DOCKETED	
Docket Number:	24-OPT-02
Project Title:	Compass Battery Energy Storage
TN #:	255577-1
Document Title:	Application Submittal Cover Letter and Crosswalk Matrix
Description:	Application cover letter to the CEC including a crosswalk matrix identifying the location of CEC Appendix B requirements within the Opt-In Application.
Filer:	Erin Phillips
Organization:	Dudek
Submitter Role:	Applicant Consultant
Submission Date:	4/8/2024 3:57:30 PM
Docketed Date:	4/8/2024

April 5, 2024

VIA ELECTRONIC MAIL
(Eric.Knight@energy.ca.gov)

California Energy Commission
Attention: Eric Knight, Manager, Siting & Environmental Office
715 P Street
Sacramento, CA 95814

RE: Compass Energy Storage Project Opt-In Application

Dear Mr. Knight:

ENGIE Generation North America LLC is pleased to submit the enclosed Opt-In Application for certification of the Compass Battery Energy Storage Project (the "Project") to the California Energy Commission ("CEC") through the Opt-In Certification process pursuant to Assembly Bill ("AB") 205.

Compass Energy Storage LLC ("Applicant"), a subsidiary of ENGIE Generation North America LLC, proposes to construct, operate, maintain, and decommission a 250 megawatt ("MW"), 1,000 megawatt hour ("MWh") battery energy storage system ("BESS") project on private land in the City of San Juan Capistrano.

The enclosed Opt-In Application has been prepared in accordance with CEC requirements and the California Code of Regulations ("CCR"), Title 20, Appendix B.

The following sections are included in today's submittal:

Section Number	Section Title
1.0	Introduction
2.0	Project Description
3.0	Electric Transmission
4.0	Environmental Analysis
4.1	Air Quality
4.2	Biological Resources
4.3	Cultural Resources
4.4	Geological Hazards and Resources
4.5	Hazards and Hazardous Materials
4.6	Land Use

Section Number	Section Title
4.7	Noise
4.8	Paleontological Resources
4.9	Public Health
4.10	Socioeconomics
4.11	Soils
4.12	Traffic and Transportation
4.13	Visual Resources
4.14	Waste Management
4.15	Water Resources
4.16	Worker Health and Safety
4.17	Wildfire and Fire Prevention
5.0	Alternatives
Appendix 1A	Assessor's Parcel Map
Appendix 1B	Project Owners List (Confidential)
Appendix 1C	Community Benefits Plan
Appendix 1D	Labor and Employment Information
Appendix 2A	Project Design Layout and Elevations
Appendix 2B	Landscape Plan
Appendix 2C	Decommissioning Plan
Appendix 3A	Phase II Interconnection Study (Confidential)
Appendix 3B	Interconnection Agreement (Confidential)
Appendix 4.1A	Emissions Calculations
Appendix 4.1B	Construction Impact Analysis
Appendix 4.1C	Air Dispersion Modeling and Model Options and Parameters
Appendix 4.2A	Summary of Special Status-Species within the Study Area
Appendix 4.2B	Observed Species List
Appendix 4.2C	Resumes of Applicant's Biologists
Appendix 4.2D	CNDDB Forms
Appendix 4.3A	Resumes of Applicant's Archaeologists
Appendix 4.3B	Records Search Results (Confidential)
Appendix 4.3C	Cultural Resources Overview Map (Confidential)
Appendix 4.3D	Department of Parks and Recreation 523 Form Updates
Appendix 4.3E	NAHC Correspondence
Appendix 4.4A	Geotechnical Evaluation Report
Appendix 4.5A	Phase I ESA

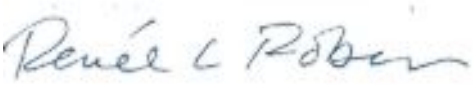
Section Number	Section Title
Appendix 4.5B	Hazardous Materials Business Plan
Appendix 4.7A	Battery Information
Appendix 4.7B	Construction Noise Model
Appendix 4.7C	Construction Traffic Noise Analysis
Appendix 4.9A	Air Dispersion Receptors
Appendix 4.9B	Detailed HRA Results
Appendix 4.10A	Economic and Public Revenue Impact Study
Appendix 4.12A	Traffic Counts & Intersection Worksheets
Appendix 4.15A	Stormwater Management Plan
Appendix 4.15B	Water Quality Management Plan
Appendix 4.17A	Fire Protection Technical Report

If you have any questions about the Compass Energy Storage Project's Opt-In Application, please do not hesitate to contact Renée Robin, J.D., Director of Planning & Permitting, renée.robin@engie.com.

Pursuant to 20 Cal. Code Regs. Sections 1707 and 1876, I attest under penalty of perjury and as an officer of Compass Energy Storage LLC that the contents of this application for certification filed by or on behalf of Compass Energy Storage LLC are truthful and accurate to the best of my knowledge and belief at the time filed.

ENGIE Generation North America LLC and Compass Energy Storage LLC look forward to working with the Commission regarding its Opt-In Application for certification of the Compass Battery Energy Storage System Project.

Sincerely,



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Renée L. Robin, J.D.
Director, Permitting & Planning
Engie North America LLC for
Compass Energy Storage LLC

Attachment: Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Cc: Justin Amirault, Chief Development Officer, Engie North America LLC
Erin Phillips, Project Manager, Dudek
Ryan Waterman, J.D., Brownstein, Hyatt, Farber & Schreck LLC

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(a)(1)(A)	A general description of the proposed site and related facilities, including the location of the site or transmission routes, the type, size and capacity of the generating or transmission facilities…and other general characteristics	Section 1, Introduction Section 2.2, Project Components
(a)(1)(A)	fuel characteristics, fuel supply routes and facilities, pollution control systems	Section 1.3, Project Elements Section 2.2, Project Components
(a)(1)(A)	water supply routes and facilities	Section 1.3, Project Elements Section 2.2, Project Components
(a)(1)(B)	Identification of the location of the proposed site and related facilities by section, township, range, county, and assessor's parcel numbers	Section 1.2, Project Location
(a)(1)(C)	A description of and maps depicting the region, the vicinity and the site and its immediate surroundings	Section 2.1, Overview and Location Figure 1-1, Project Vicinity
(a)(1)(D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction,	Appendix 1A, Assessor's Parcel Map
(a)(1)(D)	and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction	Figure 4.13-1, Selected Publicly Accessible Vantage Points Figure 4.13-2a, View 1 Southbound Interstate 5 (Visual Simulation) Figure 4.13-3a, View 2 Northbound Camino Capistrano (Visual Simulation)
(a)(1)(E)	In an appendix to the application, a list of current assessor's parcel numbers and owners' names and addresses for all parcels within 500 feet of the proposed transmission line and other linear facilities, and within 1000 feet of the proposed powerplant and related facilities	Appendix 1A, Assessor's Parcel Map Appendix 1B, Property Owner Information
(a)(2)	Project Schedule: Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Section 1.7, Project Schedule
(a)(3)(A)	A list of all owners and operators of the site(s), the power plant facilities, and, if applicable, the thermal host, the geothermal leasehold, the geothermal resource conveyance lines, and the geothermal re-injection system, and a description of their legal interest in these facilities	Section 1.6, Project Ownership

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(a)(3)(B)	A list of all owners and operators of the proposed electric transmission facilities	Section 1.6, Project Ownership
(a)(3)(C)	A description of the legal relationship between the applicant and each of the persons or entities specified in subsections (a)(3)(A) and (B).	Section 1.6, Project Ownership
(b)(1)(A)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information: Maps at a scale of 1:24,000 (1" = 2,000'), (or appropriate map scale agreed to by staff) along with an identification of the dedicated leaseholds by section, township, range, county, and county assessor's parcel number, showing the proposed final locations and layout of the power plant and all related facilities	Figure 2-1, Site Plan
(b)(1)(B)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information: Scale plan and elevation drawings depicting the relative size and location of the power plant and all related facilities to establish the accuracy of the photo simulations required in Sections (a)(1)(D) and (g)(6)(F	Appendix 2A, Project Design Layout and Elevations
(b)(1)(C)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information: A detailed description of the design, construction and operation of the facilities, specifically including the power generation,	Section 2.2, Project Components Section 2.3, Construction Section 2.4, Operations
(b)(1)(C)	cooling,	Not applicable to the Project.
(b)(1)(C)	water supply and treatment,	Section 2.3, Construction Section 2.4, Operations
(b)(1)(C)	waste handling and control,	Section 2.3, Construction Section 2.4, Operations
(b)(1)(C)	pollution control, fuel handling, and fuel types and fuel use scenarios	Section 2.3, Construction Section 2.4, Operations
(b)(1)(C)	and safety, emergency and auxiliary systems	Section 2.2, Project Components Section 2.3, Construction Section 2.4, Operations
(b)(1)(D)	In a section entitled, "Generation Facility Description, Design, and Operation" provide the following information: A description of how the site and related facilities were selected and the consideration given to the	Section 2.1, Overview and Location Section 2.2, Project Components

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant	
(b)(2)(A)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information: Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) of each proposed transmission line route, showing the settled areas, parks, recreational areas, scenic areas, and existing transmission lines within one mile of the proposed route(s)	Figure 3-1, Transmission Line Route Figure 3-2, Representative Transmission Pole
(b)(2)(B)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information: A full-page color photographic reproduction depicting a representative above ground section of the transmission line route prior to construction and a full-page color photographic simulation of that section of the transmission line route after construction	Figure 4.13-2a, View 1 Southbound Interstate 5 (Visual Simulation) Figure 4.13-3a, View 2 Northbound Camino Capistrano (Visual Simulation)
(b)(2)(C)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information: A detailed description of the design, construction and operation of any electric transmission facilities, such as powerlines, substations, switchyards, or other transmission equipment, which will be constructed or modified to transmit electrical power from the proposed power plant to the load centers to be served by the facility. Such description shall include the width of rights-of-way and the physical and electrical characteristics of electrical transmission facilities such as towers, conductors, and insulators	Section 3.2, Transmission Line Description, Design, and Operation
(b)(2)(D)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information: A description of how the route and additional transmission facilities were selected, and the consideration given to engineering constraints, environmental impacts, resource conveyance constraints, and electric transmission constraints	Section 3.2, Transmission Line Description, Design, and Operation
(b)(2)(E)	In a section entitled, "Transmission Lines Description, Design, and Operation" provide the following information: A completed System Impact Study or signed System Impact Study Agreement with the California	Section 3.3, Transmission Interconnection Studies and Interconnection Agreement Appendix 3A, Phase II Interconnection Study

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	Independent System Operator and proof of payment. When not connecting to the California Independent System Operator controlled grid, provide the executed System Impact Study agreement and proof of payment to the interconnecting utility. If the interconnection and operation of the proposed project will likely impact a transmission system that is not controlled by the interconnecting utility (or California Independent System Operator), provide evidence of a System Impact Study or agreement and proof of payment (when applicable) with/to the impacted transmission owner or provide evidence that there are no system impacts requiring mitigation.	Appendix 3B, Interconnection Agreement
(b)(3) and all subsections	Applications for geothermal facilities shall contain the following additional information:	Not applicable to the Project
(c)	Reserved	Not applicable to the Project
(d) and all subsections	Information for Projects which Completed the NOI Process	Not applicable to the Project
(e)(1)	A discussion of how the facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 2.5, Decommissioning Appendix 2C, Decommissioning Plan
(f)(1)	A discussion of the range of reasonable alternatives to the project, or to the location of the project, including the no project alternative, which would feasibly attain most of the basic objectives of the project but would avoid or substantially lessen any of the significant effects of the project, and an evaluation of the comparative merits of the alternatives. In accordance with Public Resources Code section 25540.6(b), a discussion of the applicant's site selection criteria, any alternative sites considered for the project, and the reasons why the applicant chose the proposed site.	Section 5, Alternatives
(f)(2)	An evaluation of the comparative engineering, economic, end environmental merits of the alternatives discussion in subsection (f)(1)	Section 5, Alternatives
(g) Environmental Information (1) General Information	General Information: For each technical area listed below, provide a discussion of the existing site conditions, the expected direct, indirect, and cumulative impacts due to the construction, operation, and maintenance of the project, the measures proposed to mitigate adverse environmental impacts of the project, the effectiveness of the proposed measures, and any monitoring plans proposed to verify the effectiveness	Sections 4.0 through 4.17

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	of the mitigation. Additional requirements specific to each technical area are listed below.	
(g)(2)(A) Cultural Resources	A summary of the ethnology, prehistory, and history of the region with emphasis on the area within no more than a 5-mile radius of the project location. This regional summary must address the potential for buried cultural resources and tribal cultural resources to occur in the project area. The summary, together with literature search results, must inform the field methods employed for identifying cultural resources and tribal cultural resources in the project area.	Section 4.3.1, Affected Environment
(g)(2)(B)	The results of a literature search to identify cultural resources and tribal cultural resources within an area not less than a 1-mile radius around the project site and not less that than one-quarter (0.25) mile on each side of the linear facilities. Identify any cultural resources or tribal cultural resources listed pursuant to ordinance by a city or county, or recognized by any local historical or archaeological society or museum. Literature searches to identify the above cultural resources and tribal cultural resources must be completed by, or under the direction of, individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed. Copies of California Department of Parks and Recreation (DPR) 523 forms (Title 14 CCR § 4853) shall be provided for all cultural resources and tribal cultural resources (ethnographic, architectural, historical, and archaeological) identified in the literature search as being 45 years or older or of exceptional importance as defined in the National Register Bulletin Guidelines (36CFR60.4(g)). A copy of the USGS 7. 5-minute quadrangle map of the literature search area delineating the areas of all past surveys and noting the California Historical Resources Information System (CHRIS) identifying number shall be provided. Copies also shall be provided of all technical reports whose survey coverage is wholly or partly within 0.25 mile of the area surveyed for the project under Section (g)(2)(C), or which report on any archaeological excavations or architectural surveys within the literature search area.	Section 4.3.2, Research Methods for the Cultural Resources Inventory Section 4.3.3, Results Appendix 4.3B, Records Search Results (Confidential)
(g)(2)(C)	The results of new cultural resource and tribal cultural resource surveys or surveys less than 5 years old shall be provided if survey records of the	Section 4.3.2, Research Methods for the Cultural Resources Inventory

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	area potentially affected by the project are more than five (5) years old. Surveys to identify new cultural resources and tribal cultural resources must be completed by (or under the direction of) individuals who meet the Secretary of the Interior's Professional Standards for the technical area addressed. New pedestrian archaeological surveys shall be conducted inclusive of the project site and project linear facility routes, extending to no less than 200 feet around the project site, substations and staging areas, and to no less than 50 feet to either side of the right-of-way of project linear facility routes. New historic architecture field surveys in rural areas shall be conducted inclusive of the project site and the project linear facility routes, extending no less than 0.5 mile out from the proposed plant site and from the routes of all above-ground linear facilities. New historic architecture field surveys in urban and suburban areas shall be conducted inclusive of the project site, extending no less than one parcel's distance from all proposed plant site boundaries. New historic architecture field reconnaissance ("windshield survey") in urban and suburban areas shall be conducted along the routes of all linear facilities to identify, inventory, and characterize structures and districts that appear to be older than 45 years or that are exceptionally significant, whatever their age. A technical report of the results of the new surveys, conforming to the Archaeological Resource Management Report format (CA Office of Historic Preservation Feb 1990), which is incorporated by reference in its entirety, shall be separately provided and submitted (under confidential cover if archaeological resource or other sensitive resource locations are included). Information included in the technical report shall also be provided in the application, except that confidential information (archaeological sites, other sensitive resources, or areas of religious significance) shall be submitted under a request for confidentiality pursuant to Title 20, California Code of Regulations, § 2501 et seq. At a minimum, the technical report shall include the following:	Section 4.3.3, Results Appendix 4.3B, Records Search Results (Confidential)
(g)(2)(C)(i)	The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B).	Section 4.3.3, Results

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(2)(C)(ii)	The survey procedures and methodology used to identify cultural and tribal cultural resources and a discussion of the cultural and tribal cultural resources identified by the survey.	Section 4.3.3.4 Field Survey Results
(g)(2)(C)(iii)	Copies of all new and updated DPR 523(A) forms. If a cultural resource or tribal cultural resource may be impacted by the project, also include the appropriate DPR 523 detail form for each such resource.	Appendix 4.3D, Department of Parks and Recreation 523 Form Updates
(g)(2)(C)(iv)	A map at a scale of 1:24,000 (U.S. Geological Survey topographic quadrangle) depicting the locations of all previously known and newly identified cultural and tribal cultural resources compiled through the research required by Appendix B (g)(2)(B) and Appendix B (g)(2)(C) (ii).	Appendix 4.3B, Cultural Resources Overview Map (Confidential)
(g)(2)(C)(v)	The names and qualifications of the cultural resources specialists who contributed to and were responsible for literature searches, surveys, and preparation of the technical report.	Appendix 4.3A, Resumes of Applicant's Archaeologists
(g)(2)(D)	Provide:	
(g)(2)(D)(i)	A copy of the applicant's request to the Native American Heritage Commission (NAHC) for information on Native American sacred sites and lists of Native Americans interested in the project vicinity, and copies of any correspondence received from the NAHC.	Section 4.3.3.5 NAHC Correspondence Appendix 4.3E, NAHC Correspondence
(g)(2)(D)(ii)	A copy of all correspondence sent to Native American individuals and groups listed by the NAHC and copies of all responses. Notification to Native Americans shall include a project description and map.	Section 4.3.3.5 NAHC Correspondence Appendix 4.3E, NAHC Correspondence
(g)(2)(D)(iii)	A written summary of any oral responses.	Section 4.3.3.5 NAHC Correspondence Appendix 4.3E, NAHC Correspondence
(g)(2)(E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1):	Section 4.3.6, Mitigation Measures
(g)(2)(E)(i)	A discussion of measures proposed to mitigate project impacts to known cultural and tribal cultural resources;	Section 4.3.6, Mitigation Measures
(g)(2)(E)(ii)	A set of contingency measures proposed to mitigate potential impacts to previously unknown cultural and tribal cultural resources and any unanticipated impacts to known cultural or tribal cultural resources;	Section 4.3.6, Mitigation Measures

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(2)(E)(iii)	Educational programs to enhance employee awareness during construction and operation to protect cultural and tribal cultural resources.	Section 4.3.6, Mitigation Measures
(g)(3) Land Use (A)	A discussion of existing land uses and current zoning at the site, land uses and land use patterns within one mile of the proposed site and within one-quarter mile of any project-related linear facilities include:	Section 4.6.1.1, Existing Land Uses and Zoning Within the Project Site Section 4.6.1.2 Existing Land Use and Zoning within the Study Area
(g)(3)(A)(i)	An identification of residential, commercial, industrial, recreational, scenic, agricultural, natural resource protection, natural resource extraction, educational, religious, cultural, and historic areas, and any other area of unique land uses;	Section 4.6.1.1, Existing Land Uses and Zoning Within the Project Site Section 4.6.1.2 Existing Land Use and Zoning within the Study Area
(g)(3)(A)(ii)	A discussion of any recent or proposed zone changes and/or general plan amendments; noticed by an elected or appointed board, commission or similar entity at the state or local level.	Section 4.6.1.3, Recent Proposed Zone Changes and General Plan Amendments
(g)(3)(A)(iii)	Identification of all discretionary reviews by public agencies initiated or completed within 18 months prior to filing the application for those changes or developments identified in subsection (g)(3)(A)(ii); and	Section 4.6.1.4, Recent Discretionary Review by Public Agencies
(g)(3)(A)(iv)	Legible maps of the areas identified in subsection (g)(3)(A) potentially affected by the project, on which existing land uses, jurisdictional boundaries, general plan designations, specific plan designations, and zoning have been clearly delineated.	Figure 4.6-1, Land Use Figure 4.6-2, Zoning
(g)(3)(B)	A discussion of the compatibility of the proposed project with present and expected land uses, and conformity with any long-range land use plans and policies adopted by any federal, state, regional, or local planning agencies. The discussion shall identify the need, if any, for land use decisions by another public agency or as part of the commission's decision that would be necessary to make the project conform to adopted federal, state, regional, or local coastal plans, land use plans, or zoning ordinances. Examples of land use decisions include: general plan amendments, zoning changes, lot line adjustments, parcel mergers, subdivision maps, Agricultural Land Conservation Act contracts cancellation, and Airport Land Use Plan consistency determinations.	Section 4.6.2, Environmental Analysis

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(3)(C)	A discussion of the legal status of the parcel(s) on which the project is proposed. If the proposed site consists of more than one legal parcel, describe the method and timetable for merging or otherwise combining those parcels so that the proposed project, excluding linears and temporary laydown or staging area, will be located on a single legal parcel. The merger need not occur prior to a decision on the Application but much be completed prior to the start of construction.	Section 4.6.1.1, Existing Land Uses and Zoning within the Project Site
(g)(3)(D)	A map at a scale of 1:24,000 and written description of agricultural land uses found within all areas affected by the proposed project. The description shall include:	Section 4.6.2.2.3, Convert Farmland to Non-agricultural use Figure 4.6-3, Farmland Mapping and Monitoring Plan
(g)(3)(D)(i)	Land classifications as shown on the California Department of Conservation's Farmland Mapping and Monitoring Program's Important Farmland maps, crop types, irrigation systems, and any special cultivation practices; and	Section 4.6.2.2.3, Convert Farmland to Non-agricultural use Figure 4.6-3, Farmland Mapping and Monitoring Plan
(g)(3)(D)(ii)	Whether agricultural land affected by the project was historically classified Farmland as defined by the California Department of Conservation (Prime Farmland, Farmland of Statewide Importance, or Unique Farmland) as specified in Public Resources Code section 21060.1; and	Section 4.6.2.2.3, Convert Farmland to Non-agricultural use Figure 4.6-3, Farmland Mapping and Monitoring Plan
(g)(3)(D)(iii)	Direct, indirect, and cumulative effects on agricultural land uses. If the proposed site or related facilities are subject to an Agricultural Land Conservation Contract, provide a written copy and a discussion of the status of the expiration or canceling of such contract.	Section 4.6.2.2.3, Convert Farmland to Non-agricultural use
(g)(4) Noise (A)	A land use map which identified residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment within the area impacted by the proposed project. The area potentially impacted by the proposed project is that area where, during either construction or operation, there is a potential increase of 5 dB(A) or more, over existing background levels.	Figure 4.7-1, Baseline Outdoor Ambient Sound Level Survey Measurement Locations
(g)(4)(B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provides a representative characterization of the ambient noise levels of the project vicinity, and a discussion of the general atmospheric conditions, including	Section 4.7.2, Affected Environment

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	temperature, humidity, and the presence of wind and rain at the time of the measurements. The existing noise levels shall be determined by taking noise measurements for a minimum of 25 consecutive hours at a minimum of one site. Other sites may be monitored by a lesser duration at the applicant's discretion, preferably during the same 25-hour period. The results of the noise level measurements shall be reported as hourly averages in Leq (equivalent sound or noise level), Ldn (day-night sound or noise level) or CNEL (Community Noise Equivalent Level) in units of dB(A). The L10, L50, and L90 values (noise level exceeds 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	
(g)(4)(C)	A description of the major noise sources of the project, including the range of noise levels and the tonal and frequency characteristics of the noise emitted.	Section 4.7.3.2, Construction Impacts Section 4.7.3.3, Operational Impacts
(g)(4)(D)	An estimate of the project noise levels, during both construction and operation, at residences, hospitals, libraries, schools, places of worship, or other facilities where quiet is an important attribute of the environment, within the area impacted by the proposed project.	Section 4.7.3.2, Construction Impacts Section 4.7.3.3, Operational Impacts Figure 4.7-2, Predicted Aggregate Noise from Battery Energy Storage Facility Operations
(g)(4)(E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impacts to the workers at the site due to the estimated noise levels.	Section 4.7.3.2, Construction Impacts Section 4.7.3.3, Operational Impacts Figure 4.7-2, Predicted Aggregate Noise from Battery Energy Storage Facility Operations
(g)(4)(F)	The auditable noise from existing switchyards and overhead transmission lines that would be affected by the project, and estimates of the future audible noise levels that would result from existing and proposed switchyards and transmission lines. Noise levels shall be calculated at the property boundary for switchyards and at the edge of the rights-of-way for transmission lines.	Section 4.7.3.3, Operational Impacts
(g)(5) Traffic and Transportation (A)	A regional transportation setting, on topographic maps (scale of 1:250,000), identifying the project location and major transportation facilities. Include a reference to the transportation element of any applicable local or regional plan.	Figure 1-1, Project Vicinity 4.12.1 Affected Environment

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(5)(B)	If the proposed project including any linear facility is to be located within four miles of an airport, a planned or proposed airport runway, or an airport runway under construction, discuss the project's compliance with the applicable sections of the current Federal Aviation Regulation Part 77 -- Safe, Efficient Use, and Preservation of the Navigable Airspace, specifically any potential to obstruct or impede air navigation generated by the project during construction or operation; such as, a thermal plume, a visible water vapor plume, glare, electrical interference, or surface structure height. The discussion should include:	Section 4.12.1.1.4, Air Traffic
(g)(5)(B)(i)	A map at a scale of 1:24,000 that displays the airport or airstrip runway configuration, the airport influence area including all safety zones, and the proposed power plant site and related facilities;	Not applicable to the Project. The nearest airport facility is approximately 20 miles from the Project site.
(g)(5)(B)(ii)	A thermal plume analysis that describes the plume's velocity:	Not applicable to the Project. The nearest airport facility is approximately 20 miles from the Project site.
(g)(5)(B)(iii)	A discussion of the project's conformance with applicable Airport Land Use Compatibility Plan policies; and	Not applicable to the Project. The nearest airport facility is approximately 20 miles from the Project site.
(g)(5)(B)(iv)	Copies of FAA Form 7460-1, Notice of Proposed Construction or Alteration, that were submitted or approved for any project component requiring notice.	Not applicable to the Project. The nearest airport facility is approximately 20 miles from the Project site.
(g)(5)(C)	An evaluation of the project's potential impacts related to vehicle miles traveled (VMT) that may include:	Section 4.12.2.2, VMT Assessment
(g)(5)(C)(i)	The local jurisdiction's thresholds of significance;	Section 4.12.2.2, VMT Assessment
(g)(5)(C)(ii)	Methodologies (such as local VMT Evaluation Tool)	Section 4.12.2.2, VMT Assessment
(g)(5)(C)(iii)	VMT heat maps;	Section 4.12.2.2, VMT Assessment
(g)(5)(C)(iv)	Transportation demand management plans and any documents supporting the project applicant's CEQA determination.	Section 4.12.2.2, VMT Assessment
(g)(5)(D)	An identification, on topographic maps at a scale of 1:24,000 and a description of existing and planned roads, rail lines (including light rail), bike trails, airports, bus routes serving the project vicinity, pipelines, and	Section 4.12.1 Affected Environment

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable:	
(g)(5)(D)(i)	Road classification and design capacity;	Section 4.12.1, Affected Environment
(g)(5)(D)(ii)	Current daily average and peak traffic counts;	Section 4.12.1, Affected Environment Figure 4.12-1, Existing Intersection Geometrics and Peak Hour Traffic Volumes
(g)(5)(D)(iii)	Current and projected levels of service before project development, during construction, and during project operation;	Section 4.12.2.3, LOS Impacts
(g)(5)(D)(iv)	Weight and load limitations;	Section 4.12.4, Truck Turn Analysis Figure 4.12-6, Inbound and Outbound Truck access from Camino Capistrano Section 4.12.5, Laws, Ordinances, Regulations, and Standards
(g)(5)(D)(v)	Estimated percentage of current traffic flows for passenger vehicles and trucks; and	4.12.2.3, LOS Impacts Figure 4.12-2, Distribution and Assignment for Workers Trips Figure 4.12-3, Project Trip Assignment and Distribution - Trucks Figure 4.12-4, Project Trip Assignment - Total Figure 4.12-5, Existing plus Project Peak Hour Traffic Volumes
(g)(5)(D)(vi)	An identification of any road features affecting public safety.	Section 4.12.2.8, Public Safety
(g)(5)(E)	An assessment of the construction and operation impacts of the proposed project on the transportation facilities identified in subsection (g)(5)(D). Also include anticipated project-specific traffic, estimated changes to daily average and peak traffic counts, levels of service, and traffic/truck mix, and the impact of construction of any facilities identified in subsection (g)(5)(D). Include:	Section 4.12.2.3, LOS Impacts
(g)(5)(E)(i)	Estimated one-way trip lengths for workers, deliveries, and truck haul trips generated by the construction of the project.	Section 4.12.2.3, LOS Impacts

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(5)(E)(ii)	Description of public roadways and intersections temporarily or permanently altered by construction and operation including the duration of activities.	Section 4.12.2.3, LOS Impacts
(g)(5)(F)	A discussion of project-related hazardous materials to be transported to or from the project during construction and operation of the project, including the types, estimated quantities, estimated number of trips, anticipated routes, means of transportation, and any transportation hazards associated with such transport.	Section 4.12.2.7, Transport of Hazardous Materials
(g)(6) Visual Resources (A)	Provide a description of the existing landscape (built or natural) where the proposed project is to be sited and the vicinity, and along the proposed routes for any above-ground project-related linear facilities. Include:	Section 4.13.1, Affected Environment
(g)(6)(A)(i)	Show on a map(s) (pinpoint) any designated or recognized scenic vista and scenic resource within a five-mile radius of the project and one-mile radius of a project-related linear facility. Include:	Section 4.13.1, Affected Environment
(g)(6)(A)(i)(a)	Any designated scenic vista and scenic resource in an adopted federal, state, county, or city government planning document, plan, or regulation.	Section 4.13.1, Affected Environment
(g)(6)(A)(i)(b)	A natural feature or object that is a part of the land, such as a geologic distinguishing characteristic (e.g., laccolith), geomorphologic feature (e.g., gorge), or other terrain feature (e.g., a water body, open space, or tree recognized for its aesthetic, botanical and ecological value, or age, rarity, and size).	Section 4.13.1, Affected Environment
(g)(6)(A)(i)(c)	A man-made feature or object that embodies elements of architecture or engineering design, detail, materials or craftsmanship that represent a significant innovation or is unique, such as the California State Capitol, Golden Gate Bridge, or Hollywood Sign.	Section 4.13.1, Affected Environment
(g)(6)(A)(i)(d)	Explain does the project eliminate or obstruct the public view (the visible area from a location where the public has a legal and physical right of access to real property) of a scenic vista and scenic resource? Is the project situated so that it changes the visual aspect of a scenic resource by being different or in sharp contrast?	Section 4.13.2.1.3, Viewers and Exposure Section 4.13.2.1.4, View Analysis Section 4.13.2.3, Assessment of Impacts to Public Views Figure 4.13-1, Selected Publicly Accessible Vantage Points

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
		Figure 4.13-2, View 1: Southbound Interstate 5 (Existing Conditions) Figure 4.13-2a, View 1 Southbound Interstate 5 (Visual Simulation) Figure 4.13-3, View 2: Northbound Camino Capistrano (Existing Conditions) Figure 4.13-3a, View 2 Northbound Camino Capistrano (Visual Simulation)
(g)(6)(A)(ii)	Describe the existing nighttime lighting on the project site and in the vicinity.	Section 4.13.2.1.5, Lighting Analysis
(g)(6)(B)	In accordance with CEQA Guidelines as found in 14 CCR Division 6, Chapter 3, Appendix G Environmental Checklist Form, I. Aesthetics c, if the project is to be constructed within an "urbanized area" as defined in Public Resources Code section 21071, explain the project's conformance with the city/county General Plan, and city municipal code or county government code (e.g., zoning) governing scenic quality.	Section 4.13.2.1.6, Consistency Analysis Section 4.13.2.4, Analysis of Policy Consistency
(g)(6)(C)	In accordance with CEQA Guidelines as found in 14 CCR Division 6, Chapter 3, Appendix G Environmental Checklist Form, I. Aesthetics c, if the project is to be constructed within a non-urbanized area provide the following:	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.
(g)(6)(C)(i)	Show on a map the pinpoint location of the key observation point(s) (KOP) for the project. A KOP is a fixed position in a publicly accessible location where a public view of the project is analyzed and/or evaluated in the landscape. Objects of aesthetic significance are the primary focus in the KOP selection.	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.
(g)(6)(C)(ii)	If an object of aesthetic significance is not in the vicinity of the project, a KOP is to be selected based on importance to stakeholders, visibility, direct public selection, worst-case scenario, or other reason. Explain the reason the KOP was chosen. At a minimum two KOPs are to be selected.	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.
(g)(6)(C)(iii)	Provide a color photograph(s) showing an actual line of sight at eye level during daytime and clear weather from the KOP to the project site prior to any alteration (existing condition). The photographer at the KOP is to use a standard lens. For each photograph provide the following information:	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	camera type, lens focal length, viewing angle; date and time the photograph was taken, and the distance to the project site.	
(g)(6)(C)(iv)	Using the photograph from the KOP provide a spatially accurate and realistically photo manipulated computer simulated image of the project (photo-realistic simulation) one-year after completion of construction (existing condition plus proposed project).	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.
(g)(6)(C)(v)	The KOP photograph and the photo-realistic simulation are to be capable of 11″ x 17″ color print by a printer capable at a minimum 600 dots per inch output resolution.	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.
(g)(6)(C)(vi)	Provide a copy of the KOP photograph(s) and photo-realistic simulation(s) in an electronic file.	Not applicable to the Project. The Project is in an urbanized area, see (g)(6)(B) above.
(g)(6)(D)	Show and describe the project in the landscape.	Section 4.13.2.2, Project Appearance
(g)(6)(D)(i)	Provide an 8.5″ x 11″ sized scaled elevation(s) of project buildings, structures, and major equipment; a table listing their dimensions (height, length, width, diameter).	Section 4.13.2.2, Project Appearance
(g)(6)(D)(ii)	Provide a table and description of the exterior surface treatments and finishes for the buildings, structures, major equipment (e.g., colors, flat and/or textured finishes), and structural materials.	Section 4.13.2.2, Project Appearance
(g)(6)(D)(iii)	Describe project specific architectural treatment or design technique mitigation unique to the project's siting at the location (e.g., camouflage, disguise, screen), if any.	Section 4.13.2.2, Project Appearance
(g)(6)(D)(iv)	Provide a project specific conceptual landscape design plan that conforms with the city municipal code or county government code. Include:	Section 4.13.2.2.4, Perimeter Wall and Landscaping
(g)(6)(D)(iv)(a)	the type of plant and/or tree species, location, quantity, size, spacing at installation/planting, expected growth rates, and expected heights at one-year, five years, and maturity. Specify irrigation system components and show their locations	Section 4.13.2.2.4, Perimeter Wall and Landscaping
(g)(6)(D)(iv)(b)	the calculated total pervious surface amount for the project site; include the surface to be replaced, the new surface, and the total area to be landscaped.	Section 4.13.2.2.4, Perimeter Wall and Landscaping

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(6)(D)(v)	Provide a project specific conceptual outdoor lighting control and management plan (lighting plan) and explain the control of reflectance from exterior surfaces offsite that conform with the city municipal code or county government code.	Section 4.13.2.2.3, Lighting Section 4.13.2.3.2, Lighting Effects
(g)(6)(D)(v)(a)	Provide a list of the project-specific luminaires, identify the design (e.g., full cutoff, semi cutoff, non cutoff) and indicate if the luminaires have the International Dark-Sky Association Fixture Seal of Approval to the extent feasible consistent with safety and security considerations. Show the project-specific luminaires locations on a diagram or elevation.	Section 4.13.2.2.3, Lighting Section 4.13.2.3.2, Lighting Effects
(g)(6)(D)(v)(b)	Describe reflectance, the intensity of the specular reflectance from the exterior surface of the project's large buildings, structures, and major equipment offsite to the surrounding area (e.g., the light reflected from the shiny surface). The reflectance of the object--how bright it shines--depends on the intensity of the light striking it and the materials from which it is made (e.g., glass, reinforced concrete, structural steel).	Section 4.13.2.2.3, Lighting Section 4.13.2.3.2, Lighting Effects
(g)(6)(C)	If the project is to use a cooling tower emitting a publicly visible water vapor plume (visible plume) in the atmosphere provide the following information:	Section 4.13.2.2.3, Lighting Section 4.13.2.3.2, Lighting Effects
(g)(6)(E)(i)	Provide the cooling tower's number of fan cells, the fan cell stack height and diameter, the exhaust mass flow rate, heat rejection rate, and exhaust temperature.	Not applicable to the Project.
(g)(6)(E)(ii)	Provide fogging curves specific to the cooling tower's exhaust discharge for at least three ambient air temperature conditions (a low, average, and high temperature condition).	Not applicable to the Project.
(g)(6)(E)(iii)	Explain if the project's forecasted visible plume emitted in the atmosphere by the cooling tower would eliminate or obstruct an existing public view of a designate or recognized scenic vista, scenic resource, and the existing visual character or quality of public views of the site and its surroundings.	Not applicable to the Project.
(g)(7) Socioeconomics (A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include:	Section 4.10.1 Affected Environment
(g)(7)(A)(i)	The economic characteristics, including the economic base, fiscal resources, and a list of the applicable local agencies with taxing powers and their most recent and projected revenues;	Section 4.10.1.3, Economy and Employment Section 4.10.1.4, Fiscal Resources

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(7)(A)(ii)	The social characteristics, including populations and demographic and community trends;	Section 4.10.1, Affected Environment
(g)(7)(A)(iii)	Existing and projected unemployment rates;	Section 4.10.1.3, Economy and Employment
(g)(7)(A)(iv)	Availability of skilled workers by occupation required for construction and operation of the project;	Section 4.10.2.1, Methodology Section 4.10.2.2.2, Induce Substantial Growth of Concentration of Population
(g)(7)(A)(v)	Availability of temporary and permanent housing and current vacancy rate; and	Section 4.10.1.2, Housing Section 4.10.2.2.2, Induce Substantial Growth of Concentration of Population
(g)(7)(A)(vi)	Capacities, service standards, existing and expected use levels, and planning expansion of utilities (gas, water and waste) and public services, including fire protection, law enforcement, emergency response, medical facilities, other assessment districts, school districts, parks and recreation facilities, libraries, and other public facilities. For projects outside metropolitan areas with a population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, including project-related changes, for the duration of the project construction schedule.	Section 4.10.1.5, Education Section 4.10.1.6, Public Services and Facilities Section 4.10.1.6.1, Law Enforcement Section 4.10.1.6.2, Fire Protection Section 4.10.1.6.3, Emergency Response Section 4.10.1.6.4, Hospitals Section 4.10.1.7, Utilities
(g)(7)(B)	A discussion of the socioeconomic impacts caused by the construction and operation of the project (note year of estimate, model, if used, and appropriate sources), including:	Section 4.10.2, Economic Analysis
(g)(7)(B)(i)	An estimate of the number of workers to be employed each month by occupation during construction, and for operations, an estimate of the number of permanent operations workers during a year;	Section 4.10.2.2, Construction Impacts Section 4.10.2.3, Operation Impacts
(g)(7)(B)(ii)	An estimate of the percentage of non-local workers who will relocate to the project area to work during the project construction and operation;	Not applicable to the Project. The applicant anticipates that skilled labor for surface construction activities will be drawn locally from the County.
(g)(7)(B)(iii)	An estimate of the potential population increase caused directly and indirectly by the project;	Section 4.10.2.2.2, Induce Substantial Growth of Concentration of Population Section 4.10.2.3.2, Induce Substantial Growth of Concentration of Population

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(7)(B)(iv)	The potential impact of population increase on housing during the construction and operations phase;	Section 4.10.2.2.2, Induce Substantial Growth of Concentration of Population Section 4.10.2.3.2, Induce Substantial Growth of Concentration of Population
(g)(7)(B)(v)	The potential impacts, including additional costs and ability to meet local service standards, on utilities (gas, water and waste) and public services, including fire, law enforcement, emergency response, medical facilities, other assessment districts, and school districts. Include response times to hospitals and for police protection, fire protection, emergency services, parks and recreation facilities, libraries, and other public facilities. For projects outside metropolitan areas with a population of 500,000 or more, information on schools shall include project-related enrollment changes by grade level groupings and associated facility and staffing impacts by school district during the construction and operating phases;	Section 4.10.2.2.7, Impacts on Provision of Utility Services Section 4.10.2.2.8, Impacts on the Provision of Public Services Section 4.10.2.3.7, Impacts on Provision of Utility Services Section 4.10.2.3.8, Impacts on the Provision of Public Services
(g)(7)(B)(vi)	An estimate of applicable school impact fees;	Section 4.10.2.2.6, Impacts on Educational Facilities Section 4.10.2.3.5, Fiscal Impacts in the Community
(g)(7)(B)(vii)	An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees;	Section 4.10.2.2.4, Impacts on the Local Economy and Employment Section 4.10.2.3.4, Impacts on the Local Economy and Employment
(g)(7)(B)(viii)	An estimate of the expenditures for locally purchased materials for the construction and operation phases of the project;	Section 4.10.2.2.5, Fiscal Impacts in the Community Section 4.10.2.3.5, Fiscal Impacts in the Community
(g)(7)(B)(ix)	An estimate of capital cost (plant and equipment) of the project;	Section 4.10.2.2.5, Fiscal Impacts in the Community
(g)(7)(B)(x)	An estimate of sales taxes generated during construction and separately during an operational year of the project;	Section 4.10.2.2.5, Fiscal Impacts in the Community

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(7)(B)(xi)	An estimate of property taxes generated during an operational year of the project;	Section 4.10.2.3.5, Fiscal Impacts in the Community
(g)(7)(B)(xii)	The expected direct, indirect, and induced income and employment effects due to construction and operation of the project; and	Section 4.10.2.2.4, Impacts on the Local Economy and Employment Section 4.10.2.3.4, Impacts on the Local Economy and Employment
(g)(7)(B)(xiii)	A discussion of impacts to environmental justice populations by technical areas and whether any impacts would disproportionately affect the environmental justice populations.	Section 4.10.2.4, Environmental Justice
(g)(8) Air Quality (A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	Section 4.1.2 Regulatory Items Affecting New Source Review
(g)(8)(B)	The heating value and chemical and chemical characteristics of the proposed fuels, the stack height and diameter, and exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	Section 4.1.3 Emissions Evaluation
(g)(8)(C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 4.1.4 Best Available Control Technology Evaluation
(g)(8)(D)	A description of the cooling system, the estimated cooling tower drift area, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	Not applicable to the Project.
(g)(8)(E)	The emission rates of criteria pollutants and greenhouse gases (CO2, CH4, N2O, and SF6) from the stack, cooling tower, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	Section 4.1.3 Emissions Evaluation
(g)(8)(F)(i)	A description of typical operational modes, and start-up and shutdown modes for the proposed project, including the estimated frequency of occurrence and duration of each mode, and estimated emission rate for each criteria pollutant during each mode.	Section 4.1.3.6 Operational Emissions
(g)(8)(F)(ii)	A description of the project's planned initial commissioning phase, which is the phase between the first firing of emissions sources and the commercial operations date, including the types and durations of	Section 4.1.3.2 Normal Operations Section 4.1.6.3 BESS Commissioning Impact Analysis

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	equipment tests, criteria pollutant emissions, and monitoring techniques to be used during such tests.	
(g)(8)(G)	The ambient concentrations of all criteria pollutants for the previous three years as measured at the three Air Resources Board certified monitoring stations located closest to the project site, and an analysis of whether this data is representative of conditions at the project site. The applicant may substitute an explanation as to why information from one, tow, or all stations is either not available or unnecessary.	Section 4.1.5.5 Background Air Quality Table 4.1-11. Local Ambient Air Quality Data
(g)(8)(H)	One year of meteorological data collected from either the Federal Aviation Administration Class 1 station nearest to the project or from the project site, or meteorological data approved by the California Air Resources Board or the local air pollution district.	Section 4.1.5.5 Background Air Quality Table 4.1-11. Local Ambient Air Quality Data
(g)(8)(h)(i)	If the data is collected from the project site, the applicant shall demonstrate compliance with the requirements of the U.S. Environmental Protection Agency document entitled "On-Site Meteorological Program Guidance for Regulatory Modeling Applications" (EPA - 450/4-87-013 (August 1995)), which is incorporated by reference in its entirety.	Not applicable to the Project.
(g)(8)(h)(ii)	The data shall include quarterly wind tables and wind roses, ambient temperatures, relative humidity, stability and mixing heights, upper atmospheric air data, and an analysis of whether this data is representative of conditions at the project site.	Appendix 4.1A, Emissions Calculations
(g)(8)(I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following:	Section 4.1.6 Air Quality Analyses
(g)(8)(I)(i)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant impacts of project construction activities on ambient air quality conditions, including fugitive dust (PM10) emission from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NOx), sulfur dioxides (SO2), carbon monoxide (CO), and particulate matter less than 10 microns in diameter (PM10) and particulate matter less than 2.5 microns in diameter (PM2.5)] from construction-related equipment;	Section 4.1.6 Air Quality Analyses

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(8)(I)(ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NOx, SO2, CO and PM10 and PM2.5) impacts on ambient air quality conditions of the project during typical (normal) operation, and during shutdown and startup modes of operation. Identify and include in the modeling of each operating mode the estimated maximum emissions rates and the assumed meteorological conditions; and	Section 4.1.6 Air Quality Analyses
(g)(8)(I)(iii)	A protocol for cumulative air quality modeling impacts analysis of the project's typical operating mode in combination with other stationary emissions sources within a six mile radius which have received construction permits but are not yet operational, or are in the permitting process. The cumulative inert pollution impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard.	Section 4.1.6 Air Quality Analyses
(g)(8)(I)(iv)	An air dispersion modeling analysis of the impacts of the initial commissioning phase emissions on state and federal ambient air quality standards for NOx, SO2, CO, PM10 and PM2.5.	Not applicable to the Project.
(g)(8)(J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information:	Not applicable to the Project.
(g)(8)(J)(i)	The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air districts), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and	Not applicable to the Project.
(g)(8)(J)(ii)	Potential offset sources, including location, and quantity of emission reductions.	Not applicable to the Project.
(g)(8)(K)	A detailed description of the mitigation, if any, which an applicant may propose, for all project impacts from criteria pollutants that currently exceed state or federal ambient air quality standards, but are not subject to offset requirements under the district's new source review rule.	Not applicable to the Project.
(g)(9) Public Health (A)	An assessment of the potential risk to human health from the project's hazardous air emission using the Air Resources Board Hotspots Analysis and Reporting Program (HARP) (Health and Safety Code §§ 44360-	Section 4.9 Public Health Section 4.9.2 Environmental Analysis

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	44366) or its successor and Approved Risk Assessment Health Values. These values shall include the cancer potency values and noncancer reference exposure to levels approved by the Office of Environmental Health Hazard Assessment (OEHHA Guidelines, Cal-EPA 2005).	
(g)(9)(B)	A list of the input data and output results, in both electronic and print formulas, used to prepare the HARP health risk assessment.	Section 4.9.1 Affected Environment Section 4.9.2 Environmental Analysis Appendix 4.9A Air Dispersion Receptors Appendix 4.9B Detailed HRA Results
(g)(9)(C)	Identification of available health studies through the local public health department concerning the potentially affected population(s) within a six-mile radius of the proposed power plant site related to respiratory illnesses, cancers, or related diseases.	Section 4.9.1 Affected Environment Appendix 4.9A Air Dispersion Receptors
(g)(9)(D)	A map showing sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).	Section 4.9.1 Affected Environment
(g)(9)(E)	For purposes of this section, the following definitions apply:	Section 4.9.1 Affected Environment
(g)(9)(E)(i)	A sensitive receptor refers to infants and children, the elderly, and the chronically ill, and any other member of the general population who is more susceptible to the effects of the exposure than the population at large.	Section 4.9.1 Affected Environment
(g)(9)(E)(ii)	An acute exposure is one which occurs over a time period of less than or equal to one (1) hour.	Section 4.9.1 Affected Environment
(g)(9)(E)(iii)	A chronic exposure is one which is greater than twelve (12) percent of a lifetime of seventy (70) years.	Section 4.9.1 Affected Environment
(g)(10) Hazardous Materials Handling (A)	A list of all materials used or stored on-site which are hazardous are acutely hazardous, as defined in Title 22, California Code of Regulations, § 66261.20 et seq., and a discussion of the toxicity of each material.	Section 4.5.1.2 Hazardous Materials Use and Storage Table 4.5-1 Hazardous Materials Use During Construction and Operation
(g)(10)(B)	A map at a scale of 1:24,000 depicting the location of schools, hospitals, day-care facilities, and long-term health care facilities, within the area potentially affected by any release of hazardous materials.	Figure 4.5-1 Sensitive Receptors
(g)(10)(C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Section 4.5.1.2 Hazardous Materials Use and Storage

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(10)(D)	The protocol that will be used in modeling potential consequences of accidental releases that could result in off-site impacts. Identify the model(s) to be used, a description of all input assumptions, including meteorological conditions. The results of the modeling analysis can be substituted after the application is complete.	Section 4.5.2.4 Accidental Release Hazards
(g)(10)(E)	A discussion of whether a risk management plan (Health and Safety Code § 25531 et seq.) will be required, and if so, the requirements that will likely be incorporated into the plan.	Section 4.5.2.4 Accidental Release Hazards
(g)(10)(F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Section 4.5.4 Mitigation Measures
(g)(10)(G)	A discussion of the fire and explosion risks associated with the project.	Section 4.17 Wildfire and Fire Prevention
(g)(11) Worker Safety (A)	A description of the safety training programs which will be required for construction and operation personnel.	Section 4.16.1.3 Training and Safety Programs
(g)(11)(B)	A complete description of the fuel handling system and the fire suppression system.	Section 4.16.1.4, Fire Protection Section 4.17 Wildfire and Fire Prevention
(g)(11)(C)	Provide draft outlines of the Construction Health and Safety program and the Operation Health and Safety Program, as follows: Construction Health and Safety Program:	Section 4.16.1.3.1, Construction Health and Safety Program
(g)(11)(C)	Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509)	Section 4.16.1.3.1, Construction Health and Safety Program
(g)(11)(C)	Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920)	Section 4.16.1.3.1, Construction Health and Safety Program
(g)(11)(C)	Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522)	Section 4.16.1.3.1, Construction Health and Safety Program
(g)(11)(C)	Operation Health and Safety Program: Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203)	Section 4.16.1.3.2, Operations Health and Safety Program
(g)(11)(C)	Fire Prevention Plan (8 Cal. Code Regs., § 3221)	Section 4.16.1.3.2, Operations Health and Safety Program
(g)(11)(C)	Emergency Action Plan (8 Cal. Code Regs., § 3220)	Section 4.16.1.3.2, Operations Health and Safety Program

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(11)(C)	Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411)	Section 4.16.1.3.2, Operations Health and Safety Program
(g)(12) Waste Management (A)	A Phase I Environmental Site Assessment (ESA) for the proposed power plant site using methods prescribed by the American Society for Testing and Materials (ASTM) document entitled "Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process" (Designation: E 1527-93, May 1993), which is incorporated by reference in its entirety; or an equivalent method agreed upon by the applicant and the CEC staff that provides similar documentation of the potential level and extent of site contamination. The Phase I ESA shall have been completed no earlier than one year prior to the filing of the application.	Appendix 4.5A, Phase I ESA Section 4.14.1.1 Site Investigations
(g)(12)(B)	A description of each waste stream estimated to be generated during project construction and operation, including origin, hazardous or nonhazardous classification pursuant to Title 22, California Code of Regulations, § 66261.20 et seq., chemical composition, estimated annual weight or volume generated, and estimated frequency of generation.	Section 4.14.1.2 Project Waste Generation
(g)(12)(C)	A description of all waste disposal sites which may feasibly be used for disposal of project wastes. For each site, include the name, location, classification under Title 23, California Code of Regulations, § 2530 et seq., the daily or annual permitted capacity, daily or annual amounts of waste currently being accepted, the estimated closure date and remaining capacity, and a description of any enforcement action taken by local or state agencies due to waste disposal activities at the site.	Section 4.14.2.3 Solid Waste Disposal
(g)(12)(D)	A description of management methods for each waste stream, including methods used to minimize waste generation, length of on- and off-site waste storage, re-use and recycling opportunities, waste treatment methods used, and use of contractors for treatment.	Section 4.14.4 Mitigation Measures
(g)(13) Biological Resources (A)	A regional overview and discussion of terrestrial and aquatic biological resources, with particular attention to sensitive biological resources within ten (10) miles of the project. In the discussion include a list of the USGS topographic quadrangle(s) utilized to search records from the California	Section 4.2.1 Affected Environment Figure 4.2-1 Jurisdictional Delineation Results Figure 4.2-2 Protected Areas Figure 4.2-3 Sensitive Habitat Types

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	Natural Diversity Database (CNDDB), and a citation which includes the date the CNDDB was accessed. Include a map at a scale of 1:6,000 (under confidential cover) and at 1:350,000 (for public) showing sensitive biological resource location(s) in relation to the project site and related facilities and any boundaries of a local Habitat Conservation Plan or similar open space land use plan or designation. Label the biological resources and survey areas as well as the project facilities. Sensitive biological resources include the following:	Figure 4.2-4 Critical Habitat Figure 4.2-5 Least Bell's Survey Area Figure 4.2-6 Biological Resources Figure 4.2-7 Southern Subregion Orange County HCP Figure 4.2-8 Vegetation
(g)(13)(i)	species listed under state or federal Endangered Species Acts;	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(A)(ii)	species receiving consideration during environmental review under CEQA Guidelines 14 CCR Section 15380;	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(A)(iii)	species identified as state Fully Protected;	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(A)(iv)	species covered by Migratory Bird Treaty Act;	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(A)(v)	species and habitats identified by local, state, and federal agencies as needing protection, including but not limited to those identified by the CNDDB, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission or other responsible agency;	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(A)(vi)	locally significant species that are rare or uncommon in a local context such as county or region or is so designated in local or regional plans, policies, or ordinances;	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(A)(vii)	plant species listed as rare under the California Native Plant Protection Act;	Section 4.2.1.7.1 Sensitive and Special-Status Plant Species
(g)(13)(A)(viii)	established native resident or migratory wildlife corridors or wildlife nursery sites.	Section 4.2.1.7 Sensitive and Special-Status Species
(g)(13)(B)	Include a list of the species and habitat(s) actually observed and those with a potential to occur within 1 mile of the project site and 1,000 feet from the outer edge of linear facility corridors. Maps or aerial photographs shall include the following:	Section 4.2.1.7 Sensitive and Special-Status Species Appendix 4.2A, Potential to Occur Tables

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(13)(B)(i)	Detailed maps at a scale of 1:6,000 or color aerial photographs taken at a recommended scale of 1-inch equals 500 feet (1:6,000) with a 30 percent overlap (provided under confidential cover) and 1:350,000 (for public viewing) that show the proposed project site and related facilities, biological resources including, but not limited to, those found during project-related field surveys and in records from the CNDDB, and the associated areas where biological surveys were conducted. Label the biological resources and survey areas as well as the project facilities.	Figure 4.2-6 Biological Resources
(g)(13)(B)(ii)	Provide an aerial map of the isopleth graphic depicting modeled nitrogen deposition rates. The geographical extent of the nitrogen deposition map(s) should include the entire plume and a radius of 6 (six) miles from the source, specifically identifying acres of sensitive habitat(s) within each isopleth. Modeling parameters and files shall be provided.	Not applicable to the Project.
(g)(13)(B)(iii)	An aerial photo depicting state and federal jurisdictional features including state waters and wetlands delineated on maps at a scale of (1:2,400) showing any potential jurisdictional features delineated out to 250 feet from the edge of disturbance if jurisdictional features occur within 250 feet of the project site and/or related facilities that would be included with a US Army Corps of Engineers Section 404 Permit application, Regional Water Quality Control Board (RWQCB) application, or California Department of Fish and Wildlife Section 1600 et seq. permit requirements. For projects proposed to be located within the coastal zone, also provide aerial photographs or maps as described above that identify wetlands as defined by the Coastal Act and under the jurisdiction of the California Coastal Commission.	Figure 4.2-1 Jurisdiction Delineation Results
(g)(13)(B)(iv)	Provide Geographic Information System (GIS) data (shape and/or geodatabase files) for all data mapped for biological resources.	Provided to the Commission under separate cover.
(g)(13)(C)	A discussion of the biological resources at the proposed project site and related facilities. Related facilities include, but are not limited to, laydown and parking areas, gas and water supply pipelines, transmission lines, and roads. The discussion shall address the distribution of vegetation community types, denning or nesting sites, population concentrations,	Section 4.2.1 Affected Environment Section 4.2.2 Environmental Analysis

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	migration corridors, breeding habitats, and other appropriate biological resources including the following:	
(g)(13)(C)(i)	A list of sensitive species and habitats with a potential to occur (as defined in (A) above) and include status (state, federal, California Native Plant Society, global rank, state rank).	Appendix 4.2A, Potential to Occur Tables
(g)(13)(C)(ii)	Perform nitrogen deposition modeling including the complete citation for references used in determining deposition rates and location. Specify the amount of total annual nitrogen deposition in kilograms of nitrogen per hectare per year (kg N/ha/yr) in special status species habitats and vegetation types for wet and dry deposition. Describe habitat and species potentially affected.	Not applicable to the Project
(g)(13)(D)	A description and results of all field studies and specialized surveys (e.g., focused and protocol) used to provide biological baseline information about the project site and associated facilities. Include copies of the CNDDB records and field survey forms completed by the applicant's biologist(s). Identify the date(s) the surveys were completed, methods used to complete the surveys, and the name(s) and qualifications of the biologists conducting the surveys. Include:	Section 4.2.1.5 Biological Surveys
(g)(13)(D)(i)	Current biological resources surveys conducted using appropriate field survey protocols (include references) during the appropriate season(s). State and federal agencies with jurisdiction shall be consulted for field survey protocol guidance prior to surveys if a protocol exists.	Section 4.2.1.5 Biological Surveys
(g)(13)(D)(ii)	If the project or any related facilities could impact federal or state jurisdictional wetland, provide completed Army Corps of Engineers wetland delineation forms and/or determination of wetland status pursuant to Coastal Act or CDFW requirements, as applicable to the location, name(s) and qualifications of biologist(s) completing the delineation, the results of the delineation and a table showing jurisdictional features including state waters and wetland acreage amounts to be impacted.	Not applicable to the Project
(g)(13)(E)	Impacts discussion of all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, closure, and decommissioning. Discussion	Section 4.2.2 Environmental Analysis

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	shall also address sensitive species habitat impacts from air emissions (i.e. nitrogen deposition).	
(g)(13)(F)	A discussion of all feasible mitigation measures and an evaluation of their anticipated efficacy in reducing the level of impacts, including, but not limited to the following:	Section 4.2.2 Environmental Analysis
(g)(13)(F)(i)	All measures proposed to avoid and/or reduce adverse impacts to biological resources.	Section 4.2.4 Avoidance and Minimization Measures
(g)(13)(F)(ii)	All off-site habitat mitigation such as habitat improvement or compensation including management, and an identification of appropriate agency contacts for coordination and verification of proposed habitat mitigation measures.	Not applicable to the Project
(g)(13)(F)(iii)	Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Section 4.2.4 Avoidance and Minimization Measures
(g)(13)(G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	Section 4.2.4 Avoidance and Minimization Measures
(g)(13)(H)	Submit copies of any preliminary correspondence between the project applicant and state and federal resource agencies regarding whether federal or state permits from other agencies such as the U. S. Fish and Wildlife Service, the National Marine Fisheries Service, the U.S. Army Corps of Engineers, the CDFW, and the RWQCB will be required for the proposed project.	Not applicable to the Project
(g)(14) Water Resources (A)	All the information required to apply for the following permits, if applicable, including:	Not applicable to the Project
(g)(14)(A)(i)	Waste Discharge Requirements; National Pollutant Discharge Elimination System Permit; and/or a Section 401 Certification or Waiver from the appropriate Regional Water Quality Control Board (RWQCB);	Not applicable to the Project
(g)(14)(A)(ii)	Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Not applicable to the Project
(g)(14)(A)(iii)	Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Not applicable to the Project

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(14)(A)(iv)	Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	Not applicable to the Project
(g)(14)(B)	A detailed description of the hydrologic setting of the project. The information shall include a narrative discussion and on maps at a scale of 1:24,000 (or appropriate scale approved by staff), describing the chemical and physical characteristics of the following nearby water bodies that may be affected by the proposed project:	Section 4.15.1 Affected Environment
(g)(14)(B)(i)	Ground water bodies and related geologic structures;	Section 4.15.1 Affected Environment
(g)(14)(B)(ii)	Surface water bodies;	Section 4.15.1 Affected Environment
(g)(14)(B)(iii)	Water inundation zones, such as the 100-year flood plain and tsunami run-up zones;	Section 4.15.1 Affected Environment
(g)(14)(B)(iv)	Flood control facilities (existing and proposed); and	Section 4.15.1 Affected Environment
(g)(14)(B)(v)	Groundwater wells within ½ mile if the project will include pumping.	Not applicable to the Project
(g)(14)(C)	A description of the water to be used and discharged by the project. This information shall include:	Section 4.15.1.5 Water Supply
(g)(14)(C)(i)	Source(s) of the primary and back-up water supplies and the rationale for their selection;	Section 4.15.1.5 Water Supply
(g)(14)(C)(ii)	The expected physical and chemical characteristics of the source and discharge water(s) including identification of both organic and inorganic constituents before and after any project-related treatment. For source waters with seasonal variation, provide seasonal ranges of the expected physical and chemical characteristics. Provide copies of background material used to create this description (e.g., laboratory analysis);	Section 4.15.1.5 Water Supply Section 4.15.1.6 Wastewater Collection, Treatment, Discharge and Disposal
(g)(14)(C)(iii)	Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project;	Section 4.15.1.5 Water Supply Section 4.15.1.6 Wastewater Collection, Treatment, Discharge and Disposal Section 4.15.1.7 Stormwater
(g)(14)(C)(iv)	A detailed description of all facilities to be used in water conveyance (from primary source to the power plant site), water treatment, and wastewater discharge. Include a water mass balance diagram;	Not applicable to the Project

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(14)(C)(v)	For all water supplies intended for industrial uses to be provided from public or private water purveyors, a letter of intent or will-serve letter indicating that the purveyor is willing to serve the project, has adequate supplies available for the life of the project, and any conditions or restrictions under which water will be provided. In the event that a will-serve letter or letter of intent cannot be provided, identify the most likely water purveyor and discuss the necessary assurances from the water purveyor to serve the project.	Not applicable to the Project
(g)(14)(C)(vi)	For all water supplied which necessitates transfers and/or exchanges at any point, identify all parties and contracts/agreements involved, the primary source for the transfer and/or exchange water (e.g., surface water, groundwater), and provide the status of all appropriate agencies' approvals for the proposed use, environmental impact analysis on the specific transfers and/or exchanges required to obtain the proposed supplies, a copy of any agency regulations that govern the use of the water, and an explanation of how the project complies with the agency regulation(s);	Not applicable to the Project
(g)(14)(C)(vii)	Provide water mass balance and heat balance diagrams for both average and maximum flows that include all process and/or ancillary water supplies and wastewater streams. Highlight any water conservation measures on the diagram and the amount that they reduce water demand.	Not applicable to the Project
(g)(14)(C)(viii)	For all projects which have a discharge, provide a copy of the will-serve letter, permit or contract with the public or private entity that will be accepting the wastewater and contact storm water from the project. The letter, permit or contract, if possible, shall identify the discharge volumes and the chemical or physical characteristics under which the wastewater and contact storm water will be accepted. In the event that a will-serve letter, permit, or contract cannot be provided, identify the most likely wastewater/storm water entity and discuss why the applicant was unable to secure the necessary assurances to serve the project's wastewater/storm water needs. Also, discuss the term of the wastewater service to the project, whether the wastewater entity has adequate permit capacity for the volume of wastewater from the project	Section 4.15.1.7 Stormwater Section 4.15.2.5 Stormwater Runoff and Drainage

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	and has adequate permit levels for the chemical/physical characteristics of the project's wastewater and storm water for the life of the project, and any issues or conditions/restrictions the wastewater entity may impose on the project.	
(g)(14)(D)	Identify all project elements associated with stormwater drainage, including a description of the following:	Section 4.15.1.7 Stormwater Section 4.15.2.5 Stormwater Runoff and Drainage
(g)(14)(D)(i)	Monthly and/or seasonal precipitation and stormwater runoff and drainage patterns for the proposed site and surrounding area that may be affected by the project's construction and operation.	4.15.1 Affected Environment
(g)(14)(D)(ii)	Drainage facilities and the design criteria used for the plant site and ancillary facilities, including but not limited to capacity of designed system, design storm, and estimated runoff;	Section 4.15.1.7 Stormwater Section 4.15.2.5 Stormwater Runoff and Drainage
(g)(14)(D)(iii)	All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post- construction; and	Section 4.15.1.7 Stormwater Section 4.15.2.5 Stormwater Runoff and Drainage Appendix 4.15A Stormwater Management Plan Appendix 4.15B Water Quality Management Plan
(g)(14)(D)(iv)	A copy of applicable regional and local requirements regulating the drainage systems, and a discussion of how the project's drainage design complies with these requirements.	Section 4.15.1.7 Stormwater Section 4.15.2.5 Stormwater Runoff and Drainage Appendix 4.15A Stormwater Management Plan Appendix 4.15B Water Quality Management Plan
(g)(14)(E)	An impacts analysis of the proposed project on water resources and a discussion of conformance with water- related Laws, Ordinances, Regulations, and Standards (LORS) and policy. This discussion shall include:	Section 4.15.1.7 Stormwater Section 4.15.2.5 Stormwater Runoff and Drainage 4.15.5 Laws, Ordinance, Regulations, and Standards Appendix 4.15A Stormwater Management Plan Appendix 4.15B Water Quality Management Plan
(g)(14)(E)(i)	The effects of project demand on the water supply and other users of this source, including, but not limited to, water availability for other uses	Section 4.15.1.5 Water Supply Section 4.15.2.3 Water Supply

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	during construction or after the power plant begins operation, consistency of the water use with applicable RWQCB basin plans or other applicable resource management plans, and any changes in the physical or chemical conditions of existing water supplies as a result of water use by the power plant;	
(g)(14)(E)(ii)	If the project will pump groundwater, an estimation of aquifer drawdown based on a computer modeling study shall be conducted by a professional geologist and include the estimated drawdown on neighboring wells within 0.5 mile of the proposed well(s), any effects on the migration of groundwater contaminants, and the likelihood of any changes in existing physical or chemical conditions of groundwater resources shall be provided;	Not applicable to the Project
(g)(14)(E)(iii)	The effects of construction activities and plant operation on water quality and to what extent these effects could be mitigated by best management practices;	Section 4.15.2.1 Water Quality Appendix 4.15B Water Quality Management Plan
(g)(14)(E)(iv)	If not using a zero liquid discharge project design for cooling and process waters, include the effects of the proposed wastewater disposal method on receiving waters, the feasibility of using pre-treatment techniques to reduce impacts, and beneficial uses of the receiving waters. Include an explanation why the zero liquid discharge process is “environmentally undesirable,” or “economically unsound.”	Not applicable to the Project
(g)(14)(E)(v)	If using fresh water, include a discussion of the cumulative impacts, alternative water supply sources and alternative cooling technologies considered as part of the project design. Include an explanation of why alternative water supplies and alternative cooling are “environmentally undesirable,” or “economically unsound.”	Not applicable to the Project
(g)(14)(E)(vi)	The effects of the project on the 100-year flood plain, flooding potential of adjacent lands or water bodies, or other water inundation zones.	Section 4.15.1.4 Flooding Potential Section 4.15.2.2 Flooding Potential
(g)(14)(E)(vii)	All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Section 4.15.1.4 Flooding Potential Section 4.15.2.2 Flooding Potential

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(15) Soils (A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include:	Figure 4.11-1 Soils
(g)(15)(A)(i)	The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil;	Section 4.11.1 Affected Environment
(g)(15)(A)(ii)	An identification of other physical and chemical characteristics of the soil necessary to allow an evaluation of soil erodibility, permeability, re-vegetation potential, and cycling of pollutants in the soil-vegetation system;	Section 4.11.1 Affected Environment
(g)(15)(A)(iii)	The location of any proposed fill disposal or fill procurement (borrow) sites; and	Not applicable to the Project
(g)(15)(A)(iv)	The location of any contaminated soils that could be disturbed by project construction.	Not applicable to the Project
(g)(15)(B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include:	Section 4.11.2 Environmental Analysis
(g)(15)(B)(i)	The quantification of accelerated soil loss due to wind and water erosion; and	Section 4.11.2 Environmental Analysis
(g)(15)(B)	The effect of power plant emissions on surrounding soil-vegetation systems.	Section 4.11.2 Environmental Analysis
(g)(16) Paleontological Resources (A)	Identification of the physiographic province and a brief summary of the geologic setting, formations, and stratigraphy of the project area. The size of the paleontological study area may vary depending on the depositional history of the region.	Section 4.8.1, Affected Environment
(g)(16)(B)	A discussion of the sensitivity of the project area described in subsection (g)(16)(A) and the presence and significance of any known paleontologic localities or other paleontologic resources within or adjacent to the project. Include a discussion of sensitivity for each geologic unit identified on the most recent geologic map at a scale of 1:24,000. Provide rationale as to why the sensitivity was assigned.	Section 4.8.1.4, Paleontological Sensitivity of the Project Site
(g)(16)(C)	A summary of all local museums, literature searches and field surveys used to provide information about paleontological resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys,	Section 4.8.1.3 Resource Inventory Results

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	
(g)(16)(D)	Information on the specific location of known paleontological resources, survey reports, locality records, and maps at a scale of 1:24,000, showing occurrences of fossil finds, if known, within a one-mile radius of the project and related facilities shall be included in a separate appendix to the Application and submitted to the Commission under a request for confidentiality, pursuant to Title 20, California Code of Regulations, § 2501 et seq.	Section 4.8.1.3.2, Results of the Paleontological Records Search and Literature Review
(g)(16)(E)	A discussion of any educational programs proposed to enhance awareness of potential impacts to paleontological resources by employees, measures proposed for mitigation of impacts to known paleontological resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontological resources.	Section 4.8.2, Environmental Analysis Section 4.8.4, Mitigation Measures
(g)(17) Geological Hazards and Resources (A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	Section 4.4.1, Affected Environment
(g)(17)(B)	A map at a scale of 1:24,000 and description of all recognized stratigraphic units, geologic structures, and geomorphic features within two (2) miles of the project site and along proposed facilities. Include an analysis of the likelihood of ground rupture, seismic shaking, mass wasting and slope stability, liquefaction, subsidence, tsunami runup, and expansion or collapse of soil structures at the plant site. Describe known geologic hazards along or crossing linear facilities.	Figure 4.4-1, Faults Figure 4.4-2, Geological Units Figure 4.4-3, Liquefaction Potential Figure 4.4-4, Landslide Susceptibility
(g)(17)(C)	A map and description of geologic resources of recreational, commercial, or scientific value which may be affected by the project. Include a discussion of the techniques used to identify and evaluate these resources.	Section 4.4.1.5 Geologic Resources of Recreational, Commercial, or Scientific Value Figure 4.4-5, Mineral Resource Zones
(g)(18) Transmission System Safety and Nuisance (A)	The locations and a description of the existing switchyards and overhead and underground transmission lines that would be affected by the proposed project.	Section 3.2 Transmission Line Description, Design, and Operation Section 3.4 Transmission Line Safety and Nuisances

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(g)(18)(B)	An estimate of the existing electric and magnetic fields from the facilities listed in (A) above and the future electric and magnetic fields that would be created by the proposed project, calculated at the property boundary of the site and at the edge of the rights of way for any transmission line. Also provide an estimate of the radio and television interference that could result from the project.	Section 3.4.2 Electrical Effects
(g)(18)(C)	Specific measures proposed to mitigate identified impacts, including a description of measures proposed to eliminate or reduce radio and television interference, and all measures taken to reduce electric and magnetic field levels.	Section 3.4.2 Electrical Effects
(g)(19) Wildfire (A)	A map showing State Responsibility Areas (SRA), as defined in Public Resources Code section 4102, relative to the proposed project.	Appendix 4.17A Fire Protection Technical Report
(g)(19)(B)	A map showing state Fire Hazard Severity Zones, as defined in 14 CCR section 1280.01, relative to the proposed project.	Appendix 4.17A Fire Protection Technical Report
(g)(19)(C)	If the project would be in the vicinity of an SRA or a Very High Fire Hazard Severity Zone, as defined in 14 CCR section 1265.00, provide:	Section 4.17.1 Affected Environment
(g)(19)(C)(i)	Local emergency response or evacuation plans and a description of how the proposed project could influence their effectiveness.	Section 4.17.2 Environmental Analysis
(g)(19)(C)(ii)	A discussion of how potential project pollutants could be contained onsite during a wildfire event.	Section 4.17.2 Environmental Analysis
(g)(19)(C)(iii)	A description of infrastructure that would be built or maintained (such as roads, fuel breaks, emergency water sources, power lines or other utilities) that may exacerbate the risk of wildfire.	Section 4.17.2 Environmental Analysis
(g)(19)(C)(iv)	Describe people or structures downslope or downstream of the proposed project that could be impacted by flooding or landslides, as a result of runoff, post-fire slope instability, or drainage changes.	Section 4.17.2 Environmental Analysis
(h) Engineering (1)(A)	A description of the site conditions and investigations or studies conducted to determine the site conditions used as the basis for developing design criteria. The descriptions shall include, but not be limited to, seismic and other geologic hazards, adverse conditions that	Section 2.1 Overview and Location

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	could affect the project's foundation, adverse meteorological and climate conditions, and flooding hazards, if applicable.	
(h)(1)(B)	A discussion of any measures proposed to improve adverse site conditions	Section 2.2 Project Components
(h)(1)(C)	A description of the proposed foundation types, design criteria (including derivation), analytical techniques, assumptions, loading conditions, and loading combinations to be used in the design of facility structures and major mechanical and electrical equipment	Section 2.2 Project Components
(h)(1)(D)(i)	For each of the following facilities and/or systems, provide a description including drawings, dimensions, surface- area requirements, typical operating data, and performance and design criteria for protection from impacts due to adverse site conditions: (i) the power generation system	Section 2.2 Project Components Appendix 2A Project Design Layout and Elevations
(h)(1)(D)(ii) and (iii) and (iv)	(ii) the heat dissipation system, (iii) The cooling water supply system, and, where applicable, pre-plant treatment procedures, (iv) The atmospheric emission control system	Not applicable to the Project
(h)(1)(D)(v)	The waste disposal system and on-site disposal sites;	Section 2.2 Project Components Section 2.3 Construction Section 2.4 Operations
(h)(1)(D)(vi) and (vii)	The noise emission abatement system; (viii) The geothermal resource conveyance and re-injection lines (if applicable);	Not applicable to the Project
(h)(1)(D)(viii)	Switchyards/transformer system; and	Section 2.2 Project Components
(h)(1)(D)(ix)	Other significant facilities, structures, or system components proposed by the applicant.	Section 2.2 Project Components
(h)(2)(A)	A discussion of the need for the additional electric transmission lines, substations, or other equipment, the basis for selecting principal points of junction with the existing electric transmission system, and the capacity and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 2.1 Overview and Location Section 2.2 Project Components Section 3.2 Transmission Line Description, Design, and Operation Section 3.3 Transmission Interconnection Studies and Interconnection Agreement
(h)(2)(B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the	Section 3.2 Transmission Line Description, Design, and Operation

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
	transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 3.3 Transmission Interconnection Studies and Interconnection Agreement
(h)(3)(A)	A discussion of the sources and availability of the fuel or fuels to be used over the estimated service life of the facilities.	Section 2.2 Project Components Section 2.3 Construction Section 2.4 Operations
(h)(3)(B)(i)	A discussion of the anticipated service life and degree of reliability expected to be achieved by the proposed facilities based on a consideration of: Expected overall availability factor, and annual and lifetime capacity factors	Section 2.2 Project Components Section 2.4 Operations
(h)(3)(B)(ii)	The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system;	Section 2.2 Project Components Section 2.4 Operations
(h)(3)(B)(iii)	Geologic and flood hazards, meteorologic conditions and climatic extremes	Section 2.2 Project Components Section 2.4 Operations
(h)(3)(B)(iii) continued	and cooling water availability;	Not applicable to the Project.
(h)(3)(B)(iv)	Special design features adopted by the applicant or resource supplier to ensure power plant reliability including equipment redundancy; and	Section 2.1 Overview and Location Section 2.2 Project Components Section 3.2 Transmission Line Description, Design, and Operation Section 3.3 Transmission Interconnection Studies and Interconnection Agreement
(h)(3)(B)(v)	For technologies not previously installed and operated in California, the expected power plant maturation period.	Not applicable to the Project.
(h)(4)(A)	Heat and mass balance diagrams for design conditions for each mode of operation.	Not applicable to the Project.
(h)(4)(B)	Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts.	Not applicable to the Project.

Opt-in Application Requirements from 20 CCR Div. 2 Ch. 5 App. B Crosswalk Matrix

Appendix B Section	Requirement	Opt-in Application Section Where Item is Addressed
(h)(4)(C)	Annual net electrical energy produced in MWh for each mode of operation including starts and shutdowns.	Section 2.2 Project Components Section 2.4 Operations
(h)(4)(D)	Number of hours the plant will be operated in each design condition in each year.	Section 2.2 Project Components Section 2.4 Operations
(h)(4)(E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	Not applicable to the Project.
(h)(4)(F)	A discussion of alternative generating technologies available for the project, including the projected efficiency of each, and an explanation why the chosen equipment was selected over these alternatives.	Section 5.5.5, Alternative Technologies
(h)(5)	Demonstration, if applicable	Not applicable to the Project.
(i)(1)(A)	Compliance with Laws, Ordinances, Regulations and Standards Tables which identify: Laws, regulations, ordinances, adopted local, regional state, and federal land use plans, leases, and permits applicable to the proposed project, and a discussion of the applicability of, and conformance with each. The table or matrix shall explicitly reference pages in the application wherein conformance, with each law or standard during both construction and operation of the facility is discussed; and	Sections 4.0 through 4.17, as applicable
(i)(1)(B)	Each agency with jurisdiction to issue applicable permits, leases, and approvals or to enforce identified laws, regulations, standards, and adopted local, regional, state, and federal land use plans, and agencies which would have permit approval or enforcement authority, but for the exclusive authority of the commission to certify sites and related facilities.	Sections 4.0 through 4.17, as applicable
(i)(2)	The name, title, phone number, address (required), and email address (if known), of an official who was contacted within each agency, and also provide the name of the official who will serve as a contact person for Commission staff.	Sections 4.0 through 4.17, as applicable
(i)(3)	A schedule indicating when permits outside the authority of the commission will be obtained and the steps the applicant has taken or plans to take to obtain such permits	Sections 4.0 through 4.17, as applicable