DOCKETED	
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Project Title:	Darden Clean Energy Project
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Document Title:	Cover Letter and CEC Opt-In Application Crosswalk Matrix_Darden Clean Energy
Description:	Cover letter to the CEC regarding the Opt-In Application for the Certification of the Darden Clean Energy Project Crosswalk matrix identifying location of CEC Appendix B requirements within the Opt-In Application (Chapters 1 through 6).
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November 6, 2023

Darden Clean Energy Project Opt-In Application

In accordance with the provisions of Title 20, California Code of Regulations, Section 1704, Appendix B, IP Darden I, LLC and Affiliates (Applicant) hereby submits this Opt-In Application, seeking authority to construct and operate the Darden Clean Energy Project (Project), on approximately 9,500 acres in western Fresno County. The Project consists of the construction, operation, and eventual repowering or decommissioning of an 1,150 megawatt (MW) solar photovoltaic (PV) facility, an up to 4,600 megawatt-hour (MWh) battery energy storage system (BESS), an up to 1,150 MW green hydrogen facility, a 34.5-500 kilovolt (kV) grid step-up substation, a 10 to 15-mile 500 kV generation intertie (gen-tie) line, a 500 kV utility switchyard along the Pacific Gas and Electric Company (PG&E) Los Banos-Midway #2 500 kV transmission line, and appurtenances.

To facilitate review of the application, the attached table indicates the locations within the application package where specific Opt-In Application requirements, including Appendix B requirements, are addressed.

Please reach out to the contacts listed below for any questions, concerns, or additional assistance as the California Energy Commission reviews the application package for the Darden Clean Energy Project. We look forward to working with you during the application process.

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Table 1 CEC Opt-In Application and Appendix B Requirements Crosswalk Matrix

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(a) Executive Summary		**Opt-In Application Chapter1, *Executive Summary***		
(1)	**Project Overview**			
(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, fuel characteristics, fuel supply routes and facilities, water supply routes and facilities, pollution control systems, and other general characteristics.	Section 1.2.2, *Project Elements*	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(B)	Identification of the location of the proposed site and related facilities by section, township, range, county, and assessor's parcel numbers.	Table 1-1, *Project Site Assessor's Parcel Numbers*	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	Section 1.2.1, *Project Location*	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(D)	A full-page color photographic reproduction depicting the visual appearance of the site prior to construction, and a full-page color simulation or artist's rendering of the site and all project components at the site, after construction.	Figure 5.5-4 through Figure 5.5-7, Section 5.5, *Visual Resources*	Visual simulations that satisfy this requirement are available in the referenced source document	CEC App_Section 5-5_Visual Resources_Darden Clean Energy
(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. Provide the direct mailing addresses for the owners and occupants of the properties contiguous to the proposed power plant, related facilities, transmission lines, or other linear facilities as shown on the latest equalized assessment roll. Provide a map showing the parcels in the notice area.	Appendix A (*Property Owners List*) includes a list of property owners and a map showing the parcels in this area.	See referenced source document	Appendix A Property Owner Information_Darden Clean Energy
(2)	**Project Schedule**			
	Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	Section 1.3, *Project Schedule*	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(3)	**Project Ownership**			
(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 1.4.1, Project Applicant, Owner, and Operator	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(B)	A list of all owners and operators of the proposed electric transmission facilities.	Section 1.4.1, *Project Applicant, Owner, and Operator*	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(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 1.4.1, *Project Applicant, Owner, and Operator*	See referenced source document	CEC App_Chapter 1_Executive Summary_Darden Clean Energy
(b) Project Description		**Opt-In Application Chapter2, *Project Description***		
(1)	**Generation Facility Description, Design, and Operation**			
(A)	Maps at a scale of 1:24,000 (1" = 2000'), (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.	Section 2.1.1, *Project Location* Figure 2-1, *Regional Location* Figure 2-2, *Project Site and Components* Appendix A, *Property Owners Information*	See referenced source documents	CEC App_Chapter 2_Project Description_Darden Clean Energy Appendix A Property Owner Information_Darden Clean Energy
(B)	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).	Figure 2-2, *Project Site and Components* Appendix F, *Project Design Layout and Elevations*	See referenced source documents	CEC App_Chapter 2_Project Description_Darden Clean Energy Appendix F Project Design Layout and Elevations_Darden Clean Energy
(C)	A detailed description of the design, methods of construction (include the depth of excavations and other ground disturbances) and operation of the facilities, specifically including the power generation, cooling, water supply and treatment, waste handling and control, pollution control, fuel handling, and safety, emergency and auxiliary systems, and fuel types and fuel use scenarios.	Section 2.1, *Generating Facility Description, Design, and Operation*	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy
(D)	A description of how the site and related facilities were selected and the consideration given to engineering constraints, site geology, environmental impacts, water, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant.	Section 2.1.17, *Generation Site and Facilities Selection* Chapter 6, *Alternatives*	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy CEC App_Chapter 6_Alternatives_Darden Clean Energy

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(2)	**Transmission Lines Description, Design, and Operation**			
(A)	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 2-2, *Project Site and Components* Figure 2-3a through Figure 2-3h, *Existing Transmission Lines Within 1 Mile of the Project Site*	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy
(B)	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.	Figures 5.5-4a through Figure 5.5-9b include existing and simulated views of the Project.	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy
(C)	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 2.2, *Transmission Lines Description, Design, and Operation*	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy
(D)	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 2.2.6, *Transmission Facilities Selection*	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy
(E)	A completed System Impact Study or signed System Impact Study Agreement with the California 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.	Section 2.2.7, *Transmission Facilities Selection* Section 2.2.1, *Affected Systems*	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy
(3)	**Applications for Geothermal Facilities**			
(A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) showing the location of the geothermal leaseholds, along with a description by section, township, range, county, and assessor's parcel numbers of the leaseholds;	Not applicable (N/A)	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(B)	Full-page color photographic reproductions of the geothermal leaseholds;	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(C)	A description of the process by which the geothermal leasehold was selected and the consideration given to engineering constraints, site geology, environmental impacts, water, steam, waste and fuel constraints, electric transmission constraints, and any other factors considered by the applicant. Include references to any environmental documents which address steam field development;	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(D)	A detailed description of the type, quality, and characteristics of the geothermal resource, including pressure and temperature flow rates, constituents and concentrations of noncondensable gases, and constituent concentrations of dissolved solids, and descriptions and concentrations of any substances potentially harmful to public health and safety or to the environment;	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(E)	Proposed locations of production and re-injection wells for the project. Include the applicant's assessment of geothermal resource adequacy, including the production history of those wells within the leaseholds dedicated to the project, including pressure decline curves as available; and	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(F)	A discussion of the potential impacts on the temperature, mineral content, and rate of flow of thermal springs affected by the project.	N/A	This project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(c) Reserved		**N/A**		
	No requirements under this section.	N/A	N/A	N/A
(d) Information for Projects Which Completed the NOI Process		**N/A**		
(1)	A copy of any study or analysis required by the terms of the Commission's Final Decision on the NOI, and a brief summary of the results of the study or analysis.	N/A	This Project has not completed the CEC's NOI process. Therefore, this section is not applicable.	N/A

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(2)	Updates of any significant information which has changed since the Commission's Final Decision on the NOI.	N/A	This Project has not completed the CEC's NOI process. Therefore, this section is not applicable.	N/A
(e) Facility Closure		**Opt-In Application Chapter 3, *Facility Closure***		
(1)	A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.	Section 3.1, *Temporary Closure* Section 3.2, *Permanent Closure*	See referenced source document	CEC App_Chapter 3_Facility Closure_Darden Clean Energy
(f) Alternatives		**Opt-In Application Chapter 6, *Alternatives***		
(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.	Chapter 6, *Alternatives*	See referenced source document	CEC App_Chapter 6_Alternatives_Darden Clean Energy
(2)	An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).	Chapter 6, *Alternatives*	See referenced source document	CEC App_Chapter 6_Alternatives_Darden Clean Energy
(g) Environmental Information		**Opt-In Application Chapter 5, *Environmental Analysis***		
(1)	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 of the mitigation. Describe the approach, list or projection or a combination, used to develop the cumulative setting for the proposed project. Include any reference materials used such as general plan or other adopted local, regional, or statewide plan. Additional requirements specific to each technical area are listed below.	All 17 sections included in Chapter 5, *Environmental Analysis*, include a subsection titled "Environmental Setting" that includes existing regional and site conditions. All 17 sections also include a subsection titled "Impact Analysis" that provides a discussion of direct, indirect, and cumulative impacts related to Project construction, operation and maintenance, and closure, in addition to required mitigation measures to reduce impacts. *Cumulative Projects* in Chapter 5, *Environmental Analysis*, describes the approach used to develop the cumulative setting and a list of cumulative projects is included in Table 5-1 with references to sources of cumulative project information.	See referenced source document	CEC App_Chapter 5_Environmental Analysis_Darden Clean Energy Chapter 5 all associated Sections: CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy CEC App_Section 5-2_Land Use_Darden Clean Energy CEC App_Section 5-3_Noise_Darden Clean Energy CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy CEC App_Section 5-5_Visual Resources_Darden Clean Energy CEC App_Section 5-6_Socioeconomics_Darden Clean Energy CEC App_Section 5-7_Air Quality_Darden Clean Energy CEC App_Section 5-8_Public Health_Darden Clean Energy CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy CEC App_Section 5-10_Worker Safety_Darden Clean Energy CEC App_Section 5-11_Waste Management_Darden Clean Energy CEC App_Section 5-12_Biological Resources_Darden Clean Energy CEC App_Section 5-13_Water Resources_Darden Clean Energy CEC App_Section 5-14_Soils_Darden Clean Energy CEC App_Section 5-15_Paleontological Resources_Darden Clean Energy CEC App_Section 5-16_Geological Hazards and Resources_Darden Clean Energy

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
				CEC App_Section 5-17_Wildfire_Darden Clean Energy
(2)	**Cultural Resources and Tribal Cultural Resources**	**Opt-In Application Section 5.1, *Cultural Resources and Tribal Cultural Resources***		
(g)(1)	...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 of the mitigation.	Section 5.1.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy
(A)	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 5.1.1, *Environmental Setting* Section 5.1.2, *Resources Inventory* Section 5.1.4.1, *Methodology*	See referenced source document	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy
(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.	Section 5.1.2, *Resources Inventory* Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices): Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 2_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 3_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 4_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 5_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 6_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 7_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 8_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 9_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-1_Volume 10_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I-2 I-3 I-4 I-5_Volume 11_Cultural Resources Technical Report_Darden Clean Energy
(B)	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.	Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(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 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.	Section 5.1.2, *Resources Inventory* Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy

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				Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(C)	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.	Section 5.1.2, *Resources Inventory* Section 5.1.2.3, *Archeological Field Survey and Results* Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents The pedestrian survey was limited to the direct Project site as access to the surrounding 200 feet buffer was not granted. The Project site is 9,500 acres and includes many adjacent landowners that are not participating in the land transaction and are not required to provide access.	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(C)	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.	Section 5.1.2, *Resources Inventory* Section 5.1.2.4, *Architectural Survey and Results* Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(C)	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:	Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source document	Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(C)	(i) The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B).	Table 5.1-1, *Previous Cultural Resource Studies in Study Area* Table 5.1-2, *Cultural Resources in Study Area* Table 5.1-3, *Archaeological Resources in the Project Survey Area* Table 5.1-4, *Build Environment Resources in the Project Survey Area* Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(C)	(ii) The survey procedures and methodology used to identify cultural resources and tribal cultural resources and a discussion of the cultural and tribal cultural resources identified by the survey.	Section 5.1.2, *Resources Inventory* Section 5.1.4.1, *Methodology* Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(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.	Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(C)	(iv) A map at a scale of 1:24,000 U.S. Geological Survey 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).	Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
				Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(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.	Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(D)	- 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. Notify the Native Americans on the NAHC list about the project, including a project description and map. - 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. - A written summary of any oral responses.	Confidential Appendix I, *Cultural Resources Technical Report*	See referenced source documents	Confidential Appendix I-1_Volume 1_Cultural Resources Technical Report_Darden Clean Energy Confidential Appendix I Volumes 1 through 11 (all associated appendices)
(E)	Include in the discussion of proposed mitigation measures required by subdivision (g)(1): (i) A discussion of measures proposed to mitigate project impacts to known cultural and tribal cultural resources; (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; (iii) Educational programs to enhance employee awareness during construction and operation to protect cultural and tribal cultural resources.	Section 5.1.4, *Impact Analysis*, Impact CUL-2, *Mitigation Measures*; Impact CUL-3, *Mitigation Measures*	See referenced source document.	CEC App_Section 5-1_Cultural Resources and Tribal Cultural Resources_Darden Clean Energy
(3)	**Land Use**	**Opt-In Application Section 5.2, *Land Use***		
(g)(1)	...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 of the mitigation.	Section 5.2.1, *Environmental Setting* Section 5.2.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(A)	A discussion of existing land uses, general plan land use designations, and current zoning districts (including any overlay districts) 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 5.2.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(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 5.2.1.5, *Physical Land Uses within the Study Area*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(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 5.2.1.7, *Recent Proposed Zone Changes and General Plan Amendments* Section 5, *Environmental Analysis* Section 5.2.4, *Cumulative Impacts*	See referenced source document. Based on a review of recent and proposed zone changes and general plan amendments, no such changes are proposed within 1 mile of the Project site or within 0.25 mile of the Project gen-tie. The Cumulative Project list includes recent and proposed projects within 15 miles of the project site, including relevant general plan amendments and zone changes.	CEC App_Section 5-2_Land Use_Darden Clean Energy
(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 5.2.5, *Laws, Ordinances, Regulations, and Standards*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(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.	Section 5.2.1, *Environmental Setting* Figure 5.2-2a through Figure 5.2-2h, *Parcels Within the Study Area* Figure 5.2-3, *Land Use Designations Within the Study Area* Figure 5.2-4, *Study Area Zoning Designations*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
		Figure 5.2-5a through Figure 5.2-5h, *Agricultural Uses Within the Study Area* Figure 5.2-6a through Figure 5.2-6h, *Farmland Mapping and Monitoring Program Designations* Figure 5.2-7a through Figure 5.2-7h, *Existing Williamson Act Contracts Within the Study Area*		
(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 5.2.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(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 linear 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 must be completed prior to the start of construction.	Section 5.2.1.2, *Existing Land Uses Within the Study Area*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(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: (i) Land classifications as shown on the Farmland Mapping and Monitoring Program's Important Farmland maps, crop types, irrigation systems, and any special cultivation practices; and (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). (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 5.2.3, *Impact Analysis*, Impact LU-4 Section 5.2.4, *Cumulative Impacts* Figure 5.2-3, *Land Use Designations Within the Study Area* Figure 5.2-4, *Study Area Zoning Designations* Figure 5.2-5a through Figure 5.2-5h, *Agricultural Uses Within the Study Area* Figure 5.2-6a through Figure 5.2-6h, *Farmland Mapping and Monitoring Program Designations* Figure 5.2-7a through Figure 5.2-7h, *Existing Williamson Act Contracts Within the Study Area*	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
(4)	**Noise**	**Opt-In Application Section 5.3, *Noise***		
(g)(1)	...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 of the mitigation.	Section 5.3.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy
(A)	A land use map which identifies 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 5.3-1, *Location of Sensitive Receptors*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy
(B)	A description of the ambient noise levels at those sites identified under subsection (g)(4)(A) which the applicant believes provide a representative characterization of the ambient noise levels in the project vicinity, and a discussion of the general atmospheric conditions, including 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 for 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 levels exceeded 10 percent, 50 percent, and 90 percent of the time, respectively) shall also be reported in units of dB(A).	Section 5.3.1, *Environmental Setting* Appendix J, *Noise Study*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy Appendix J Noise Study_Darden Clean Energy
(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 5.3.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy

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(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 5.3.3.1, *Methodology* Section 5.3.3.2, *Impact Evaluation Criteria*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy
(E)	An estimate of the project noise levels within the project site boundary during both construction and operation and the impact to the workers at the site due to the estimated noise levels.	Section 5.3.3.1, *Methodology* Section 5.3.3.2, *Impact Evaluation Criteria*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy
(F)	The audible 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 5.3.3.1, *Methodology* Section 5.3.3.2, *Impact Evaluation Criteria*	See referenced source document	CEC App_Section 5-3_Noise_Darden Clean Energy
(5)	**Traffic and Transportation**	**Opt-In Application Section 5.4, *Traffic and Transportation***		
(g)(1)	...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 of the mitigation.	Section 5.4.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy
(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 5.4-1, *Regional Transportation Facilities*	See referenced source document	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy
(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: (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; (ii) A thermal plume analysis that describes the plume's velocity; (iii) A discussion of the project's conformance with applicable Airport Land Use Compatibility Plan policies; and (iv) Copies of FAA Form 7460-1, Notice of Proposed Construction or Alteration, that were submitted or approved for any project component requiring notice.	Section 5.4.1.2, *Existing Regional and Local Transportation Facilities*	See referenced source document. The project would be located within four miles of the Agro-West Airport, which is a private airport and does not have a corresponding airport influence area or Airport Land Use Compatibility Plan policies. A discussion of conformity with FAA requirements is included in the referenced source document. A thermal plume analysis is not applicable to project activities.	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy
(C)	An evaluation of the project's potential impacts related to vehicle miles traveled (VMT) that may include: (i) The local jurisdiction's thresholds of significance; (ii) Methodologies (such as local VMT Evaluation Tool); (iii) VMT heat maps; and (iv) Transportation demand management plans and any documents supporting the project applicant's CEQA determination.	Section 5.4.3, *Impact Analysis*, Impact TRA-2	See referenced source document	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy
(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 canals in the project area affected by or serving the proposed facility. For each road identified, include the following information, where applicable: (i) Road classification and design capacity; (ii) Current daily average and peak traffic counts; (iii) Current and projected levels of service before project development, during construction, and during project operation; (iv) Weight and load limitations; (v) Estimated percentage of current traffic flows for passenger vehiclesand trucks; and (vi) An identification of any road features affecting public safety.	Section 5.4.1.2, *Existing Regional and Local Transportation Facilities* Figure 5.4-2, *Local Transportation Facilities* Section 5.4.1.3, *Existing Traffic Conditions and Level of Service* Appendix K, *Traffic and Transportation Analysis*	See referenced source documents	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy Appendix K Traffic and Transportation Analysis_Darden Clean Energy
(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: (i) Estimated one-way trip lengths for workers, deliveries, and truck haul trips generated by the construction of the project. (ii) Description of public roadways and intersections temporarily or permanently altered by construction and operation include the duration of activities.	Section 5.4.3, *Impact Analysis*, Impact TRA-1 Appendix K, *Traffic and Transportation Analysis* Appendix N, *Air Quality and Greenhouse Gas Emissions Study*	See referenced source documents. Note one-way trip lengths for deliveries and truck haul trips are available in the CalEEMod modeling data and assumptions provided in Appendix N Air Quality and Greenhouse Gas Emissions Study	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy Appendix K Traffic and Transportation Analysis_Darden Clean Energy Appendix N Volumes 1 through 4 (all associated appendices)

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				Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 1_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 2_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 3_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 4_Darden Clean Energy
(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 5.4.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-4_Traffic and Transportation_Darden Clean Energy
(6)	**Visual Resources**	**Opt-In Application Section 5.5, *Visual Resources***		
(g)(1)	...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 of the mitigation.	Section 5.5.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-5_Visual Resources_Darden Clean Energy
(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: (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: a. Any designated scenic vista and scenic resource in an adopted federal, state, county, or city government planning document, plan, or regulation. 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). c. A man-made feature or object that embodies the 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. 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 sharp in contrast?	Section 5.5.1, *Environmental Setting* Figures 5.5-1a through 5.5-1h, *Viewpoint Locations* Section 5.5.3, *Impact Analysis* Impact VIS-1	See referenced source document	CEC App_Section 5-5_Visual Resources_Darden Clean Energy
(A)	(ii) Described the existing nighttime lighting on the project site and in the vicinity.	Section 5.5.1, *Lighting* Section 5.5.3, Impact VIS-3	See referenced source document	CEC App_Section 5-5_Visual Resources_Darden Clean Energy
(B)	In accordance with CEQA Guidelines 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.	N/A	Project is not located within an “urbanized area” as defined by Public Resources Code (PRC) Section 21071.	N/A
(C)	In accordance with CEQA Guidelines Appendix G Environmental Checklist Form, I. Aesthetics c), if the project is to be constructed within a non-urbanized area provide the following: (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. A California court has said you may look to local government planning thresholds for guidance when defining the visual impact standard for the purpose of CEQA (e.g., city/county General Plan, zoning) (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. (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 “normal" lens. For each photograph provide the following information: camera type, lens focal length, viewing angle; date and time the photograph was taken, and the distance to the project site. (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).	Section 5.5.1.1, *Methodology* Figure 5.5-1a through Figure 5.5-1h, *Viewpoint Locations* Figure 5.5-3, *KOP Locations* Figure 5.5-4a through Figure 5.5-4b, *KOP 1* Figure 5.5-5a through Figure 5.5-5b, *KOP 2* Figure 5.5-6a through Figure 5.5-6b, *KOP 3* Figure 5.5-7a through Figure 5.5-7b, *KOP 4* Figure 5.5-8a through Figure 5.5-8b, *KOP 5* Figure 5.5-9a through Figure 5.5-9b, *KOP 6* Appendix L, *Visual Simulations, Methodology, and Data Sheets*	See referenced source document	CEC App_Section 5-5_Visual Resources_Darden Clean Energy Appendix L Volumes 1 through 7 (all associated appendices) Appendix L Visual Simulations Methodology and Data Sheets_Volume 1_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 2_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 3_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 4_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 5_Darden Clean Energy

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	(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. (vi) Provide a copy of the KOP photograph(s) and photo-realistic simulation(s) in an electronic file.			Appendix L Visual Simulations Methodology and Data Sheets_Volume 6_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 7_Darden Clean Energy
(D)	Show and describe the project in the landscape. Include: (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). (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. (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. (iv) Provide a project specific conceptual landscape design plan thatconforms with the city municipal code or county government code. Include: * Provide 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. * Provide the calculated total pervious surface amount for the project site include surface to be replaced, new surface, and the total area to be landscaped. (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. Include: (i) Provide a list of the project-specific luminaires, identify the design (e.g., full cutoff, semi cutoff, noncut off) 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. (ii) 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).	Figure 2-2, *Project Site and Components* Figure 2-3, *Solar Facility Site Plan* Table 5.5-1, *Project Site Components* Mitigation Measure VIS-1, *Surface Treatment Plan* Appendix L, *Visual Simulations, Methodology, and Data Sheets*	See referenced source documents No landscaping is proposed for the Project. No permanent lighting beyond intermittent security lighting is proposed for the Project.	CEC App_Section 5-5_Visual Resources_Darden Clean Energy Appendix L Volumes 1 through 7 (all associated appendices) Appendix L Visual Simulations Methodology and Data Sheets_Volume 1_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 2_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 3_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 4_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 5_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 6_Darden Clean Energy Appendix L Visual Simulations Methodology and Data Sheets_Volume 7_Darden Clean Energy
(E)	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: (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. (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). (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 ofa designate or recognized scenic vista, scenic resource, and the existing visual character or quality of public views of the site and its surroundings.	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(7)	**Socioeconomics**	**Opt-In Application Section 5.6, *Socioeconomics***		
(g)(1)	...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 of the mitigation.	Section 5.6.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-6_Socioeconomics_Darden Clean Energy
(A)	A description of the socioeconomic circumstances of the vicinity and region affected by construction and operation of the project. Include: (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; (ii) The social characteristics, including population and demographic and community trends.; (iii) Existing and projected unemployment rates; (iv) Availability of skilled workers by craft required for construction and operation of the project; (v) Availability of temporary and permanent housing and current vacancy rate; and (vi) Capacities, service standards, existing and expected use levels, and planned 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	Section 5.6.1, *Environmental Setting* Section 5.6.3, *Impact Analysis* Appendix M, *Socioeconomics Study*	See referenced source document	CEC App_Section 5-6_Socioeconomics_Darden Clean Energy Confidential Appendix M Socioeconomics Study_Darden Clean Energy

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	population of 500,000 or more, information for each school district shall include current enrollment and yearly expected enrollment by grade level groupings, excluding project-related changes, for the duration of the project construction schedule.			
(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: (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; (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; (iii) An estimate of the potential population increase caused directlyand indirectly by the project; (iv) The potential impact of population increase on housing during the construction and operations phases; (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; (vi) An estimate of applicable school impact fees; (vii) An estimate of the total construction payroll and separate estimates of the total operation payroll for permanent and short-term (contract) operations employees; (viii) An estimate of the expenditures for locally purchased materials forthe construction and operation phases of the project; and (ix) An estimate of the capital cost (plant and equipment) of the project. (x) An estimate of sales taxes generated during construction and separately during an operational year of the project. (xi) An estimate of property taxes generated during an operational year of the project. (xii) The expected direct, indirect, and induced income and employment effects due to construction, operation, and maintenance of the project. (xiii) A discussion of impacts to environmental justice populations by technical areas and whether any impacts would disproportionately affect the environmental justice populations.	Section 5.6.3, *Impact Analysis* Section 5.6.3.3, *Environmental Justice* Appendix M, *Socioeconomics Study*	See referenced source documents	CEC App_Section 5-6_Socioeconomics_Darden Clean Energy Confidential Appendix M Socioeconomics Study_Darden Clean Energy
(8)	**Air Quality**	**Opt-In Application Section 5.7, *Air Quality***		
(g)(1)	...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 of the mitigation.	Section 5.7.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy
(A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	The information necessary for the San Joaquin Valley Air Pollution Control District to complete a Determination of Compliance is included in the *Air Quality and Greenhouse Gas Emissions Study* included in Appendix N.	See referenced source document	Appendix N Volumes 1 through 4 (all associated appendices) Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 1_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 2_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 3_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 4_Darden Clean Energy
(B)	The heating value and chemical characteristics of the proposed fuels, the stack height and diameter, the exhaust velocity and temperature, the heat rate and the expected capacity factor of the proposed facility.	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	Section 5.7.3, *Impact Analysis* Impact AQ-1 Mitigation Measures AQ-1 and AQ-2	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy
(D)	A description of the cooling system, the estimated cooling tower drift rate, the rate of water flow through the cooling tower, and the maximum concentrations of total dissolved solids.	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A

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(E)	The emission rates of criteria pollutants and greenhouse gases (CO2, CH4, N2O, and SF6) from the stack, cooling towers, fuels and materials handling processes, delivery and storage systems, and from all on-site secondary emission sources.	The *Air Quality and Greenhouse Gas Emissions Study* (Appendix N of the Opt-In Application) includes emission rates of criteria pollutants and GHG for Project construction and operation.	See referenced source document	Appendix N Volumes 1 through 4 (all associated appendices) Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 1_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 2_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 3_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 4_Darden Clean Energy
(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.	See Chapter 2, *Project Description*, for a discussion of the typical operating mode for the Project components. The Project is not a stationary source facility and does not include start-up and shutdown modes. The Project's operational criteria pollutant emission rates for typical operating mode are included in Section 5.7.3, *Impact Analysis*, of Section 5.7 *Air Quality*.	See referenced source document	CEC App_Chapter 2_Project Description_Darden Clean Energy CEC App_Section 5-7_Air Quality_Darden Clean Energy
(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 equipment tests, criteria pollutant emissions, and monitoring techniques to be used during suchtests.	The Project is not a stationary source facility and does not include a planned initial commissioning phase. The Project's operational criteria pollutant emission rates for typical operating mode are included in Section 5.7.3, *Impact Analysis*, of Section 5.7 *Air Quality*.	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy
(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, two, or all stations is either not available or unnecessary.	Section 5.7.1, *Existing Ambient Air Quality*	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy
(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. (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. (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.	Section 5.7.1, *Existing Ambient Air Quality* Section 5.7.1.2, *Climate and Meteorology* Appendix N, *Air Quality and Greenhouse Gas Emissions Study*	See referenced source documents	CEC App_Section 5-7_Air Quality_Darden Clean Energy AAppendix N Volumes 1 through 4 (all associated appendices) Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 1_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 2_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 3_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 4_Darden Clean Energy
(I)	An evaluation of the project's direct and cumulative air quality impacts, consisting of the following: (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) emissions from grading, excavation and site disturbance, as well as the combustion emissions [nitrogen oxides (NOx), sulfur dioxide (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; (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 5.7.3, *Impact Analysis* Section 5.7.4, *Cumulative Impacts* Appendix N, *Air Quality and Greenhouse Gas Emissions Study*	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy Appendix N Volumes 1 through 4 (all associated appendices) Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 1_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 2_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 3_Darden Clean Energy

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	(iii) A protocol for a 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 pollutant impact analysis should assess whether estimated emissions concentrations will cause or contribute to a violation of any ambient air quality standard. (iv) an air dispersion modeling analyses 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.			Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 4_Darden Clean Energy
(J)	If an emission offset strategy is proposed to mitigate the project's impacts under subsection (g)(1), provide the following information: (i) The quantity of offsets or emission reductions that are needed to satisfy air permitting requirements of local permitting agencies (such as the air district), state and federal oversight air agencies, and the California Energy Commission. Identify by criteria air pollutant, and if appropriate, greenhouse gas; and (ii) Potential offset sources, including location, and quantity of emission reductions.	Section 5.7.3.1, *Operational Emissions* Mitigation Measure AQ-1 Table 5.7-12, *Mitigated Annual Construction Emissions*	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy
(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.	Section 5.7.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-7_Air Quality_Darden Clean Energy
(9)	**Public Health**	**Opt-In Application Section 5.8, *Public Health***		
(g)(1)	...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 of the mitigation.	Section 5.8.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-8_Public Health_Darden Clean Energy
(A)	An assessment of the potential risk to human health from the project's hazardous air emissions using the Air Resources Board Hotspots Analysis and Reporting Program (HARP) (Health and Safety Code §§ 44360- 44366) or its successor and Approved Risk Assessment Health Values. These values shall include the cancer potency values and noncancer reference exposure levels approved by the Office of Environmental Health Hazard Assessment (OEHHA Guidelines, Cal-EPA 2005).	Section 5.8.1.2, *Health Studies* Section 5.8.3, *Impact Analysis* Threshold PH-1	See referenced source document	CEC App_Section 5-8_Public Health_Darden Clean Energy
(B)	A listing of the input data and output results, in both electronic and print formats, used to prepare the HARP health risk assessment.	Appendix N, *Air Quality and Greenhouse Gas Emissions Study*	See referenced source document	Appendix N Volumes 1 through 4 (all associated appendices) Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 1_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 2_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 3_Darden Clean Energy Appendix N Air Quality and Greenhouse Gas Emissions Study_Volume 4_Darden Clean Energy
(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 5.8.1.2, *Health Studies*	See referenced source document	CEC App_Section 5-8_Public Health_Darden Clean Energy
(D)	A map showing sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).	Figure 5.8-2, *Sources, Sensitive Receptors, and PMI and MEIR Locations and Results*	See referenced source document	CEC App_Section 5-8_Public Health_Darden Clean Energy
(E)	For purposes of this section, the following definitions apply: (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. (ii) An acute exposure is one which occurs over a time period of less than or equal to one (1) hour. (iii) A chronic exposure is one which is greater than twelve (12) percent ofa lifetime of seventy (70) years.	Section 5.8.1.1, *Receptors*	See referenced source document	CEC App_Section 5-8_Public Health_Darden Clean Energy
(10)	**Hazardous Materials Handling**	**Opt-In Application Section 5.9, *Hazardous Materials Handling***		
(g)(1)	...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 of the mitigation.	Section 5.9.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(A)	A list of all materials used or stored on-site which are hazardous or 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 5.9.1.2, *Project Hazardous Materials Use*	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(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 5.9-1a through Figure 5.9-1e, *Sensitive Receptors Within 6 Miles of the Project*	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy

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(C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Section 5.9.1.2, *Project Hazardous Materials Use* Section 5.9.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(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 5.9.3, *Impact Analysis* Impact HAZ-1	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(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 5.9.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Section 5.9.3, *Impact Analysis* Impact HAZ-1	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(G)	A discussion of the fire and explosion risks associated with the project.	Section 5.9.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-9_Hazardous Materials_Darden Clean Energy
(11)	**Worker Safety**	**Opt-In Application Section 5.10, *Worker Safety***		
(g)(1)	...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 of the mitigation.	Section 5.10.1, *Environmental Setting* Section 5.10.2, *Hazard Analysis*	See referenced source document	CEC App_Section 5-10_Worker Safety_Darden Clean Energy
(A)	A description of the safety training programs which will be required for construction and operation personnel.	Section 5.10.2, Hazard Analysis	See referenced source document	CEC App_Section 5-10_Worker Safety_Darden Clean Energy
(B)	A complete description of the fuel handling system and the fire suppression system.	Section 5.10.2.4, Training and Safety Programs, *Fuel Handling and Fire Suppression*	See referenced source document	CEC App_Section 5-10_Worker Safety_Darden Clean Energy
(C)	Provide draft outlines of the Construction Health and Safety Program and the Operation Health and Safety Program, as follows: <u>Construction Health and Safety Program</u>: (i) Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1920); (ii) Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920); (iii) Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514- 1522). <u>Operation Health and Safety Program</u>: (iv) Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203); (v) Fire Prevention Plan (8 Cal. Code Regs., § 3221); (vi) Emergency Action Plan (8 Cal. Code Regs., § 3220); (vii) Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401- 3411).	Section 5.10.2, *Hazard Analysis* Table 5.10-3, *Project Construction Training Program* Table 5.10-4, *Project O&M Training Program*	See referenced source document	CEC App_Section 5-10_Worker Safety_Darden Clean Energy
(12)	**Waste Management**	**Opt-In Application Section 5.11, *Waste Management***		
(g)(1)	...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 of the mitigation.	Section 5.11.1, *Environmental Setting* Section 5.11.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-11_Waste Management_Darden Clean Energy
(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 1 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.	Section 5.11.1.1, *Site Investigations*	See referenced source documents	CEC App_Section 5-11_Waste Management_Darden Clean Energy
(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 5.11.1.3, *Project Waste Generation*	See referenced source document	CEC App_Section 5-11_Waste Management_Darden Clean Energy
(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 5.11.1.4, *Waste Disposal*	See referenced source document	CEC App_Section 5-11_Waste Management_Darden Clean Energy

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(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 5.11.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-11_Waste Management_Darden Clean Energy
(13)	**Biological Resources**	**Opt-In Application Section 5.12, *Biological Resources***		
(g)(1)	...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 of the mitigation.	Section 5.12.1, *Environmental Setting* Section 5.12.3, *Impact Analysis* Section 5.12.3, *Mitigation Measures* Appendix Q, *Biological Resources Assessment* Appendix V, *Swainson's Hawk Conservation Strategy*	See referenced source documents	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 1_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 2_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy Appendix V Swainsons Hawk Conservation Strategy_Darden Clean Energy
(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 Natural Diversity Database (CNDDB), and a citation which includes the date the CNDDM was accessed. Sensitive biological resources include the following:	Section 5.12.1, *Environmental Setting* Section 5.12.1.1, *Existing Conditions* Section 5.12.10, *References* Appendix Q, *Biological Resources Assessment* Confidential Appendix R, *Species Observed and with Potential to Occur and 10-mile CNDDB*	See referenced source documents	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 1_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 2_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy Confidential Appendix R Species Observed and with Potential to Occur and mile CNDDB_Darden Clean Energy
(A)	(i) species listed under state or federal Endangered Species Acts;	Section 5.12.1.1, *Existing Conditions* Section 5.12.3, *Impact Analysis* Table 5.12-1, *Special-Status Species Documented in or With the Potential to Occur Within the BSA*	See referenced source documents	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(A)	(ii) species receiving consideration during environmental review under CEQA Guidelines Section 15380;	Section 5.12.1.1, *Existing Conditions* Section 5.12.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(A)	(iii) species identified as state Fully Protected;	Section 5.12.1.1, *Existing Conditions* Section 5.12.3, *Impact Analysis* Table 5.12-1, *Special-Status Species Documented in or With the Potential to Occur Within the BSA*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(A)	(iv) species covered by Migratory Bird Treaty Act;	Section 5.12.5.1, *Migratory Bird Treaty Act*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(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, California Fish and Game Code, Title 14 of the California Code of Regulations, or where applicable, in Local Coastal Programs or in relevant decisions of the California Coastal Commission or other responsible agency;	Section 5.12.1.1, *Existing Conditions* Section 5.12.3, *Impact Analysis* Table 5.12-1, *Special-Status Species Documented in or With the Potential to Occur Within the BSA*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy

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(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 5.12.1.1, *Existing Conditions* Section 5.12.1.1, *Regional Sensitive or Special-Status Species*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(A)	(vii) plant species listed as rare under the California Native Plant Protection Act;	5.12.1.1, *Existing Conditions* 5.12.3, *Impact Analysis* Table 5.12-1, *Special-Status Species Documented in or With the Potential to Occur Within the BSA*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(A)	(viii) established native resident or migratory wildlife corridors or wildlife nursery sites.	5.12.1.1, *Existing Conditions* Section 5.12.3, *Impact Analysis* Impact BIO-4	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(A)	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.	Figure 5.12-2a through Figure 5.12-2g Figure 5.12-3a through Figure 5.12-3e Appendix Q, *Biological Resources Assessment* Confidential Appendix R, *Species Observed and with Potential to Occur 10-Mile CNDDB*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 1_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 2_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy Confidential Appendix R Species Observed and with Potential to Occur and mile CNDDB_Darden Clean Energy
(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.	Section 5.12.1.1, *Existing Conditions* Section 5.12.1.2, *Surveys* Section 5.12.1.3, *Sensitive Biological Resources*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(B)	Maps or aerial photographs shall include the following: (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 5.12-2a through Figure 5.12-2g Figure 5.12-3a through Figure 5.12-3e Appendix Q, *Biological Resources Assessment* Confidential Appendix R, *Species Observed and with Potential to Occur 10-Mile CNDDB*	See referenced source documents	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 1_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 2_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy Confidential Appendix R Species Observed and with Potential to Occur and mile CNDDB_Darden Clean Energy
(B)	(ii) A depiction of the extent of the thermal plume at the surface of the water if cooling water is proposed to be discharged to a water source. Provide the location for the intake and discharge structures on an aerial photograph(s) or detailed maps. Water sources include, but are not limited to, waterways, lakes, impoundments, oceans, bays, rivers, and estuaries.	N/A	This Project is not a geothermal facility. Therefore this section is not applicable.	N/A
(B)	(i) An aerial photo map 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 and non-jurisdictional wetlands features delineated out to 250 feet from the edge of disturbance if jurisdictional features wetlands 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 a California Department of Fish and Wildlife Section 1600 et seq. permit requirements. For	Figure 5.1-2a through Figure 5.12-2g, *Regional Aquatic Resources* Project GIS information to be provided under separate cover.	No water permits will be required because the Project is not anticipated to impact any jurisdictional aquatic resources.	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Biological Resources GIS Data

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	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. (ii) Provide Geographic Information System (GIS) data (shapeand/or geodatabase files) for all data mapped for biological resources.			
(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, migration corridors, breeding habitats, and other appropriate biological resources including the following:	Section 5.12.1.3, *Sensitive Biological Resources*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(C)	(ii) 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, etc.).	Section 5.12.1.1, *Existing Conditions* Section 5.12.1.3, *Sensitive Biological Resources* Table 5.12-1, *Special-status Wildlife Species Documented in or with the Potential to Occur within the BSA*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(C)	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.	N/A	This Project is not a geothermal facility. Therefore, this section is not applicable.	N/A
(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: (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. (ii) If the project or any related facilities could impact a federal or state jurisdictional or non-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.	Section 5.12.1.2, *Surveys* Appendix Q, *Biological Resources Assessment* Confidential Appendix R, *Species Observed and with Potential to Occur 10-Mile CNDDB*	See referenced source documents	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 1_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 2_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy Confidential Appendix R Species Observed and with Potential to Occur and mile CNDDB_Darden Clean Energy
(E)	Impacts discussion of the following: all impacts (direct, indirect, and cumulative) to biological resources from project site preparation, construction activities, plant operation, maintenance, closure, and decommissioning. Discussion shall also address sensitive species habitat impacts from cooling tower drift and air emissions (i.e. nitrogen deposition).	Section 5.12.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(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: (i) All measures proposed to avoid and/or reduce adverse impacts to biological resources. (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 compensation habitat management mitigation measures. (iii) Educational programs to enhance employee awareness during construction and operation to protect biological resources.	Section 5.12.3, *Impact Analysis* Section 5.12.3, *Mitigation Measures*	See referenced source document	CEC App_Section 5-12_Biological Resources_Darden Clean Energy
(G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	Section 5.12.3, *Impact Analysis* Section 5.12.3, *Mitigation Measures* Appendix Q, *Biological Resources Assessment*	See referenced source documents	CEC App_Section 5-12_Biological Resources_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 1_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 2_Darden Clean Energy Appendix Q Biological Resources Assessment_Volume 3_Darden Clean Energy

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(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.	Appendix U, *Incidental Take Permit Form*	See referenced source document	Appendix U Incidental Take Permit Form_Darden Clean Energy
(14)	**Water Resources**	**Opt-In Application Section 5.13, *Water Resources***		
(g)(1)	...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 of the mitigation.	Section 5.13.1, *Environmental Setting* Section 5.13.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(A)	All the information required to apply for the following permits, if applicable, including: (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);	Section 5.13.1.1, *Groundwater* Section 5.13.3, *Impact Analysis* Impact WAT-1 Section 5.13.7, *Permits and Permit Schedule*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(A)	(ii) Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	Section 5.13.1.2, *Surface Water* Section 5.13.3, *Impact Analysis* Impact WAT-1 Section 5.13.7, *Permits and Permit Schedule*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(A)	(iii) Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	Section 5.13.1.3, *Stormwater* Section 5.13.7, *Permits and Permit Schedule*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(A)	(iv) Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	Section 5.13.7, *Permits and Permit Schedule*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(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: (i) Ground water bodies and related geologic structures; (ii) Surface water bodies; (iii) Water inundation zones, such as the 100-year flood plain and tsunami run-up zones; (iv) Flood control facilities (existing and proposed); and (v) Groundwater wells within 1/2 mile if the project will include pumping.	Section 5.13.1.1, *Groundwater* Section 5.13.1.2, *Surface Water* Section 5.13.1.4, *Flooding and Inundation* Figure 5.13-1, *Groundwater Basins* Figures 5.13-9a through 5.13-9h, *Groundwater Well Locations*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(C)	A description of the water to be used and discharged by the project. This information shall include: (i) Source(s) of the primary and back-up water supplies and the rationale for their selection; (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); (iii) Average and maximum daily and annual water demand and waste water discharge for both the construction and operation phases of the project; (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; (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. (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);	Section 5.13.1.6, *Water Supply*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy

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	(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. (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. (ix) 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 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.			
(D)	Identify all project elements associated with stormwater drainage, including a description of the following: (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. (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; (iii) All assumptions and calculations used to calculate runoff and to estimate changes in flow rates between pre- and post-construction; and (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 5.13.1.3, *Stormwater*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(E)	An impacts analysis of the proposed project on water resources. This discussion shall include: (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 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;	Section 5.13.1.6, *Water Supply* Section 5.13.3, *Impact Analysis* Threshold WAT-2	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(E)	...and a discussion of conformance with water-related Laws, Ordinances, Regulations, and Standards (LORS) and policy…	Section 5.13.5, *LORS*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(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;	Section 5.13.1.1, *Groundwater* Section 5.13.1.6, *Water Supply* Section 5.13.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(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 5.13.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(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." (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." (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. (vii) All assumptions, evidence, references, and calculations used in the analysis to assess these effects.	Section 5.13.1.6, *Water Supply* Section 5.13.3, *Impact Analysis* Threshold WAT-1	See referenced source document	CEC App_Section 5-13_Water Resources_Darden Clean Energy
(15)	**Soils**	**Opt-In Application Section 514, *Soils***		
(g)(1)	...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 of the mitigation.	Section 5.14.1, *Environmental Setting* Section 5.14.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-14_Soils_Darden Clean Energy
(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:	Section 5.14.1, *Environmental Setting* Section 5.14.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-14_Soils_Darden Clean Energy

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	(i) The depth, texture, permeability, drainage, erosion hazard rating, and land capability class of the soil; (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; (iii) The location of any proposed fill disposal or fill procurement (borrow) sites; and (iv) The location of any contaminated soils that could be disturbed by project construction.	Figure 5.14-1a through Figure 5.14-1h, *NRCS Soils*	Project grading would be balanced across the Project. The Project does not have identified off-site fill disposal or fill procurement (borrow) sites.	
(B)	An assessment of the effects of the proposed project on soil resources and agricultural land uses. This discussion shall include: (i) The quantification of accelerated soil loss due to wind and water erosion; and (ii) The effect of power plant emissions on surrounding soil-vegetation systems.	Section 5.14.1.4, *Potential for Soil Loss and Erosion* Section 5.14.3, Impact SOI-1	See referenced source document The Project is not a power plant; therefore, no power plant emissions would occur.	CEC App_Section 5-14_Soils_Darden Clean Energy
(16)	**Paleontological Resources**	**Opt-In Application Section 5.15, *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 5.15.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-15_Paleontological Resources_Darden Clean Energy
(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 5.15.1.3, *Paleontology of the Project Site* Section 5.15.1.4, *Paleontological Sensitivity of Project Site* Appendix T, *Paleontological Resources Assessment*	See referenced source document	CEC App_Section 5-15_Paleontological Resources_Darden Clean Energy Appendix T Paleontological Resources Assessment_Darden Clean Energy
(C)	A summary of all local museums, literature searches and field surveys used to provide information about paleontologic resources in the project area described in subsection (g)(16)(A). Identify the dates of the surveys, methods used in completing the surveys, and the names and qualifications of the individuals conducting the surveys.	Section 5.15.3.1, *Methodology*	See referenced source document. Based on a review of historical and modern aerial imagery, the Project site contains no bedrock exposures and has been extensively disturbed with grading and agricultural activities. Therefore, a paleontological resources field survey was not conducted.	CEC App_Section 5-15_Paleontological Resources_Darden Clean Energy
(D)	Information on the specific location of known paleontologic 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 5.15.1.3, *Paleontology of the Project Site* Section 5.15.3.1, *Methodology* Appendix T, *Paleontological Resources Assessment*	See referenced source document	CEC App_Section 5-15_Paleontological Resources_Darden Clean Energy Appendix T Paleontological Resources Assessment_Darden Clean Energy
(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 paleontologic resources, and a set of contingency measures for mitigation of potential impacts to currently unknown paleontologic resources.	Section 5.15.3 Impact Analysis, Impact PAL-1, *Mitigation Measures*	See referenced source document	CEC App_Section 5-15_Paleontological Resources_Darden Clean Energy
(17)	**Geological Hazards and Resources**	**Opt-In Application Section 5.16, *Geological Hazards and Resources***		
(g)(1)	...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 of the mitigation.	Section 5.16.1, *Environmental Setting* Section 5.16.3, *Impact Analysis*	See referenced source document	CEC App_Section 5-16_Geological Hazards and Resources_Darden Clean Energy
(A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	Section 5.16.1, *Environmental Setting*	See referenced source document	CEC App_Section 5-16_Geological Hazards and Resources_Darden Clean Energy
(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.	Section 5.16.1.4, *Potential Geologic Hazards* Figure 5.16-1, *Surface Geology Within Two Miles of Project Site* Figure 5.16-2, *Regional Quaternary Faults*	See referenced source document	CEC App_Section 5-16_Geological Hazards and Resources_Darden Clean Energy
(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 5.16.1.5, *Geologic Resources of Recreational, Commercial, or Scientific Value*	See referenced source document	CEC App_Section 5-16_Geological Hazards and Resources_Darden Clean Energy

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		Figure 5.16-3, *Geologic Resources of Recreational, Commercial, or Scientific Value*		
(18)	**Transmission System Safety and Nuisance**	**Opt-In Application Chapter 4, *Engineering***		
(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 4.2, *Transmission System Design* Section 4.2.3, *Transmission System Safety and Nuisance* Chapter 2, *Project Description*	See referenced source document	CEC App_Chapter 4_Engineering_Darden Clean Energy CEC App_Chapter 2_Project Description_Darden Clean Energy
(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 4.2, *Transmission System Design* Section 4.2.3, *Transmission System Safety and Nuisance*	See referenced source document	CEC App_Chapter 4_Engineering_Darden Clean Energy
(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 4.2, *Transmission System Design* Section 4.2.3, *Transmission System Safety and Nuisance*	See referenced source document	CEC App_Chapter 4_Engineering_Darden Clean Energy
(19)	**Wildfire**	**Opt-In Application Section 5.17, *Wildfire***		
(A)	A map showing State Responsibility Areas (SRA) relative to the proposed project.	Figure 5.17-1, *State Responsibility Areas Within and Near the Project Site*	See referenced source document	CEC App_Section 5-17_Wildfire_Darden Clean Energy
(B)	A map showing state Fire Hazard Severity Zones relative to the proposed project.	Figure 5.17-2, *Fire Hazard Severity Zones Within and Near the Project Site*	See referenced source document	CEC App_Section 5-17_Wildfire_Darden Clean Energy
(C)	If the project would be in the vicinity of an SRA or a Very High Fire Hazard Severity Zone, provide: (i) Local emergency response or evacuation plans and a description of how the proposed project could influence their effectiveness.	Section 5.9.3, *Impact Analysis* Impact HAZ-4 of Section 5.9, *Hazardous Materials Handling* Section 5.10.2.4, *Training and Safety Programs*	See referenced source document	CEC App_Section 5-17_Wildfire_Darden Clean Energy
(C)	(ii) A discussion of how potential project pollutants could be contained onsite during a wildfire event.	Section 5.9.3, *Impact Analysis* Impact HAZ-1 Section 5.10, *Worker Safety*	See referenced source document	CEC App_Section 5-17_Wildfire_Darden Clean Energy
(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 5.17.3, *Impact Analysis* Impact WF-2	See referenced source document	CEC App_Section 5-17_Wildfire_Darden Clean Energy
(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 5.17.3, I*mpact Analysis* Impact WF-3	See referenced source document	CEC App_Section 5-17_Wildfire_Darden Clean Energy
(h) Engineering		**Opt-In Application Chapter 4, *Engineering***		
(1)	**Facility Design**			
(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 could affect the project's foundation, adverse meteorological and climate conditions, and flooding hazards, if applicable.	Section 4.1.1, *Site Conditions*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(B)	A discussion of any measures proposed to improve adverse site conditions.	Section 4.1.1, *Site Conditions* Section 4.1.2, *Improvement Measures*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(C)	A description of the proposed foundation types, design criteria (include 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 4.1.3, *Foundation Design*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(D)	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; (ii) The heat dissipation system; (iii) The cooling water supply system, and, where applicable, pre-plant treatment procedures;	Section 4.1.4, *Facility Description* Appendix F, *Project Design Layout and Elevations*	See referenced source documents.	CEC App_Chapter 4_Engineering_Darden Clean Energy Appendix F Project Design Layout and Elevations_Darden Clean Energy

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	(iv) The atmospheric emission control system; (v) The waste disposal system and on-site disposal sites; (vi) The noise emission abatement system; (vii) The geothermal resource conveyance and re-injection lines (if applicable); (viii) Switchyards/transformer systems; and (ix) Other significant facilities, structures, or system components proposed by the applicant.			
(2)	**Transmission System Design**			
(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 capability and voltage levels of the proposed lines, along with the basis for selection of the capacity and voltage levels.	Section 4.2, *Transmission System Design*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(B)	A discussion of the extent to which the proposed electric transmission facilities have been designed, planned, and routed to meet the transmission requirements created by additional generating facilities planned by the applicant or any other entity.	Section 4.2.2, *Transmission Requirements*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(3)	**Reliability**			
(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 4.3.1, *Fuel Availability*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(B)	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 lifetimecapacity factors; ▪ 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; ▪ Geologic and flood hazards, meteorologic conditions andclimatic extremes, and cooling water availability; ▪ Special design features adopted by the applicant or resource supplierto ensure power plant reliability including equipment redundancy; and ▪ For technologies not previously installed and operated in California,the expected power plant maturation period.	Section 4.3.2, *Facility Reliability*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(4)	**Efficiency**			
(A)	Heat and mass balance diagrams for design conditions for each mode of operation.	Section 4.4, *Efficiency*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(B)	Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts.	Section 4.4, *Efficiency*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(C)	Annual net electrical energy produced in MWh for each mode of operation, including starts and shutdowns.	Section 4.4, *Efficiency*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(D)	Number of hours the plant will be operated in each design condition in each year.	Section 4.4, *Efficiency*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(E)	If the project will be a cogeneration facility, calculations showing compliance with applicable efficiency and operating standards.	N/A	This Project is not a cogeneration facility. Therefore, this section is not applicable.	N/A
(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 4.4, *Efficiency*	See referenced source document.	CEC App_Chapter 4_Engineering_Darden Clean Energy
(5)	**Demonstration, if applicable**			
(A)	Justification for the request for demonstration status, based on the criteria contained in the most recently adopted Electricity Report.	N/A	This Project is not a demonstration project. Therefore, this section is not applicable.	N/A
(B)	A demonstration plan containing the following elements: (i) A description of the technology to be demonstrated; (ii) The objectives of the demonstration;	N/A	This Project is not a demonstration project. Therefore, this section is not applicable.	N/A

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	(iii) The plans for acquiring the data necessary to verify the state demonstration objectives; (iv) The schedule for implementing the demonstration tasks; (v) The expected date of commencement of commercial operation of the facility, if applicable, and (vi) A description of contingent actions to be implemented if individual demonstration tasks are technologically unsuccessful.			
(i) Compliance with Laws, Ordinances, Regulations and Standards		**Opt-In Application Chapter 5, *Environmental Analysis***		
(1)	**Tables which identify:**			
(A)	Laws, regulations, ordinances, standards, 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.	All 17 sections included in Chapter 5, *Environmental Analysis*, include a subsection titled "Laws, Ordinances, Regulations, and Standards" that includes federal, state, and local laws, ordinances, regulations and standards that pertain to the Project.	See referenced source document.	Chapter 5 all associated Sections CEC App_Chapter 5_Environmental Analysis_Darden Clean Energy
(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.	All 17 sections included in Chapter 5, *Environmental Analysis*, include a subsection titled "Agencies and Agency Contacts" that includes 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 related to the technical area covered in that section.	See referenced source document.	Chapter 5 all associated Sections CEC App_Chapter 5_Environmental Analysis_Darden Clean Energy
(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.	All 17 sections included in Chapter 5, *Environmental Analysis*, include a subsection titled "Agencies and Agency Contacts" that includes the contact information for any applicable federal, state or local agency official who have been contacted regarding the Project related to the technical area covered in that section.	See referenced source document	Chapter 5 all associated Sections CEC App_Chapter 5_Environmental Analysis_Darden Clean Energy
(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.	All 17 sections included in Chapter 5, *Environmental Analysis*, include a subsection titled "Permits and Permit Schedule" that identifies applicable permits and their schedules related to the technical area covered in that section.	See referenced source document	Chapter 5 all associated Sections CEC App_Chapter 5_Environmental Analysis_Darden Clean Energy
Article 4.1 Certification of Nonfossil-Fueled Powerplants, Energy Storage Facilities, and Related Facilities				
§ 1875.	**Scope.**			
	This Article implements Chapter 6.2 of Division 15 of the Public Resources Code related to certification of nonfossil-fueled powerplants, energy storage facilities, and related facilities, as defined in section 25545(b) of the Public Resources Code. Note: Authority cited: Sections 25213, 25218(e), and 25545.12, Public Resources Code. Note: Authority cited: Sections 25213, 25218(e), and 25545.12, Public Resources Code. Reference: Sections 25545, and 25545.1, Public Resources Code.	N/A	This application has been prepared for certification of nonfossil-fueled powerplants, energy storage facilities, and related facilities as defined in section 25545(b) of the Public Resources Code.	N/A
§ 1876.	**Filing of Opt-in Application.**			
	Applications filed under this article shall be known as "opt-in" applications. All opt-in applications shall be filed following the requirements set forth in sections 1208 and 1208.1. All opt-in applications shall be authorized and verified as set forth in section	N/A	The application shall be filed following the requirements set forth in Section 1208 and 1208.1	N/A

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	1707, Note: Authority cited:2553 Sections 25213, 25218(e), and 25545.12, Public Resources Code. Reference: Sections 25545, 25545.1, 25545.2 and 25545.4, Public Resources Code.			
§ 1876.5.	**Pre-filing Consultation.**			
	(a) At least 30 days before submitting an opt-in application under this Article, the applicant shall meet with staff to discuss information requirements for the opt-in application.	N/A	A pre-application meeting for the Project was held on September 15, 2023	N/A
	(b) Staff shall invite the local government(s) that would have had permitting authority over the site and related facility of the construction and operation of the facility but for Chapter 6.2 of Division 15 of the Public Resources Code to participate in the meeting(s) held pursuant to subdivision (a). Note: Authority cited: Sections 25213, 25218(e), and 25545.12, Public Resources Code. Reference: Sections 25545, 25545.1, 25545.2 and 25545.4, Public Resources Code.	N/A	David Randall from Fresno County was in attendance at the pre-application meeting. Fresno County would have had permitting authority over construction and operation of the Project but for Chapter 6.2 Division 15 of the Public Resources Code	N/A
§ 1877.	**Contents of Opt-in Application.**			
	(a) The opt-in application shall contain all the information specified by Appendix B and meet the general requirements set forth in section 1704(a). For categories of information contained in Appendix B not relevant to the project, the application shall include a discussion explaining why a category does not apply. If the applicant is seeking incidental take authorization as described in California Fish and Game Code section 2081(b), the application shall include the information required in California Code of Regulations title 14, section 783.2(a)(1)-(a)(10). If the applicant is seeking lake and streambed alteration authorization under Fish and Game Code Section 1602, the application shall include the information required in California Fish and Game Code sections 1602(a)(1)(A)-(F).	Appendix C, *List of Preparers* Appendix U, *Incidental Take Permit Forms*	The Applicant is seeking incidental take authorization. The information required in California Code of Regulations title 14, section 783.2(a)(1)-(a)(10) is provided Appendix U. The Applicant is not seeking lake and streambed alteration authorization under Fish and Game Code Section 1602	Appendix C List of Preparers_Darden Clean Energy Appendix U Incidental Take Permit Form_Darden Clean Energy
	(b) The opt-in application shall contain an explanation of how the facility meets one or more of the definitions of "facility" in section 25545(b).	Appendix B, *Facility Definition*	See referenced source document	Appendix B Facility Definitions_Darden Clean Energy
	(c) The opt-in application shall contain all certifications required by Public Resources Code sections 25545.3.3 and 25545.3.5. The executive director may request, and the applicant shall provide, documentation verifying any certification in the opt-in application. Unless confidential information is requested by the executive director, all supporting documentation shall be filed as a public record.	Appendix G, *PRC Section 25545.3.3 and 25545.3.5 Required Certifications*	See referenced source document	Appendix G Public Resources Code Section Certifications_Darden Clean Energy
	(d) The opt-in application shall identify and discuss whether the applicant has submitted any state or federal permit applications, for permits required prior to any construction, to other relevant state agencies with authority over the project. For any required permit that has not yet been submitted to the relevant state agency, the opt-in application shall include a plan for submitting the application and any discussions that have occurred with the relevant state agency with authority over the project.	All 17 sections included in Chapter 5, *Environmental Analysis*, include a subsection titled "Permits and Permit Schedule" that identifies applicable permits and their schedules related to the technical area covered in that section.	See referenced source document	Chapter 5 all associated Sections CEC App_Chapter 5_Environmental Analysis_Darden Clean Energy
	(e) The opt-in application shall identify whether the project is on a prohibited site as identified in Public Resources Code section 25527 or on a site designated by the California Coastal Commission under Public Resources Code section 30413(b) or on a site designated by the San Francisco Bay Conservation and Development Commission under Public Resources Code section 66645(b). For projects on such a site, the opt-in application shall include documentation of the approval of the public agency having ownership or control of the land.	Section 5.2.1.5, S*pecific Land Uses within the Study Area* of Opt-In Application Section 5.2, *Land Use*.	See referenced source document	CEC App_Section 5-2_Land Use_Darden Clean Energy
	(f) The opt-in application shall contain preliminary information identifying the overall net positive economic benefit to the local government that would have had permitting authority over the site and related facility of the construction and operation of the facility, consistent with Public Resources Code section 25545.9.	Attachment A of Appendix D, *PCR Sections 21183 and 21183.6*	See referenced source document	Appendix D Public Resources Code Section 21183 and 211836_Darden Clean Energy
	(g) The opt-in application shall include the applicant's plan or strategy, including a timeline for execution, to obtain legally binding and enforceable agreement(s) with, or that benefit, a coalition of one or more community- based organizations prior to project certification, consistent with Public Resources Code section 25545.10.	Appendix E, *Community Benefits Plan*	See referenced source document	Appendix E Community Benefits Plan_Darden Clean Energy
	(h) The opt-in application shall include a discussion of whether the project meets the requirements of Public Resources Code sections 21183 and 21183.6. Note: Authority cited: Sections 25213, 25218(e), and 25545.12, Public Resources Code. Reference: Sections 25527, 25545, 25545.1, 25545.2, 25545.3.3, 25545.3.5, 25545.9, 25545.10, 30413, and 66645, Public Resources Code.	Appendix D, *PRC Sections 21183 and 21183.6.*	See referenced source document	Appendix D Public Resources Code Section 21183 and 211836_Darden Clean Energy