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APPENDICES 2.A – 5.4-A TO APPENDIX B

PROPONENT'S ENVIRONMENTAL ASSESSMENT

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
1.0 Executive Summary	1.0
1.1: Proposed Project Summary. Provide a summary of the proposed project and its underlying purpose and basic objectives.	1.1
1.2: Land Ownership and Right-of-Way Requirements. Provide a summary of the existing and proposed land ownership and rights-of- way for the proposed project.	1.2
1.3: Areas of Controversy. Identify areas of anticipated controversy and public concern regarding the project.	1.3
1.4: Summary of Impacts 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. b) Identify any significant and unavoidable impacts that may occur.	1.4
1.5: Pre-filing Consultation and Public Outreach Summary. 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
1.6: Conclusions. Provide a summary of the major PEA conclusions.	1.7
1.7: Remaining Issues. Describe any major issues that must still be resolved.	1.8
2.0 Introduction	2.0
2.1 Project Background	
2.1.1: Purpose and Need a) Explain why the proposed project is needed. b) b) Describe localities the proposed project would serve and how the project would fit into the local and regional utility system. 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: I. Include references to all CAISO Transmission Planning Processes that considered the proposed project. II. Explain if the proposed project is considered an economic, reliability, or policy-driven project or a combination thereof. III. Identify whether and how the Participating Transmission Owner recommended the project in response to a CAISO identified need, if applicable. 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. V. Identify how and whether the proposed project would exceed, combine, or modify in any way the CAISO identified project need. 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. d) If the project was not considered by the CAISO, explain why.	2.1.1

PEA Checklist Table	
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2.1.2: Project Objectives a) Identify and describe the basic project objectives. 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. b) Explain how implementing the project will achieve the basic project objectives and underlying purpose and need. c) Discuss the reasons why attainment of each basic objective is necessary or desirable.	2.1.2
2.1.3: Project Applicant(s): 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.	2.1.3
2.2 Pre-filing Consultation and Public Outreach	
2.2.1 Pre-filing Consultation and Public Outreach a) Describe all Pre-filing consultation and public outreach that occurred, such as, but not limited to: I. CAISO II. Public agencies with jurisdiction over project areas or resources that may occur in the project area III. Native American tribes affiliated with the project area IV. Private landowners and homeowner associations V. Developers for large housing or commercial projects near the project area VI. Other utility owners and operators VII. Federal, state, and local fire management agencies b) Provide meeting dates, attendees, and discussion summaries, including any preliminary concerns and how they were addressed and any project alternatives that were suggested. c) Clearly identify any significant outcomes of consultation that were incorporated into the proposed project. d) Clearly identify any developments that could coincide or conflict with project activities (i.e., developments within or adjacent to a proposed ROW).	2.2.1
2.2.2: Records of Consultation and Public Outreach. 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
2.3 Environmental Review Process	
2.3.1: Environmental Review Process. Provide a summary of the anticipated environmental review process and schedule.	2.3.1
2.3.2: CEQA Review 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.	2.3.2

PEA Checklist Table	
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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.	
2.3.4: Pre-filing CEQA Coordination. Describe the results of Pre-filing coordination with CEQA agency (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.	2.3.3
2.4 Document Organization	
2.4.1: PEA Organization. Summarize the contents of the PEA and provide an annotated list of its sections.	2.4.1
3.0 Project Description	
3.1: Project Overview a) Provide a concise summary of the proposed project and components in a few paragraphs. b) Described the geographical location of the proposed project (i.e., county, city, etc.). c) Provide an overview map of the proposed project location.	3.1 Figure 3-1 Figure 3-2 Figure 3-3 Figure 3-4
3.2 Existing and Proposed System	
3.2.1: Existing System 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. b) Provide information on users and the area served by the existing system features. c) Explain how the proposed project would fit into the existing local and regional systems. d) Provide a schematic diagram of the existing system features. e) Provide detailed maps and associated GIS data for existing facilities that would be modified by the proposed project.	3.2.1 Figure 3-5
3.2.2: Proposed Project System 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. b) Clearly identify system features that would be added, modified, removed, disconnected and left in place, etc. 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 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	3.2.2 Figure 3-4 Figure 3-5 Figure 3-6 Figure 3-7a Figure 3-7b

PEA Checklist Table	
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customers, delivery points and corresponding volumes, and the anticipated maximum allowable operating pressure(s). 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. e) Explain whether the electric line or gas pipeline will create a second system tie or loop for reliability. f) Provide information on users and the area served by the proposed system features, highlighting any differences from the existing system. g) Provide a schematic diagram of the proposed system features. h) Provide detailed maps and associated GIS data for proposed facilities that would be installed, modified, or relocated by the proposed project.	
3.2.3: System Reliability. 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.	3.2.3
3.2.4: Planning Area. 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).	3.2.4
3.3 Project Components	
3.3.1: Preliminary Design and Engineering 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. b) Provide preliminary design drawings for project features and explain the level of completeness (i.e., percentage). 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.	3.3.1
3.3.2: Segments, Components, and Phases a) Define all project segments, components, and phases for the proposed project. b) Provide the length/area of each segment or component, and the timing of each development phase. c) Provide an overview map showing each segment and provide associated GIS data (may be combined with other mapping efforts).	3.3.2
3.3.3: Existing Facilities 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.).	3.3.3, 3.3.3.2, 3.3.3.3 Figure 3-3 Figure 3-4

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
b) Describe the existing facilities by project segment and/or component, and provide information regarding existing dimensions, areas/footprints, quantities, locations, spans, etc. 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. d) Explain what would happen to the existing facilities. Would they be replaced, completely removed, modified, or abandoned? Explain why. 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. f) Provide diagrams with dimensions representing existing facilities to provide context on how the proposed facilities would be different. g) Briefly describe the surface colors, textures, light reflectivity, and any lighting of existing facilities.	
3.3.4: Proposed Facilities 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). b) Describe the proposed facilities by project segment and/or component, and provide information regarding maximum dimensions, areas/footprints, quantities, locations, spans, etc. 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. d) Identify where facilities would be different (e.g., where unique or larger poles would be located, large guy supports or snub poles). e) Provide details about civil engineering requirements (i.e., permanent roads, foundations, pads, drainage systems, detention basins, spill containment, etc.). 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). 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. h) Provide diagrams with dimensions representing existing facilities. i) Briefly describe the surface colors, textures, light reflectivity, and any lighting of proposed facilities.	3.3.4, 3.3.4.1, 3.3.4.2, 3.3.4.3 Figure 3-7 Figure 3-8
3.3.5: Other Potentially Required Facilities 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: I. Could the project require the relocation (temporary or permanent), modification, or replacement of unconnected	3.3.5

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
utilities or other types of infrastructure by the Applicant or any other entity? II. Could the project require aviation lighting and/or marking? III. Could the project require additional civil engineering requirements to address site conditions or slope stabilization issues, such as pads and retaining walls, etc.? b) Provide the location of each facility and a description of the facility.	
3.3.6: Future Expansions and Equipment Lifespans a) Provide detailed information about the current and reasonably foreseeable plans for expansion and future phases of development. b) Provide the expected usable life of all facilities. c) Describe all reasonably foreseeable consequences of the proposed project (e.g., future ability to upgrade gas compressor station to match added pipeline capacity).	3.3.6
Required for Certain Project Types	
3.3.7: Below-ground Conductor/Cable Installations (as Applicable) a) Describe the type of line to be installed (e.g., single circuit crosslinked polyethylene-insulated solid-dielectric, copper-conductor cables). 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. c) Describe the types of infrastructure would likely be installed within the duct bank (e.g., transmission, fiber optics, etc.).	3.3.7 Figure 3-9 Figure 3-10
3.3.14: Telecommunication Lines (as Applicable) a) Identify the type of cable that is proposed and length in linear miles by segment. b) Identify any antenna and node facilities that are part of the project. c) For below-ground telecommunication lines, provide the depth of cable and type of conduit. d) For above-ground telecommunication lines, provide: I. Types of poles that will be installed (if new poles are required) II. Where existing poles will be used III. Any additional infrastructure (e.g., guy wires) or pole changes required to support the additional cable on existing poles	3.3.9
3.4 Land Ownership, Rights-of-Way, and Easements	
3.4.1: Land Ownership. 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.	3.4.1, 3.4.1.1, 3.4.1.2, 3.4.1.3
3.4.2: Existing Rights-of-Way or Easements 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. b) Clearly state if project facilities would be replaced, modified, or relocated within existing ROWs or easements.	3.4.2
3.4.3: New or Modified Rights-of-Way or Easements a) Describe new permanent or modified ROWs or easements that would be required. Provide the approximately lengths and widths in each project area.	3.4.3

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
b) Describe how any new permanent or modified ROWs or easements would be acquired. 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. d) Describe any development restrictions within new ROWs or easements, e.g., building clearances and height restrictions, etc. e) Describe any relocation or demolition of commercial or residential property/structures that may be necessary.	
3.4.4: Temporary Rights-of-Ways or Easements a) 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). b) 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. c) Describe how any temporary ROWs or easements would be acquired.	3.4.4
3.5 Construction	
3.5.1 Construction Access (All Projects)	
3.5.1.1: Existing Access Roads 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 Table 3 below). 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. c) Describe any procedures to address incidental road damage cause by project activities following construction. d) Provide detailed maps and associated GIS data for all existing access roads.	3.5.1.1
3.5.1.2: New Access Roads 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.14 b) Provide lengths, widths, and development methods for new access roads. c) Identify any temporary or permanent gates that would be installed. 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. e) Provide detailed maps and associated GIS data for all new access roads.	3.5.1.2
3.5.1.3: Overland Access Routes 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.	3.5.1.3

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
b) Provide lengths and widths for new access roads. c) Provide detailed maps and associated GIS data for all overland access routes.	
3.5.1.4: Watercourse Crossings 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
3.5.1.5: Helicopter Access. 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).	3.5.1.5
3.5.2 Staging Areas (All Projects)	
3.5.2.1: Staging Area Locations a) Identify the locations of all staging area(s). Provide a map and GIS data for each. b) Provide the size (in acres) for each staging area and the total staging area requirements for the project.	3.5.2, 3.5.2.1
3.5.2.2: Staging Area Preparation 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.). 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.). c) Describe how the staging area would be secured. Would a fence be installed? If so, describe the type and extent of the fencing. d) Describe how power to the site would be provided if required (i.e., tap into existing distribution, use of diesel generators, etc.). e) Describe any temporary lightning facilities for the site. f) Describe any grading activities and/or slope stabilization issues.	3.5.2.2
3.5.3 Construction Work Areas (All Projects)	
3.5.3.1: Construction Work Areas a) Describe known work areas that may be required for specific construction activities (e.g., pole assembly, hillside construction) b) Describe the types of activities that would be performed at each work area. Work areas may include but are not necessarily limited to: I. Helicopter landing zones and touchdown areas	3.5.3.1

PEA Checklist Table	
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II. Vehicle and equipment parking, passing, or turnaround areas III. Railroad, bridge, or watercourse crossings IV. Temporary work pads for facility installation, modification, or removal V. Excavations and associated equipment work areas VI. Temporary guard structures VII. Pull-and-tension/stringing sites VIII. Jack and bore pits, drilling areas and pull-back areas for horizontal directional drills IX. Retaining walls	
3.5.3.2 Work Area Disturbance 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 Table 4 below). 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).	3.5.3.2
3.5.3.3: Temporary Power. 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
3.5.4 Site Preparation (All Projects)	
3.5.4.1: Surveying and Staking. Describe initial surveying and staking procedures for site preparation and access.	3.5.4.1
3.5.4.2: Utilities 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.	3.5.4.2
3.5.4.3: Vegetation Clearing 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
3.5.4.4: Tree Trimming Removal 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.	3.5.4.4

PEA Checklist Table	
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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.	
3.5.4.5: Work Area Stabilization. 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
3.5.4.6: Grading 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. 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.	3.5.4.6, Table 3-6
3.5.5 Transmission Line Construction (Above Ground)	
3.5.5.1: Poles/Towers a) 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. b) 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. c) 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. d) Describe how the poles/towers and associated hardware would be delivered to the site and assembled. e) 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.	3.5.5.1
3.5.5.3: Telecommunications. Identify the procedures for installation of proposed telecommunication cables and associated infrastructure.	3.5.5.3
3.5.5.4: Guard Structures. 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.	3.5.5.4
3.5.7 Substation, Switching Stations, Gas Compressor Stations	
3.5.7.1: Installation or Facility Modification. Describe the process and equipment for removing, installing, or modifying any substations, switching stations, or compressor stations including:	3.5.7.1

PEA Checklist Table	
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a) Transformers/ electric components b) Gas components c) Control and operation buildings d) Driveways e) Fences f) Gates g) Communication systems (SCADA) h) Grounding systems	
3.5.7.2: Civil Works. 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
3.5.10 Public Safety and Traffic Control (All Projects)	
3.5.10.1: Public Safety 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. b) Identify procedures for managing work sites in urban areas, covering open excavations securely, installing barriers, installing guard structures, etc. 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.	3.5.8.1
3.5.10.2: Traffic Control a) Describe traffic control procedures that would be implemented during construction. b) Identify the locations, process, and timing for closing any sidewalks, lanes, roads, trails, paths, or driveways to manage public access. c) Identify temporary detour routes and locations. d) Provide a preliminary Traffic Control Plan(s) for the project.	3.5.8.2
3.5.10.3: Security. 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.	3.5.8.3
3.5.11 Dust, Erosion, and Runoff Controls (All Projects)	
3.5.11.1: Dust. Describe specific best management practices that would be implemented to manage fugitive dust.	3.5.9.1
3.5.11.2: Erosion. Describe specific best management practices that would be implemented to manage erosion.	3.5.9.2
3.5.11.3: Runoff. Describe specific best management practices that would be implemented to manage stormwater runoff and sediment.	3.5.9.3
3.5.12 Water Use and Dewatering (All Projects)	
3.5.12.1: Water Use. 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.	3.5.10.1
3.5.12.2: Dewatering a) Describe dewatering procedures during construction, including pumping, storing, testing, permitted discharging, and disposal requirements that would be followed.	3.5.10.2

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b) Describe the types of equipment and workspace considerations to be used to dewater, store, transport, or discharge extracted water.	
3.5.13 Hazardous Materials and Management (All Projects)	
3.5.13.1: Hazardous Materials a) Describe the types, uses, and volumes of all hazardous materials that would be used during construction. b) State if herbicides or pesticides may be used during construction. c) If a pre-existing hazardous waste were encountered, describe the process of removal and disposal.	3.5.11.1
3.5.13.2: Hazardous Materials Management a) Identify specific best management practices that would be followed for transporting, storing, and handling hazardous materials. b) Identify specific best management practices that would be followed in the event of an incidental leak or spill of hazardous materials. c) Provide a Hazardous Substance Control and Emergency Response Plan / Hazardous Waste and Spill Prevention Plan as an Appendix to the PEA, if appropriate	3.5.11.2
3.5.14 Waster Generation and Management (All Projects)	
3.5.14.1: Solid Waste a) Describe solid waste streams from existing and proposed facilities during construction. b) Identify procedures to be implemented to manage solid waste, including collection, containment, storage, treatment, and disposal. c) Provide estimated total volumes of solid waste by construction activity or project component. d) Describe the recycling potential of solid waste materials and provide estimated volumes of recyclable materials by construction activity or project component. e) Identify the locations of appropriate disposal and recycling facilities where solid wastes would be transported.	3.5.12.1
3.5.14.2: Liquid Waste a) Describe liquid waste streams during construction (i.e., sanitary waste, drilling fluids, contaminated water, etc.) b) Describe procedures to be implemented to manage liquid waste, including collection, containment, storage, treatment, and disposal. c) Provide estimated volumes of liquid waste generated by construction activity or project component. d) Identify the locations of appropriate disposal facilities where liquid wastes would be transported.	3.5.12.2
3.5.14.3: Hazardous Waste a) Describe potentially hazardous waste streams during construction and procedures to be implemented to manage hazardous wastes, including collection, containment, storage, treatment, and disposal. 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. c) Identify the locations of appropriate disposal facilities where hazardous wastes would be transported.	3.5.12.3
3.5.15 Fire Prevention and Response (All Projects)	
3.5.15.1: Fire Prevention and Response Procedures. Describe fire prevention and response procedures that would be implemented during	3.5.13.1

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
construction. Provide a Construction Fire Prevention Plan or specific procedures as an Appendix to the PEA.	
3.5.15.2: Fire Breaks. 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).	3.5.13.2
3.6 Construction Workforce, Equipment, Traffic, and Schedule	
3.6.1: Construction Workforce 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 many crews could be working at the same time and where? c) 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 Table 5.	3.6.1
3.6.2: Construction Equipment. 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 5).	3.6.2, Table 3-5
3.6.3: Construction Traffic 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 construction crews commuting, haul trips, and other types of construction traffic.	3.6.3, Table 3-7
3.6.4: Construction Schedule a) Provide the proposed construction schedule (e.g., month and year) for each segment or project component, and for each construction activity and phase. b) Provide and explain the sequencing of construction activities, and if they would or would not occur concurrently. c) Provide the total duration of each construction activity and phase in days or weeks. 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.	3.6.4, Table 3-9
3.6.5: Work Schedule 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. b) Provide the estimated number of days or weeks that construction activities would occur at each type of work area. For example,	3.6.5

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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.	
3.7 Post-Construction	
3.7.1: Configuring and Testing. 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
3.7.2: Landscaping. 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
3.7.3 Demobilization and Site Restoration	
3.7.3.1: Demobilization. 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
3.7.3.2: Site Restoration. Describe how cleanup and post-construction restoration would be performed (i.e., personnel, equipment, and methods) on all project ROWs, sites, and extra work areas. Things to consider include, but are not limited to, restoration of the following: a) Restoring natural drainage patterns b) Recontouring disturbed soil c) Removing construction debris d) Vegetation e) Permanent and semi-permanent erosion control measures 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. g) Road repaving and striping, including proposed timing of road restoration for underground construction within public roadways	3.7.3.2
3.8 Operation and Maintenance	
3.8.1: Regulations and Standards a) Identify and describe all regulations and standards applicable to operation and maintenance of project facilities. b) Provide a copy of any applicable Wildfire Management Plan and describe any special procedures for wildfire management.	3.8.1
3.8.2: System Controls and Operation Staff 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). b) If new full-time staff would be required for operation and/or maintenance, provide the number of positions and purpose.	3.8.2
3.8.3: Inspection Programs a) Describe the existing and proposed inspection programs for each project component, including the type, frequency, and timing of	3.8.3, 3.8.3.1

PEA Checklist Table	
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scheduled inspections (i.e., aerial inspection, ground inspection, pipeline inline inspections). b) Describe any enhanced inspections, such as within any High Fire Threat Districts consistent with applicable Wildfire Management Plan requirements. 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.	
3.8.4: Maintenance Programs a) Describe the existing and proposed maintenance programs for each project component. b) Describe scheduled maintenance or facility replacement after the designated lifespan of the equipment. c) Identify typical parts and materials that require regular maintenance and describe the repair procedures. d) Describe any access road maintenance that would occur. e) Describe maintenance for surface or color treatment. f) Describe cathodic protection maintenance that would occur. g) Describe ongoing landscaping maintenance that would occur.	3.8.4
3.8.5: Vegetation Management Programs a) Describe vegetation management programs within and surrounding project facilities. Distinguish between any different types of vegetation management. 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.	3.8.5
3.9 Decommissioning	
3.9.1: Decommissioning. Provide detailed information about the current and reasonably foreseeable plans for the disposal, recycling, or future abandonment of all project facilities.	3.9.1.
3.10 Anticipated Permits and Approvals	
3.10.1: Anticipated Permits and Approvals. 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: a) Federal Permits and Approvals I. U.S. Fish and Wildlife Service II. U.S. Army Corps of Engineers III. Federal Aviation Administration IV. U.S. Forest Service V. U.S. Department of Transportation – Office of Pipeline Safety VI. U.S. Environmental Protection Agency (Resource Conservation and Recovery Act; Comprehensive Environmental Response, Compensation, and Liability Act) b) State and Regional Permits I. California Department of Fish and Wildlife II. California Department of Transportation	3.10.1, Table 3-10

PEA Checklist Table	
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III. California State Lands Commission IV. California Coastal Commission V. State Historic Preservation Office, Native American Heritage Commission VI. State Water Resources Control Board VII. California Division of Oil, Gas and Geothermal Resources VIII. Regional Air Quality Management District IX. Regional Water Quality Control Board (National Pollutant Discharge Elimination System General Industrial Storm Water Discharge Permit) X. Habitat Conservation Plan Authority (if applicable) See also Table 6 of example permitting requirements and processes.	
3.10.2: Rights-of-Way or Easement Applications. 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.	3.10.2
3.11 Applicant Proposed Measures 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. b) Within Chapter 5, describe the basis for selecting a particular Applicant Proposed Measure and how the Applicant Proposed Measure would reduce the impacts of the project. c) Carefully consider each CPUC Draft Environmental Measure identified in Chapter 5 of this PEA Checklist. The CPUC Draft Environmental Measures will be applied to the proposed project where applicable.	3.11.1, Table 3-12
4.0 Environmental Analysis	
4.1 Aesthetics	
4.1.1 Environmental Setting	5.1.1
4.1.1.1: Landscape Setting. Briefly described the regional and local landscape setting.	5.1.1.1
4.1.1.2: Scenic Resources. 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
4.1.1.3: Viewshed Analysis a) Conduct a viewshed analysis for the project area (approximately 5-mile buffer but may be greater if necessary). 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. 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.	5.1.1.3
4.1.1.4: Landscape Units. Identify and describe landscape units	5.1.1.4, Table 5.1-2

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(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.	
4.1.1.5: Viewers and Viewer Sensitivity. 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
4.1.1.6: Representative Viewpoints 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. b) Provide the following information for each viewpoint: I. Number, title, and brief description of the location II. Types of viewers III. Viewing direction(s) and distance(s) to the nearest proposed project features IV. Description of the existing visual conditions and visibility of the project site as seen from the viewpoint and shown in the representative photographs 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).	5.1.1.6 Table 5.1-2 Figure 5.1-3A through 5.1-8
4.1.1.7: Representative Photographs a) Provide high resolution photographs taken from the representative viewpoints in the directions of all proposed project features. Multiple photographs should be provided where project features may be visible in different viewing directions from the same location. b) Provide the following information for each photograph: I. Capture time and date II. Camera body and lens model III. Lens focal length and camera height when taken c) Provide GIS data associated with each photograph location that includes coordinates (<1 meter resolution), elevations, and viewing directions, as well as the associated viewpoint.	5.1.1.7, Figure 5.1-3A through 5.1-3C
4.1.1.8: Visual Resource Management Areas a) Identify any visual resource management areas within and surrounding the project area (approximately 5-mile buffer). b) Describe any project areas within visual resource management areas.	5.1.1.8

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c) Provide a supporting map (or maps) showing project features and visual resource management areas. Provide associated GIS data.	
4.1.2 Regulatory Setting	5.1.2
4.1.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding aesthetics and visual resource management.	5.1.2.1
4.1.3 Impact Questions	5.1.3
4.1.3.1: CEQA Impact Questions. The impact questions include all aesthetic impact questions in the current version of CEQA Guidelines, Appendix G. **4.1.3.2:** Additional CEQA Impact Questions: None.	5.1.3.1 5.1.3.2
4.1.4 Impact Analysis	5.1.4
4.1.4.1: Visual Impact Analysis. 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
4.1.5 CPUC Draft Environmental Measures	5.1.5
4.1.6 Applicant Proposed Measures	5.1.6
4.2 Agriculture and Forestry Resources	
4.2.1 Environmental Setting	5.2.1
4.2.1.1: Agricultural Resources and GIS a) Identify all agricultural resources that occur within the project area including: I. Areas designated as Prime Farmland, Unique Farmland, or Farmland of Statewide Importance II. Areas under Williamson Act contracts and provide information on the status of the Williamson Act contract III. Any areas zoned for agricultural use in local plans IV. Areas subject to active agricultural use b) Provide GIS data for agricultural resources within the proposed project area.	5.2.1.1 Table 5.2-1 Table 5.2-2 Table 5.2-3
4.2.1.2: Forestry Resources and GIS a) Identify all forestry resources within the project area including: I. Forest land as defined in Public Resources Code 12220(g)25 II. Timberland as defined in Public Resource Code section 4526 III. Timberland zoned Timberland Production as defined in Government Code section 51104(g) b) Provide GIS data for all forestry resources within the proposed project area.	5.2.1.2
4.2.2 Regulatory Setting	5.2.2
4.2.2: Regulatory Setting. Identify all federal, state, and local policies for protection of agricultural and forestry resources that apply to the proposed project.	5.2.2.1
4.2.3 Impact Questions	5.2.3
4.2.3.1: CEQA Impact Questions. The impact questions include all agriculture and forestry impact questions in the current version of CEQA Guidelines, Appendix G.	5.2.3.1 5.2.3.2

PEA Checklist Table	
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4.2.3.2: Additional CEQA Impact Questions: None.	
4.2.4 Impact Analyses	5.2.4
4.2.4.1: Impact Analysis. 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
4.2.5 CPUC Draft Environmental Measures	5.2.5
4.2.6 Applicant Proposed Measures	5.2.6
4.3 Air Quality	
4.3.1 Environmental Setting	5.3.1
4.3.1.1: Air Quality Plans. 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 Table 5.3-1
4.3.1.2: Air Quality. 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 Table 5.3-2
4.3.1.3: Sensitive Receptor Locations. Identify the location and types of each sensitive receptor locations within 1,000 feet of the project area. Provide GIS data for sensitive receptor locations.	5.3.1.3
4.3.2 Regulatory Setting	5.3.2
4.3.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding aesthetics and visual resource management.	5.3.2.1 Table 5.3-3
4.3.2.2: Air Permits. Identify and list all necessary air permits.	5.3.2.2
4.3.3 Impact Questions	5.3.3
4.3.3.1: CEQA Impact Questions. The impact questions include all air quality impact questions in the current version of CEQA Guidelines, Appendix G. **4.3.3.2:** Additional CEQA Impact Questions: None.	5.3.3.1 5.3.3.2
4.3.4 Impact Analysis	5.3.4
4.3.4.1: Impact Analysis. 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 Table 5.3-5 Table 5.3-6 Table 5.3-7 Table 5.3-8 Table 5.3-9
4.3.5 CPUC Draft Environmental Measures	5.3.5
4.3.6 Applicant Proposed Measures	5.3.6
4.4 Biological Resources	
4.4.1 Environmental Setting	5.4.1
4.4.1.1: Biological Resources Technical Report. Provide a Biological Resources Technical Report as an Appendix to the PEA that includes all information specified in Attachment 2.	5.4.1.1
The following biological resources information will be presented in the PEA:	

PEA Checklist Table	
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4.4.1.2: Survey Area (Local Setting). 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 Figure 5.4-1
4.4.1.3: Vegetation Communities and Land Cover a) Identify, describe, and quantify vegetation communities and land cover types within the biological resources survey area. 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. c) Provide a supporting map (or maps) showing project features and vegetation communities and land cover type.	5.4.1.3 Table 5.4-1
4.4.1.4: Aquatic Features 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. b) Identify and quantify potentially jurisdictional aquatic features and delineated wetlands, according to the Wetland Delineation Report and Biological Resources Technical Report. c) Provide a supporting map (or maps) showing project features and aquatic resources.	5.4.1.4 Figure 5.4-3 Figure 5.4-1
4.4.1.5: Habitat Assessment. 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: a) Common and scientific name b) Status and/or rank c) Habitat characteristics (i.e., vegetation communities, elevations, seasonal changes, etc.) d) Blooming characteristics for plants e) Breeding and other dispersal (range) behavior for wildlife 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 records search, survey findings, and presence of potentially suitable habitat g) Specific types and locations of potentially suitable habitat that correspond to the vegetation communities and land cover and aquatic features	5.4.1.5 Table 5.4-2 Figure 5.4-5a Figure 5.4-5b
4.4.1.6: Critical Habitat a) Identify and describe any critical habitat for rare or special status species within and surrounding the project area (approximately a 5-mile buffer). b) Provide a supporting map (or maps) showing project features and critical habitat.	5.4.1.6
4.4.1.7: Native Wildlife Corridors and Nursery Sites 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.	5.4.1.7

PEA Checklist Table	
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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. c) Provide a supporting map (or maps) showing project features, native wildlife corridors, and native nursery sites.	
4.4.1.8: Biological Resource Management Areas 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). b) Identify and quantify any project areas within biological resource management areas. c) Provide a supporting map (or maps) showing project features and biological resource management areas.	5.4.1.8
4.4.2 Regulatory Setting	5.4.2
4.4.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding biological resources.	5.4.2.1
4.4.2.2: Habitat Conservation Plan. Provide a copy of any relevant Habitat Conservation Plan.	5.4.2.2
4.4.3 Impact Questions	5.4.3
4.4.3.1: CEQA Impact Questions. The impact questions include all biological resource impact questions in the current version of CEQA Guidelines, Appendix G. **4.4.3.2:** Additional CEQA Impact Question: a) Would the project create a substantial collision or electrocution risk for birds or bats?	5.4.3.1 5.4.3.2
4.4.4 Impact Analysis	5.4.4
4.4.4.1: Impact Analysis Provide an impact analysis for each checklist item identified in CEQA Guidelines, Appendix G for Biological Resources and any additional impact questions listed above.	5.4.4.1
4.4.5 CPUC Draft Environmental Measures	5.4.5
4.4.6 Applicant Proposed Measures	5.4.6
4.5 Cultural Resources	
4.5.1 Environmental Setting	5.5.1
4.5.1.1: Cultural Resource Reports. Provide a cultural resource inventory and evaluation report that addresses the technical requirement provided in Attachment 3.	5.5.1.1
4.5.1.2: Cultural Resources Summary. 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
4.5.1.3: Cultural Resource Survey Boundaries. 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
4.5.2 Regulatory Setting	5.5.2
4.5.2.1: Regulatory Setting. Identify applicable federal and state regulations for protection of cultural resources.	5.5.2.1
4.5.3 Impact Questions	5.5.3

PEA Checklist Table	
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4.5.3.1: CEQA Impact Questions. The impact questions include all cultural resource impact questions in the current version of CEQA Guidelines, Appendix G. **4.5.3.2: Additional CEQA Impact Questions: None.**	5.5.3.1 5.5.3.2
4.5.4 Impact Analysis	5.5.4
4.5.4.1: Impact Analysis. 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
4.5.5 CPUC Draft Environmental Measures	5.5.5
4.5.6 Applicant Proposed Measures	5.5.6
4.6 Energy	
4.6.1 Environmental Setting	5.6.1
4.6.1.1: Existing Energy Use. Identify energy use of existing infrastructure if the proposed project would replace or upgrade an existing facility.	5.6.1.1
4.6.2 Regulatory Setting	5.6.2
4.6.2.1: Regulatory Setting. Identify applicable federal, state, or local regulations or policies applicable to energy use for the proposed project.	5.6.2.1
4.6.3 Impact Questions	5.6.3
4.6.3.1: CEQA Impact Questions: The impact questions include all energy impact questions in the current version of CEQA Guidelines, Appendix G. **4.6.3.2: Additional CEQA Impact Question:** a) Would the project add capacity for the purpose of serving a nonrenewable energy resource?	5.6.3.1 5.6.3.2
4.6.4 Impact Analysis	5.6.4
4.6.4.1: Impact Analysis. 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
4.6.5 CPUC Draft Environmental Measures	5.6.5
4.6.6 Applicant Proposed Measures	5.6.6
4.7 Geology, Soils, and Paleontological Resources	
4.7.1 Environmental Setting	5.7.1
4.7.1.1: Regional and Local Geologic Setting. Briefly describe the regional and local physiography, topography, and geologic setting in the project area.	5.7.1.1
4.7.1.2: Seismic Hazards a) Provide the following information on potential seismic hazards in the project area: 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) II. Identify any areas that are prone to seismic-induced landslides III. Provide the liquefaction potential for the project area 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.	5.7.1.2
4.7.1.3: Geologic Units. Identify and describe the types of geologic units in the project area. Include the following information for each geologic unit: a) Summarize the geologic units within the project area.	5.7.1.3

PEA Checklist Table	
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b) Identify any previous landslides in the area and any areas that are at risk of landslide. c) Identify any unstable geologic units. 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.	
4.7.1.4: Soils. Identify and describe the types of soils in the project area. a) Summarize the soils within the project area. b) Clearly identify any soils types that could be unstable (e.g., at risk of lateral spreading, subsidence, liquefaction, or collapse). c) Provide information on erosion susceptibility for each soil type that occurs in the project area. d) Provide a supporting map (or maps) showing project features and soils. Provide associated GIS data.	5.7.1.4
4.7.1.5: Paleontological Report. Provide a paleontological report that includes the following: a) Information on any documented fossil collection localities within the project area and a 500-foot buffer. b) A paleontological resource sensitivity analysis based on published geological mapping and the resource sensitivity of each rock type. c) Supporting maps and GIS data.	5.7.1.5
4.7.2 Regulatory Setting	5.7.2
4.7.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding geology, soils, and paleontological resources.	5.7.2.1
4.7.3 Impact Questions	5.7.3
4.7.3.1: CEQA Impact Questions. The impact questions include all geology, soils, and paleontological resource impact questions in the current version of CEQA Guidelines, Appendix G. **4.7.3.2:** Additional CEQA Impact Questions: None.	5.7.3.1
4.7.4 Impact Analysis	5.7.4
4.7.4.1: Impact Analysis. 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.	5.7.4.1
4.7.5 CPUC Draft Environmental Measures	5.7.5
4.7.6 Applicant Proposed Measures	5.7.6
4.8 Greenhouse Gas Emissions	
4.8.1 Environmental Setting	5.8.1
4.8.1.1: GHG Setting. 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
4.8.2 Regulatory Setting	5.8.2
4.8.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for greenhouse gases.	5.8.2.1
4.8.3 Impact Questions	5.8.3
4.8.3.1: CEQA Impact Questions. The impact questions include all greenhouse gas impact questions in the current version of CEQA Guidelines, Appendix G. **4.8.3.2: Additional CEQA Impact Questions: None.**	5.8.3.1 5.8.3.2
4.8.4 Impact Analysis	5.8.4

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4.8.4.1: Impact Analysis. 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 Table 5.8-3 Table 5.8-4
Natural Gas Storage	5.8.4.2
4.8.4.4: Monitoring and Contingency Plan. 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.	5.8.4.3
4.8.5 CPUC Draft Environmental Measures	5.8.5
4.8.6 Applicant Proposed Measures	5.8.6
4.9 Hazards, Hazardous Materials, and Public Safety	
4.9.1 Environmental Setting	5.9.1
4.9.1.1: Hazardous Materials Report. 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
4.9.1.2: Airport Land Use Plan. Identify any airport land use plan(s) within the project area.	5.9.1.2
4.9.1.3: Fire Hazard. 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
4.9.1.4: Metallic Objects. For electrical projects, identify any metallic pipelines or cables within 25 feet of the project.	5.9.1.4
4.9.2 Regulatory Setting	5.9.2
4.9.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for hazards, hazardous materials, and public safety.	5.9.2.1
4.9.2.2: Touch Thresholds. Identify applicable standards for protection of workers and the public from shock hazards.	5.9.2.2
4.9.3 Impact Questions	5.9.3
4.9.3.1: CEQA Impact Questions. The impact questions include all hazards and hazardous materials impact questions in the current version of CEQA Guidelines, Appendix G. **4.9.3.2: Additional CEQA Impact Questions:** 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?	5.9.3.1 5.9.3.2
4.9.4 Impact Analysis	5.9.4
4.9.4.1: Impact Analysis. 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
4.9.5 CPUC Draft Environmental Measures	5.9.5
4.9.6 Applicant Proposed Measures	5.9.6

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
4.10 Hydrology and Water Quality	
4.10.1 Environmental Setting	5.10.1
4.10.1.1: Waterbodies. 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
4.10.1.2: Water Quality. Identify any downstream waters that are on the state 303(d) list and identify whether a total maximum daily load (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.	5.10.1.2
4.10.1.3: Groundwater Basin. Identify all known EPA and state groundwater basins and aquifers crossed by the project.	5.10.1.3
4.10.1.4: Groundwater Wells and Springs. 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
4.10.1.5: Groundwater Management. 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
4.10.2 Regulatory Setting	5.10.2
4.10.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding hydrologic and water quality.	5.10.2.1
4.10.3 Impact Questions	5.10.3
4.10.3.1: CEQA Impact Questions. The impact questions include all hydrology and water quality impact questions in the current version of CEQA Guidelines, Appendix G. **4.10.3.2: Additional CEQA Impact Questions: None.**	5.10.3.1 5.10.3.2
4.10.4 Impact Analysis	5.10.4
4.10.4.1: Impact Analysis. 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
4.10.5 CPUC Draft Environmental Measures	5.10.5
4.10.6 Applicant Proposed Measures	5.10.6
4.11 Land Use and Planning	
4.11.1 Environmental Setting	5.11.1
4.11.1.1: Land Use. 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 Table 5.11-1 Table 5.11-2 Figure 5.11-1 Figure 5.11-2 Figure 5.11-3
4.11.1.2: Special Land Uses. Identify by milepost and segment all special land uses within the project area including: 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	5.11.1.2

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
d) Any national landmarks	
4.11.1.3: Habitat Conservation Plan. 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
4.11.2 Regulatory Setting	5.11.2
4.11.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for land use and planning.	5.11.2.1
4.11.3 Impact Questions	5.11.3
4.11.3.1: CEQA Impact Questions. The impact questions include all land use questions in the current version of CEQA Guidelines, Appendix G. **4.11.3.2: Additional CEQA Impact Questions: None.**	5.11.3.1 5.11.3.2
4.11.4 Impact Analysis	5.11.4
4.11.4.1: Impact Analysis. 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.	5.11.4.1
4.11.5 CPUC Draft Environmental Measures	5.11.5
4.11.6 Applicant Proposed Measures	5.11.6
4.12 Mineral Resources	
4.12.1 Environmental Setting	5.12.1
4.12.2 Regulatory Setting	5.12.2
4.12.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for minerals.	5.12.2.1 Table 5.12-1
4.12.3 Impact Questions	5.12.3
4.12.3.1: CEQA Impact Questions. The impact questions include all mineral resource impact questions in the current version of CEQA Guidelines, Appendix G. **4.12.3.2: Additional CEQA Impact Questions: None.**	5.12.3.1 5.12.3.2
4.12.4 Impact Analysis	5.12.4
4.12.4.1: Impact Analysis. 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
4.12.5 CPUC Draft Environmental Measures	5.12.5
4.12.6 Applicant Proposed Measures	4.12.6
4.13 Noise	
4.13.1 Environmental Setting	5.13.1
4.13.1.1: Noise Sensitive Land Uses. 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
4.13.1.2: Noise Setting. 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
4.13.2 Regulatory Setting	5.13.2
4.13.2.1: Regulatory Setting. Identify applicable state, and local laws, policies, and standards for noise.	5.13.2.1 Table 5.13-1 Table 5.13-2
4.13.3 Impact Questions	5.13.3
4.13.3.1: CEQA Impact Questions. The impact questions include all noise questions in the current version of CEQA Guidelines, Appendix G. **4.13.3.2: Additional CEQA Impact Questions: None.**	5.13.3.1 5.13.3.2

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
4.13.4 Impact Analysis	5.13.4
4.13.4.1: Impact Analysis. 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 Table 5.13-4 Table 5.13-5 Table 5.13-6 Table 5.13-7 Table 5.13-8 Table 5.13-9
4.13.5 CPUC Draft Environmental Measures	5.13.5
4.13.6 Applicant Proposed Measures	5.13.6
4.14 Population and Housing	
4.14.1 Environmental Setting	5.14.1
4.14.1.1: Population Estimates. Identify population trends for the areas (county, city, town, census designated place) where the project would take place.	5.14.1.1
4.14.1.2: Housing Estimates. Identify housing estimates and projections in areas where the project would take place.	5.14.1.2 Table 5.14-1
4.14.1.3: Approved Housing Developments 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
4.14.2 Regulatory Setting	5.14.2
4.14.2.1: Regulatory Setting. Identify any applicable federal, state or local laws or regulations that apply to the project.	5.14.2.1
4.14.3 Impact Questions	5.14.3
4.14.3.1: CEQA Impact Questions. The impact questions include all population and housing impact questions in the current version of CEQA Guidelines, Appendix G. **4.14.3.2: Additional CEQA Impact Questions: None.**	5.14.3.1 5.14.3.2
4.14.4 Impact Analysis	5.14.4
4.14.4.1: Impact Analysis. 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
4.14.5 CPUC Draft Environmental Measures	5.14.5
4.14.6 Applicant Proposed Measures	5.14.6
4.15 Public Services	
4.15.1 Environmental Setting	5.15.1
4.15.1.1 Service Providers a) Identify the following service providers that serve the project area and provide a map showing the service facilities that could serve the project: I. Police	5.15.1.1 Table 5.15-1 Figure 5.15-1

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
II. Fire (identify service providers within local and state responsibility areas) III. Schools IV. Parks V. Hospitals 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).	
4.15.2 Regulatory Setting	5.15.2
4.15.2.1 Regulatory Setting. Identify any applicable federal, state or local laws or regulations for public services that apply to the project.	5.15.2.1
4.15.3 Impact Questions	5.15.3
4.15.3.1: CEQA Impact Questions. The impact questions include all public services impact questions in the current version of CEQA Guidelines, Appendix G. **4.15.3.2: Additional CEQA Impact Questions: None.**	5.15.3.1 5.15.3.2
4.15.4 Impact Analysis	5.15.4
4.15.4.1 Impact Analysis. 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
4.15.5 CPUC Draft Environmental Measures	5.15.5
4.15.6 Applicant Proposed Measures	5.15.6
4.16 Recreation	
4.16.1 Environmental Setting	5.16.1
4.16.2 Regulatory Setting	5.16.2
4.16.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding recreation	5.16.2.1
4.16.3 Impact Questions	5.16.3
4.16.3.1: CEQA Impact Questions. The impact questions include all recreation impact questions in the current version of CEQA Guidelines, Appendix G. **4.16.3.2:** Additional CEQA Impact Questions: 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?	5.16.3.1 5.16.3.2
4.16.4 Impact Analysis	5.16.4
4.16.4.1: Impact Analysis: 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.	5.16.4.1
4.16.5 CPUC Draft Environmental Measures	5.16.5
4.16.6 Applicant Proposed Measures	5.16.6
4.17 Transportation	
4.17.1 Environmental Setting	5.17.1
4.17.1.1: Circulation System. 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 Figure 5.17-1
4.17.1.2: Existing Roadways and Circulation	5.17.1.2

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
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.) III. Number of lanes in both directions of travel 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) IV. Closest project feature name and distance 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.	Figure 5.17-2
4.17.1.3: Transit and Rail Services a) Identify and describe transit and rail service providers in the region. b) Identify any rail or transit lines within 1,000 feet of the project area. c) Identify specific transit stops, and stations within 0.5 mile of the project. Provide the frequency of transit service. d) Provide a supporting map (or maps) showing project features and transit and rail services within 0.5 mile of the project area. e) Provide associated GIS data.	5.17.1.3
4.17.1.4: Bicycle Facilities a) Identify and describe any bicycle plans for the region. b) Identify specific bicycle facilities within 1,000 feet of the project area. c) Provide a supporting map (or maps) showing project features and bicycle facilities. Provide associated GIS data.	5.17.1.4 Figure 5.17-4
4.17.1.5: Pedestrian Facilities a) Identify and describe important pedestrian facilities near the project area that contribute to the circulation system, such as important walkways. b) Identify specific pedestrian facilities that would be near the project, including on the road segments identified per 5.17.1.2. c) Provide a supporting map (or maps) showing project features and important pedestrian facilities. Provide associated GIS data.	5.17.1.5
4.17.1.6: Vehicle Miles Traveled (VMT). Provide the average VMT for the county(s) where the project is located.	5.17.1.6
4.17.2 Regulatory Setting	5.17.2
4.17.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards regarding transportation.	5.17.2.1
4.17.3 Impact Questions	5.17.3
4.17.3.1: CEQA Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G. **4.17.3.2: Additional CEQA Impact Questions:** a) Would the project create potentially hazardous conditions for people walking, bicycling, or driving or for public transit operations? b) Would the project interfere with walking or bicycling accessibility?	5.17.3.1 5.17.3.2

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
c) Would the project substantially delay public transit?	
4.17.4 Impact Analysis	5.17.4
4.17.4.1: Impact Analysis. 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.	5.17.4.1
4.17.5 CPUC Draft Environmental Measures	5.17.5
4.17.6 Applicant Proposed Measures	5.17.6
4.18 Tribal Cultural Resources	
4.18.1 Environmental Setting	5.18.1
4.18.1.1: Outreach to Tribes. 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 Table 5.18-1
4.18.1.2: Tribal Cultural Resources. 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 tribe's object. b) Summarize attempts to identify TCRs by speaking directly with tribal representatives.	5.18.1.2
4.18.1.3: Ethnographic Study. The ethnographic study should document the history of Native American use of the area and oral history of the area.	5.18.1.3
4.18.2 Regulatory Setting	5.18.2
4.18.2.1: Regulatory Setting. Identify any applicable federal, state or local laws or regulations for tribal cultural resources that apply to the project.	5.18.2.1
4.18.3 Impact Questions	5.18.3
4.18.3.1: CEQA Impact Questions. The impact questions include all tribal cultural resources impact questions in the current version of CEQA Guidelines, Appendix G. **4.18.3.2: Additional CEQA Impact Questions: None.**	5.18.3.1 5.18.3.2
4.18.4 Impact Analysis	5.18.4
4.18.4.1: Impact Analysis. 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
Include the following information in the impact analysis:	
4.18.4.2: Information Provided by Tribes. Include an analysis of any impacts that were identified by the tribes during the Applicant's outreach.	5.18.4.2
4.18.5 CPUC Draft Environmental Measures	5.18.5
4.18.6 Applicant Proposed Measures	5.18.6
4.19 Utilities and Service Systems	
4.19.1 Environmental Setting	5.19.1
4.19.1.1: Utility Providers. Identify existing utility providers and the associated infrastructure that serves the project area.	5.19.1.1

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
4.19.1.2: Utility Lines. 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
4.19.1.3: Approved Utility Projects. Identify utility projects that have been approved for construction within the project ROW but that have not yet been constructed.	5.19.1.3
4.19.1.4: Water Supplies. 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
4.19.1.5: Landfills and Recycling. 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
4.19.2 Regulatory Setting	5.19.2
4.19.2.1: Regulatory Setting. Identify any applicable federal, state or local laws or regulations for utilities that apply to the project.	5.19.2.1
4.19.3 Impact Questions	5.19.3
4.19.3.1: CEQA Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G. **4.19.3.2: Additional CEQA Impact Questions:** Would the project increase the rate of corrosion of adjacent utility lines as a result of alternating current impacts?	5.19.3.1 5.19.3.2
4.19.4 Impact Analysis	5.19.4
4.19.4.1: Impact Analysis. 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 Table 5.19-1
4.19.5 CPUC Draft Environmental Measures	5.19.5
4.19.6 Applicant Proposed Measures	5.19.6
4.20 Wildfire	
4.20.1 Environmental Setting	5.20.1
4.20.1.1: High Fire Risk Areas and State Responsibility Areas 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. b) Identify any areas the utility has independently identified as High FHSZ known to occur within the proposed project vicinity.	5.20.1.1
4.20.1.2: Fire Occurrence. Identify all recent (within the last 10 years) large fires that have occurred within the project vicinity. For each fire, identify the following: 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	5.20.1.2
4.20.1.3: Fire Risk. Provide the following information for assessment of baseline fire risk in the area:	5.20.1.3

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
a) Provide fuel modeling using Scott Burgan fuel models, or other model of similar quality. 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. 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. 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.	
4.20.1.4: Values at Risk. 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.	5.20.1.4
4.20.1.5: Evacuation Routes. 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).	5.20.1.5
4.20.2 Regulatory Setting	5.20.2
4.20.2.1: Regulatory Setting. Identify applicable federal, state, and local laws, policies, and standards for wildfire.	5.20.2.1 5.20.2.2
4.20.3 Impact Questions	5.20.3
4.20.3.1: CEQA Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G. **4.20.3.2: Additional CEQA Impact Questions: None.**	5.20.3.1 5.20.3.2
4.20.4 Impact Analysis	5.20.4
4.20.4.1: Impact Analysis. 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
4.20.5 CPUC Draft Environmental Measures	5.20.5
4.20.6 Applicant Proposed Measures	5.20.6
4.21 Mandatory Findings of Significance	
4.21.1: Impact Questions. 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
4.21.1.1: CEQA Impact Questions. All impact questions for this resource area in the current version of CEQA Guidelines, Appendix G.	5.21.1.1
4.21.2: Impact Analysis.	5.21.2
4.21.2.1: Impact Analysis. 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.	5.21.2.1
5.0 Cumulative and Other CEQA Considerations	
5.1 Cumulative Impacts	7.1
5.1.1: List of Cumulative Projects	7.1.1

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
a) Provide a detailed table listing past, present, and reasonably foreseeable future projects within and surrounding the project area (approximately 2-mile buffer). The following information should be provided for each project in the table: I. Project name and type II. Brief description of the project location(s) and associated actions III. Distance to and name of the nearest project component IV. Project status and anticipated construction schedule 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) b) Provide a supporting map (or maps) showing project features and cumulative project locations and/or linear features. Provide associated GIS data.	Appendix 7-A Figure 7-1
5.1.2: Geographic Scope. 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.	7.1.2
5.1.3: Cumulative Impact Analysis. Provide an analysis of cumulative impacts for each resource topic included in Chapter 5. Evaluate whether the proposed project impacts are cumulatively considerable for any significant cumulative impacts.	7.1.3
5.2 Growth-Inducing Impacts	7.2
5.2.1: Growth-Inducing Impacts. Provide an evaluation of the following potential growth-inducing impacts: a) Would the proposed project foster any economic or population growth, either directly or indirectly, in the surrounding environment? 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.)? c) Would the proposed project remove any obstacles to population growth? 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?	7.2.1
6.0 List of Preparers	
6.1: List of Preparers. Provide a list of persons, their organizations, and their qualifications for all authors and reviewers of each section of the PEA.	8.1
7.0 References	
7.1: Reference List a) Organize all references cited in the PEA by section within a single chapter called "References." b) Within the References chapter, organize all of the Chapter 5 references under subheadings for each resource area section.	9.1
7.2: Electronic References	9.1

PEA Checklist Table	
CPUC Checklist	**PEA Section, Table or Figure Number**
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). b) If the reference can be obtained on the Internet, the Internet address will be provided.	