. c) Describe the process for installing any temporary power or other utility lines for construction.	3.5.4.1 p. 3-22	
<b>3.5.4.3: Vegetation Clearing</b> a) Describe what types of vegetation clearing may be required (e.g., tree removal, brush removal, flammable fuels removal) and why (e.g., to provide access, etc.). b) Provide calculations of temporary and permanent disturbance of each vegetation community and include all areas of vegetation removal in the GIS database. Distinguish between disturbance that would occur in previously developed areas (i.e., paved, graveled, or otherwise urbanized), and naturally vegetated areas. c) Describe how each type of vegetation removal would be accomplished. d) Describe the types of equipment that would be used for vegetation removal.	3.5.4.3 p. 3-22	
<b>3.5.4.4: Tree Trimming Removal</b> a) For electrical projects, distinguish between tree trimming as required under CPUC General Order 95-D and tree removal. b) Identify the types, locations, approximate numbers, and sizes of trees that may need to be removed or trimmed substantially. c) Identify potentially protected trees that may be removed or substantially trimmed, such as but not limited to riparian trees, oaks trees, Joshua trees, or palm trees. d) Describe the types of equipment that would typically be used for tree removal.	3.5.4.4 p. 3-23	No tree trimming will occur
<b>3.5.4.5: Work Area Stabilization.</b> Describe the processes to stabilize temporary work areas and access roads including the materials that would be used (e.g., gravel).	3.5.4.5 p. 3-23	



<p><b>3.5.4.6: Grading</b></p> <p>a) Describe any earth moving or substantial grading activities (i.e., grading below a 6-inch depth) that would be required and identify locations where it would occur.</p> <p>b) Provide estimated volumes of grading (in cubic yards) including total cut, total fill, cut that would be reused, cut that would be hauled away, and clean fill that would be hauled to the site.</p>	<p>3.5.4.6</p> <p>p. 3-23</p>	
<p><b>3.5.5 Transmission Line Construction (Above Ground)</b></p>		
<p><b>3.5.5.1: Poles/Towers</b></p> <p>Describe the process and equipment for removing poles, towers, and associated foundations for the proposed project (where applicable). Describe how they would be disconnected, demolished, and removed from the site. Describe backfilling procedures and where the material would be obtained.</p> <p>c) Describe the process and equipment for installing or otherwise modifying poles and towers for the proposed project. Describe how they would be put into place and connected to the system. Identify any special construction methods (e.g., helicopter installation) at specific locations or specific types of poles/towers.</p> <p>d) Describe how foundations, if any, would be installed. 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. for foundations. Describe what would be done with soil removed from a hole/foundation site.</p> <p>e) Describe how the poles/towers and associated hardware would be delivered to the site and assembled.</p> <p>f) Describe any pole topping procedures that would occur, identify specific locations and reasons, and describe how each facility would be modified. Describe any special methods that would be required to top poles that may be difficult to access.</p>	<p>3.5.5.1</p> <p>p. 3-23</p>	
<p><b>3.5.5.2: Aboveground and Underground Conductor/Cable</b></p> <p>a) Provide a process-based description of how new conductor/cable would be installed and how old conductor/cable would be removed, if applicable.</p> <p>b) Identify where conductor/cable stringing/installation activities would occur.</p> <p>c) Provide a diagram of the general sequencing and equipment that would be used.</p> <p>d) Describe the conductor/cable splicing process.</p> <p>e) Provide the general or average distance between pull-and-tension sites. Describe the approximate dimensions and where pull-and-tension sites would generally be required (as indicated by the designated work areas), such as the approximate distance to pole/tower height ratio, at set distances, or at significant direction</p>	<p>3.5.5.2</p> <p>p. 3-24</p>	

<p>changes. Describe the equipment that would be required at these sites.</p> <p>f) For underground conductor/cable installations, describe all specialized construction methods that would be used for installing underground conductor or cable. If vaults are required, provide their dimensions and location/spacing along the alignment. Provide a detailed description for how the vaults would be delivered to the site and installed.</p> <p>g) Describe any safety precautions or areas where special methodology would be required (e.g., crossing roadways, stream crossing).</p>		
<p><b>3.5.5.3: Telecommunications.</b> Identify the procedures for installation of proposed telecommunication cables and associated infrastructure.</p>	<p>3.5.5.3 p. 3-25</p>	
<p><b>3.5.5.4: Guard Structures.</b> Identify the types of guard structures that would be used at crossings of utility lines, roads, railroads, highways, etc. Describe the different types of guard structures or methods that may be used (i.e., buried poles and netting, poles secured to a weighted object, bucket trucks, etc.). Describe any pole installation and removal procedures associated with guard structures. Describe guard structure installation and removal process and duration that guard structures would remain in place.</p>	<p>3.5.5.4 p. 3-25</p>	
<p><b>3.5.5.5: Blasting</b></p> <p>a) Describe any blasting that may be required to construct the project.</p> <p>b) If blasting may be required, provide a Blasting Plan that identifies the blasting locations; types and amounts of blasting agent to be used at each location; estimated impact radii; and, noise estimates. The Blasting Plan should be provided as an Appendix to the PEA.</p> <p>c) Provide a map identifying the locations where blasting may be required with estimated impact radii. Provide associated GIS data.</p>	<p>3.5.5.5 p. 3-25</p>	<p>No blasting will occur</p>
<p><b>3.5.6 Transmission Line Construction (Below Ground)</b></p>		
<p><b>3.5.6.1: Trenching</b></p> <p>a) Describe the approximate dimensions of the trench (e.g., depth, width).</p> <p>b) Provide the total approximate volume of material to be removed from the trench, the amount to be used as backfill, and any amount to subsequently be removed/disposed of offsite in cubic yards.</p> <p>c) Describe the methods used for making the trench (e.g., saw cutter to cut the pavement, backhoe to remove, etc.).</p> <p>d) Provide off-site disposal location, if known, or describe possible option(s).</p> <p>e) Describe if dewatering would be anticipated and if so, how the trench would be dewatered, the anticipated flows of the water, whether there would be treatment, and how the water would be disposed of.</p>	<p>3.5.6.1 p. 3-25</p>	

<ul style="list-style-type: none"> <li>f) Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants that could be exposed from trenching operations.</li> <li>g) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal.</li> <li>h) Describe the state of the ground surface after backfilling the trench.</li> <li>i) Describe standard Best Management Practices to be implemented.</li> </ul>		
<p><b>3.5.6.2: Trenchless Techniques (Microtunnel, Jack and Bore, Horizontal Directional Drilling)</b></p> <ul style="list-style-type: none"> <li>a) Identify any locations/features for which the Applicant expects to use a trenchless (i.e., microtunneling, jack and bore, horizontal directional drilling) crossing method and which method is planned for each crossing.</li> <li>b) Describe the methodology of the trenchless technique.</li> <li>c) Provide the approximate location and dimensions of the sending and receiving pits.</li> <li>d) Describe the methodology of excavating and shoring the pits.</li> <li>e) Provide the total volume of material to be removed from the pits, the amount to be used as backfill, and the amount subsequently to be removed/disposed of offsite in cubic yards.</li> <li>f) Describe process for safe handling of drilling mud and bore lubricants.</li> <li>g) Describe the process for detecting and avoiding “fracturing-out” during horizontal directional drilling operations.</li> <li>h) Describe the process for avoiding contact between drilling mud/lubricants and stream beds.</li> <li>i) If engineered fill would be used as backfill, indicate the type of engineered backfill and the amount that would be typically used (e.g., the top 2 feet would be filled with thermal-select backfill).</li> <li>j) Describe if dewatering is anticipated and, if so, how the pits would be dewatered, the anticipated flows of the water, whether there would be treatment, and how the water would be disposed of.</li> <li>k) Describe the process for testing excavated soil or groundwater for the presence of pre-existing environmental contaminants. Describe the process of disposing of any pre-existing hazardous waste that is encountered during excavation.</li> <li>l) Describe any standard BMPs that would be implemented for trenchless construction.</li> </ul>	<p>3.5.6.2 p. 3-25</p>	
<p><b>3.5.7 Substation, Switching Stations, Gas Compressor Stations</b></p>		
<p><b>3.5.7.1: Installation or Facility Modification.</b> Describe the process and equipment for removing, installing, or modifying any substations, switching stations, or compressor stations including:</p> <ul style="list-style-type: none"> <li>a) Transformers/ electric components</li> <li>b) Gas components</li> <li>c) Control and operation buildings</li> <li>d) Driveways</li> </ul>	<p>3.5.7.1 p. 3-25</p>	

e) Fences f) Gates g) Communication systems (SCADA) h) Grounding systems		
<b>3.5.7.2: Civil Works.</b> Describe the process and equipment required to construct any slope stabilization, drainage, retention basins, and spill containment required for the facility.	3.5.7.2 p. 3-26	
<b>3.5.8 Gas Pipelines</b>		
<b>3.5.8.1: Gas Pipeline Construction.</b> Describe the process for proposed pipeline construction including site development, trenching and trenchless techniques, pipe installation, and backfilling.		Not applicable
<b>3.5.8.2: Water Crossings.</b> Describe water feature crossings that will occur during trenching, the method of trenching through stream crossings, and the process for avoiding impacts to the water features required for pipeline construction. Identify all locations where the pipeline will cross water features. Cite to any associated geotechnical or hydrological investigations completed and provide a full copy of each report as an Appendix to the PEA. <sup>9</sup>		Not applicable
<b>3.5.8.3: Gas Pipeline Other Requirements</b> a) Describe hydrostatic testing process including pressures, timing, source of flushing water, discharge of water. b) Describe energy dissipation basin, and the size and length of segments to be tested. c) Describe pig launching locations and any inline inspection techniques used during or immediately post construction.		Not applicable
<b>3.5.9 Gas Storage Facilities</b>		
<b>3.5.9.1: Gas Storage Construction</b> a) Describe the process for constructing the gas storage facility including constructing well pads and drilling wells. b) Describe the specific construction equipment that would be used, such as the type of drill rig (i.e., size, diesel, electric, etc.), depth of drilling, well-drilling schedule and equipment.		Not applicable
<b>3.5.9.2: Drilling Muds and Fluids.</b> Describe the use of any drilling muds, fluids, and other drilling materials. Provided estimated types and quantities.		Not applicable
<b>3.5.10 Public Safety and Traffic Control (All Projects)</b>		
<b>3.5.10.1: Public Safety</b> a) Describe specific public safety considerations during construction and best management practices to appropriately manage public safety. Clearly state when and where they each safety measure would be applied.	3.5.10.1 p. 3-26	

<sup>9</sup> If a geotechnical study is not available at the time of PEA filing, provide the best information available.

<ul style="list-style-type: none"> <li>b) Identify procedures for managing work sites in urban areas, covering open excavations securely, installing barriers, installing guard structures, etc.</li> <li>c) Identify specific project areas where public access may be restricted for safety purposes and provide the approximate durations and timing of restricted access at each location.</li> </ul>		
<p><b>3.5.10.2: Traffic Control</b></p> <ul style="list-style-type: none"> <li>a) Describe traffic control procedures that would be implemented during construction.</li> <li>b) Identify the locations, process, and timing for closing any sidewalks, lanes, roads, trails, paths, or driveways to manage public access.</li> <li>c) Identify temporary detour routes and locations.</li> <li>d) Provide a preliminary Traffic Control Plan(s) for the project.</li> </ul>	3.5.10.2 p. 3-26	
<p><b>3.5.10.3: Security.</b> Describe any security measures, such as fencing, lighting, alarms, etc. that may be required. State if security personnel will be stationed at project areas and anticipated duration of security.</p>	3.5.10.3 p. 3-27	
<p><b>3.5.10.4: Livestock.</b> Describe any livestock fencing or guards that may be necessary to prevent livestock from entering project areas. State if the fencing would be electrified and if so, how it would be powered.</p>	3.5.10.4 p. 3-27	None present
<b>3.5.11 Dust, Erosion, and Runoff Controls (All Projects)</b>		
<p><b>3.5.11.1: Dust.</b> Describe specific best management practices that would be implemented to manage fugitive dust.</p>	3.5.11.1 p. 3-27	
<p><b>3.5.11.2: Erosion.</b> Describe specific best management practices that would be implemented to manage erosion.</p>	3.5.11.2 p. 3-27	
<p><b>3.5.11.3: Runoff.</b> Describe specific best management practices that would be implemented to manage stormwater runoff and sediment.</p>	3.5.11.3 p. 3-27	
<b>3.5.12 Water Use and Dewatering (All Projects)</b>		
<p><b>3.5.12.1: Water Use.</b> Describe the estimated volumes of water that would be used by construction activity (e.g., dust control, compaction, etc.). State if recycled or reclaimed water would be used and provide estimated volumes. Identify the anticipated sources where the water would be acquired or purchased. Identify if the source of water is groundwater and the quantity of groundwater that could be used.</p>	3.5.12.1 p. 3-27	
<p><b>3.5.12.2: Dewatering</b></p> <ul style="list-style-type: none"> <li>a) Describe dewatering procedures during construction, including pumping, storing, testing, permitted discharging, and disposal requirements that would be followed.</li> <li>b) Describe the types of equipment and workspace considerations to be used to dewater, store, transport, or discharge extracted water.</li> </ul>	3.5.12.2 p. 3-28	
<b>3.5.13 Hazardous Materials and Management (All Projects)</b>		
<p><b>3.5.13.1: Hazardous Materials</b></p>	3.5.13.1	

<ul style="list-style-type: none"> <li>a) Describe the types, uses, and volumes of all hazardous materials that would be used during construction.</li> <li>b) State if herbicides or pesticides may be used during construction.</li> <li>c) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal.</li> </ul>	p. 3-28	
<b>3.5.13.2: Hazardous Materials Management</b>		
<ul style="list-style-type: none"> <li>a) Identify specific best management practices that would be followed for transporting, storing, and handling hazardous materials.</li> <li>b) Identify specific best management practices that would be followed in the event of an incidental leak or spill of hazardous materials.</li> <li>c) Provide a Hazardous Substance Control and Emergency Response Plan / Hazardous Waste and Spill Prevention Plan as an Appendix to the PEA, if appropriate.</li> </ul>	3.5.13.2 p. 3-28	
<b>3.5.14 Waste Generation and Management (All Projects)</b>		
<b>3.5.14.1: Solid Waste</b>		
<ul style="list-style-type: none"> <li>a) Describe solid waste streams from existing and proposed facilities during construction.</li> <li>b) Identify procedures to be implemented to manage solid waste, including collection, containment, storage, treatment, and disposal.</li> <li>c) Provide estimated total volumes of solid waste by construction activity or project component.</li> <li>d) Describe the recycling potential of solid waste materials and provide estimated volumes of recyclable materials by construction activity or project component.</li> <li>e) Identify the locations of appropriate disposal and recycling facilities where solid wastes would be transported.</li> </ul>	3.5.12.3 p. 3-28	
<b>3.5.14.2: Liquid Waste</b>		
<ul style="list-style-type: none"> <li>a) Describe liquid waste streams during construction (i.e., sanitary waste, drilling fluids, contaminated water, etc.)</li> <li>b) Describe procedures to be implemented to manage liquid waste, including collection, containment, storage, treatment, and disposal.</li> <li>c) Provide estimated volumes of liquid waste generated by construction activity or project component.</li> <li>d) Identify the locations of appropriate disposal facilities where liquid wastes would be transported.</li> </ul>	3.5.13.4 p. 3-29	
<b>3.5.14.3: Hazardous Waste</b>		
<ul style="list-style-type: none"> <li>a) Describe potentially hazardous waste streams during construction and procedures to be implemented to manage hazardous wastes, including collection, containment, storage, treatment, and disposal.</li> <li>b) If large volumes of hazardous waste are anticipated, such as from a pre-existing contaminant in the soil that must be collected and disposed of, provide estimated volumes of hazardous waste that would be generated by construction activity or project component.</li> </ul>	3.5.13.5 p. 3-29	

c) Identify the locations of appropriate disposal facilities where hazardous wastes would be transported.		
<b>3.5.15 Fire Prevention and Response (All Projects)</b>		
<b>3.5.15.1: Fire Prevention and Response Procedures.</b> Describe fire prevention and response procedures that would be implemented during construction. Provide a Construction Fire Prevention Plan or specific procedures as an Appendix to the PEA.	3.5.14.1 p. 3-30	Specific procedures included as APM
<b>3.5.15.2: Fire Breaks.</b> Identify any fire breaks (i.e., vegetation clearance) requirements around specific project activities (i.e., hot work). Ensure that such clearance buffers are included in the limits of the defined work areas, and the vegetation removal in that area is attributed to Fire Prevention and Response (refer to 3.5.4.3: Vegetation Clearing).	3.5.14.2 p. 3-30	

### 3.6 Construction Workforce, Equipment, Traffic, and Schedule

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>3.6.1: Construction Workforce</b> a) Provide the estimated number of construction crew members. In the absence of project-specific data, provide estimates based on past projects of a similar size and type. b) Describe the crew deployment. Would crews work concurrently (i.e., multiple crews at different sites); would they be phased? How c) d) many crews could be working at the same time and where? e) Describe the different types of activities to be undertaken during construction, the number of crew members for each activity (i.e. trenching, grading, etc.), and number and types of equipment expected to be used for the activity. Include a written description of the activity. See example in <b>Error! Reference source not found..</b>	3.6.1 p. 3-30	
<b>3.6.2: Construction Equipment.</b> Provide a tabular list of the types of equipment expected to be used during construction of the proposed project including the horsepower. Define the equipment that would be used by each phase as shown in the example table below ( <b>Error! Reference source not found.</b> ).	3.6.2 p. 3-30	

<b>3.6.3: Construction Traffic</b> a) Describe how the construction crews and their equipment would be transported to and from the proposed project site. b) Provide vehicle type, number of vehicles, and estimated hours of operation per day, week, and month for each construction activity and phase. c) Provide estimated vehicle trips and vehicles miles traveled (VMT) for each construction activity and phase. Provide separate values for	3.6.3 p. 3-36	
--	------------------	--

construction crews commuting, haul trips, and other types of construction traffic.		
<p><b>3.6.4: Construction Schedule</b></p> <p>a) Provide the proposed construction schedule (e.g., month and year) for each segment or project component, and for each construction activity and phase.</p> <p>b) Provide and explain the sequencing of construction activities, and if they would or would not occur concurrently.</p> <p>c) Provide the total duration of each construction activity and phase in days or weeks.</p> <p>d) Identify seasonal considerations that may affect the construction schedule, such as weather or anticipated wildlife restrictions, etc. The proposed construction should account for such factors.</p>	3.6.4 p. 3-36	
<p><b>3.6.5: Work Schedule</b></p> <p>a) Describe the anticipated work schedule, including the days of the week and hours of the day when work would occur. Clearly state if work would occur at night or on weekends and identify when and where this could occur.</p> <p>b) Provide the estimated number of days or weeks that construction activities would occur at each type of work area. For example, construction at a stationary facility or staging area may occur for the entire duration of construction, but construction at individual work areas along a linear project would be limited to a few hours, days or weeks, and only a fraction of the total construction period.</p>	3.6.5 p. 3-36	

### 3.7 Post-Construction

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>3.7.1: Configuring and Testing.</b> Describe the process and duration for post-construction configuring and testing of facilities. Describe the number of personnel and types of equipment that would be involved.	3.7.1 p. 3-36	
<b>3.7.2: Landscaping.</b> Describe any landscaping that would be installed. Provide a conceptual landscape plan that identifies the locations and types of plantings that will be used. Identify whether plantings will include container plants or seeds. Include any water required for landscaping in the description of water use above.	3.7.2 p. 3-37	
<b>3.7.3 Demobilization and Site Restoration</b>		
<b>3.7.3.1: Demobilization.</b> Describe the process for demobilization after construction activities, but prior to leaving the work site. For example, describe final processes for removing stationary equipment and materials, etc.	3.7.3.1 p. 3-37	
<b>3.7.3.2: Site Restoration.</b> Describe how cleanup and post-construction restoration would be performed (i.e., personnel, equipment, and	3.7.3.2	



<p>methods) on all project ROWs, sites, and extra work areas. Things to consider include, but are not limited to, restoration of the following:</p> <ul style="list-style-type: none"> <li>a) Restoring natural drainage patterns</li> <li>b) Recontouring disturbed soil</li> <li>c) Removing construction debris</li> <li>d) Vegetation</li> <li>e) Permanent and semi-permanent erosion control measures</li> <li>f) Restoration of all disturbed areas and access roads, including restoration of any public trails that are used as access, as well as any damaged sidewalks, agricultural infrastructure, or landscaping, etc.</li> <li>g) Road repaving and striping, including proposed timing of road restoration for underground construction within public roadways</li> </ul>	p. 3-37	
---	---------	--

### 3.8 Operation and Maintenance

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.8.1: Regulations and Standards</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe all regulations and standards applicable to operation and maintenance of project facilities.</li> <li>b) Provide a copy of any applicable Wildfire Management Plan and describe any special procedures for wildfire management.</li> </ul>	<p>3.8.1</p> <p>p. 3-37</p>	
<p><b>3.8.2: System Controls and Operation Staff</b></p> <ul style="list-style-type: none"> <li>a) Describe the systems and methods that the Applicant would use for monitoring and control of project facilities (e.g., on-site control rooms, remote facilities, standard monitoring and protection equipment, pressure sensors, automatic shut-off valves, and site and equipment specific for monitoring and control such as at natural gas well pads).</li> <li>b) If new full-time staff would be required for operation and/or maintenance, provide the number of positions and purpose.</li> </ul>	<p>3.8.2</p> <p>p. 3-37</p>	
<p><b>3.8.3: Inspection Programs</b></p> <ul style="list-style-type: none"> <li>a) Describe the existing and proposed inspection programs for each project component, including the type, frequency, and timing of scheduled inspections (i.e., aerial inspection, ground inspection, pipeline inline inspections).</li> <li>b) Describe any enhanced inspections, such as within any High Fire Threat Districts consistent with applicable Wildfire Management Plan requirements.</li> <li>c) Describe the inspection processes, such as the methods, number of crew members, and how access would occur (i.e., walk, vehicle, all-terrain vehicle, helicopter, drone, etc.). If new access would be required, describe any restoration that would be provided for the access roads.</li> </ul>	<p>3.8.3</p> <p>p. 3-37</p>	

<p><b>3.8.4: Maintenance Programs</b></p> <p>a) Describe the existing and proposed maintenance programs for each project component.</p> <p>b) Describe scheduled maintenance or facility replacement after the designated lifespan of the equipment.</p> <p>c) Identify typical parts and materials that require regular maintenance and describe the repair procedures.</p> <p>d) Describe any access road maintenance that would occur.</p> <p>e) Describe maintenance for surface or color treatment.</p> <p>f) Describe cathodic protection maintenance that would occur.</p> <p>g) Describe ongoing landscaping maintenance that would occur.</p>	<p>3.8.4</p> <p>p. 3-38</p>	
<p><b>3.8.5: Vegetation Management Programs</b></p> <p>a) Describe vegetation management programs within and surrounding project facilities. Distinguish between any different types of vegetation management.</p> <p>b) Describe any enhanced vegetation management, such as within any High Fire Threat Districts consistent with any applicable Wildfire Management Plan requirements. Identify the areas where enhanced vegetation management would be conducted.</p>	<p>3.8.5</p> <p>p. 3-38</p>	<p>No vegetation to maintain</p>

### 3.9 Decommissioning

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.9.1: Decommissioning.</b> Provide detailed information about the current and reasonably foreseeable plans for the disposal, recycling, or future abandonment of all project facilities.</p>	<p>3.9</p> <p>p. 3-38</p>	

### 3.10 Anticipated Permits and Approvals

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.10.1: Anticipated Permits and Approvals.</b> Identify all necessary federal, state, regional, and local permits that may be required for the project. For each permit, list the responsible agency and district/office representative with contact information, type of permit or approval, and status of each permit with date filed or planned to file. For example:</p> <p>a) Federal Permits and Approvals</p> <ul style="list-style-type: none"> <li>i. U.S. Fish and Wildlife Service</li> <li>ii. U.S. Army Corps of Engineers</li> <li>iii. Federal Aviation Administration</li> <li>iv. U.S. Forest Service</li> <li>v. U.S. Department of Transportation – Office of Pipeline Safety</li> <li>vi. U.S. Environmental Protection Agency (Resource Conservation and Recovery Act; Comprehensive Environmental Response,</li> </ul>	<p>3.10.1</p> <p>p. 3-39</p>	

<p>Compensation, and Liability Act)</p> <p>b) State and Regional Permits</p> <ul style="list-style-type: none"> <li>i. California Department of Fish and Wildlife</li> <li>ii. California Department of Transportation</li> <li>iii. California State Lands Commission</li> <li>iv. California Coastal Commission</li> <li>v. State Historic Preservation Office, Native American Heritage Commission</li> <li>vi. State Water Resources Control Board</li> <li>vii. California Division of Oil, Gas and Geothermal Resources</li> <li>viii. Regional Air Quality Management District</li> <li>ix. Regional Water Quality Control Board (National Pollutant Discharge Elimination System General Industrial Storm Water Discharge Permit)</li> <li>x. Habitat Conservation Plan Authority (if applicable)</li> </ul> <p>See also <b>Error! Reference source not found.</b> of example permitting requirements and processes.</p>		
<p><b>3.10.2: Rights-of-Way or Easement Applications.</b> Demonstrate that applications for ROWs or other proposed land use have been or soon will be filed with federal, state, or other land-managing agencies that have jurisdiction over land that would be affected by the project (if any). Discuss permitting plans and timeframes and provide the contact information at the federal agency(ies) approached.</p>	<p>3.10.2 p. 3-40</p>	

### 3.11 Applicant Proposed Measures

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.11 Applicant Proposed Measures</b></p> <ul style="list-style-type: none"> <li>a) Provide a table with the full text of any Applicant Proposed Measure. Where applicable, provide a copy of Applicant procedures, plans, and standards referenced in the Applicant Proposed Measures.</li> <li>b) Within Chapter <b>Error! Reference source not found.</b>, describe the basis for selecting a particular Applicant Proposed Measure and how the Applicant Proposed Measure would reduce the impacts of the project.<sup>10</sup></li> <li>c) Carefully consider each CPUC Draft Environmental Measure identified in Chapter <b>Error! Reference source not found.</b> of this PEA Checklist. The CPUC Draft Environmental Measures will be applied to the proposed project where applicable.</li> </ul>	<p>3.11 p. 3-40</p>	

<sup>10</sup> Applicant Proposed Measures that use phrases, such as, “as practicable” or other conditional language are not acceptable and will be superseded by Mitigation Measures if required to avoid or reduce a potentially significant impact.

### 3.12 Project Description Graphics, Mapbook, and GIS Requirements

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>3.12.1: Graphics.</b> Provide diagrams of the following as applicable:</p> <ul style="list-style-type: none"> <li>a) All pole, tower, pipe, vault, conduit, and retaining wall types</li> <li>b) For poles, provide typical drawings with approximate diameter at the base and tip; for towers, estimate the width at base and top.</li> <li>c) A typical detail for any proposed underground duct banks and vaults</li> <li>d) All substation, switchyard, building, and facility layouts</li> <li>e) Trenching, drilling, pole installation, pipe installation, vault installation, roadway construction, facility removal, helicopter uses, conductor installation, traffic control, and other construction activities where a diagram would assist the reader in visualizing the work area and construction approach</li> <li>f) Typical profile views of proposed aboveground facilities and existing facilities to be modified within the existing and proposed ROW (e.g., typical cross-section of existing and proposed facilities by project segment).</li> <li>g) Photos of representative existing and proposed structures</li> </ul>	<p>3.12.1 p. 3-48</p>	
<p><b>3.12.2: Mapbook.</b> Provide a detailed mapbook on an aerial imagery basemap at a scale between 1:3000 and 1:6000 (or as appropriate and legible) that show mileposts, roadways, and all project components and work areas including:</p> <ul style="list-style-type: none"> <li>a) All proposed above-ground and underground structure/facility locations (e.g., poles, conductor, substations, compressor stations, telecommunication lines, vaults, duct bank, lighting, markers, etc.)</li> <li>b) All existing structures/facilities that would be modified or removed</li> <li>c) Identify by milepost where existing ROW will be used and where new ROW or land acquisition will be required.</li> <li>d) All permanent work areas including permanent facility access</li> <li>e) All access roads including, existing, temporary, and new permanent access</li> <li>f) All temporary work areas including staging, material storage, field offices, material laydown, temporary work areas for above ground (e.g., pole installation) and underground facility construction (e.g., trenching and duct banks), helicopter landing zones, pull and tension sites, guard structures, shoo flies etc.</li> <li>g) Areas where special construction methods (e.g., jack and bore, HDD, blasting, retaining walls etc.) may need to be employed</li> </ul>	<p>3.12.2 p. 3-49</p>	<p>Separate mapbook not needed as project components fit on single page.</p>

<ul style="list-style-type: none"> <li>h) Areas where vegetation removal may occur</li> <li>i) Areas to be heavily graded and where slope stabilization measures would be employed including any retaining walls</li> </ul>		
<p><b>3.12.3: GIS Data.</b> Provide GIS data for all features and ROW shown on the detailed mapbook.</p>	<p>3.12.3 p. 3-49</p>	
<p><b>3.12.4: GIS Requirements.</b> Provide the following information for each pole/tower that would be installed and for each pole/tower that would be removed:</p> <ul style="list-style-type: none"> <li>a) Unique ID number and type of pole (e.g., wood, steel, etc.) or tower (e.g., self-supporting lattice) both in a table and in the attributes of the GIS data provided</li> <li>b) Identify pole/tower heights and conductor sizes in the attributes of the GIS data provided.</li> </ul>	<p>3.12.4 p. 3-49</p>	
<p><b>3.12.5: Natural Gas Facilities GIS Data.</b> For natural gas facilities, provide GIS data for system cross ties and all laterals/taps, valve stations, and new and existing inspection facilities (e.g., pig launcher sites).</p>	<p>3.12.5 p. 3-49</p>	

## 4 Description of Alternatives

All Applicants will assume that alternatives will be required for the environmental analysis and that an EIR will be prepared unless otherwise instructed by CPUC CEQA Unit Staff in writing prior to application filing. See PEA Requirements at the beginning of this checklist document. The consideration and discussion of alternatives will adhere to CEQA Guidelines Section 15126.6. The description of alternatives will be provided in this chapter of the PEA, and the comparison of each alternative to the proposed project is provided in PEA Chapter 6. The amount of detail required for the description of various alternatives to the proposed project and what may be considered a reasonable range of alternatives will be discussed with CPUC during Pre-filing.

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>4.1 Alternatives Considered.</b> Identify alternatives to the proposed project.<sup>11</sup> Include the following:</p> <ul style="list-style-type: none"> <li>a) All alternatives to the proposed project that were suggested, considered, or studied by the CAISO or by CAISO stakeholders</li> <li>b) Alternatives suggested by the public or agencies during public outreach efforts conducted by the Applicant</li> <li>c) Reduced footprint alternatives, including, e.g., smaller diameter pipelines and space for fewer electric transformers</li> <li>d) Project phasing options (e.g., evaluate the full build out for environmental clearance but consider an initial, smaller buildout that would only be expanded [in phases] if needed)</li> <li>e) Alternative facility and construction activity sites (e.g., substation, compressor station, drilling sites, well-head sites, staging areas)</li> <li>f) Renewable, energy conservation, energy efficiency, demand response, distributed energy resources, and energy storage alternatives</li> <li>g) Alternatives that would avoid or limit the construction of new transmission-voltage facilities or new gas transmission pipelines</li> <li>h) Other technological alternatives (e.g., conductor type)</li> <li>i) Route alternatives and route variations</li> <li>j) Alternative engineering or technological approaches (e.g., alternative types of facilities, or materials, or configurations)</li> <li>k) Assign an identification label and brief, descriptive title to each alternative described in this PEA chapter (e.g., Alternative A: No Project; Alternative B: Reduced Footprint 500/115-kV Substation; Alternative C: Ringo Hills 16-inch Pipeline Alignment; Alternative D1: Lincoln Street Route Variation; etc.). Each alternative will be easily identifiable by reading the brief title.</li> </ul> <p>Provide a description of each alternative. The description of each alternative will discuss to what extent it would be potentially feasible,</p>	<p>4.1 4-1</p>	

<sup>11</sup> Reduced footprint alternatives; siting alternatives; renewable, energy conservation, energy efficiency, demand response, distributed energy resources, and energy storage alternatives; and non-wires alternatives (electric projects only) are typically required. For linear projects, route alternatives and route variations are typically required as well.

<p>meet the project’s underlying purpose, meet most of the basic project objectives, and avoid or reduce one or more potentially significant impacts. If the Applicant believes that an alternative is infeasible or the implementation is remote and speculative (CEQA Guidelines Section 15126.6(f)(3), clearly explain why.</p> <p>If significant environmental effects are possible without mitigation, alternatives will be provided in the PEA that are capable of avoiding or reducing any potentially significant environmental effects, even if the alternative(s) substantially impede the attainment of some project objectives or are costlier.<sup>12</sup></p>		
<p><b>4.3 Rejected Alternatives.</b> Provide a detailed discussion of all alternatives considered by the Applicant that were not selected by the Applicant for a full description in the PEA and analysis in PEA Chapter 5. The detailed discussion will include the following:</p> <ul style="list-style-type: none"> <li>a) Description of the alternative and its components</li> <li>b) Map of any alternative sites or routes</li> <li>c) Discussion about the extent to which the alternative would meet the underlying purpose of the project and its basic objectives</li> <li>d) Discussion about the feasibility of implementing the alternative</li> <li>e) Discussion of whether the alternative would reduce or avoid any significant environmental impacts of the proposed project</li> <li>f) Discussion of any new significant impacts that could occur from implementation of the alternative</li> <li>g) Description of why the alternative was rejected</li> <li>h) Any comments from the public or agencies about the alternative during PEA preparation</li> </ul>	<p>4.2 4-3</p>	
<p><b>For Natural Gas Storage Projects:</b></p>		
<p><b>4.4 Natural Gas Storage Alternatives.</b> In addition to the requirements included above, alternatives to be considered for proposed natural gas storage projects include the following, where applicable:</p> <ul style="list-style-type: none"> <li>a) Alternative reservoir locations considered for gas storage including other field locations and other potential storage areas</li> <li>b) Alternative pipelines, road, and utility siting</li> <li>c) Alternative suction gas requirements, and injection/withdrawal options</li> </ul>		<p>Not a natural gas storage project</p>

<sup>12</sup> CPUC CEQA Unit Staff will determine whether an alternative could *substantially* reduce one or more potentially significant impacts of the proposed project (CEQA Guidelines Section 15125.5). Applicants are strongly advised to provide more rather than less alternatives for CPUC’s consideration or as determined during Pre-filing.

## 5.1 Aesthetics

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>5.1.1 Environmental Setting</b>		
<b>5.1.1.1: Landscape Setting.</b> Briefly described the regional and local landscape setting.	5.1.1.1 p. 5.1-1	
<b>5.1.1.2: Scenic Resources.</b> Identify and describe any vistas, scenic highways, national scenic areas, or other scenic resources within and surrounding the project area (approximately 5-mile buffer but may be greater if necessary). Scenic resources may also include but are not limited to historic structures, trees, or other resources that contribute to the scenic values where the project would be located.	5.1.1.2 p. 5.1-4	
<b>5.1.1.3: Viewshed Analysis</b> <ul style="list-style-type: none"> <li>a) Conduct a viewshed analysis for the project area (approximately 5-mile buffer but may be greater if necessary).</li> <li>b) Describe the project viewshed, including important visibility characteristics for the project site, such as viewing distance, viewing angle, and intervening topography, vegetation, or structures.</li> <li>c) Provide a supporting map (or maps) showing project area, landscape units, topography (i.e., hillshade), and the results of the viewshed analysis. Provide associated GIS data.</li> </ul>	5.1.1.3 p. 5.1-4	
<b>5.1.1.4: Landscape Units.</b> Identify and describe landscape units (geographic zones) within and surrounding the project area (approximately 5-mile buffer but may be greater if necessary) that categorizes different landscape types and visual characteristics, with consideration to topography, vegetation, and existing land uses. Landscape units should be developed based on the existing landscape characteristics rather than the project's features or segments.	5.1.1.4 p. 5.1-4	
<b>5.1.1.5: Viewers and Viewer Sensitivity.</b> Identify and described the types of viewers expected within the viewshed and landscape units. Describe visual sensitivity to general visual change based on viewing conditions, use of the area, feedback from the public about the project, and landscape characteristics.	5.1.1.5 p. 5.1-8	



<p><b>5.1.1.6: Representative Viewpoints</b></p> <p>a) Identify representative viewpoints from publicly accessible locations (up to approximately 5-mile buffer but may be greater if appropriate). The number and location of the viewpoints must represent a range of views of the project site from major roads, highways, trails, parks, vistas, landmarks, and other scenic resources near the project site. Multiple viewpoints should be included where the project site would be visible from sensitive scenic resources to provide context on different viewing distances, perspectives, and directions.</p> <p>b) Provide the following information for each viewpoint:</p> <ul style="list-style-type: none"> <li>i. Number, title, and brief description of the location</li> <li>ii. Types of viewers</li> <li>iii. Viewing direction(s) and distance(s) to the nearest proposed project features</li> <li>iv. Description of the existing visual conditions and visibility of the project site as seen from the viewpoint and shown in the representative photographs</li> </ul> <p>c) Provide a supporting map (or maps) showing project features and representative viewpoints with arrows indicating the viewing direction(s). Provide associated GIS data (may be combined with GIS data request below for representative photographs).</p>	<p>5.1.1.6 p. 5.1-8</p>	
<p><b>5.1.1.7: Representative Photographs</b></p> <p>a) Provide high resolution photographs taken from the representative viewpoints in the directions of all proposed project features.<sup>13</sup> Multiple photographs should be provided where project features may be visible in different viewing directions from the same location.</p> <p>b) Provide the following information for each photograph:</p> <ul style="list-style-type: none"> <li>i. Capture time and date</li> <li>ii. Camera body and lens model</li> <li>iii. Lens focal length and camera height when taken</li> </ul> <p>c) Provide GIS data associated with each photograph location that includes coordinates (&lt;1 meter resolution), elevations, and viewing directions, as well as the associated viewpoint.</p>	<p>5.1.17 p. 5.1-9</p>	
<p><b>5.1.1.8: Visual Resource Management Areas</b></p> <p>a) Identify any visual resource management areas within and surrounding the project area (approximately 5-mile buffer).</p> <p>b) Describe any project areas within visual resource management areas.</p>	<p>5.1.1.8 p. 5.1-9</p>	<p>No visual resource management areas within 5 miles of</p>

<sup>13</sup> All representative photographs should be taken using a digital single-lens reflex camera with standard 50-millimeter lens equivalent, which represents an approximately 40-degree horizontal view angle. The precise photograph coordinates and elevations should be collected using a high accuracy GPS unit.

c) Provide a supporting map (or maps) showing project features and visual resource management areas. Provide associated GIS data.		the project area
<b>5.1.2 Regulatory Setting</b>		
<b>5.1.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding aesthetics and visual resource management.	5.1.2.1 p. 5.1-9	No federal regulations related to aesthetic or visual resources are applicable to the project
<b>5.1.3 Impact Questions</b>		
<b>5.1.3.1: Impact Questions.</b> The impact questions include all aesthetic impact questions in the current version of CEQA Guidelines, Appendix G. <b>5.1.3.2:</b> Additional CEQA Impact Questions: None.	5.1.3.1 p. 5.1-11	
<b>5.1.4 Impact Analysis</b>		
<b>5.1.4.1: Visual Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.1.4.1 p. 5.1-11	
The following information will be included in the PEA or a technical Appendix to support the aesthetic impact analysis:		
<b>5.1.4.2: Analysis of Selected Viewpoints.</b> Identify the methodology and assumptions that were applied in selecting key observation points for visual simulation. It is recommended that viewpoints are selected where viewers may be sensitive to visual change (public views) and in areas that are visually sensitive, or heavily trafficked or visited. <sup>14</sup>	5.1.4.2 p. 5.1-14	
<b>5.1.4.3: Visual Simulation</b> a) Identify methodology and assumptions for completing the visual simulations. The simulations should include photorealistic 3-D models of project features and any land changes within the KOP view. The visual simulations should depict conditions: i. Immediately following construction, and ii. After vegetation establishment in all areas of temporary impact to illustrate the visual impact from vegetation removal. b) Provide high resolution images for the visual simulations.	5.1.4.3 p. 5.1-14	
<b>5.1.4.4: Analysis of Visual Change</b>	5.1.4.4	

<sup>14</sup> The KOP selection process should be discussed with CPUC during Pre-filing

<p>a) Identify the methodology and assumptions for completing the visual change analysis.<sup>15</sup> The methodology should be consistent with applicable visual resource management criteria.</p> <p>b) Provide a description of the visual change for each selected viewpoint. Describe any conditions that would change over time, such as vegetation growth.</p> <p>c) Describe the effects of visual change that would result in the entire project area, as indicated by the selected viewpoints that were simulated and analyzed.</p>	p. 5.1-14	
<p><b>5.1.4.5: Lighting and Marking.</b> Identify all new sources of permanent lighting. Identify any proposed structures or lines that could require FAA notification. Identify any structures or line segments that could require lighting and marking based on flight patterns and FAA or military requirements. Provide supporting documentation in an Appendix (e.g., FAA notice and criteria tool results).</p>	5.1.4.5 p. 5.1-17	No structures or lines will require FAA notification
<p><b>5.1.5 CPUC Draft Environmental Measures</b></p>		
<p>Refer to Attachment 4, CPUC Draft Environmental Measures.</p>	5.1.5.1 p. 5.1-17	CPUC Measures incorporated as APM AES-1-4

## 5.2 Agriculture and Forestry Resources

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<p><b>5.2.1 Environmental Setting</b></p>		
<p><b>5.2.1.1: Agricultural Resources and GIS</b></p>		
<p>a) Identify all agricultural resources that occur within the project area including:</p> <ul style="list-style-type: none"> <li>i. Areas designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance</li> <li>ii. Areas under Williamson Act contracts and provide information on the status of the Williamson Act contract</li> <li>iii. Any areas zoned for agricultural use in local plans</li> <li>iv. Areas subject to active agricultural use</li> </ul> <p>b) Provide GIS data for agricultural resources within the proposed project area.</p>	5.2.1.1 p. 5.2-1	
<p><b>5.2.1.2: Forestry Resources and GIS</b></p>		
<p>a) Identify all forestry resources within the project area including:</p>	5.2.1.2 p. 5.2-3	No forestry resources

<sup>15</sup> The visual impact assessment methodology should be discussed with CPUC during Pre-filing

<ul style="list-style-type: none"> <li>i. Forest land as defined in Public Resources Code 12220(g)<sup>16</sup></li> <li>ii. Timberland as defined in Public Resource Code section 4526</li> <li>iii. Timberland zoned Timberland Production as defined in Government Code section 51104(g)</li> </ul> <p>b) Provide GIS data for all forestry resources within the proposed project area.</p>		
<b>5.2.2 Regulatory Setting</b>		
<b>5.2.2: Agriculture and Forestry Regulations.</b> Identify all federal, state, and local policies for protection of agricultural and forestry resources that apply to the proposed project.	5.2.2 p. 5.2-3	
<b>5.2.3 Impact Questions</b>		
<b>5.2.3.1: Agriculture and Forestry Impact Questions.</b> The impact questions include all agriculture and forestry impact questions in the current version of CEQA Guidelines, Appendix G.	5.2.3.1 p. 5.2-4	
<b>5.2.3.2: Additional CEQA Impact Questions:</b> None.	5.2.3.2 p. 5.2-4	
<b>5.2.4 Impact Analyses</b>		
<b>5.2.4.1: Agriculture and Forestry Impacts.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.2.4.1 p. 5.2-5	
Incorporate the following discussions into the analysis of impacts:		
<b>5.2.4.2: Prime Farmland Soil Impacts.</b> Calculate the acreage of Prime Farmland soils that would be affected by construction and operation and maintenance.	5.2.4.2 p. 5.2-8	
<b>5.2.4.3. Williamson Act Impacts.</b> Describe the approach to resolve potential conflicts with Williamson Act contract (if applicable)	5.2.4.3 p. 5.2-8	
<b>5.2.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.2.5.1 p. 5.2-8	CPUC measure incorporated as APM AGR-1

### 5.3 Air Quality

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>5.3.1 Environmental Setting</b>		

<sup>16</sup> Forest land is defined in Public Resources Code as, “land that can support 10 percent native tree cover of any species, including hardwoods, under natural conditions, and that allows for management of one or more forest resources, including timber, aesthetics, fish and wildlife, biodiversity, water quality, recreation, and other public benefits.”

<b>5.3.1.1: Air Quality Plans</b> Identify and describe all applicable air quality plans and attainment areas. Identify the air basin(s) for the project area. If the project is located in more than one attainment area and/or air basin, provide the extent in each attainment area and air basin.	5.3.1.1 p. 5.3-1	
<b>5.3.1.2: Air Quality.</b> Describe existing air quality in the project area. a) Identify existing air quality exceedance of National Ambient Air Quality Standards and California Ambient Air Quality Standards in the air basin. b) Provide the number of days that air quality in the area exceeds state and federal air standards for each criteria pollutant that where air quality standards are exceeded. c) Provide air quality data from the nearest representative air monitoring station(s).	5.3.1.2 p. 5.3-2	
<b>5.3.1.3: Sensitive Receptor Locations.</b> Identify the location and types of each sensitive receptor locations <sup>17</sup> within 1,000 feet of the project area. Provide GIS data for sensitive receptor locations.	5.3.1.3 p. 5.3-5	
<b>5.3.2 Regulatory Setting</b>		
<b>5.3.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding aesthetics and visual resource management.	5.3.2.1 p. 5.3-5	
<b>5.3.2.2: Air Permits.</b> Identify and list all necessary air permits.	5.3.2.2 p. 5.3-7	
<b>5.3.3 Impact Questions</b>		
<b>5.3.3.1: Impact Questions.</b> The impact questions include all air quality impact questions in the current version of CEQA Guidelines, Appendix G. <b>5.3.3.2:</b> Additional CEQA Impact Questions: None.	5.3.3.1 p. 5.3-8	
<b>5.3.4 Impact Analysis</b>		
<b>5.3.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.3.4.1 p. 5.3-8	
The following information will be presented in the PEA or a technical Appendix to support the air quality impact analysis:		
<b>5.3.4.2: Air Quality Emissions Modeling.</b> Model project emissions using the most recent version of CalEEMod and/or a current version of other applicable modeling program. Provide all model input and output data sheets in Microsoft Excel format to allow CPUC to evaluate whether project data was entered into the modeling	5.3.4.2 p. 5.3-10	

<sup>17</sup> Sensitive Receptor locations may include hospitals, schools, and day care centers, and such other locations as the air district board or California Air Resources Board may determine (California Health and Safety Code § 42705.5(a)(5)).

<p>program accurately. The assumptions used in the air quality modeling must be consistent with all PEA information about the project’s schedule, workforce, and equipment. The following information will be addressed in the emissions modeling, Air Quality Appendix, and PEA:</p> <ul style="list-style-type: none"> <li>a) Quantify the expected emissions of criteria pollutants from all project-related sources. Quantify emissions for both construction and operation (e.g., compressor equipment).</li> <li>b) Identify manufacturer’s specifications for all proposed new emission sources. For proposed new, additional, or modified compressor units, include the horsepower, type, and energy source.</li> <li>c) Describe any emission control systems that are included in the air quality analysis (e.g., installation of filters, use of EPA Tier II, III, or IV equipment, use of electric engines, etc.).</li> <li>d) When multiple air basins may be affected by the project, model air emissions within each air basin and provide a narrative (supported by calculations) that clearly describes the assumptions around the project activities considered for each air basin. Provide modeled emissions by attainment area or air basin (supported by calculations).</li> </ul>		
<p><b>5.3.4.3: Air Quality Emissions Summary.</b> Provide a table summarizing the air quality emissions for the project and applicable thresholds for each applicable attainment area. Include a summary of uncontrolled emissions (prior to application of any APMs) and controlled emissions (after application of APMs). Clearly identify the assumptions that were applied in the controlled emissions estimates.</p>	<p>5.3.4.3 p. 5.3-11</p>	
<p><b>5.3.4.4: Health Risk Assessment.</b> Complete a Health Risk Assessment when air quality emissions have the potential to lead to human health impacts<sup>18</sup>. If health impacts are not anticipated from project emissions, the analysis should clearly describe why emissions would not lead to health impacts.</p>	<p>5.3.4.4 p. 5.3-11</p>	
<p><b>5.3.5 CPUC Draft Environmental Measures</b></p>		
<p>Refer to Attachment 4, CPUC Draft Environmental Measures.</p>	<p>5.3.5.1 p. 5.3-11</p>	<p>CPUC measure incorporated as APM Air-1</p>

<sup>18</sup> Refer to Office of Environmental Health Hazard Assessment (OEHHA) most recent guidance for preparation of Health Risk Assessments to determine whether a Health Risk Assessment is required for the project. The need for an HRA should also be discussed with CPUC during Pre-filing.

## 5.4 Biological Resources

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>5.4.1 Environmental Setting</b>		
<b>5.4.1.1: Biological Resources Technical Report.</b> Provide a Biological Resources Technical Report as an Appendix to the PEA that includes all information specified in Attachment 2.	5.4.1.1 p. 5.4-1	
The following biological resources information will be presented in the PEA:		
<b>5.4.1.2: Survey Area (Local Setting).</b> Identify and describe the biological resources survey area as documented in the Biological Resources Technical Report. All temporary and permanent project areas must be within the survey area.	5.4.1.2 p. 5.4-1	
<b>5.4.1.3: Vegetation Communities and Land Cover</b> <ol style="list-style-type: none"> <li>a) Identify, describe, and quantify vegetation communities and land cover types within the biological resources survey area.</li> <li>b) Clearly identify any sensitive natural vegetation communities that meet the definition of a biological resource under CEQA (i.e., rare, designated, or otherwise protected), such as, but not limited to, riparian habitat.</li> <li>c) Provide a supporting map (or maps) showing project features and vegetation communities and land cover type.</li> </ol>	5.4.1.3 p. 5.4-5	
<b>5.4.1.4: Aquatic Features</b> <ol style="list-style-type: none"> <li>a) Identify, describe, and quantify aquatic features within the biological resources survey area that may provide potentially suitable aquatic habitat for rare and special-status species.</li> <li>b) Identify and quantify potentially jurisdictional aquatic features and delineated wetlands, according to the Wetland Delineation Report and Biological Resources Technical Report.</li> <li>c) Provide a supporting map (or maps) showing project features and aquatic resources.</li> </ol>	5.4.1.4 p. 5.4-8	
<b>5.4.1.5: Habitat Assessment.</b> Identify rare and special-status species with potential to occur in the project region (approximately a 5-mile buffer but may be larger if necessary). For each species, provide the following information: <ol style="list-style-type: none"> <li>a) Common and scientific name</li> <li>b) Status and/or rank</li> <li>c) Habitat characteristics (i.e., vegetation communities, elevations, seasonal changes, etc.)</li> <li>d) Blooming characteristics for plants</li> <li>e) Breeding and other dispersal (range) behavior for wildlife</li> <li>f) Potential to occur within the survey area (i.e., Present, High Potential, Moderate Potential, Low Potential, or Not Expected), with justification based on the results of the</li> </ol>	5.4.1.5 p. 5.4-9	

<p>records search, survey findings, and presence of potentially suitable habitat</p> <p>g) Specific types and locations of potentially suitable habitat that correspond to the vegetation communities and land cover and aquatic features</p>		
<p><b>5.4.1.6: Critical Habitat</b></p> <p>a) Identify and describe any critical habitat for rare or special-status species within and surrounding the project area (approximately a 5-mile buffer).</p> <p>b) Provide a supporting map (or maps) showing project features and critical habitat.</p>	<p>5.4.1.6</p> <p>p. 5.4-22</p>	
<p><b>5.4.1.7: Native Wildlife Corridors and Nursery Sites</b></p> <p>a) Identify and describe regional and local wildlife corridors within and surrounding the project area (approximately a 5-mile buffer), including but not limited to, landscape and aquatic features that connect suitable habitat in regions otherwise fragmented by terrain, changes in vegetation, or human development.</p> <p>b) Identify and describe regional and local native wildlife nursery sites within and surrounding the project area (approximately a 5-mile buffer), as identified through the records search, surveys, and habitat assessment.</p> <p>c) Provide a supporting map (or maps) showing project features, native wildlife corridors, and native nursery sites.</p>	<p>5.4.1.7</p> <p>p. 5.4-22</p>	
<p><b>5.4.1.8: Biological Resource Management Areas</b></p> <p>a) Identify any biological resource management areas (i.e., conservation or mitigation areas, HCP or NCCP boundaries, etc.) within and surrounding the project area (approximately 5-mile buffer).</p> <p>b) Identify and quantify any project areas within biological resource management areas.</p> <p>c) Provide a supporting map (or maps) showing project features and biological resource management areas.</p>	<p>5.4.1.8</p> <p>p. 5.4-22</p>	
<b>5.4.2 Regulatory Setting</b>		
<p><b>5.4.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding biological resources.</p>	<p>5.4.2.1</p> <p>p. 5.4-23</p>	
<p><b>5.4.2.2: Habitat Conservation Plan.</b> Provide a copy of any relevant Habitat Conservation Plan.</p>	<p>5.4.2.2</p> <p>p. 5.4-27</p>	
<b>5.4.3 Impact Questions</b>		
<p><b>5.4.3.1: Impact Questions.</b> The impact questions include all biological resource impact questions in the current version of CEQA Guidelines, Appendix G.</p>	<p>5.4.3.1</p> <p>p. 5.4-28</p>	



<p><b>5.4.3.2: Additional CEQA Impact Question:</b></p> <p>Would the project create a substantial collision or electrocution risk for birds or bats?</p>	<p>5.4.3.2 p. 5.4-29</p>	
<p><b>5.4.4 Impact Analysis</b></p>		
<p><b>5.4.4.1: Impact Analysis</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for Biological Resources and any additional impact questions listed above.</p>	<p>5.4.4.2 p. 5.4-29</p>	
<p>The following information will be included in the impact analysis:</p>		
<p><b>5.4.4.2: Quantify Habitat Impacts.</b> Provide the area of impact in acres by each habitat type. Quantify temporary and permanent impacts. For all temporary impacts provide the following:</p> <ul style="list-style-type: none"> <li>a) Description of the restoration and revegetation approach</li> <li>b) Vegetation species that would be planted within the area of temporary disturbance</li> <li>c) Procedures to reduce invasive weed encroachment within areas of temporary disturbance</li> <li>d) Expected timeframe for restoration of the site</li> </ul>	<p>5.4.4.2 p. 5.4-32</p>	
<p><b>5.4.4.3: Special-Status Species Impacts.</b> Identify anticipated impacts on special-status species. Identify any take permits that are anticipated for the project. If an existing habitat conservation plan (HCP) or natural communities conservation plan (NCCP) would be used for the project, provide current accounting of take coverage included in the HCP/NCCP to demonstrate that there is sufficient habitat coverage remaining under the existing permit.</p>	<p>5.4.4.3 p. 5.4-33</p>	
<p><b>5.4.4.4: Wetland Impacts.</b> Quantify the area (in acres) of temporary and permanent impacts on wetlands. Include the following details:</p> <ul style="list-style-type: none"> <li>a) Provide a table identifying all wetlands, by milepost and length, crossed by the project and the total acreage of each wetland type that would be affected by construction.</li> <li>b) Discuss construction and restoration methods proposed for crossing wetlands.</li> <li>c) If wetlands would be filled or permanently lost, describe proposed measures to compensate for permanent wetland losses.</li> <li>d) If forested wetlands would be affected, describe proposed measures to restore forested wetlands following construction.</li> </ul>	<p>5.4.4.4 p. 5.4-33</p>	
<p><b>5.4.4.5: Avian Impacts.</b> Describe avian obstructions and risk of electrocution from the project. Describe any standards that will be implemented as part of the project to reduce the risk of collision and electrocution.</p>	<p>5.4.4.5 p. 5.4-33</p>	
<p><b>5.4.5 CPUC Draft Environmental Measures</b></p>		

Refer to Attachment 4, CPUC Draft Environmental Measures.	5.4.5.1 p. 5.4-34	CPUC Measures incorporated as APM BIO-1-15
---	----------------------	--

## 5.5 Cultural Resources<sup>19</sup>

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>5.5.1 Environmental Setting</b>		
<b>5.5.1.1: Cultural Resource Reports.</b> Provide a cultural resource inventory and evaluation report that addresses the technical requirement provided in Attachment 3.	5.5.1.1 p. 5.5-1	
<b>5.5.1.2: Cultural Resources Summary.</b> Summarize cultural resource survey and inventory results and survey methods. Do not provide any confidential cultural resource information within the PEA chapter.	5.5.1.2 p. 5.5-5	
<b>5.5.1.3: Cultural Resource Survey Boundaries.</b> Provide a map with mileposts showing the boundaries of all survey areas in the report. Provide the GIS data for the survey area. Provide confidential GIS data for the resource locations and boundaries separately under confidential cover.	5.5.1.3 p. 5.5-10	
<b>5.5.2 Regulatory Setting</b>		
<b>5.5.2.1: Regulatory Setting.</b> Identify applicable federal and state regulations for protection of cultural resources.	5.5.2.1 p. 5.5-10	
<b>5.5.3 Impact Questions</b>		
<b>5.5.3.1: Impact Questions.</b> The impact questions include all cultural resource impact questions in the current version of CEQA Guidelines, Appendix G.	5.5.3.1 p. 5.5-12	
<b>5.5.3.2:</b> Additional CEQA Impact Questions: None.		
<b>5.5.4 Impact Analysis</b>		
<b>5.5.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.5.4.1 p. 5.5-12	
Include the following information in the impact analysis		
<b>5.5.4.2: Human Remains.</b> Describe the potential for encountering human remains or grave goods during the trenching or any other phase of construction. Describe the procedures that would be used if human remains are encountered.	5.5.4.2 p. 5.5-13	

<sup>19</sup> For a description and evaluation of cultural resources specific to Tribes, see Section 5.18, Tribal Cultural Resources.

<b>5.5.4.3: Resource Avoidance.</b> Describe avoidance procedures that would be implemented to avoid known resources.		Not included in the report
<b>5.5.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.5.5.1 p. 5.5-15	CPUC Measures incorporated as APM CUL-4

## 5.6 Energy

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.6.1 Environmental Setting</b>		
<b>5.6.1.1: Existing Energy Use.</b> Identify energy use of existing infrastructure if the proposed project would replace or upgrade an existing facility.	5.6.1.1 p. 5.6-1	
<b>5.6.2 Regulatory Setting</b>		
<b>5.6.2.1: Regulatory Setting.</b> Identify applicable federal, state, or local regulations or policies applicable to energy use for the proposed project.	5.6.2.1 p. 5.6-1	
<b>5.6.3 Impact Questions</b>		
<b>5.6.3.1: Impact Questions:</b> The impact questions include all energy impact questions in the current version of CEQA Guidelines, Appendix G.	5.6.3.1 p. 5.6-4	
<b>5.6.3.2: Additional CEQA Impact Question:</b> Would the project add capacity for the purpose of serving a non-renewable energy resource?	5.6.3.2 p. 5.6-4	
<b>5.6.4 Impact Analysis</b>		
<b>5.6.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.6.4.1 p. 5.6-4	
Include the following information in the impact analysis:		
<b>5.6.4.2: Nonrenewable Energy.</b> Identify renewable and non-renewable energy projects that may interconnected to or be supplied by the proposed project.	5.6.4.2 p. 5.6-6	
<b>5.6.4.3: Fuels and Energy Use</b> a) Provide an estimation of the amount of fuels (gasoline, diesel, helicopter fuel, etc.) that would be used during construction and operation and maintenance of the project. Fuel estimates should be consistent with Air Quality calculations supporting the PEA. b) Provide the following information on energy use:	5.6.4.3 p. 5.6-6	

<ul style="list-style-type: none"> <li>i. Total energy requirements of the project by fuel type and end use</li> <li>ii. Energy conservation equipment and design features</li> <li>iii. Identification of energy supplies that would serve the project</li> </ul>		
<b>5.6.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.6.5.1 p. 5.6-6	No additional APMs

## 5.7 Geology, Soils, and Paleontological Resources

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.7.1 Environmental Setting</b>		
<b>5.7.1.1: Regional and Local Geologic Setting.</b> Briefly describe the regional and local physiography, topography, and geologic setting in the project area.	5.7.1.1 p. 5.7-1	
<b>5.7.1.2: Seismic Hazards</b> <ul style="list-style-type: none"> <li>a) Provide the following information on potential seismic hazards in the project area: <ul style="list-style-type: none"> <li>i. Identify and describe regional and local seismic risk including any active faults within and surrounding the project area (will be a 10-mile buffer unless otherwise instructed in writing by CEQA Unit Staff during Pre-filing)</li> <li>ii. Identify any areas that are prone to seismic-induced landslides</li> <li>iii. Provide the liquefaction potential for the project area</li> </ul> </li> <li>b) Provide a supporting map (or maps) showing project features and major faults, areas of landslide risk, and areas at high risk of liquefaction. Provide GIS data for all faults, landslides, and areas of high liquefaction potential.</li> </ul>	5.7.1.2 p. 5.7-1	
<b>5.7.1.3: Geologic Units.</b> Identify and describe the types of geologic units in the project area. Include the following information for each geologic unit: <ul style="list-style-type: none"> <li>a) Summarize the geologic units within the project area.</li> <li>b) Identify any previous landslides in the area and any areas that are at risk of landslide.</li> <li>c) Identify any unstable geologic units.</li> <li>d) Provide a supporting map (or maps) showing project features and geologic units. Clearly identify any areas with potentially hazardous geologic conditions. Provide associated GIS data.</li> </ul>	5.7.1.3 p. 5.7-2	
<b>5.7.1.4: Soils.</b> Identify and describe the types of soils in the project area.	5.7.1.4 p. 5.7-5	

<ul style="list-style-type: none"> <li>a) Summarize the soils within the project area.</li> <li>b) Clearly identify any soils types that could be unstable (e.g., at risk of lateral spreading, subsidence, liquefaction, or collapse).</li> <li>c) Provide information on erosion susceptibility for each soil type that occurs in the project area.</li> <li>d) Provide a supporting map (or maps) showing project features and soils. Provide associated GIS data.</li> </ul>		
<p><b>5.7.1.5: Paleontological Report.</b> Provide a paleontological report that includes the following:</p> <ul style="list-style-type: none"> <li>a) Information on any documented fossil collection localities within the project area and a 500-foot buffer.</li> <li>b) A paleontological resource sensitivity analysis based on published geological mapping and the resource sensitivity of each rock type.</li> <li>c) Supporting maps and GIS data.</li> </ul>	5.7.1.5 p. 5.7-1	
<b>5.7.2 Regulatory Setting</b>		
<p><b>5.7.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding geology, soils, and paleontological resources.</p>	5.7.2.1 p. 5.7-1	
<b>5.7.3 Impact Questions</b>		
<p><b>5.7.3.1: Impact Questions.</b> The impact questions include all geology, soils, and paleontological resource impact questions in the current version of CEQA Guidelines, Appendix G.</p>	5.7.3.1 p. 5.7-2	
<p><b>5.7.3.2: Additional CEQA Impact Questions:</b> None.</p>	5.7.3.2 p. 5.7-3	
<b>5.7.4 Impact Analysis</b>		
<p><b>5.7.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.</p>	5.7.4.1 p. 5.7-4	
Include the following information in the impact analysis:		
<p><b>5.7.4.2: Geotechnical Requirements.</b> Identify any geotechnical requirements that would be implemented to address effects from unstable geologic units or soils. Describe how the recommendation would be applied (i.e., when and where).</p>	5.7.4.3 p. 5.7-6	
<p><b>5.7.4.3: Paleontological Resources.</b> Identify the potential to disturb paleontological resources based on the depth of proposed excavation and paleontological sensitivity of geologic units within the project area.</p>	5.7.4.4 p. 5.7-6	
<b>5.7.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.7.5.1 p. 5.7-7	CPUC Measures incorporated

		as APM GS-1-2
--	--	---------------

## 5.8 Greenhouse Gas Emissions

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>5.8.1 Environmental Setting</b>		
<b>5.8.1.1: GHG Setting.</b> Provide a description of the setting for greenhouse gases (GHGs). The setting should consider any GHG emissions from existing infrastructure that would be upgraded or replaced by the proposed project.	5.8.1.1 p. 5.8-1	
<b>5.8.2 Regulatory Setting</b>		
<b>5.8.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards for greenhouse gases.	5.8.2.1 p. 5.8-2	
<b>5.8.3 Impact Questions</b>		
<b>5.8.3.1 Impact Questions.</b> The impact questions include all greenhouse gas impact questions in the current version of CEQA Guidelines, Appendix G.	5.8.3.1 p. 5.8-5	
<b>5.8.3.2: Additional CEQA Impact Questions:</b> None.	5.8.3.2 p. 5.8-6	
<b>5.8.4 Impact Analysis</b>		
<b>5.8.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.8.4.1 p. 5.8-6	
Include the following information in the impact analysis:		
<b>5.8.4.2: GHG Emissions.</b> Provide a quantitative assessment of GHG emissions for construction and operation and maintenance of the proposed project. Provide model results and all model files. Modeling will be conducted using the latest version of the emissions model at the time of application filing (e.g., most recent version of CalEEMod). GHG emissions will be provided for the following conditions:  <ul style="list-style-type: none"> <li>a) Uncontrolled emissions (before APMs are applied)</li> <li>b) Controlled emissions considering application of APMs <ul style="list-style-type: none"> <li>i. Based on the modeled GHG emissions, quantify the project's contribution to and analyze the project's effect on climate change. Identify and provide justification for the timeframe considered in the analysis.</li> <li>ii. Discuss any programs already in place to reduce GHG emissions on a system-wide level. This includes the Applicant's voluntary compliance with the EPA SF6 reduction program, reductions from energy efficiency, demand response, LTPP, etc.</li> </ul> </li> </ul>	5.8.4.2 p. 5.8-8	

iii. For any significant impacts, identify potential strategies that could be employed by the project to reduce GHGs during construction or operation and maintenance consistent with OPR Advisory on CEQA and Climate Change.		
<b>Natural Gas Storage</b>		
<b>5.8.4.3: Natural Gas Storage Accident Conditions.</b> In addition to the requirements above, identify the potential GHG emissions that could result in the event of a gas leak.	5.8.4.3 p. 5.8-9	
<b>5.8.4.4: Monitoring and Contingency Plan.</b> Provide a comprehensive monitoring plan that would be implemented during project operation to monitor for gas leaks. The plan should identify a monitoring schedule, description of monitoring activities, and actions to be implemented if gas leaks are observed.	5.8.4.4 p. 5.8-9	
<b>5.8.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.8.5.1 p. 5.8-9	CPUC measures incorporated as APM GHG-1-3

## 5.9 Hazards, Hazardous Materials, and Public Safety<sup>20</sup>

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.9.1 Environmental Setting</b>		
<b>5.9.1.1: Hazardous Materials Report.</b> Provide a Phase I Environmental Site Assessment or similar hazards report for the proposed project area. Describe any known hazardous materials locations within the project area and the status of the site.	5.9.1.1 p. 5.9-1	CPUC concurred EDR report sufficient as no known hazards.
<b>5.9.1.2: Airport Land Use Plan.</b> Identify any airport land use plan(s) within the project area.	5.9.1.2 p. 5.9-1	
<b>5.9.1.3: Fire Hazard.</b> Identify if the project occurs within federal, state, or local fire responsibility areas and identify the fire hazard severity rating for all project areas, including temporary work areas and access roads.	5.9.1.3 p. 5.9-2	
<b>5.9.1.4: Metallic Objects.</b> For electrical projects, identify any metallic pipelines or cables within 25 feet of the project.	5.9.1.4 p. 5.9-2	

<sup>20</sup> For fire risk specific to state responsibility areas or lands classified as very high fire hazard severity zones, see Section 5.20, Wildfire.

<b>5.9.1.5: Pipeline History (for Natural Gas Projects).</b> Provide a narrative describing the history of the pipeline system(s) to which the project would connect, list of previous owner and operators, and detailed summary of the pipeline systems' safety and inspection history.	5.9.1.5 p. 5.9-2	
<b>5.9.2 Regulatory Setting</b>		
<b>5.9.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards for hazards, hazardous materials, and public safety.	5.9.2.1 p. 5.9-2	
<b>5.9.2.2: Touch Thresholds.</b> Identify applicable standards for protection of workers and the public from shock hazards.	5.9.2.2 p. 5.9-6	
<b>5.9.3 Impact Questions</b>		
<b>5.9.3.1: Impact Questions.</b> The impact questions include all hazards and hazardous materials impact questions in the current version of CEQA Guidelines, Appendix G.	5.9.3.1 p. 5.9-6	
<b>5.9.3.2: Additional CEQA Impact Questions:</b> a) Would the project create a significant hazard to air traffic from the installation of new power lines and structures? b) Would the project create a significant hazard to the public or environment through the transport of heavy materials using helicopters? c) Would the project expose people to a significant risk of injury or death involving unexploded ordnance? d) Would the project expose workers or the public to excessive shock hazards?	5.9.3.2 p. 5.9-8	
<b>5.9.4 Impact Analysis</b>		
<b>5.9.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines Appendix G for this resource area and any additional impact questions listed above.	5.9.4.1 p. 5.9-8	
Include the following information in the impact analysis:		
<b>5.9.4.2: Hazardous Materials.</b> Identify the hazardous materials (i.e., chemicals, solvents, lubricants, and fuels) that would be used during construction and operation of the project. Estimate the quantity of each hazardous material that would be stored on site during construction and operation.	5.9.4.2 p. 5.9-12	
<b>5.9.4.3: Air Traffic Hazards.</b> If the project involves construction of above-ground structures (including structure replacement) within the airport land use plan area, provide a discussion of how the project would or would not conflict with height restrictions identified in the airport land use plan and how the project would comply with any FAA or military requirements for the above ground facilities.	5.9.4.3 p. 5.9-12	



<b>5.9.4.4: Accident or Upset Conditions.</b> Describe how the project facilities would be designed, constructed, operated, and maintained to minimize potential hazard to the public from the failure of project components as a result of accidents or natural catastrophes.	5.9.4.4 p. 5.9-12	
<b>5.9.4.5: Shock Hazard.</b> For electricity projects, identify infrastructure that may be susceptible to induced current from the proposed project. Describe strategies (e.g., cathodic protection) that the project would employ to reduce shock hazards and avoid electrocution of workers or the public.	5.9.4.5 p. 5.9-12	
<b>For Natural Gas and Gas Storage:</b>		
<b>5.9.4.6: Health and Safety Plan.</b> Include in the Health and Safety Plan, plans for addressing gas leaks, fires, etc. Identify sensitive receptors, methods of evacuation, and protection measures. The Plan will be provided as an Appendix to the PEA.		Not included in the project
<b>5.9.4.7: Health Risk Assessment.</b> Provide a Health Risk Assessment including risk from potential gas leaks, fires, etc. Identify sensitive receptors that would be affected and potential impacts on them if there is a gas release. <sup>21</sup>		Not included in the project
<b>5.9.4.8: Gas Migration.</b> Describe potential for and effects of gas migration through natural and manmade pathways.  a) Provide Applicant Proposed Measures for avoiding gas emissions at the surface from gas migration pathways. b) Provide Applicant Proposed Measures for avoiding emissions of mercaptan and/or other odorizing agents.		Not included in the project
<b>5.9.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.9.5.1 p. 5.9-12	CPUC measures incorporated as APM HAZ-1-4

## 5.10 Hydrology and Water Quality

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.10.1 Environmental Setting</b>		
<b>5.10.1.1: Waterbodies.</b> Identify by milepost all ephemeral, intermittent, and perennial surface waterbodies crossed by the project. For each, list its water quality classification, if applicable.	5.10.1.1 p. 5.10-1	
<b>5.10.1.2: Water Quality.</b> Identify any downstream waters that are on the state 303(d) list and identify whether a total maximum daily load	5.10.1.2	

<sup>21</sup>Refer to the requirements for Health Risk Assessments in Section 5.3.4.4.

(TMDL) has been adopted or the date for adoption of a TMDL. Identify existing sources of impairment for downstream waters. Describe any management plans that are in place for downstream waters.	p. 5.10-1	
<b>5.10.1.3: Groundwater Basin.</b> Identify all known EPA and state groundwater basins and aquifers crossed by the project.	5.10.1.3 p. 5.10-1	
<b>5.10.1.4: Groundwater Wells and Springs.</b> Identify the locations of all known public and private groundwater supply wells and springs within 150 feet of the project area.	5.10.1.4 p. 5.10-2	
<b>5.10.1.5: Groundwater Management.</b> Identify the groundwater management status of any groundwater resources in the project area and any groundwater resources that may be used by the project. Describe if groundwater resources in the basin have been adjudicated. Identify any sustainable groundwater management plan that has been adopted for groundwater resources in the project area or describe the status of groundwater management planning in the area.	5.10.1.5 p. 5.10-2	
<b>5.10.1.6: Climate:</b> Discussion of the region’s climate patterns.	5.10.1.6 p. 5.10-3	
5.10.2 Regulatory Setting		
<b>5.10.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding hydrologic and water quality.	5.10.2.1 5.10-3	
<b>5.10.2.2: Methodology:</b> Discussion on where the information was collected to make this determination.	5.10.2.2 p. 5.10-6	
5.10.3 Impact Questions		
<b>5.10.3.1: Impact Questions.</b> The impact questions include all hydrology and water quality impact questions in the current version of CEQA Guidelines, Appendix G.	5.10.3.1 p. 5.10-6	
<b>5.10.3.2: Additional CEQA Impact Questions:</b> None.	5.10.3.2 p. 5.10-7	
5.10.4 Impact Analysis		
<b>5.10.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in the current version of CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.10.4.1 p. 5.10-7	
Include the following information in the impact analysis:		
<b>5.10.4.2: Hydrostatic Testing.</b> Identify all potential sources of hydrostatic test water, quantity of water required, withdrawal methods, treatment of discharge, and any waste products generated.	5.10.4.2 p. 5.10-11	Hydrostatic testing is not included as part of the project

<b>5.10.4.3: Water Quality Impacts.</b> Describe impacts to surface water quality, including the potential for accelerated soil erosion, downstream sedimentation, and reduced surface water quality.	5.10.4.3 p. 5.10-11	The project will not impact surface water quality
<b>5.10.4.4: Impermeable Surfaces.</b> Describe increased run-off and impacts on groundwater recharge due to construction of impermeable surfaces. Provide the acreage of new impermeable surfaces that will be created as a result of the project.	5.10.4.4 p. 5.10-11	
<b>5.10.4.5: Waterbody Crossings.</b> Identify by milepost all waterbody crossings. Provide the following information for crossing: a) Identify whether the waterbody has contaminated waters or sediments. b) Describe the waterbody crossing method and any approaches to avoid the waterbody. c) Describe typical additional work area and staging area requirements at waterbody and wetland crossings. d) Describe any dewatering or water diversion that will be required during construction near the waterbody. Identify treatment methods for any dewatering.  Describe any proposed restoration methods for work near or within the waterbody.	5.10.4.5 p. 5.10-11	
e) <b>5.10.4.6: Groundwater Impacts.</b> If water would be obtained from groundwater supplies, evaluate the project's consistency with any applicable sustainable groundwater management plan.	5.10.4.6 p. 5.10-11	
<b>5.10.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.10.5.1 p. 5.10-12	CPUC measures incorporated as APM HYDRO-1

## 5.11 Land Use and Planning

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.11.1 Environmental Setting</b>		
<b>5.11.1.1: Land Use.</b> Provide a description of land uses within the area traversed by the project route as designated in the local General Plan (e.g., residential, commercial, agricultural, open space, etc.).	5.11.1.1 p. 5.11-1	
<b>5.11.1.2: Special Land Uses.</b> Identify by milepost and segment all special land uses within the project area including:	5.11.1.2 p. 5.11-3	

a) All land administered by federal, state, or local agencies, or private conservation organizations b) Any designated coastal zone management areas c) Any designated or proposed candidate National or State Wild and Scenic Rivers crossed by the project d) Any national landmarks		
<b>5.11.1.3: Habitat Conservation Plan.</b> Provide a copy of any Habitat Conservation Plan applicable to the project area or proposed project. Also required for Section 5.4, Biological Resources.	5.11.1.3 p. 5.11-3	
<b>5.11.2 Regulatory Setting</b>		
<b>5.11.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards for land use and planning.	5.11.2.1 p. 5.11-3	
<b>5.11.3 Impact Questions</b>		
<b>5.11.3.1: Impact Questions.</b> The impact questions include all land use questions in the current version of CEQA Guidelines, Appendix G. <b>5.11.3.2:</b> Additional CEQA Impact Questions: None.	5.11.3.1 p. 5.11-5	
<b>5.11.4 Impact Analysis</b>		
<b>5.11.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.11.3.2 p. 5.11-5	
<b>5.11.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.11.5.1 p. 5.11-6	No additional APMs

## 5.12 Mineral Resources

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.12.1 Environmental Setting</b>		
<b>5.12.1.1: Mineral Resources.</b> Provide information on the following mineral resources within 0.5 mile of the proposed project area: a) Known mineral resources b) Active mining claims c) Active mines d) Resource recovery sites	5.12.1.1 p. 5.12-1	
<b>5.12.2 Regulatory Setting</b>		
<b>5.12.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards for minerals.	5.12.2.1 p. 5.12-1	
<b>5.12.3 Impact Questions</b>		

<b>5.12.3.1: Impact Questions.</b> The impact questions include all mineral resource impact questions in the current version of CEQA Guidelines, Appendix G.	5.12.3.1 p. 5.12-2	
<b>5.12.3.2:</b> Additional CEQA Impact Questions: None.		
<b>5.12.4 Impact Analysis</b>		
<b>5.12.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.12.4.1 p. 5.12-2	
<b>5.12.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.12.5.1 p. 5.12-3	No additional APMs

### 5.13 Noise

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.13.1 Environmental Setting</b>		
<b>5.13.1.1: Sensitive Receptors.</b> Identify all noise sensitive land uses within 1,000 feet of the proposed project. Provide GIS data for sensitive receptors within 1,000 feet of the project.	5.13.1.1 p. 5.13-4	
<b>5.13.1.2: Noise Setting.</b> Provide the existing noise levels (Lmax, Lmin, Leq, and Ldn sound level and other applicable noise parameters) at noise sensitive areas near the proposed project. All noise measurement data and the methodology for collecting the data will be provided in a noise study as an Appendix to the PEA.	5.13.1.2 p. 5.13-4	CPUC agreed noise study not required as no sensitive receptors nearby
<b>5.13.2 Regulatory Setting</b>		
<b>5.13.2.1: Regulatory Setting.</b> Identify applicable state, and local laws, policies, and standards for noise.	5.13.2.1 p. 5.13-5	
<b>5.13.3 Impact Questions</b>		
<b>5.13.3.1 Impact Questions.</b> The impact questions include all noise questions in the current version of CEQA Guidelines, Appendix G.	5.13.3.1 p. 5.13-7	
<b>5.13.3.2: Additional CEQA Impact Questions:</b> None.	5.13.3.2 p. 5.13-7	
<b>5.13.4 Impact Analysis</b>		

<b>5.13.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.13.4.1 p. 5.13-7	
Include the following information in the impact analysis:		
<b>5.13.4.2: Noise Levels</b> a) Identify noise levels for each piece of equipment that could be used during construction. b) Provide a table that identifies each phase of construction, the equipment used in each construction phase, and the length of each phase at any single location (see example in <b>Error! Reference source not found.</b> below). c) Estimate cumulative equipment noise levels for each phase of construction. d) Include phases of operation if noise levels during operation have the potential to frequently exceed pre-project existing conditions. e) Identify manufacturer's specifications for equipment and describe approaches to reduce impacts from noise.	5.13.4.2 p. 5.13-7	
<b>For Natural Gas:</b>		
<b>5.13.4.3: Compressor Station Noise.</b> Provide site plans of compressor stations or other noisy, permanent equipment, showing the location of the nearest noise sensitive areas within 1 mile of the proposed ROW. If new compressor station sites are proposed, measure or estimate the existing ambient sound environment based on current land uses and activities. For existing compressor stations (operated at full load), include the results of a sound level survey at the site property line and nearby noise-sensitive areas. Include a plot plan that identifies the locations and duration of noise measurements.	5.13.4.3 p. 5.13-10	
<b>5.13.4.4 Potential Impacts:</b> Discussion of the potential impacts the project may have on the surrounding environment.	5.13.4.4 p. 5.13-11	
<b>5.13.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.13.5.1 p. 5.13-12	No additional APMs

## 5.14 Population and Housing

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.14.1 Environmental Setting</b>		
<b>5.14.1.1: Population Estimates.</b> Identify population trends for the areas (county, city, town, census designated place) where the project would take place.	5.14.1.1 p. 5.14-1	

<b>5.14.1.2: Housing Estimates.</b> Identify housing estimates and projections in areas where the project would take place.	5.14.1.2 p. 5.14-1	
<b>5.14.1.3: Approved Housing Developments</b> a) Provide the following information for all housing development projects within 1 mile of the proposed project that have been recently approved or may be approved around the PEA and application filing date: i. Project name ii. Location iii. Number of units and estimated population increase iv. Approval date and construction status v. Contact information for developer (provided in the public outreach Appendix) b) Ensure that the project information provided above is consistent with the PEA analysis of cumulative project impacts.	5.14.1.3 p. 5.14-1	
<b>5.14.2 Regulatory Setting</b>		
<b>5.14.2.1: Regulatory Setting.</b> Identify any applicable federal, state or local laws or regulations that apply to the project.	5.14.2.1 p. 5.14-1	
<b>5.14.3 Impact Questions</b>		
<b>5.14.3.1: Impact Questions.</b> The impact questions include all population and housing impact questions in the current version of CEQA Guidelines, Appendix G.	5.14.3.1 p. 5.14-2	
<b>5.14.3.2: Additional CEQA Impact Questions:</b> None.	5.14.3.2 p. 5.14-2	
<b>5.14.4 Impact Analysis</b>		
<b>5.14.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.14.4.1 p. 5.14-2	
Include the following information in the impact analysis:		
<b>5.14.4.2: Impacts to Housing.</b> Identify if any existing or proposed homes occur within the footprint of any proposed project elements or right-of-way. Describe housing impacts (e.g., demolition and relocation of residents) that may occur as a result of the proposed project.	5.14.4.2 p. 5.14-3	
<b>5.14.4.3: Workforce Impacts.</b> Describe on-site manpower requirements, including the number of construction personnel who currently reside within the impact area, who would commute daily to the site from outside the impact area or would relocate temporarily within the impact area. Chapter 4 of this document can be referenced as applicable. Identify any permanent employment opportunities that would be create by the project and the workforce conditions in the area that the jobs would be created.	5.14.4.3 p. 5.14-3	

<p><b>5.14.4.4: Population Growth Inducing.</b> Provide information on the project's growth inducing impacts, if any. The information will include, but is not necessarily limited to, the following:</p> <ul style="list-style-type: none"> <li>a) Any economic or population growth in the surrounding environment that will directly or indirectly result from the project</li> <li>b) Any obstacles to population growth that the project would remove</li> <li>c) Any other activities directly or indirectly encouraged or facilitated by the project that would cause population growth leading to a significant effect on the environment, either individually or cumulatively</li> </ul>	<p>5.14.4.4 p. 5.14-3</p>	
<p><b>5.14.5 CPUC Draft Environmental Measures</b></p>		
<p>Refer to Attachment 4, CPUC Draft Environmental Measures.</p>	<p>5.14.5.1 p. 5.14-4</p>	<p>No additional APMs</p>

## 5.15 Public Services

<p><b>This section will include, but is not limited to, the following:</b></p>	<p><b>PEA Section and Page Number</b></p>	<p><b>Applicant Notes, Comments</b></p>
<p><b>5.15.1 Environmental Setting</b></p>		
<p><b>5.15.1.1 Service Providers</b></p>		
<ul style="list-style-type: none"> <li>a) Identify the following service providers that serve the project area and provide a map showing the service facilities that could serve the project: <ul style="list-style-type: none"> <li>i. Police</li> <li>ii. Fire (identify service providers within local and state responsibility areas)</li> <li>iii. Schools</li> <li>iv. Parks</li> <li>v. Hospitals</li> </ul> </li> <li>b) Provide the documented performance objectives and data on existing emergency response times for service providers in the area (e.g., police or fire department response times).</li> </ul>	<p>5.15.1.1 p. 5.15-1</p>	
<p><b>5.15.2 Regulatory Setting</b></p>		
<p><b>5.15.2.1 Regulatory Setting.</b> Identify any applicable federal, state or local laws or regulations for public services that apply to the project.</p>	<p>5.15.2.1 p. 5.15-2</p>	
<p><b>5.15.3 Impact Questions</b></p>		
<p><b>5.15.3.1: Impact Questions.</b> The impact questions include all public services impact questions in the current version of CEQA Guidelines, Appendix G.</p>	<p>5.15.3.1 p. 5.15-4</p>	
<p><b>5.15.3.2: Additional CEQA Impact Questions:</b> None.</p>	<p>5.15.3.2 p. 5.15-4</p>	



<b>5.15.4 Impact Analysis</b>		
<b>5.15.4.1 Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.15.4.1 p. 5.15-4	
Include the following information in the impact analysis:		
<b>5.15.4.2: Emergency Response Times</b> a) Describe whether the project would impede ingress and egress of emergency vehicles during construction and operation. b) Include an analysis of impacts on emergency response times during project construction and operation, including impacts during any temporary road closures. Describe approaches to address impacts on emergency response times.	5.15.4.2 p. 5.15-6	
<b>5.15.4.3: Displaced Population.</b> If the project would create permanent employment or displace people, evaluate the impact of the new employment or relocated people on governmental facilities and services and describe plans to reduce the impact on public services.	5.15.4.3 p. 5.15-6	
<b>5.15.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.15.5.1 p. 5.15-6	No additional APMs

## 5.16 Recreation

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.16.1 Introduction</b>		
<b>5.16.2 Environmental Setting</b>		
<b>5.16.2.1: Recreational Setting</b> a) Describe the regional and local recreation setting in the project area including: i. Any recreational facilities or areas within and surrounding the project area (approximately 0.5-mile buffer) including the recreational uses of each facility or area ii. Any available data on use of the recreational facilities including volume of use b) Provide a map (or maps) showing project features and recreational facilities and provide associated GIS data.	5.16.2.1 p. 5.16-1	
<b>5.16.3 Regulatory Setting</b>		
<b>5.16.3.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding recreation.	5.16.3.1 p. 5.16-1	
<b>5.16.4 Impact Questions</b>		

<b>5.16.4.1: Impact Questions.</b> The impact questions include all recreation impact questions in the current version of CEQA Guidelines, Appendix G.	5.16.4.1 p. 5.16-1	
<b>5.16.4.2: Additional CEQA Impact Questions:</b>  a) Would the project reduce or prevent access to a designated recreation facility or area?  b) Would the project substantially change the character of a recreational area by reducing the scenic, biological, cultural, geologic, or other important characteristics that contribute to the value of recreational facilities or areas?  c) Would the project damage recreational trails or facilities?	5.16.4.2 p. 5.16-3	
<b>5.16.5 Impact Analysis</b>		
<b>5.16.5.1: Impact Analysis:</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.16.5.1 p. 5.16-4	
<b>5.16.5.2: Impact Details.</b> Clearly identify the maximum extent of each impact, and when and where the impacts would or would not occur. Organize the impact assessment by project phase, project component, and/or geographic area, as necessary.	5.16.5.2 p. 5.16-5	
<b>5.16.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.16.5 p. 5.16-5	No additional APMs

## 5.17 Transportation

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.17.1 Environmental Setting</b>		
<b>5.17.1.1: Circulation System.</b> Briefly describe the regional and local circulation system in the project area, including modes of transportation, types of roadways, and other facilities that contribute to the circulation system.	5.17.1.1 p. 5.17-1	
<b>5.17.1.2: Existing Roadways and Circulation</b>  a) Identify and describe existing roadways that may be used to access the project site and transport materials during construction or are otherwise adjacent to or crossed by linear project features. Provide the following information for each road:  i. Name of the road ii. Jurisdiction or ownership (i.e., State, County, City, private, etc.)	5.17.1.2 p. 5.17-1	

<ul style="list-style-type: none"> <li>iii. Number of lanes in both directions of travel</li> <li>iv. Existing traffic volume (if publicly available data is unavailable or significantly outdated, then it may be necessary to collect existing traffic counts for road segments where large volumes of construction traffic would be routed or where lane or road closures would occur)</li> <li>v. Closest project feature name and distance</li> </ul> <p>b) Provide a supporting map (or maps) showing project features and the existing roadway network identifying each road described above. Provide associated GIS data. The GIS data should include all connected road segments within at least 5 miles of the project.</p>		
<p><b>5.17.1.3: Transit and Rail Services</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe transit and rail service providers in the region.</li> <li>b) Identify any rail or transit lines within 1,000 feet of the project area.</li> <li>c) Identify specific transit stops, and stations within 0.5 mile of the project. Provide the frequency of transit service.</li> <li>d) Provide a supporting map (or maps) showing project features and transit and rail services within 0.5 mile of the project area. Provide associated GIS data.</li> </ul>	<p>5.17.1.3 p. 5.17-2</p>	
<p><b>5.17.1.4: Bicycle Facilities</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe any bicycle plans for the region.</li> <li>b) Identify specific bicycle facilities within 1,000 feet of the project area.</li> <li>c) Provide a supporting map (or maps) showing project features and bicycle facilities. Provide associated GIS data.</li> </ul>	<p>5.17.1.4 p. 5.17-2</p>	
<p><b>5.17.1.5: Pedestrian Facilities</b></p> <ul style="list-style-type: none"> <li>a) Identify and describe important pedestrian facilities near the project area that contribute to the circulation system, such as important walkways.</li> <li>b) Identify specific pedestrian facilities that would be near the project, including on the road segments identified per 5.17.1.2.</li> <li>c) Provide a supporting map (or maps) showing project features and important pedestrian facilities. Provide associated GIS data.</li> </ul>	<p>5.17.1.5 p. 5.17-2</p>	
<p><b>5.17.1.6: Vehicle Miles Traveled (VMT).</b> Provide the average VMT for the county(s) where the project is located.</p>	<p>5.17.1.6 p. 5.17-3</p>	
<p><b>5.17.2 Regulatory Setting</b></p>		
<p><b>5.17.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards regarding transportation.</p>	<p>5.17.2.1 p. 5.17-3</p>	

<b>5.17.3 Impact Questions</b>		
<b>5.17.3.1: Impact Questions.</b> All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G.	5.17.3.1 p. 5.17-4	
<b>5.17.3.2: Additional CEQA Impact Questions:</b> <ul style="list-style-type: none"> <li>a) Would the project create potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations?</li> <li>b) Would the project interfere with walking or bicycling accessibility?</li> <li>c) Would the project substantially delay public transit?</li> </ul>	5.17.3.2 p. 5.17-4	
<b>5.17.4 Impact Analysis</b>		
<b>5.17.4.1: Impact Analysis.</b> Provide an impact analysis for each significance criteria identified in Appendix G of the CEQA Guidelines for transportation and any additional impact questions listed above <sup>22</sup> .	5.17.4.1 p. 5.17-5	
Include the following information in the impact analysis:		
<b>5.17.4.2: Vehicle Miles Traveled (VMT)</b> <ul style="list-style-type: none"> <li>a) Identify whether the project is within 0.5 mile of a major transit stop or a high-quality transit corridor.</li> <li>b) Identify the number of vehicle daily trips that would be generated by the project during construction and operation by light duty (e.g., worker vehicles) and heavy-duty vehicles (e.g., trucks). Provide the frequency of trip generation during operation.</li> <li>c) Quantify VMT generation for both project construction and operation.</li> <li>d) Provide an excel file with the VMT assumptions and model calculations, including all formulas and values.</li> <li>e) Evaluate the project VMT relative to the average VMT for the area in which the project is located.</li> </ul>	5.17.4.2 p. 5.17-6	VMT not modeled. Project trips will be below Caltrans threshold of 110 trips per day for less than significant impact
<b>5.17.4.3: Traffic Impact Analysis.</b> Provide a traffic impact study. The traffic impact study should be prepared in accordance with guidance from the relevant local jurisdiction or Caltrans, where appropriate.	5.17.4.3 p. 5.17-7	
<b>5.17.4.4: Hazards.</b> Identify any traffic hazards that could result from construction and operation of the project. Identify any lane closures and traffic management that would be required to construct the project.	5.17.4.4 p. 5.17-7	
<b>5.17.4.5: Accessibility.</b> Identify any closures of bicycle lanes, pedestrian walkways, or transit stops during construction or operation of the project.	5.17.4.5 p. 5.17-7	

<sup>22</sup> Discuss with CPUC during Pre-filing whether a traffic study is needed.

<b>5.17.4.6: Transit Delay.</b> Identify any transit lines that could be delayed by construction and operation of the project. Provide the maximum extent of the delay in minutes and the duration of the delay.	5.17.4.6 p. 5.17-7	
<b>5.17.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.17.5.1 p. 5.17-7	CPUC measures incorporated as APM TRANS-1

## 5.18 Tribal Cultural Resources<sup>23</sup>

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.18.1 Environmental Setting</b>		
<b>5.18.1.1: Outreach to Tribes.</b> Provide a list of all tribes that are on the Native American Heritage Commission (NAHC) list of tribes that are affiliated with the project area. Provide a discussion of outreach to Native American tribes, including tribes notified, responses received from tribes, and information of potential tribal cultural resources provided by tribes. Any information of potential locations of tribal cultural resources should be submitted in an Appendix under clearly marked confidential cover. Provide copies of all correspondence with tribes in an Appendix.	5.18.1.1 p. 5.18-1	
<b>5.18.1.2: Tribal Cultural Resources.</b> Describe tribal cultural resources (TCRs) that are within the project area.  a) Summarize the results of attempts to identify possible TCRs using publicly available documentary resources. The identification of TCRs using documentary sources should include review of archaeological site records and should begin during the preparation of the records search report (see Attachment 3). During the inventory phase, a formal site record would be prepared for any resource identified unless tribes object. b) Summarize attempts to identify TCRs by speaking directly with tribal representatives.	5.18.1.2 p. 5.18-3	
<b>5.18.1.3: Ethnographic Study.</b> The ethnographic study should document the history of Native American use of the area and oral history of the area.	5.18.1.3 p. 5.18-4	
<b>5.18.2 Regulatory Setting</b>		

<sup>23</sup> For a description of historical resources and requirements for cultural resources that are not tribal cultural resources, refer to Section 5.5 Cultural Resources.

<b>5.18.2.1: Regulatory Setting.</b> Identify any applicable federal, state or local laws or regulations for tribal cultural resources that apply to the project.	5.18.2.1 5.18-4	
<b>5.18.3 Impact Questions</b>		
<b>5.18.3.1: Impact Questions.</b> The impact questions include all tribal cultural resources impact questions in the current version of CEQA Guidelines, Appendix G.	5.18.3.1 p. 5.18-5	
<b>5.18.3.2:</b> Additional CEQA Impact Questions: None.		
<b>5.18.4 Impact Analysis</b>		
<b>5.18.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.18.4.1 p. 5.18-6	
Include the following information in the impact analysis:		
<b>5.18.4.2: Information Provided by Tribes.</b> Include an analysis of any impacts that were identified by the tribes during the Applicant's outreach.	5.18.4.2 p. 5.18-7	No potential impacts were identified by tribes
<b>5.18.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.18.5.1 p. 5.18-7	CPUC measures incorporated as APM TCR-1

## 5.19 Utilities and Service Systems

<b>This section will include, but is not limited to, the following:</b>	<b>PEA Section and Page Number</b>	<b>Applicant Notes, Comments</b>
<b>5.19.1 Environmental Setting</b>		
<b>5.19.1.1: Utility Providers.</b> Identify existing utility providers and the associated infrastructure that serves the project area.	5.19.1.1 p. 5.19-1	
<b>5.19.1.2: Utility Lines.</b> Describe existing utility infrastructure (e.g., water, gas, sewer, electrical, stormwater, telecommunications, etc.) that occurs in the project ROW. Provide GIS data and/or as-built engineering drawings to support the description of existing utilities and their locations.	5.19.1.2 p. 5.19-1	
<b>5.19.1.3: Approved Utility Projects.</b> Identify utility projects that have been approved for construction within the project ROW but that have not yet been constructed. <sup>24</sup>	5.19.1.3 p. 5.19-2	

<sup>24</sup> Note that this project information should be consistent with the cumulative project description included in Chapter 6.

<b>5.19.1.4: Water Supplies.</b> Identify water suppliers and the water source (e.g., aqueduct, well, recycled water, etc.). For each potential water supplier, provide data on the existing water capacity, supply, and demand.	5.19.1.4 p. 5.19-2	
<b>5.19.1.5: Landfills and Recycling.</b> Identify local landfills that can accept construction waste and may service the project. Provide documentation of landfill capacity and estimated closure date. Identify any recycling centers in the area and opportunities for construction and demolition waste recycling.	5.19.1.5 p. 5.19-2	
<b>5.19.2 Regulatory Setting</b>		
<b>5.19.2.1: Regulatory Setting.</b> Identify any applicable federal, state or local laws or regulations for utilities that apply to the project.	5.19.2.1 p. 5.19-3	
<b>5.19.3 Impact Questions</b>		
<b>5.19.3.1: Impact Questions.</b> All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G.	5.19.3.1 p. 5.19-3	
<b>5.19.3.2: Additional CEQA Impact Question:</b>  Would the project increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts?	5.19.3.2 p. 5.19-4	
<b>5.19.4 Impact Analysis</b>		
<b>5.19.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.19.4.1 p. 5.19-5	
Include the following information in the impact analysis:		
<b>5.19.4.2: Utility Relocation.</b> Identify any project conflicts with existing utility lines. If the project may require relocation of existing utilities, identify potential relocation areas and analyze the impacts of relocating the utilities. Provide a map showing the relocated utility lines and GIS data for all relocations.	5.19.4.2 p. 5.19-7	
<b>5.19.4.3: Waste</b>  a) Identify the waste generated by construction, operation, and demolition of the project. b) Describe how treated wood poles would be disposed of after removal, if applicable. c) Provide estimates for the total amount of waste materials to be generated by waste type and how much of it would be disposed of, reused, or recycled.	5.19.4.3 p. 5.19-7	
<b>5.19.4.4: Water Supply</b>  a) Estimate the amount of water required for project construction and operation. Provide the potential water supply source(s). b) Evaluate the ability of the water supplier to meet the project demand under a multiple dry year scenario.	5.19.4.4 p. 5.19-7	

<p>c) Provide a discussion as to whether the proposed project meets the criteria for consideration as a project subject to Water Supply Assessment Requirements under Water Code Section 10912.</p> <p>d) If determined to be necessary under Water Code Section 10912, submit a Water Supply Assessment to support conclusions that the proposed water source can meet the project’s anticipated water demand, even in multiple dry year scenarios. Water Supply Assessments should be approved by the water supplier and consider normal, single-dry, and multiple-dry year conditions.</p>		
<p><b>5.19.4.5: Cathodic Protection.</b> Analyze the potential for existing utilities to experience corrosion due to proximity to the proposed project. Identify cathodic protection measures that could be implemented to reduce corrosion issues and where the measures may be applied.</p>	<p>5.19.4.5 p. 5.19-8</p>	
<p><b>5.19.5 CPUC Draft Environmental Measures</b></p>		
<p>Refer to Attachment 4, CPUC Draft Environmental Measures.</p>	<p>5.19.5.1 p. 5.19-8</p>	<p>No additional APMs</p>

## 5.20 Wildfire

<p><b>This section will include, but is not limited to, the following:</b></p>	<p><b>PEA Section and Page Number</b></p>	<p><b>Applicant Notes, Comments</b></p>
<p><b>5.20.1 Environmental Setting</b></p>		
<p><b>5.20.1.1: High Fire Risk Areas and State Responsibility Areas</b></p> <p>a) Identify areas of high fire risk or State Responsibility Areas (SRAs) within the project area. Provide GIS data for the Wildland Urban Interface (WUI) and Fire Hazard Severity Zones (FHSZ) mapping along the project alignment. Include areas mapped by CPUC as moderate and high fire threat districts as well as areas mapped by CalFire.</p> <p>b) Identify any areas the utility has independently identified as High FHSZ known to occur within the proposed project vicinity.</p>	<p>5.20.1.1 p. 5.20-1</p>	<p>Project not within a high fire risk, State Responsibility Area, or WUI.</p>
<p><b>5.20.1.2: Fire Occurrence.</b> Identify all recent (within the last 10 years) large fires that have occurred within the project vicinity. For each fire, identify the following:</p> <p>a) Name of the fire b) Location of fire c) Ignition source and location of ignition d) Amount of land burned e) Boundary of fire area in GIS</p>	<p>5.20.1.2 p. 5.20-2</p>	



<p><b>5.20.1.3: Fire Risk.</b> Provide the following information for assessment of baseline fire risk in the area:</p> <ul style="list-style-type: none"> <li>a) Provide fuel modeling using Scott Burgan fuel models, or other model of similar quality.</li> <li>b) Provide values of wind direction and speed, relative humidity, and temperature for representative weather stations along the alignment for the previous 10 years, gathered hourly.</li> <li>c) Digital elevation models for the topography in the project region showing the relationship between terrain and wind patterns, as well as localized topography to show the effects of terrain on wind flow, and on a more local area to show effect of slope on fire spread.</li> <li>d) Describe vegetation fuels within the project vicinity and provide data in map format for the project vicinity. USDA Fire Effects Information System or similar data source should be consulted to determine high-risk vegetation types. Provide the mapped vegetation fuels data in GIS format.</li> </ul>	<p>5.20.1.3 p. 5.20-2</p>	<p>CPUC concurred digital elevation model not needed as topography is flat.</p>
<p><b>5.20.1.4: Values at Risk.</b> Identify values at risk along the proposed alignment. Values at risk may include: Structures, improvements, rare habitat, other values at risk, (including utility-owned infrastructure) within 1000 feet of the project. Provide some indication as to its vulnerability (wood structures vs. all steel features). Communities and/or populations near the project should be identified with their proximity to the project defined.</p>	<p>5.20.1.4 p. 5.20-4</p>	
<p><b>5.20.1.5: Evacuation Routes.</b> Identify all evacuation routes that are adjacent to or within the project area. Identify any roads that lack a secondary point of access or exit (e.g., cul-de-sacs).</p>	<p>5.20.1.5 p. 5.20-4</p>	
<p><b>5.20.2 Regulatory Setting</b></p>		
<p><b>5.20.2.1: Regulatory Setting.</b> Identify applicable federal, state, and local laws, policies, and standards for wildfire.</p>	<p>5.20.2.1 p. 5.20-4</p>	
<p><b>5.20.2.2: CPUC Standards.</b> Identify any CPUC standards that apply to wildfire management of the new facilities.</p>	<p>5.20.2.2 p. 5.20-7</p>	<p>Project not within Wildfire Hazard Zone</p>
<p><b>5.20.3 Impact Questions</b></p>		
<p><b>5.20.3.1: Impact Questions.</b> All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G.</p>	<p>5.20.3.1 p. 5.20-7</p>	
<p><b>5.20.3.2: Additional CEQA Impact Questions:</b> None.</p>	<p>5.20.3.2 p. 5.20-8</p>	
<p><b>5.20.4 Impact Analysis</b></p>		

<b>5.20.4.1: Impact Analysis.</b> Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for this resource area and any additional impact questions listed above.	5.20.4.1 p. 5.20-8	
Include the following information in the impact analysis:		
<b>5.20.4.2: Fire Behavior Modeling.</b> For any new electrical lines, provide modeling to support the analysis of wildfire risk.	5.20.4.2 p. 5.20-9	
<b>5.20.4.3: Wildfire Management.</b> Describe approaches that would be implemented during operation and maintenance to manage wildfire risk in the area. Provide a copy of any Wildfire Management Plan.	5.20.4.3 p. 5.20-9	
<b>5.20.5 CPUC Draft Environmental Measures</b>		
Refer to Attachment 4, CPUC Draft Environmental Measures.	5.20.5.1 p. 5.20-8	CPUC measures incorporated as APM Fire-1

## 5.21 Mandatory Findings of Significance<sup>25</sup>

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>5.21.1: Impact Assessment for Mandatory Findings of Significance.</b> Provide an impact analysis for each of the mandatory findings of significance provided in Appendix G of the CEQA Guidelines. The impact analysis can reference relevant information and conclusion from the biological resources, cultural resources, air quality, hazards, and cumulative sections of the PEA, where applicable.	5.21.1 5.21-1	

## 5 Comparison of Alternatives

This section will include, but is not limited to, the following:	PEA Section and Page Number	Applicant Notes, Comments
<b>6.1: Alternatives Comparison</b>	6.1	
<ul style="list-style-type: none"> <li>a) Compare the ability of each alternative described in Chapter 4 against the proposed project in terms of its ability to avoid or reduce a potentially significant impact. The alternatives addressed in this section will each be: <ul style="list-style-type: none"> <li>i. Potentially feasible</li> <li>ii. Meet the underlying purpose of the proposed project</li> <li>iii. Meet most of the basic project objectives, and</li> <li>iv. Avoid or reduce one or more potentially significant impacts.</li> </ul> </li> </ul>	6-1	

<sup>25</sup> PEAs need only include a Mandatory Findings of Significance section if CPUC CEQA Unit Staff determine that a Mitigated Negative Declaration may be the appropriate type of document to prepare for the project, as determined through Pre-filing consultation. If no such determination has been made, then a Mandatory Findings of Significance section and the requirements below are not required.

<p>b) The relative effect of the various potentially significant impacts may be compared using the following or similar descriptors and an accompanying analysis:</p> <ul style="list-style-type: none"> <li>i. Short-term versus long-term impacts</li> <li>ii. Localized versus widespread impacts</li> <li>iii. Ability to fully mitigate impacts</li> </ul> <p>c) Impacts that the Applicant believes would be less than significant with mitigation may also be included in the analysis, but only if the steps listed above fail to distinguish among the remaining few alternatives.</p>		
<p><b>6.2: Alternatives Ranking.</b> Provide a detailed table that summarizes the Applicant’s comparison results and ranks the alternatives in order of environmental superiority.<sup>26</sup></p>	<p>6.2 6-1</p>	

## 6 Cumulative and Other CEQA Considerations

<p>This section will include, but is not limited to, the following:</p>	<p>PEA Section and Page Number</p>	<p>Applicant Notes, Comments</p>
<p><b>7.1 Cumulative Impacts</b></p>		
<p><b>7.1.1: List of Cumulative Projects</b></p>		
<p>a) Provide a detailed table listing past, present, and reasonably foreseeable future projects within and surrounding the project area (approximately 2-mile buffer)<sup>27</sup>. The following information should be provided for each project in the table:</p> <ul style="list-style-type: none"> <li>i. Project name and type</li> <li>ii. Brief description of the project location(s) and associated actions</li> <li>iii. Distance to and name of the nearest project component</li> <li>iv. Project status and anticipated construction schedule</li> <li>v. Source of the project information and date last checked (for each individual project), including links to any public websites where the information was obtained so it can be reviewed and updated (the project information should be current when the PEA is filed)</li> </ul> <p>b) Provide a supporting map (or maps) showing project features and cumulative project locations and/or linear features. Provide associated GIS data.</p>	<p>7.1.1 7-2</p>	

<sup>26</sup> If the proposed project does not rank #1 on the list, the Applicant should provide the rationale for selecting the proposed project.

<sup>27</sup> Information on cumulative projects may be obtained from federal, state, and local agencies with jurisdiction over planning, transportation, and/or resource management in the area. Other projects the Applicant is involved in or aware of in the area should be included.

<p><b>7.1.2: Geographic Scope.</b> Define the geographic scope of analysis for each resource topic. The geographic scope of analysis for each resource topic should consider the extent to which impacts can be cumulative. For example, the geographic scope for cumulative noise impacts would be more limited in scale than the geographic scope for biological resource impacts because noise attenuates rapidly with distance. Explain why the geographic scope is appropriate for each resource.</p>	<p>7.1.2 7-4</p>	
<p><b>7.1.3: Cumulative Impact Analysis.</b> Provide an analysis of cumulative impacts for each resource topic included in Chapter <b>Error! Reference source not found.</b> Evaluate whether the proposed project impacts are cumulatively considerable<sup>28</sup> for any significant cumulative impacts.</p>	<p>7.1.3 7-6</p>	
<p><b>7.2 Growth-Inducing Impacts</b></p>		
<p><b>7.2.1: Growth-Inducing Impacts.</b> Provide an evaluation of the following potential growth-inducing impacts:</p> <ul style="list-style-type: none"> <li>a) Would the proposed project foster any economic or population growth, either directly or indirectly, in the surrounding environment?</li> <li>b) Would the proposed project cause any increase in population that could further tax existing community service facilities (i.e., schools, hospitals, fire, police, etc.)?</li> <li>c) Would the proposed project remove any obstacles to population growth?</li> <li>d) Would the proposed project encourage and facilitate other activities that would cause population growth that could significantly affect the environment, either individually or cumulatively?</li> </ul>	<p>7.2.1 7-11</p>	

## 7 List of Preparers

<p><b>This section will include, but is not limited to, the following:</b></p>	<p><b>PEA Section and Page Number</b></p>	<p><b>Applicant Notes, Comments</b></p>
<p><b>8.1: List of Preparers.</b> Provide a list of persons, their organizations, and their qualifications for all authors and reviewers of each section of the PEA.</p>	<p>8.1</p>	

## 8 References

<p><b>This section will include, but is not limited to, the following:</b></p>	<p><b>PEA Section and Page Number</b></p>	<p><b>Applicant Notes, Comments</b></p>
<p><b>9.1: Reference List</b></p>	<p>9.1</p>	

<sup>28</sup> "Cumulatively considerable" means that the incremental effects of an individual project are significant when viewed in connection with the effects of past projects, the effects of other current projects, and the effects of probable future projects.

<ul style="list-style-type: none"> <li>a) Organize all references cited in the PEA by section within a single chapter called "References."</li> <li>b) Within the References chapter, organize all of the Chapter <b>Error! Reference source not found.</b> references under subheadings for each resource area section.</li> </ul>		
<p><b>9.2: Electronic References</b></p> <ul style="list-style-type: none"> <li>a) Provide complete electronic copies of all references cited in the PEA that cannot be readily obtained for free on the Internet. This includes any company-specific documentation (e.g., standards, policies, and other documents).</li> <li>b) If the reference can be obtained on the Internet, the Internet address will be provided.</li> </ul>	9.2	