DOCKETED	
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Project Title:	Fountain Wind Project
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Description:	N/A
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Organization:	Stantec Consulting Services, Inc.
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Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(a) 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.	* Executive Summary and Project Description * Wind Energy FAQs handout (docket)	See referenced source document	pd_fwp_wind_FAQs _pd_fwp_exec_sum_project_description
(B)	Identification of the location of the proposed site and related facilities by section, township, range, county, and assessor's parcel numbers.	* Executive Summary and Project Description * Project parcel APNs, section, township, range (docket)	See referenced source documents	pd_fwp_project_parcel_apns_section_township_range _pd_fwp_exec_sum_project_description
(C)	A description of and maps depicting the region, the vicinity, and the site and its immediate surroundings.	* Executive Summary and Project Description; * Shasta County Notice of Preparation, Figure 1 (Project Location); * Shasta County Initial Study: Figure 1 (Vicinity Map), Figure 2 (Project Area and Facilities Map) * Shasta County DEIR Section 2, Project Description Figure 2-1 Project Location	See referenced source documents	ceqa_fwp_notice_of_preparation ceqa_fwp_initial_study deir_fwp_2_descr_proj_and_alts
(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.	* Executive Summary and Project Description; * Existing Conditions and Post-Construction Simulations: Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5. Appendix A Figures 3-9	See referenced source documents	vis_fwp_vis_tech_report_rev2 _pd_fwp_exec_sum_project_description
(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.	* Figure of Parcels within 1,000 feet of Leasehold Area * List of Parcel Owners and Contact Information within 1,000 ft of Leasehold Area	See referenced source documents	pd_fwp_parcel_owners_and_contact_info pd_fwp_parcels_within_1000ft_fig pd_fwp_project_parcel_apns_section_township_range
(2)	**Project Schedule**			
	Proposed dates of initiation and completion of construction, initial start-up, and full-scale operation of the proposed facilities.	See Data Response	If CEC approval is obtained by Q1 2024 the project would be anticipated to start construction in Q1 2025, achieve initial start-up in Q3 of 2026, and begin full scale operation by Q1 2027	
(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.	* Executive Summary and Project Description * Memorandum of Option to Lease, recorded as Instrument 2016-0021421 in Shasta County Recorder's Office	* See referenced source documents * Fountain Wind, LLC is the project owner. The Project Site is under lease from Shasta Cascades Timberlands, LLC, successor to Oxbow Timber I, LLC; if approved, project would be operated by ConnectGen and its affiliates. As a wind project, there is no thermal host, no geothermal leasehold, no geothermal conveyance lines and no geothermal re-injection system.	pd_fwp_lease_with_oxbow_holdings _pd_fwp_exec_sum_project_description
(B)	A list of all owners and operators of the proposed electric transmission facilities.	N/A	The project does not propose to construct any electric transmission facilities.	

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(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).	See Data Response	The applicant and the owner are the same entity (Fountain Wind, LLC).	
(b) 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.	* Executive Summary and Project Description; * Shasta County Staff Report Figure 2-1 Project Location	See referenced source documents	_pd_fwp_exec_sum_project_description ceqa_fwp_shasta_county_staff_report
(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).	Shasta County DEIR Project Description Section 2 Figure 2.4a Typical Turbine Drawing	See referenced source documents	deir_fwp_2_descr_proj_and_alts
(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.	* Shasta County DEIR Project Description Section 2 Generation Facility Description, Design, and Operation; * Figure in docket	* See referenced source documents * Fuel Type: wind; * Cooling: none required; * Water supply and treatment: see Water Supply Assessment; * Pollution Control: no emissions during operation other than maintenance vehicles * Fuel handling: N/A; * Emergency and auxiliary systems: Turbines possess automatic fire suppression system and turbines themselves can be remotely curtailed using SCADA system	deir_fwp_2_descr_proj_and_alts pd_fwp_foundation_design_fig
(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.	* Executive Summary/Project Description Section 1.3 Site Layout History * Stantec Consulting Services, Inc. (Stantec). 2021. Analyses of Refinements to the Proposed Project Design Since Circulation of the Final Environmental Impact Report. September 24; * Powerpoint Presentation to Shasta County Planning Commission 6/22/21. * Powerpoint Presentation to Shasta County Board of Supervisors October 26, 2021.	See referenced source documents	pd_fwp_proj_refinement_memo_sept2021 pd_fwp_enviro_commitments_oct2021 pd_fwp_project_revisions_feb2021 pd_fwp_bos_hearing_presentation
(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).	* Executive Summary and Project Description * pp. 3.1.7-8 of Shasta County DEIR	No transmission line routes are proposed, only 34.5 kV overhead and underground collection lines within project boundaries.	_pd_fwp_exec_sum_project_description
(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.	See data response	No transmission line routes are proposed, only 34.5 kV overhead and underground ollection lines within project boundaries.	

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(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.	* Executive Summary/Project Description * pp. 3.1.7-8 of Shasta County DEIR	No transmission line routes are proposed, only 34.5 kV overhead and underground collection lines within project boundaries.	
(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	* Executive Summary/Project Description * pp. 3.1.7-8 of Shasta County DEIR	No transmission line routes are proposed, only 34.5 kV overhead and underground collection lines within project boundaries.	
(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.	* Executive Summary/Project Description * System Impact Study	See referenced source documents	pd_fwp_system_impact_study
(3)	**Applications for Geothermal Facilities**			
(A)	Maps at a scale of 1:24,000 (or appropriate map scale agreed to by staff) showing thelocation of the geothermal leaseholds, along with a description by section, township, range,county, and assessor's parcel numbers of the leaseholds;	N/A	This project is not a geothermal facility. Therefore this section is not applicable.	
(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.	
(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.	
(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.	
(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.	
(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.	
(c) Reserved				
(d) Information for Projects Which Completed the NOI Process				
(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	Opt-in applications are not subject to the NOI process. Therefore this section is not applicable.	

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(2)	**Updates of any significant information which has changed since the Commission's Final Decision on the NOI.**	N/A	Opt-in applications are not subject to the NOI process. Therefore this section is not applicable.	
(e) Facility Closure				
(1)	**A discussion of how facility closure will be accomplished in the event of premature or unexpected cessation of operations.**	Shasta County DEIR Section 2.4.7 Decommissioning and Site Restoration	At the end of the project's useful life, the project will be decommissioned. All aboveground facilities will be removed and all underground facilities will be removed to 36 inches below ground surface. The conditions of approval will also include financial assurance mechanism to cover project restoration in the event of unexpected or premature closure.	deir_fwp_2_descr_proj_and_alts
(f) 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.**	* Shasta County DEIR Section 2.5 Description of Alternatives, DEIR Section 4 Comparison of Alternatives, No Project Alternative, South of 299 Alternative, Increased Setback Alternative. * Shasta County FEIR: See RTCs T2-3, T2-4, T2-5; T5-13; T5-16; P12-18; P20-33 * Executive Summary and Project Description Section 1.2.1 Site Selection	See referenced source documents	_pd_fwp_exec_sum_project_description deir_fwp_2_descr_proj_and_alts feir_fwp_vol1
(2)	**An evaluation of the comparative engineering, economic, and environmental merits of the alternatives discussed in subsection (f)(1).**	Shasta County DEIR Section 4 Comparison of Alternatives	See referenced source documents	deir_fwp_4_comp_of_alts
(g) Environmental Information				
(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.**	* Draft and Final Environmental Impact Reports, Shasta County dated July 2020 and April 2021, respectively * DEIR Cumulative Sections: - Cumulative Impacts Analysis 3.1.3 - Aesthetics Section 3.2.4 - Air Quality Section 3.3.4 - Biological Resources Section 3.4.4 - Communications Section 3.5.4 - Cultural & Tribal Resources Section 3.6.4 - Energy Section 3.7.4 - Forestry Resources Section 3.8.4 - Geology & Soils Section 3.9.4 - Greenhouse Gases Section 3.10.4 - Hazardous Materials Section 3.11.4 - Hydrology & Water Quality Section 3.12.4 - Noise Section 3.13.4 - Transportation Section 3.14.4 - Utilities & Service Systems Section 3.15.4 - Wildfire Section 3.16.4	See referenced source documents	

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(2)	**Cultural Resources and Tribal Cultural Resources**			
(g1)	...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.	* Shasta County Initial Study at Section V (Cultural Resources); * Scoping Report (Transcript of Community Comments); * Shasta County DEIR Section 3.6 Cultural Resources; MMs 3.6-1 through 3.6-3d; * Shasta County FEIR pp. 1-14 to 1-15, Section 2.2.2 Responses to Comments from Tribal Entities and Members; * Staff Report to Shasta County Planning Commission dated 6/22/21 pp. 6-7	See referemce source documents	ceqa_fwp_initial_study ceqa_fwp_scoping_report feir_fwp_vol1 ceqa_fwp_staff_report
	Cultural resources and tribal cultural resources together comprise objects, buildings, structures, sites, features, areas, places, records, sacred places, cultural landscapes, or manuscripts, all of which may have significance according to criteria outlined in sections 21074 and 21084.2 of the Public Resources Code.	Definitions; No response required.	No response required	
(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.	* Shasta County DEIR Section 3.6.1 Cultural Resources: Setting * Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019. Section 6.1 CHRIS Record Search Results	See referenced source documents	deir_fwp_3-6_cultural_tribal_resources confidential_cul_fwp_cultural_phase_1
(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.	Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019. Section 6.1 CHRIS Record Search Results	See referenced source documents	deir_fwp_3-6_cultural_tribal_resources confidential_cul_fwp_cultural_phase_1
(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.	Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019. Appendix C. DPR Forms	See DPR forms in docket.	confidential_cul_fwp_cultural_phase_1 confidential_cul_fwp_dpr_forms

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(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. 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.	* Shasta County DEIR Cultural Resources: Table 3.6-1 Cultural Resources in the Area of Direct Impact * Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019. * Stantec, 2020a. Addendum 1: Update to The Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. March 18, 2020. * Stantec, 2020b. Addendum 2: Updated Cultural Resources Inventory Report: Tribal Coordination and Correspondence. Prepared for Fountain Wind LLC. March 23, 2020.	See referenced source documents	deir_fwp_3-6_cultural_tribal_resources confidential_cul_fwp_cultural_phase_1 confidential_cul_fwp_survey_update_addendum cul_fwp_tribal_addendum
(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.	Structures Built Before 1977 in Project Vicinity -- Figure in docket	The project is proposed on remote private land used for timber harvesting. The closest non-project structure to any project feature is more than .5 miles. In addition, turbines will be set back 2,037 (three times turbine height) from all residences. No historic architectural resources exist within .5 miles of any vertical project feature.	cul_fwp_fig_structures_built_before_1977
(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:	* Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019. * Stantec, 2020a. Addendum 1: Update to The Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. March 18, 2020.	See referenced source documents	confidential_cul_fwp_cultural_phase_1 confidential_cul_fwp_survey_update_addendum
(C)	(i) The summary from Appendix B (g)(2)(A) and the literature search results from Appendix B (g)(2)(B).	* Shasta County DEIR Section 3.6.1 Cultural Resources Setting; Section 6.1 CHRIS Record Search Results * Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019. * Stantec, 2020a. Addendum 1: Update to The Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. March 18, 2020.	See referenced source documents	deir_fwp_3-6_cultural_tribal_resources confidential_cul_fwp_cultural_phase_1 confidential_cul_fwp_survey_update_addendum

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(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.	* Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019 Section 5.0 Methods * Stantec, 2020a. Addendum 1: Update to The Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. March 18, 2020. Methods Section.	See referenced source documents	confidential_cul_fwp_cultural_phase_1 confidential_cul_fwp_survey_update_addendum
(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.	Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019	See referenced source documents	confidential_cul_fwp_cultural_phase_1
(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).	Stantec Consulting Services (Stantec), 2019. Fountain Wind Energy Project Cultural Resources Phase 1 Inventory of 4,463 Acres, Shasta County, California. Prepared for Fountain Wind LLC. December 2019 Figure 5. Recorded Resources and Isolates	See referenced source documents	confidential_cul_fwp_cultural_phase_1 confidential_cul_fwp_survey_update_addendum
(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.	See resumes in docket	Joshua Peabody, MA Erin Sherlock, MA Leven Kraushaar, MA John Nadolski, MA	cul_fwp_cultural_report_author_quals
(D)	(1) 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. (2) 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. (3) A written summary of any oral responses.	Shasta County FEIR: Responses to Comments from Tribal Representatives Section 2.2.2; NAHC request letter	All NAHC letters are provided in the docket.	feir_fwp_vol1 cul_fwp_nahc_letters
(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.	Shasta County DEIR Section 3-6 Cultural Resources Subsection 3.6.3.2 Direct and Indirect Effects of the Project: Mitigation Measures 3.6-1 through 3.6-3d	See referenced source documents	deir_fwp_3-6_cultural_tribal_resources
(3)	**Land Use**			
(g1)	...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.	* Shasta County DEIR; Setting: Section 3.8.1.2 Environmental Setting (Forestry Resources); * Shasta County DEIR Section 3.1.4 Introduction to Environmental Analysis Environmental Considerations Unaffected by the Project or Not Present in the Project Area	See referenced source documents. The project is not anticipated to have any significant land use impacts.	deir_fwp_3-8_forest_resources deir_fwp_3-1_intro_enviro_analysis

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(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:(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;	Setting: * Shasta County DEIR Section 3.8.1.2 Environmental Setting (Forestry Resources); * Shasta County DEIR: Section 3.6.1 Setting (Cultural and Tribal Cultural Resources); * DEIR Section 3.2.1 Setting (Aesthetics); * Shasta County DEIR Section 3.1.4 Introduction to Environmental Analysis Environmental Considerations Unaffected by the Project or Not Present in the Project Area	See referenced source documents. * Land ownership within the Project area is exclusively private, consisting of managed forest timberlands. An approximately 64,000-acre (100 square miles) burn scar from the 1992 Fountain Fire, which impacted the northern portions of the Project area, is still present. The Lassen National Forest lies adjacent to the southeast; other surrounding lands are privately owned. Communities in the vicinity of the Project include Burney, Moose Camp, Hillcrest, Wengler, Montgomery Creek, and Round Mountain. State Route 299 East bisects the Project area with the majority of the Project area located south of the highway. The Project area is accessible via several existing named and unnamed private roads extending from SR 299 East.	deir_fwp_3-8_forest_resourcesdeir_fwp_3-6_cultural_tribal_resourcesdeir_fwp_3-2_aestheticsdeir_fwp_3-1_intro_enviro_analysis
(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.	https://www.co.shasta.ca.us/docs/libraries/cob-docs/public-notices/ordinance-no-scc-2022-04.pdf?sfvrsn=6d94aa89_0	* On May 12, 2022, Shasta County Planning Commission recommended adoption of a resolution (2022-013) amending the Shasta County Zoning Ordinance prohibiting the development of large wind energy systems in unincorporated Shasta County. * The Shasta County Board of Supervisors adopted this zoning amendment on July 12, 2022. * https://shasta.novusagenda.com/agendapublic/CoverSheet.aspx?ItemID=5972&MeetingID=507	pd_fwp_shasta_county_wind_ban
(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	Shasta County DEIR Project Description; Shasta County DEIR Executive Summary, Table ES-1	* FAA Determination of No Hazard (July 1, 2020--not discretionary) * Lake and Streambed Alteration Agreement (EPIMS No. 18805) * Shasta County Use Permit (No. 16-007)	land_fwp_determinations_of_no_hazard pd_fwp_use_permit_application
(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.	Shasta County DEIR: Project Description, Figures 2-2 and 2-3	See referenced source documents	deir_fwp_2_descr_proj_and_alts

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(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.	* Staff Report to Shasta County Planning Commission dated 6/22/21 * Regulatory Compliance Table prepared by Applicant date October, 2022	* Shasta County Staff report dated 6/22/21 to the Planning Commission: - p. 12: "Based upon the provisions of the Zoning Plan outlined above, private energy production facilities, including wind energy systems that do not comply with the requirements for small energy wind systems, may be permitted with an approved use permit. Therefore, the processing of the use permit application filed by the applicant for the Project is consistent with the Shasta County Zoning Plan." - p. 13: ...." staff is of the opinion that the Project is consistent with the General Plan plan policies and zoning standards for the area and that the establishment, operation, and maintenance of the Project would not be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood or be detrimental or injurious to property or improvements in the neighborhood or to the general welfare of the County."	ceqa_fwp_staff_report lors_fwp_consistency_matrix
(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.	N/A	Merger of parcels not required. No structures will straddle parcel lines; roads, overhead and underground collection lines may cross parcel lines.	
(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.	* Shasta County DEIR: Agricultural Land Uses: Section 3.8.1.2 Environmental Setting (Forestry Resources); * Shasta County DEIR Expected Impacts: Section 3.8.3 Direct and Indirect Effects and Section 3.8.4 Cumulative Analysis (Forestry Resources)	* See referenced source documents. * No farmland is affected by the project. Effects on timberlands and forestry practices are outlined in the DEIR; no significant adverse impacts anticipated.	deir_fwp_3-8_forest_resources
(4)	**Noise**			
(g1)	...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.	* Shasta County DEIR Section 3.13 Noise and Vibration; * Illingworth & Rodkin, Inc. 2019. Fountain Wind Energy Project Noise Technical Report. Shasta County, California. December 20.	The project is not anticipated to have any significant noise impacts.	noise_fwp_noise_report

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(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.	* Shasta County DEIR Section 3.13 Noise and Vibration - Subsection 3.13.1.2 Environmental Setting, Sensitive Receptors Figure 3.13-2	There are few residences nearby and no hospitals, libraries, schools, or places of worship that are sensitive noise receptors in the vicinity of the project.	deir_fwp_3-13_noise_vibration
(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).	* Shasta County EIR Section 3.13 Noise and Vibration - Subsection 3.13.1.2 Environmental Setting, Noise Sources and Levels Table 3.13-2; * Illingworth & Rodkin, Inc. 2019. Fountain Wind Energy Project Noise Technical Report. Shasta County, California. December 20.	See referenced source documents	deir_fwp_3-13_noise_vibration noise_fwp_noise_report
(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.	* Shasta County DEIR Section 3.13 Noise and Vibration - Subsection 3.13.3.1 Methodology;* Illingworth & Rodkin, Inc. 2019. Fountain Wind Energy Project Noise Technical Report. Shasta County, California. December 20.	See referenced source documemts	deir_fwp_3-13_noise_vibrationnoise_fwp_noise_report
(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.	* Shasta County DEIR Section 3.13 Noise and Vibration - Subsection 3.13.3.2 Direct and Indirect Effects of the Project, Impact 3.13-1; * Illingworth & Rodkin, Inc. 2019. Fountain Wind Energy Project Noise Technical Report. Shasta County, California. December 20.	See referenced source documents	deir_fwp_3-13_noise_vibration noise_fwp_noise_report
(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.	* Shasta County DEIR Section 3.13 Noise and Vibration - Subsection 3.13.3.2 Direct and Indirect Effects of the Project, Impact 3.13-2; * Illingworth & Rodkin, Inc. 2019. Fountain Wind Energy Project Noise Technical Report. Shasta County, California. December 20.	See referenced source documents	deir_fwp_3-13_noise_vibration noise_fwp_noise_report
(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.	* Shasta County DEIR Section 3.13 Noise and Vibration - Subsection 3.13.3.3 PG&E Interconnection Infrastructure; * Illingworth & Rodkin, Inc. 2019. Fountain Wind Energy Project Noise Technical Report. Shasta County, California. December 20.	See referenced source documents	deir_fwp_3-13_noise_vibration noise_fwp_noise_report
(5)	**Traffic and Transportation**			
(g1)	...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.	* Shasta County DEIR Section 3.14 Transportation; * Westwood. 2020. Traffic Study: Fountain Wind Power, Shasta County, California. February 11.	See referenced source documents. The project is not anticipated to result in any significance traffic or transportation impacts	deir_fwp_3-14_transportation traffic_fwp_traffic_report

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(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.	* Transportation Setting: Shasta County DEIR Section 3.14 Transportation Subsections 3.14.2 Environmental Setting and Subsection 3.14.1.3 Regulatory Setting; * Maps: Westwood. 2020. Traffic Study: Fountain Wind Power, Shasta County, California. February 11. Exhibit 1 and 3.	See referenced source documents	deir_fwp_3-14_transportation traffic_fwp_traffic_report
(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.	* DEIR Section 3.14 Transportation - Subsection 3.14.1.2 Environmental Setting, Airports * FAA Forms 7460-1 in docket	The nearest airports to the Project Site are the Fall River Mills Airport, located approximately 25 miles northeast of the site, and the Redding Municipal Airport, located approximately 35 miles southwest. There are no applicable Airport Land Use Compatibility Plans because the project site is not near any airport.	deir_fwp_3-14_transportation permit_fwp_faa_determinations_of_no_hazard
(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.	Shasta County DEIR Section 3.14 Transportation Subsection 3.14.3.2 Criteria (b)	* See referenced source documents * "For the purposes of establishing a VMT threshold for this Project, the County considered CEQA Guidelines Sections 15064(b)(2) and 15064.7 regarding the development of thresholds of the significance of the Project's GHG emissions would be appropriate. Accordingly, for purposes of this Project, an impact to VMT would be significant if it would conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs." DEIR Section 3.14.2 (Significance Criteria)	

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(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 vehicles and trucks; and (vi) An identification of any road features affecting public safety.	* Shasta County DEIR Section 3.14 Transportation; * Westwood. 2020. Traffic Study: Fountain Wind Power, Shasta County, California. February 11. Figures 1 and 2 and Exhibit 1	* See referenced source documents. * Project construction will utilize regional and local roadways. The project will not affect rail lines, bike trails, airports, or bus routes. A description of road classification, design capacity, traffic counts, levels of service, weight and load limitations, traffic flows, and public safety on roadways can be found in the DEIR.	deir_fwp_3-14_transportation traffic_fwp_traffic_report
(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.	Shasta County DEIR Section 3.14 Transportation - Subsections 3.14.3.1 Methodology and 3.14.3.2 Direct and Indirect Effects of the Project	See referenced source documents	deir_fwp_3-14_transportation
(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.	* Shasta County DEIR Section 3.14 Transportation - Subsection 3.14.1.3 Regulatory Setting, Federal and State * DEIR Section 3.11 Hazardous Materials Subsection 3.11.1 Setting * Table 2-3 in DEIR Section 2.4 Project Description and Description of Alternatives Subsection 2.4.8.3	See referenced source documents	deir_fwp_3-14_transportation deir_fwp_3-11_haz_materials
(6)	**Visual Resources**			
(g1)	...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.	* Site Conditions: Shasta DEIR Section 3.2 Aesthetics Subsection 3.2.2 Setting; * Expected Impacts: - DEIR Section 3.2.4 Direct and Indirect Impacts - DEIR Section 3.2.5 Cumulative Analysis * Mitigation Measure: - MM 3.2-1 in DEIR Section 3.2.4 Direct and Indirect Effects; - EDR. 2021. Fountain Wind Farm Updated Shadow Flicker Analysis. September 13.	The project is anticipated to have a significant unavoidable impact on visual resources.	deir_fwp_3-2_aesthetics vis_fwp_shadow_flicker_rev1 vis_fwp_shadow_flicker_rev2

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(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?(ii) Described the existing nighttime lighting on the project site and in the vicinity.	* Description of existing landscape: Shasta County DEIR Section 3.2 Aesthetics Subsection 3.2.2 Setting* Designated scenic resource and natural feature: Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5. Discussions of Fountain Fire Overlook* no unique manmade features* Discussion of view obstructions: Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5.* Nighttime lighting: Shasta County EIR Section 3.2 Aesthetics Subsection 3.2.4.2. Direct and Indirect Effects of the Project Criteria (c)	The project is anticipated to have a significant unavoidable impact on visual resources. Designated visual resources within the study area and viewshed include the Fountain Fire Overlook and eligible state scenic roadways (SR 299, SR 89, and SR 44).	deir_fwp_3-2_aestheticsvis_fwp_vis_tech_report_rev1vis_fwp_vis_tech_report_rev2vis_fwp_vis_tech_report_fig2a_rev2vis_fwp_fig6-1_fountain_fire_overlook_kop
(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	The Project is not within an "urbanized area" as defined in Public Resources Code section 21071 and therefore this data request does not apply.	

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(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). (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.	* KOP map: Figure 1a and 1b (Project Location, Visual Resources, & Key Observation Points, 30-mi and 10-mi Radius) in Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5. * Chosen KOPs: Table 1 (Landscape Units and Key Observation Points) in Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5. * Simulations: Figures 3-9 in Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5.	See referenced source documents	vis_fwp_vis_tech_report_rev2

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(D)	(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 that conforms with the city municipal code or county government code. Include: a. 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. b. 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: a. 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. b. Describe reflectance, the intensity of the specular reflectance from the exterior surface of the project's large buildings, structures, and major equipment offsite to the surrounding area (e.g., the light reflected from the shiny surface). The reflectance of the object–how bright it shines–depends on the intensity of the light striking it and the materials from which it is made (e.g., glass, reinforced concrete, structural steel).	(i) turbine elevation: Figure 2-4a in Shasta County Draft EIR Section 2 Description of Project and Alternatives (ii) and (iii) finishes: Section 5.4 Potential Mitigation in Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5. (iv) landscaping: no landscape design plan is proposed (v) lighting: PDF p. 14-15; p. 24; p. 29 in Stantec Consulting Services, Inc. (Stantec). 2021. Fountain Wind Project Visual Resources Technical Report. March 5.	See referenced source documents	
(E)	(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 of a designate or recognized scenic vista, scenic resource, and the existing visual character or quality of public views of the site and its surroundings.	See data response.	The project does not include a cooling tower. Therefore this data request is not applicable.	
(7)	**Socioeconomics**			
(g1)	...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.	Economic & Planning Systems, Inc. (EPS). 2021. Fountain Wind Project Economic and Public Revenue Impact Study. March 25.	The project is anticipated to have positive socioeconomic benefits through job creation, a community benefits program and significant tax generation for Shasta County	econ_fwp_eps_economics_memo

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(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 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.	* Shasta County Staff Report dated 6/22/21 to the Planning Commission. p. 8 Statement of Overriding Considerations;* Economic & Planning Systems, Inc. (EPS). 2021. Fountain Wind Project Economic and Public Revenue Impact Study. March 25.	See referenced source documents. The project is not anticipated to have significant socioeconomic impacts.	ceqa_fwp_staff_reportecon_fwp_eps_economics_memo
(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 directly and 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 for the 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.	* Economic & Planning Systems, Inc. (EPS). 2021. Fountain Wind Project Economic and Public Revenue Impact Study. March 25. * Shasta County DEIR (Introduction to Environmental Analysis) * Shasta County DEIR Section 3.1.4.15 (Utilities and Service Systems) * CalEnviroscreen mapping tool : file:///C:/Users/aemudge/AppData/Local/Temp/Temp1_sb535dacresultsdatadictionaryf2022.zip/SB535DACresultsdatadictionary_F_2022/SB535DACresultsdatadictionary_F_2022.pdf * California Disadvantaged Communities: https://calepa.ca.gov/wp-content/uploads/sites/6/2022/05/Updated-Disadvantaged-Communities-Designation-DAC-May-2022-Eng.a.hp_-1.pdf	* Roaring Creek Rancheria --- 7.2 miles from nearest aboveground project component * Montgomery Creek Rancheria -- 2.8 miles from nearest aboveground project component * Pit River Trust Lands-- 6 miles from nearest aboveground project component * Big Bend Rancheria - 12.3 miles from nearest aboveground project component	econ_fwp_eps_economics_memo deir_fwp_3-1_intro_enviro_analysis deir_fwp_3-15_utilities_svc_systems socio_fwp_disadv_communities

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(8)	**Air Quality**			
(g1)	...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.	Shasta County DEIR Section 3.3 Air Quality Shasta County DEIR Appendix B Air Quality and Greenhouse Gas Emissions	* See referenced source documents. * The project is anticipated to have a significant and unavoidable impact on air quality during construction but a net decrease in air emissions over the life of the project	deir_fwp_3-3_air_quality
(A)	The information necessary for the air pollution control district where the project is located to complete a Determination of Compliance.	* Shasta County DEIR Section 3.3 Air Quality; * Shasta County DEIR Section 3.10 Greenhouse Gases * Shasta County DEIR Appendix B Air Quality and Greenhouse Gas Emissions	See referenced source documents	deir_fwp_3-3_air_quality deir_fwp_3-10_greenhouse_gases aq_fwp_deir_air_quality_ghg
(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	Fuel to be used is wind energy. The expected capacity factor for the project is 26-32% .	
(C)	A description of the control technologies proposed to limit the emission of criteria pollutants.	* Shasta County DEIR Section 3.3 Air Quality; * Shasta County DEIR Section 3.10 Greenhouse Gases * Shasta County DEIR Appendix B Air Quality and Greenhouse Gas Emissions	* See referenced source documents * Emissions of criteria pollutants are limited to transportation and vehicle and equipment use during construction.	deir_fwp_3-3_air_quality deir_fwp_3-10_greenhouse_gases aq_fwp_deir_air_quality_ghg
(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	The project does not need or propose a cooling tower.	
(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.	N/A	During operations, the project will be emissions-free except for maintenance vehicles.	

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(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. (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 such tests.	See data response	(i) The project is expected to employ standard operational modes for the wind turbine models that have been analyzed to date, pending outcomes from a formal equipment manufacturer site suitability and mechanical loads assessment review. Start-up modes are expected to directly follow the strength of the wind, with turbine blades spinning generally beginning at 3 m/s (6.7 mph). Shutdown modes are dependent on specific operating conditions, with the most general condition being related to an upper limit wind speed (typically around 20-25 m/s or 44.7-55.9 mph) where the turbine blades stop spinning to reduce mechanical loading. The turbine blades will resume spinning once the winds decrease to a predefined speed that is equipment-dependent. Start-up wind speeds (3 m/s) are experienced approximately 10% of the year, and shutdown wind speeds are experienced minimally, at a rate less of than 0.1% of the year. No emissions are expected. (ii) A wind project commissioning typically follows the following stages: Mechanical Completion, Commissioning Completion, SCADA Completion, and Final Acceptance. Mechanical Completion consists of the following steps: 1. The wind turbine has been installed in accordance with relevant technical specifications (including the turbine transformer). 2. The following components are installed: Tower (in 3-4 sections), nacelle, hub, 3 blades. 3. Each item in the Mechanical Completion checklist has been completed in accordance with the Turbine Supply Agreement 4. Termination of the turbine transformer has been achieved 5. The wind turbine is ready to commence Commissioning once grid energization has occurred. 6. The project owner has notified the wind turbine installer that the turbine has achieved Mechanical Completion. 7. Mechanical completion of the wind turbine is accomplished by a large team of 10-20 individuals utilizing a large crane, but can be accomplished in 1-2 days per turbine once the foundation and base turbine section is installed. Commissioning Completion consists of the following steps: 1. Start-up and commissioning activities have taken place. 2. All items on the Commissioning checklist have	

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			been completed. These consist of final functionality and operational checks of the turbine before they are released to operate. For instance the generator is aligned, some final minor connections are made, all sub-systems such as yaw and pitch are tested, the turbine is start-up and shut down in both normal and emergency modes to ensure that all connections have been properly made and all systems function normally. Commissioning is usually accomplished by a team of two technicians in 1-2 days per turbine unless unusual problems are encountered. SCADA Completion consists of the following steps: 1. SCADA system is installed and tested. 2. The central SCADA computer system is installed near the sub-station and installation is usually accomplished by a team of 2 individuals over a period of 1-2 weeks including testing. 3. SCADA connectivity is built into each turbine, so SCADA connectivity of each turbine is typically accomplished within the turbine Commissioning process. Final Acceptance consists of the following steps: 1. Successful completion of Mechanical Completion, Commissioning Completion, and SCADA Completion. 2. Completion of the Run Test. The Run Test requires that the turbines successfully run for a period of 72 hours without faulting. 3. Completion of Punch List items. The project owner inspects the turbines and develops a list of minor items that do not affect the ability of the wind turbine to safely generate electric power. Final Acceptance is contingent on final resolution of the Punch List items.	
(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.	Shasta County DEIR Section 3.3 Air Quality - Subsection 3.3.1.2 Environmental Setting, Existing Air Quality; Table 3.3-1	See reference source documents	deir_fwp_3-3_air_quality
(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	N/A	Since wind projects do not generate emissions during operation, these data are not applicable to this project.	

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	an analysis of whether this data is representative of conditions at the project site.			
(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 (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.	* Shasta County DEIR Section 3.3 Air Quality - Subsections 3.3.3.2 Direct and Indirect Effects of the Project and 3.3.4 Cumulative Analysis; * Shasta County DEIR Section 3.10 Greenhouse Gases - Subsections 3.10.3.2 Direct and Indirect Effects of the Project and 3.10.4 Cumulative Analysis; * Shasta County DEIR Appendix B Air Quality and Greenhouse Gas Emissions	See referenced source documents	deir_fwp_3-3_air_quality deir_fwp_3-10_greenhouse_gases aq_fwp_deir_air_quality_ghg
(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.	N/A	No emission offset strategy is required for this project because the project will result in a net decrease in air pollutants over time.	
(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.	Shasta County DEIR Section 3.3 Air Quality - Subsection 3.3.3.2 Direct and Indirect Effects of the Project, Impacts 3.3-1, 3.3-2b, 3.3-2c	* See referenced source documents. * Wind energy project are not considered new sources of criteria pollutants in terms of new source review by the AQMD.	deir_fwp_3-3_air_quality
(9)	**Public Health**			
(g1)	...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.	N/A	Since wind projects do not generate emissions during operation, this assessment is not applicable to this project. See Visual Resources for a discussion of shadow flicker.	

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(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).	N/A	N/A	
(B)	A listing of the input data and output results, in both electronic and print formats, used to prepare the HARP health risk assessment.	N/A	N/A	
(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.	N/A	N/A	
(D)	A map showing sensitive receptors within the area exposed to the substances identified in subsection (g)(9)(A).	N/A	N/A	
(E)	(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 of a lifetime of seventy (70) years.	N/A	Noted.	
(10)	**Hazardous Materials Handling**			
(g1)	...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.	* Existing Conditions: Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.1 Setting; * Expected Impacts: Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.3 Direct and Indirect Effects and * Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.4 Cumulative Analysis; * Shasta County DEIR Section 3.11 Hazardous Materials Mitigation Measure: MM 3.11-3.	See referenced source documents	deir_fwp_3-11_haz_materials
(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.	Table 2-3 Hazardous Materials in DEIR Section 2.4.8.3 (Description of Project and Alternatives)	See referenced source documents	deir_fwp_2_descr_proj_and_alts
(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.	N/A	Wind project not anticipated to release hazardous materials; no anticipated impacts to sensitive land uses from hazardous materials	
(C)	A discussion of the storage and handling system for each hazardous material used or stored at the site.	Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.3.2 Direct and Indirect Effects of the Project Criteria (a)	See referenced source documents	deir_fwp_3-11_haz_materials
(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.	N/A	The project design does not include quantities of hazardous materials such that may cause an accidental release into offsite areas. Therefore this analysis is not applicable to this project.	

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(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.	Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.3.2 Direct and Indirect Effects of the Project Criteria (a)	See referenced source documents	deir_fwp_3-11_haz_materials
(F)	A discussion of measures proposed to reduce the risk of any release of hazardous materials.	Shasta County DEIR Section 3.12 Hydrology and Water Quality Subsection 3.12.3 Direct and Indirect Effects MMs 3.12-1 and 3.12-2.	See referenced source documents	deir_fwp_3-12_hydrology_water_quality
(G)	A discussion of the fire and explosion risks associated with the project.	* Shasta County DEIR Section 3.16 Wildfire; * Quigley, Darin, and Syndy Zerr. 2021. Fountain Wind Project EIR Wildfire Effects Review. Letter to Shasta County Planning Commission. June 17.; * Staff Report to the Planning Commission dated 6/22/21 p. 8-9; * Fountain Wind Project Fire Safety Enhancement and Assessment. Letter for Shasta County Board of Supervisors from Darin Quigley, October 19, 2021.; * Letter from Henry Woltag to Paul Hellman, June 21, 2021 * Shasta County Scoping Report at u) Wildfire	See referenced source documents	deir_fwp_3-16_wildfirefire_quigley_zerr_fire_tech_memoceqa_fwp_staff_reportfire_fwp_quigley_bos_letterfire_fwp_woltag_letter_to_hellmanceqa_fwp_scoping_report
(11)	**Worker Safety**			
(g1)	...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.	* Shasta County DEIR MM 3.14-3 Traffic Management Plan; * Shasta County DEIR MM 3.16-2a Fire Safety	See referenced source documents. The project will comply with all worker-safety-related regulations.	ceqa_fwp_mmrp_table
(A)	A description of the safety training programs which will be required for construction and operation personnel.	* Shasta County DEIR Section 3-16 Wildfire MM 3.16-2a and 3.16-2c	See referenced source documents	deir_fwp_3-16_wildfire
(B)	A complete description of the fuel handling system and the fire suppression system.	See data response.	The project design does not include use of flammable fuel. Discussion of the turbines' fire suppression system can be found in DEIR Section 3-16 Wildfire MM 3.16-2b: Nacelle Fire Risk Reduction.	deir_fwp_3-16_wildfire
(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>: * Injury and Illness Prevention Plan (8 Cal. Code Regs., § 1509); * Fire Protection and Prevention Plan (8 Cal. Code Regs., § 1920); * Personal Protective Equipment Program (8 Cal. Code Regs., §§ 1514-1522). <u>Operation Health and Safety Program</u>: * Injury and Illness Prevention Program (8 Cal. Code Regs., § 3203); * Fire Prevention Plan (8 Cal. Code Regs., § 3221); * Emergency Action Plan (8 Cal. Code Regs., § 3220); * Personal Protective Equipment Program (8 Cal. Code Regs., §§ 3401-3411).	haz_fwp_emergencyresponse_fireprevention_safetymgmt_plans	See referenced source documents.	haz_fwp_emergencyresponse_fireprevention_safetymgmt_plans
(12)	**Waste Management**			

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(g1)	...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.	* Existing Conditions: Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.1 Setting; * Expected Impacts: Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.3 Direct and Indirect Effects and Shasta County DEIR Section 3.11 Hazardous Materials Subsection 3.11.4 Cumulative Analysis; * Mitigation Measure: MM 3.11-3.	See referenced source docments. The project is not anticipated to have a significant adverse impact on waste management	deir_fwp_3-11_haz_materials
(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.	* Shasta County DEIR Appendix F1 (Phase I ESA): * Stantec Consulting Services, Inc. (Stantec). 2019. Environmental Records Review. February 20.	See referenced source documents	haz_fwp_edr_database_search_results
(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.	See data response.	A Hazardous Materials Business Plan is a requirement of CCR Title 19, Division 2, Chapter 4 and will be prepared prior to construction. Construction is anticipated to balance cut and fill using onsite materials.	
(C)	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.	See above	See above	
(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.	* Management Methods: Shasta County DEIR Section 3.11.3 Direct and Indirect Effects. * Decommissioning: Staff Report To Planning Commission at Condition 60	See referenced source documents	deir_fwp_3-11_haz_materials ceqa_fwp_staff_report

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(13)	**Biological Resources**			
(g1)	...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.	* Site Conditions: DEIR Section 3.4 Biological Resources Subsection 3.4.1 Setting; * Expected Impacts: DEIR Section 3.4 Biological Resources Subsection 3.4.3 Direct and Indirect Effects, Section 3.4 Biological Resources Subsection 3.4.4 Cumulative Analysis; * Mitigation Measures: MM 3.4-1 through 3.4-16c in DEIR Section 3.4 Biological Resources Subsection 3.4.3 Direct and Indirect Effects; * Western EcoSystems Technology (WEST), Inc., 2017. Site Characterization Study Report, Fountain Wind Project, Shasta County, California. January. * Stantec, 2019. Fountain Wind Energy Project Aquatic Resources Survey Report. December 23. * WEST Inc., 2018. Rare Plant Surveys and Natural Vegetation Community Mapping. Fountain Wind Project, Shasta County, CA. October 17. * WEST, Inc., 2019. Rare Plant Surveys and Natural Vegetation Community Mapping. Fountain Wind Project, Shasta County, California. December 20. * WEST, Inc., 2018. Year 1 Avian Use Study Report and Risk Assessment for the Fountain Wind Project, Shasta County, California. November 5. * WEST, Inc., 2019. Results of the Year 2 Avian Use Study at the Fountain Wind Project – Addendum to the Year 1 Avian Use Study Report and Risk Assessment. Memorandum to ConnectGen Operating LLC. September 5. * WEST, Inc., 2018. Great Gray Owl Habitat Assessment, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 24. * WEST, Inc., 2018. Bat Acoustic Survey Report, Fountain Wind Project, Shasta County, CA. October 22. * WEST, Inc., 2018. 2017 Raptor Nest Survey Report for the Fountain Wind Project, California. Memorandum to Pacific Wind Development. September 19. * WEST, Inc., 2018. 2018 Northern Goshawk Nest Survey Results, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 15. WEST, Inc., 2018. 2018 Eagle Nest Status Survey Report, Fountain Wind Project, California. Memorandum to Pacific Wind Development. September 19. * WEST, Inc., 2018. Response to Informal Consultation Request for Use Permit 16-007, Fountain Wind Project, Shasta County.	See referenced source documents. The project is anticipated to have a significant and unavoidable impact on certain species of birds and bats	deir_fwp_3-4_bio_resources bio_fwp_site_characterization_study bio_fwp_aquatic_resources_report bio_fwp_rare_plant_and_veg_mapping_2018 bio_fwp_rare_plant_and_veg_mapping_2019 bio_fwp_year1_avian_use_study_2018 bio_fwp_year2_avian_use_study_2019 bio_fwp_great_gray_owl_hab_assessment_2018 bio_fwp_bat_acoustic_survey_report bio_fwp_2017_raptor_nest_survey_report bio_fwp_2018_northern_goshawk_surveys bio_fwp_2018_eagle_nest_surveys bio_fwp_response_to_informal_consultation_request_cdfw bio_fwp_ca_spotted_owl_risk_assessment_2020 bio_fwp_2018_willow_flycatcher_surveys bio_fwp_2018_2019_foothill_frog_surveys bio_fwp_2018_foothill_cascades_frog_surveys bio_fwp_spotted_owl_memo_2021 bio_fwp_goshawk_memo_2021 bio_fwp_rare_plants_2021 bio_fwp_condor_risk_assessment bio_fwp_2019_nest_surveys bio_fwp_eDNA_foothill_frog_surveys bio_fwp_nocturnal_migrant_risk_summary bio_fwp_response_to_2018-2019_raptor_survey_questions bio_fwp_2019_willow_flycatcher_hab_assessment bio_fwp_rare_plant_clarification_memo

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		November 6. * WEST, Inc., 2020. California Spotted Owl Risk Assessment for the Proposed Fountain Wind Project, Shasta County, California. February 24. * WEST, Inc., 2018. 2018 Willow Flycatcher Survey Results, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 17. * WEST, Inc. 2019. 2018/2019 Foothill Yellow-legged Frog Assessment for the Fountain Wind Project, Shasta County, California. December 20. * WEST, Inc., 2018. 2018 Foothill yellow-legged frog and Cascades frog habitat assessments and surveys, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 22. * WEST, Inc. 2021. 2021 California Spotted Owl Survey Results, Fountain Wind Project, CA. October 29. * WEST, Inc. 2021. 2021 Northern Goshawk Nest Survey Results, Fountain Wind Project, CA. October 29. * WEST, Inc. 2021. 2021 Rare Plant Surveys, Fountain Wind Project, Shasta County, California. October 29. * WEST, Inc. 2020. California Condor Risk Assessment for the Proposed Fountain Wind Project, Shasta County, California. February 12. * WEST, Inc. 2019. 2019 Nest Survey Report for the Fountain Wind Project, California. September 5, 2019. * WEST, Inc. 2020. 2019 eDNA Surveys for Foothill Yellow-legged Frog at the Fountain Wind Project, Shasta County, California. January 16. * WEST, Inc. 2018. Nocturnal Migrant Risk Summary, Fountain Wind Project, Shasta County, CA. October 10, 2018. * WEST, Inc. 2019. MEMO re: Request for clarifications on 2017 and 2018 Raptor Nest Survey Reports for the Countain Wind Project. January 24. * WEST, Inc. 2019. Willow Flycatcher 2019 Supplemental Habitat Assessment at the Fountain Wind Project, Shasta County, California. November 6. * WEST, Inc. 2019. Request for clarifications on 2018 Rare Plant Survey and Natural Vegetation Community Mapping Report for the Fountain Wind Project. January 10.		

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(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:(i) species listed under state or federal Endangered Species Acts;(ii) species receiving consideration during environmental review under CEQA Guidelines Section 15380;(iii) species identified as state Fully Protected;(iv) species covered by Migratory Bird Treaty Act;(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;(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;(vii) plant species listed as rare under the California Native Plant Protection Act; (viii) established native resident or migratory wildlife corridors or wildlife nursery sites.	Shasta County DEIR Section 3.4 Biological Resources Subsection 3.4.1.2 Environmental Setting	See referenced source documents	deir_fwp_3-4_bio_resources
(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.	There are no Habitat Conservation Plans or similar plans in the project vicinity.	N/A	
(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.	* Western EcoSystems Technology (WEST), Inc., 2017. Site Characterization Study Report, Fountain Wind Project, Shasta County, California. January. - Table 2. Federal listed plant species with potential for occurrence in or near the Fountain Wind Project; - Table 3. State listed/rare species with potential for occurrence in or near the Fountain Wind Project; - Table 4. State designated sensitive habitats and drainages occurring within 10 miles of the Fountain Wind Project; - Table 6. Diurnal raptor species, owl species, and vulture species with potential to occur within the Fountain Wind Project; - Table 7. Bat species within [sic] potential to occur within the Fountain Wind Project; - Table 9. Federal listed, candidate, or under review wildlife species with potential to occur within the Fountain Wind Project; - Table 10. State listed or candidate wildlife species with potential to occur within the Fountain Wind Project; - Table 11. California species of special concern and watch list species with potential to occur in the Fountain Wind Project	See referenced source documents. For list of actually observed species, see Appendix B Section 13 (C)(i) below	bio_fwp_site_characterization_study

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(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.	See index of relevant figures.	See referenced source documents. With mitigation, the project is anticipated to have LTS impacts on most biological resources. Significant unavoidable impacts are anticipated with respect to potential mortality and injury to raptors and bats.	bio_fwp_bio_resources_figs_index
	(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.	See data response.	This project does not use cooling water. Therefore this request is not applicable.	N/A
(B)	(iii) 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 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. (iv) Provide Geographic Information System (GIS) data (shape and/or geodatabse files) for all data mapped for biological resources.	Stantec, 2019. Fountain Wind Energy Project Aquatic Resources Survey Report. December 23 Figure 3. Aquatic Resources Survey Results Map	See referenced source documents. With mitigation, the project is anticipated to have LTS impacts with respect to wetlands.	bio_fwp_aquatic_resources_report gis_fwp_wetland_data.zi

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(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:	* WEST Inc., 2018. Rare Plant Surveys and Natural Vegetation Community Mapping. Fountain Wind Project, Shasta County, CA. October 17. * WEST, Inc., 2019. Rare Plant Surveys and Natural Vegetation Community Mapping. Fountain Wind Project, Shasta County, California. December 20. * WEST, Inc., 2018. Year 1 Avian Use Study Report and Risk Assessment for the Fountain Wind Project, Shasta County, California. November 5. * WEST, Inc., 2019. Results of the Year 2 Avian Use Study at the Fountain Wind Project – Addendum to the Year 1 Avian Use Study Report and Risk Assessment. Memorandum to ConnectGen Operating LLC. September 5. * WEST, Inc., 2018. Great Gray Owl Habitat Assessment, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 24. * WEST, Inc., 2018. Bat Acoustic Survey Report, Fountain Wind Project, Shasta County, CA. October 22. * WEST, Inc., 2018. 2017 Raptor Nest Survey Report for the Fountain Wind Project, California. Memorandum to Pacific Wind Development. September 19. * WEST, Inc., 2018. 2018 Northern Goshawk Nest Survey Results, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 15. WEST, Inc., 2018. 2018 Eagle Nest Status Survey Report, Fountain Wind Project, California. Memorandum to Pacific Wind Development. September 19. * WEST, Inc., 2018. Response to Informal Consultation Request for Use Permit 16-007, Fountain Wind Project, Shasta County. November 6.* WEST, Inc., 2020. California Spotted Owl Risk Assessment for the Proposed Fountain Wind Project, Shasta County, California. February 24. * WEST, Inc., 2018. 2018 Willow Flycatcher Survey Results, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 17. * WEST, Inc. 2019. 2018/2019 Foothill Yellow-legged Frog Assessment for the Fountain Wind Project, Shasta County, California. December 20. * WEST, Inc., 2018. 2018 Foothill yellow-legged frog and Cascades frog habitat assessments and surveys, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 22.	See referenced source documents	bio_fwp_site_characterization_study bio_fwp_aquatic_resources_report bio_fwp_rare_plant_and_veg_mapping_2018 bio_fwp_rare_plant_and_veg_mapping_2019 bio_fwp_year1_avian_use_study_2018 bio_fwp_year2_avian_use_study_2019 bio_fwp_great_gray_owl_hab_assessment_2018bio_fwp_bat_acoustic_survey_report bio_fwp_2017_raptor_nest_survey_report bio_fwp_2018_northern_goshawk_surveys bio_fwp_2018_eagle_nest_surveys bio_fwp_response_to_informal_consultation_request_cdfw bio_fwp_ca_spotted_owl_risk_assessment_2020bio_fwp_2018_willow_flycatcher_surveys bio_fwp_2018_2019_foothill_frog_surveys bio_fwp_2018_foothill_cascades_frog_surveys bio_fwp_spotted_owl_memo_2021 bio_fwp_goshawk_memo_2021 bio_fwp_rare_plants_2021 bio_fwp_condor_risk_assessment bio_fwp_2019_nest_surveysbio_fwp_eDNA_foothill_frog_surveys bio_fwp_nocturnal_migrant_risk_summary bio_fwp_response_to_2018-2019_raptor_survey_questions bio_fwp_2019_willow_flycatcher_hab_assessment bio_fwp_rare_plant_clarification_memo

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
		* WEST, Inc. 2021. 2021 California Spotted Owl Survey Results, Fountain Wind Project, CA. October 29. * WEST, Inc. 2021. 2021 Northern Goshawk Nest Survey Results, Fountain Wind Project, CA. October 29. * WEST, Inc. 2021. 2021 Rare Plant Surveys, Fountain Wind Project, Shasta County, California. October 29. * WEST, Inc. 2020. California Condor Risk Assessment for the Proposed Fountain Wind Project, Shasta County, California. February 12. * WEST, Inc. 2019. 2019 Nest Survey Report for the Fountain Wind Project, California. September 5, 2019. * WEST, Inc. 2020. 2019 eDNA Surveys for Foothill Yellow-legged Frog at the Fountain Wind Project, Shasta County, California. January 16. * WEST, Inc. 2018. Nocturnal Migrant Risk Summary, Fountain Wind Project, Shasta County, CA. October 10, 2018. * WEST, Inc. 2019. MEMO re: Request for clarifications on 2017 and 2018 Raptor Nest Survey Reports for the Countain Wind Project. January 24. * WEST, Inc. 2019. Willow Flycatcher 2019 Supplemental Habitat Assessment at the Fountain Wind Project, Shasta County, California. November 6. * WEST, Inc. 2019. Request for clarifications on 2018 Rare Plant Survey and Natural Vegetation Community Mapping Report for the Fountain Wind Project. January 10.		
(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.).	For list of species and habitats with potential to occur, see document referenced in Appendix B Section 13 (B) above	See referenced source documents	
(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 does not use cooling water and does not deposit nitrogen. Therefore this request is not applicable.	

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(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.	* Western EcoSystems Technology (WEST), Inc., 2017. Site Characterization Study Report, Fountain Wind Project, Shasta County, California. January. * Stantec, 2019. Fountain Wind Energy Project Aquatic Resources Survey Report. December 23. * WEST Inc., 2018. Rare Plant Surveys and Natural Vegetation Community Mapping. Fountain Wind Project, Shasta County, CA. October 17. * WEST, Inc., 2019. Rare Plant Surveys and Natural Vegetation Community Mapping. Fountain Wind Project, Shasta County, California. December 20. * WEST, Inc., 2018. Year 1 Avian Use Study Report and Risk Assessment for the Fountain Wind Project, Shasta County, California. November 5. * WEST, Inc., 2019. Results of the Year 2 Avian Use Study at the Fountain Wind Project – Addendum to the Year 1 Avian Use Study Report and Risk Assessment. Memorandum to ConnectGen Operating LLC. September 5. * WEST, Inc., 2018. Great Gray Owl Habitat Assessment, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 24. * WEST, Inc., 2018. Bat Acoustic Survey Report, Fountain Wind Project, Shasta County, CA. October 22. * WEST, Inc., 2018. 2017 Raptor Nest Survey Report for the Fountain Wind Project, California. Memorandum to Pacific Wind Development. September 19. * WEST, Inc., 2018. 2018 Northern Goshawk Nest Survey Results, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 15. WEST, Inc., 2018. 2018 Eagle Nest Status Survey Report, Fountain Wind Project, California. Memorandum to Pacific Wind Development. September 19. * WEST, Inc., 2018. Response to Informal Consultation Request for Use Permit 16-007, Fountain Wind Project, Shasta County. November 6. * WEST, Inc., 2020. California Spotted Owl Risk Assessment for the Proposed Fountain Wind Project, Shasta County, California. February 24. * WEST, Inc., 2018. 2018 Willow Flycatcher Survey Results, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 17. * WEST, Inc. 2019. 2018/2019 Foothill Yellow-legged Frog Assessment for the Fountain Wind Project, Shasta County, California. December	See referenced source documents	bio_fwp_site_characterization_study bio_fwp_aquatic_resources_report bio_fwp_rare_plant_and_veg_mapping_2018 bio_fwp_rare_plant_and_veg_mapping_2019 bio_fwp_year1_avian_use_study_2018 bio_fwp_year2_avian_use_study_2019 bio_fwp_great_gray_owl_hab_assessment_2018 bio_fwp_bat_acoustic_survey_report bio_fwp_2017_raptor_nest_survey_report bio_fwp_2018_northern_goshawk_surveys bio_fwp_2018_eagle_nest_surveys bio_fwp_response_to_informal_consultation_request_cdfw bio_fwp_ca_spotted_owl_risk_assessment_2020 bio_fwp_2018_willow_flycatcher_surveys bio_fwp_2018_2019_foothill_frog_surveys bio_fwp_2018_foothill_cascades_frog_surveys bio_fwp_spotted_owl_memo_2021 bio_fwp_goshawk_memo_2021 bio_fwp_rare_plants_2021 bio_fwp_condor_risk_assessment bio_fwp_2019_nest_surveys bio_fwp_eDNA_foothill_frog_surveys bio_fwp_nocturnal_migrant_risk_summary bio_fwp_response_to_2018-2019_raptor_survey_questions bio_fwp_2019_willow_flycatcher_hab_assessment bio_fwp_rare_plant_clarification_memo

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		20. * WEST, Inc., 2018. 2018 Foothill yellow-legged frog and Cascades frog habitat assessments and surveys, Fountain Wind Project, CA. Memorandum to Pacific Wind Development. October 22. * WEST, Inc. 2021. 2021 California Spotted Owl Survey Results, Fountain Wind Project, CA. October 29. * WEST, Inc. 2021. 2021 Northern Goshawk Nest Survey Results, Fountain Wind Project, CA. October 29. * WEST, Inc. 2021. 2021 Rare Plant Surveys, Fountain Wind Project, Shasta County, California. October 29. * WEST, Inc. 2020. California Condor Risk Assessment for the Proposed Fountain Wind Project, Shasta County, California. February 12. * WEST, Inc. 2019. 2019 Nest Survey Report for the Fountain Wind Project, California. September 5, 2019. * WEST, Inc. 2020. 2019 eDNA Surveys for Foothill Yellow-legged Frog at the Fountain Wind Project, Shasta County, California. January 16. * WEST, Inc. 2018. Nocturnal Migrant Risk Summary, Fountain Wind Project, Shasta County, CA. October 10, 2018. * WEST, Inc. 2019. MEMO re: Request for clarifications on 2017 and 2018 Raptor Nest Survey Reports for the Countain Wind Project. January 24. * WEST, Inc. 2019. Willow Flycatcher 2019 Supplemental Habitat Assessment at the Fountain Wind Project, Shasta County, California. November 6.		
(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).	Shasta County DEIR Section 3.4 Biological Resources Subsection 3.4.3 Direct and Indirect Effects and 3.4.6 Cumulative Analysis	See referenced source document. This project does not include a cooling tower and has no operational air emissions.	deir_fwp_3-4_bio_resources
(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.	* MM 3.4-1 through 3.4-16c in Shasta County DEIR Section 3.4 Biological Resources Subsection 3.4.3 Direct and Indirect Effects; * Shasta County FEIR Appendix G Mitigation Monitoring and Reporting Program Exhibit E Applicant Proposed Measures and Project Mitigation Measures	See referenced source documents	deir_fwp_3-4_bio_resources ceqa_fwp_mmrp_table

Tit. 20 § B App. B	Data Request	Source Document/Section	Data Response	Filename in Docket
(G)	A discussion of compliance and monitoring programs to ensure the effectiveness of impact avoidance and mitigation measures incorporated into the project.	MM 3.4-1 through 3.4-16c in DEIR Section 3.4 Biological Resources Subsection 3.4.3 Direct and Indirect Effects	See referenced source documents	deir_fwp_3-4_bio_resources
(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.	No formal correspondence	The Applicant held numerous discussions with state and federal resource agencies, and agencies were involved in scoping and environmental analysis during the CEQA process.	permit_fwp_lsaa_appl_submittal_letter permit_fwp_lsaa_application permit_fwp_lsaa_application_fee permit_fwp_lsaa_aquatic_resources_report permit_fwp_lsaa_biotech_reports permit_fwp_lsaa_crossing_designs permit_fwp_lsaa_fig1_project_overview permit_fwp_lsaa_fig2_bio_and_aquatic_impacts permit_fwp_lsaa_final_mmrp permit_fwp_lsaa_site_photos permit_fwp_lsaa_special_status_species_table permit_fwp_lsaa_summary_of_aquatic_impacts
(14)	**Water Resources**			
(g1)	...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.	* Existing Conditions: Shasta County DEIR Section 3.12 Hydrology Subsection 3.12.1 Setting; * Expected Impacts: Shasta County DEIR Section 3.12 Hydrology Subsection 3.12.3 Direct and Indirect Effects; * Mitigation Measures: MM 3.12-1 through 3.12-5b in Shasta County DEIR Section 3.1.2 Direct and Indirect Effects	See referenced source documents	deir_fwp_3-12_hydrology_water_quality
(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);	* Shasta County DEIR Section 3.12 Hydrology Subsection 3.12.3 Direct and Indirect Effects; * Shasta County DEIR Section 3.4 Biological Resources Subsection 3.4.3.Direct and Indirect Effects; * Stantec, 2019. Fountain Wind Energy Project Aquatic Resources Survey Report. December 23.	See referenced source documents. A Section 401 certification may be required for this project, but will be handled with the RWQCB separately from this application, per PRC 25545.1(b)(2). A NPDES permit will be required for this project, which will be obtained by the Applicant's Engineering Procurement and Construction Contractor immediately prior to construction. Information related to wetland impacts is being prepared. This information will inform applications for Nationwide Permits (14 [Linear Transportation Projects] and 57 [Electric Utility Line and Telecommunications Activities]), for which applications have not yet been submitted.	deir_fwp_3-12_hydrology_water_quality deir_fwp_3-4_bio_resources bio_fwp_aquatic_resources_report
(A)	(ii) Construction and Industrial Waste Discharge and/or Industrial Pretreatment permits from wastewater treatment agencies;	N/A	Not applicable. This project will not discharge industrial or construction waste.	

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(A)	(iii) Nationwide Permits and/or Section 404 Permits from the U.S. Army Corps of Engineers; and	* DEIR Section 3.12 Hydrology Subsection 3.12.3 Direct and Indirect Effects; * DEIR Section 3.4 Biological Resources Subsection 3.4.3.Direct and Indirect Effects * Stantec, 2019. Fountain Wind Energy Project Aquatic Resources Survey Report. December 23.	Information related to wetland impacts is being prepared. This information will inform applications for Nationwide Permits (14 [Linear Transportation Projects] and 57 [Electric Utility Line and Telecommunications Activities]), for which applications have not yet been submitted. The Applicant has completed a wetland delineation and the Project is anticipated to conform with all wetland related regulations. Prior to construction the Applicant will ensure compliance with Nationwide Permits including conditions received as a Pre-Construction Notice, as applicable.	deir_fwp_3-12_hydrology_water_quality deir_fwp_3-4_bio_resources bio_fwp_aquatic_resources_report
(A)	(iv) Underground Injection Control Permit(s) from the U.S. Environmental Protection Agency, California Division of Oil and Gas, and RWQCB.	N/A	Not applicable. This project is not an oil or gas project and does not involve underground injection wells.	
(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.	* DEIR Section 3.12.1 Hydrology and Water Quality: Setting; * Stantec Consulting Services, Inc. (Stantec). 2020. Water Supply Assessment Fountain Wind Energy Project. June 8.	With mitigation, the project is anticipated to have LTS impacts on nearby waterbodies	deir_fwp_3-12_hydrology_water_quality water_fwp_water_supply_report

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(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); (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. 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.	* DEIR Section 3.1 Introduction to Environmental Analysis Subsection 3.1.4 Environmental Considerations Unaffected by the Project or Not Present in the Project Area; * DEIR Section 3.1 Introduction to Environmental Analysis Subsection 3.1.4.1 Forestry Resources; * DEIR Section 3.8 Forestry Resources; * DEIR Section 3.11 Hazards and Hazardous Materials; * Stantec Consulting Services, Inc. (Stantec). 2020. Water Supply Assessment for the Fountain Wind Project. June 8.; * Correspondence history with Burney Water District (see docket)	See referenced source documents	deir_fwp_3-1_intro_enviro_analysis deir_fwp_3-8_forest_resources deir_fwp_3-11_haz_materials water_fwp_water_supply_report water_fwp_burney_water_correspondence

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(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.	* DEIR Section 3.1 Introduction to Environmental Analysis Subsection 3.1.4 Environmental Considerations Unaffected by the Project or Not Present in the Project Area; * DEIR Section 3.9 Geology and Soils Subsection 3.9.1 Setting; * DEIR Section 3.12 Hydrology Subsection 3.12.1 Setting	See referenced source documents	deir_fwp_3-1_intro_enviro_analysis deir_fwp_3-9_geo_soils deir_fwp_3-12_hydrology_water_quality
(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;	* DEIR Section 3.12 Hydrology Subsection 3.12.3 Direct and Indirect Effects; * Stantec Consulting Services, Inc. (Stantec). 2020. Water Supply Assessment for the Fountain Wind Project. June 8.	See referenced source documents	deir_fwp_3-12_hydrology_water_quality water_fwp_water_supply_report
(E)	...and a discussion of conformance with water-related Laws, Ordinances, Regulations, and Standards (LORS) and policy…	* DEIR Section 3.9 Geology and Soils; * DEIR Section 3.12 Hydrology * LORS Consistency Matrix	See referenced source documents	deir_fwp_3-9_geo_soils deir_fwp_3-12_hydrology_water_quality lors_fwp_consistency_matrix
(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;	* DEIR Section 3.12 Hydrology Subsection 3.12.3.2 Direct and Indirect Effects of the Project, Subsection (a); * Stantec Consulting Services, Inc.(Stantec). 2020. Water Supply Assessment for the Fountain Wind Project. June 8.	See referenced source documents	deir_fwp_3-12_hydrology_water_qualitywater_fwp_water_supply_report
(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;	* DEIR Section 3.12 Hydrology Subsection 3.12.3.2 Direct and Indirect Effects of the Project, Subsection (a); * Mitigation Measures: MM 3.12-1 through 3.12-5b in Section 3.1.2 Direct and Indirect Effects	See referenced source documents	deir_fwp_3-12_hydrology_water_quality
(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.	Stantec Consulting Services, Inc. (Stantec). 2020. Water Supply Assessment for the Fountain Wind Project. June 8. Section 2.2.5 Are there Sufficient Supplies to Serve the Project Over the Next Twenty Years?	See referenced source documents. The project will not discharge wastewater into receiving waters.	water_fwp_water_supply_report
(15)	**Soils**			

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(g1)	...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.	* Setting: DEIR Section 3.9.1 Setting (Geology and Soils); * Expected Impacts: Section 3.9.3 Direct and Indirect Effects (Geology and Soils); * Mitigation: no mitigation was recommended for geology, soils, or paleontological resources	See referenced source documents	deir_fwp_3-9_geo_soils
(A)	A map at a scale of 1:24,000 and written description of soil types and all agricultural land uses that will be affected by the proposed project. The description shall include: (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.	* Introduction to Environmental Analysis: DEIR Section 3.1.4 Environmental Considerations Unaffected by the Project or Not Present in the Project Area; * DEIR Section 3.1 Intro to Environmental Analysis Subsection 3.1.4.1 Forestry Resources; * DEIR Section 3.8 Forestry Resources; * DEIR Section 3.11 Hazards and Hazardous Materials	See referenced source documents. The project is anticipated to have no impact adverse impacts on agricultural and forestry resources. Any needed fill is anticipated to be obtained on-site. No contaminated soils will be disturbed.	deir_fwp_3-1_intro_enviro_analysis deir_fwp_3-8_forest_resources deir_fwp_3-11_haz_materials
(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.	N/A	See referenced source documents. The project will not affect agricultural resources. For a discussion of the project's impact on soil resources, see Section 3.9.3 in the DEIR. For a discussion of the project's impact on timber resources, see Section 3.8.3 in the DEIR.	
(16)	**Paleontologic 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 paleonotological study area may vary depending on the depositional history of the region.	DEIR Section 3.9.1 Setting (Geology and Soils)	See referenced source documents	deir_fwp_3-9_geo_soils
(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.	* Introduction to Environmental Analysis: DEIR Section 3.1.4 Environmental Considerations Unaffected by the Project or Not Present in the Project Area; * DEIR 3.1.4.7 Geology and Soils	The project is anticipated to have no impact adverse impacts on paleontological resources.	deir_fwp_3-1_intro_enviro_analysis deir_fwp_3-9_geo_soils
(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.	DEIR Section 3.9.3.1 Methodology (Geology and Soils)	No paleontological surveys were undertaken. Therefore, no qualifications are enclosed.	deir_fwp_3-9_geo_soils
(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.	Introduction to Environmental Analysis: DEIR Section 3.1.4 Environmental Considerations Unaffected by the Project or Not Present in the Project Area	See referenced source documents	deir_fwp_3-1_intro_enviro_analysis
(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.	See data response.	The DEIR concluded that all impacts related to geology, soils, and paleontological resources were less-than-significant, requiring no mitigation.	
(17)	**Geological Hazards and Resources**			

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(g1)	...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.	* Existing Conditions: DEIR Section 3.9.1 Setting (Geology and Soils); * Preliminary Geotech Report (docket) * Impacts: DEIR 3.9.3 Direct and Indirect Effects; DEIR Section 3.9.4 Cumulative Analysis	See referenced source documents	deir_fwp_3-9_geo_soils geo_fwp_prelim_geotech_report
(A)	A summary of the geology, seismicity, and geologic resources of the project site and related facilities, including linear facilities.	DEIR Section 3.9.1 Setting (Geology and Soils)	See referenced source documents	
(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.	DEIR Section 3.9 Geology and Soils Figure 3.9-3 Regional Faults	See referenced source documents	deir_fwp_3-9_geo_soils
(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.	N/A	The project will not impact geologic resources of recreational, commercial or scientific value.	
(18)	**Transmission System Safety and Nuisance**	N/A	N/A	
(19)	**Wildfire**			
(A)	A map showing State Responsibility Areas (SRA) relative to the proposed project.	DEIR Section 3.16 Wildfire Figure 3.16-1	See referenced source documents	deir_fwp_3-16_wildfire
(B)	A map showing state Fire Hazard Severity Zones relative to the proposed project.	* DEIR Section 3.16 Wildfire Figure 3.16-1; * Quigley, Darin, and Syndy Zerr. 2021. Fountain Wind Project EIR Wildfire Effects Review. Letter to Shasta County Planning Commission. June 17.; * Staff Report to the Planning Commission dated 6/22/21 p. 8-9; * Letter from Henry Woltag to Paul Hellman, June 21, 2021	All of Shasta County is designated as a "Very High Fire Hazard Severity Zone" by CALFIRE.	deir_fwp_3-16_wildfire fire_fwp_quigley_bos_letter fire_quigley_zerr_fire_tech_memo ceqa_fwp_staff_report fire_fwp_woltag_letter_to_hellman
(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. (ii) A discussion of how potential project pollutants could be contained onsite during a wildfire event.(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. (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.	* (i) DEIR Section 3.14 Transportation Subsection 3.14.2 Criteria (d) and * DEIR Section 3.16 Wildfire; * (iii) Infrastructure such as roads, turbine pads, and fuel breaks will reduce the risk of wildfire. See:- Quigley, Darin, and Syndy Zerr. 2021. Fountain Wind Project EIR Wildfire Effects Review. Letter to Shasta County Planning Commission. June 17.- Staff Report to the Planning Commission dated 6/22/21 p. 8-9; * Letter from Henry Woltag to Paul Hellman, June 21, 2021 * (iv) DEIR Section 3.9 Geology & Soils Subsection 3.9.2 Criteria (a)(iii) Landslides	* (ii) the Project's Spill Prevention, Countermeasure, and Control (SPCC) Plan will contain this information and will be submitted prior to construction	deir_fwp_3-14_transportation deir_fwp_3-16_wildfire fire_fwp_quigley_bos_letter fire_quigley_zerr_fire_tech_memo ceqa_fwp_staff_report fire_fwp_woltag_letter_to_hellman deir_fwp_3-9_geo_soils

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(h) 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.	* Project Description and Executive Summary Section 1.2.1 Site Selection; * Preliminary Geotech Report (docket)	See referenced source documents	geo_fwp_prelim_geotech_report
(B)	A discussion of any measures proposed to improve adverse site conditions.	Project Description and Executive Summary Section 1.2.1 Site Selection	See referenced source documents	
(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.	foundation_design figure in docket	See exhibits in docket • The WTG foundation design will be performed based on wind turbine manufacturer requirements and standards of the wind turbine industry as documented in ASCE/AWEA RP2011 Recommended Practice for Compliance of Large Land-based Wind Turbine Support Structures as well as the 2019 California Building Standards Code. • The turbine/tower manufacturer will provide a complete load document that will be used for the WTG foundation design. • A typical octagonal or circular spread footing design will likely be suitable for the geotechnical conditions anticipated. • Structural WTG foundation design will determine foundation size and dimensions based on checks of global stability, bearing capacity, stiffness, settlement, concrete and steel strength, and fatigue. • For all other non WTG related foundations the California Building Standards Code will be followed.	pd_fwp_foundation_design_fig
(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; (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.	See data response	None of these project components are applicable to a wind project.	
(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.	* Project Description * DEIR Section 2 Project Description Subsection [PG&E Components]	No new transmission lines are proposed.	deir_fwp_2_descr_proj_and_alts

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(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.	* Project Description and Executive Summary Section 1.2.1 Site Selection * DEIR Section 2 Project Description Subsection [PG&E Components] * Letter from Mark Lawlor to Paul Hellman, June 16, 2021	PG&E has reviewed the design and location specifications for the interconnection switchyard proposed by this project.	deir_fwp_2_descr_proj_and_alts pd_fwp_interconnection_lawlor_to_hellman_letter
(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.	See referenced source documents	Project Applicant has been collecting wind data at this site for more than 10 years across more than 15 locations.	
(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: (i) Expected overall availability factor, and annual and lifetime capacity factors; (ii) The demonstrated or anticipated feasibility of the technologies, systems, components, and measures proposed to be employed in the facilities, including the power generation system, the heat dissipation system, the water supply system, the reinjection system, the atmospheric emission control system, resource conveyance lines, and the waste disposal system; (iii) Geologic and flood hazards, meteorologic conditions and climatic extremes, and cooling water availability; (iv) Special design features adopted by the applicant or resource supplier to ensure power plant reliability including equipment redundancy; and (v) For technologies not previously installed and operated in California, the expected power plant maturation period.	See referenced source documents	(i) Current availability estimates are approximately 96% annually on an energy basis, pending specific input from the equipment manufacturer. To date, the technologies and configurations modeled are estimated to result in net capacity factors ranging from approximately 27-31% annually. (ii) Modern wind turbines are thoroughly tested and demonstrated prior to deployment. They are designed to international standards and undergo rigorous component and system prototype testing. The applicant expects that the final turbine selected for the site will be thoroughly tested and demonstrated before deployment at the site. The applicant expects that this turbine will perform within the typical assumptions for power curve performance and turbine availability. (iii) The USGS (United States Geological Survey) National Seismic Hazard Maps (https://www.usgs.gov/programs/earthquake-hazards/science/introduction-national-seismic-hazard-maps) estimate 20-50 occurrences of damaging earthquake shaking in a 10,000 year period for the planned project area, effectively a 0.2-0.5% possibility. This factor will be considered as part of site suitability review by the equipment manufacturer. Typical meteorological conditions affecting project operation will be related to winter weather, with regular snow and ice having primary impact on an annual basis, but also considering the potential for major storms to limit operations for extended periods of time due to heavy snowfall. The local climate is moderate with respect to temperature, with typical high/low extremes ranging from -15C to +38C, or 5F to 100F. These temperature ranges are within typical operating windows for modern wind turbines and should not significantly impact site production. Cooling water is not necessary for wind turbine	

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			operation. (iv) Each wind turbine operates independently, so each turbine is essentially redundant from each other turbine. That means the overwhelming majority of failures will affect only one (2%) of the up to 48 wind turbines. Thus the wind farm will be able to achieve 98% availability even with one wind turbine faulted. Spare parts for all common fault items are kept on hand within the facility so that any faulted turbine is typically back up and running the same day or shortly after the fault is detected. Thus availability levels of 97-98% are typically maintained at most wind farms. Common regional specific operational adaptations for projects in similar areas include provision for technician access to the turbines in heavy snow conditions, protection of overhead power lines from high winds and/or icing conditions, and crane access during high winds, heavy snow, and icing conditions. (v) Wind turbines have a long operating history in California.	
(4)	**Efficiency**			
(A)	Heat and mass balance diagrams for design conditions for each mode of operation.	N/A	Not applicable to this project.	
(B)	Annual fuel consumption in BTUs for each mode of operation, including hot restarts and cold starts.	N/A	The project does not consume fuel during operations.	
(C)	Annual net electrical energy produced in MWh for each mode of operation, including starts and shutdowns.	See data response.	The project would produce between approximately 420,000 and 500,000 MWh's per year depending on the final turbine type and hub height selection.	
(D)	Number of hours the plant will be operated in each design condition in each year.	See data response.	The project would produce between approximately 420,000 and 500,000 MWh's per year depending on the final turbine type and hub height selection.	
(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.	
(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.	DEIR Section 2 Description of Projects and Alternatives Subsection 2.5.2 Alternatives Rejected from Detailed Consideration	See referenced source documents	deir_fwp_2_descr_proj_and_alts
(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 is not a demonstration project. Therefore this section is not applicable.	

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(B)	A demonstration plan containing the following elements: (i) A description of the technology to be demonstrated; (ii) The objectives of the demonstration; (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.	N/A	See referenced source documents	
(i) Compliance with Laws, Ordinances, Regulations and Standards				
(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.	* Table of Applicable LORS * Shasta County Staff report dated 6/22/21 to the Planning Commission: - p. 12... "Based upon the provisions of the Zoning Plan outlined above, private energy production facilities, including wind energy systems that do not comply with the requirements for small energy wind systems, may be permitted with an approved use permit. Therefore, the processing of the use permit application filed by the applicant for the Project is consistent with the Shasta County Zoning Plan." - p. 13: ...." staff is of the opinion that the Project is consistent with the General Plan plan policies and zoning standards for the area and that the establishment, operation, and maintenance of the Project would not be detrimental to the health, safety, peace, morals, comfort, and general welfare of persons residing or working in the neighborhood or be detrimental or injurious to property or improvements in the neighborhood or to the general welfare of the County."	See referenced source documents	lors_fwp_consistency_matrix ceqa_fwp_staff_report
(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 landuse 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.	DEIR Section 2 Description of Project and Alternatives, Table 2-8 (Summary of Permits and Approvals)	See referenced source documents	deir_fwp_2_descr_proj_and_alts
(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.	Scoping Report Appendix B, Direct Mail Notice	See referenced source documents	ceqa_fwp_scoping_report
(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.	Table 3 in Project Description	See referenced source documents	

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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	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 1707, 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	Filing has been made in accordance with sections 1208 and 1208.1. Application has been verified in accordance with section 1707.	
§ 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 preapplication meeting with the CEC took place on November 16, 2022. The presentation given by the Applicant is included in the docket.	pd_fwp_opt-in_cec_presentation
	(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	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).	LSAA included in docket	Matrix and Executive Summary and Project Description contain relevant information specified by Appendix B. Where categories do not apply, an explanation has been provided. The project does not anticipate seeking incidental take authorization because no take of CESA listed or candidate species is anticipated. The application for a Lake and Streambed Alteration Agreement has been included in the docket.	_appendix_b_fwp_crosswalk_matrix _pd_fwp_exec_sum_project_description permit_fwp_lsaa_appl_submittal_letter permit_fwp_lsaa_application permit_fwp_lsaa_application_fee permit_fwp_lsaa_aquatic_resources_report permit_fwp_lsaa_biotech_reports permit_fwp_lsaa_crossing_designs permit_fwp_lsaa_fig1_project_overview permit_fwp_lsaa_fig2_bio_and_aquatic_impacts permit_fwp_lsaa_final_mmrp permit_fwp_lsaa_site_photos permit_fwp_lsaa_special_status_species_table permit_fwp_lsaa_summary_of_aquatic_impacts
	(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).	See data response.	The project is a land-based wind energy generation project with a name plate capacity of 216 MW. It therefore qualifies as a "facility" under section 25545(b) which includes "terrestrial wind energy generating power plants of 50 MW or more."	

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	(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.	Certifications provided in letter dated November 16, 2022	See referenced source documents.	ab205_fwp_labor_certification
	(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.	TCP is included in docket	FAA Determination of No Aviation Hazard (July 1, 2020) Lake and Streambed Alteration Agreement (EPIMS No. 18805) Shasta County Use Permit (No. 16-007)	ceqa_fwp_timber_conversion_permit
	(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.	N/A	The project is proposed to be located on privately-owned land actively used for commercial timber production. This land is not a state, regional county or city park; it is not wilderness or a scenic or natural reserve. It is not an area for wildlife protection, recreation, historic preservation, or natural preservation. The land is not an estuary nor is it land designated by the California Coastal Commission under Public Resources Code section 30413(b) or by the San Francisco Bay Conservation and Development Commission under Public Resources Code section 66645(b).	
	(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.	* Economic & Planning Systems, Inc. (EPS). 2021. Fountain Wind Project Economic and Public Revenue Impact Study. March 25. * Stantec Consulting Services, Inc. (Stantec). 2020. Local Economic Effects of Wind Energy Projects. September 14.	See referenced source documents	econ_fwp_eps_economics_memo econ_fwp_stantec_local_econ_effects_of_wind
	(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.	Community Benefits Programs pamphlet in docket	The applicant has made voluntary commitments to a number of organizations as part of its proposed Community Benefits Program. The applicant plans to enter into legally binding and enforceable agreements in the second half of 2024 after the CEC Permit is granted and before the project starts construction activities.	pd_fwp_community_benefits_program

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	(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.	See data response	The project meets the requirements of Public Resources Code section 21183: It will result in an investment of more than one hundred million dollars upon completion of construction. It will pay all workers prevailing wage. The construction of the project will be subject to a Project Labor Agreement. The project will result in a net reduction of green house gas (GHG) emissions over time as it displaces energy produced by fossil fuel-generated power plants with emissions-free wind-generated energy in accordance with section 21196.3. (See DEIR at Chapter 3.10 Greenhouse Gas Emissions, section 3.10.3.2: "The total amortized construction, decommissioning, and site reclamation GHG emissions were added to the total operational emissions for comparison with the GHG significance threshold of no net increase in GHG emissions (see below).") The project applicant will comply with section 42649 of the Public Resources Code regarding the recycling of solid waste generated by the project. The applicant agrees that the mitigation measures will be enforceable conditions of approval applicable throughout the life of the project. The applicant will pay the costs of the Court of Appeal in hearing any case and other costs in accordance with section 21183(f). The applicant agrees to pay the cost of preparing the administrative record.	