DOCKETED	
Docket Number:	23-OPT-01
Project Title:	Fountain Wind Project
TN #:	251216
Document Title:	fwp_vis_aq_lu_responses_2023-0727
Description:	N/A
Filer:	Caitlin Barns
Organization:	Stantec Consulting Services, Inc.
Submitter Role:	Applicant Consultant
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Docketed Date:	7/27/2023

Data Reques t Identifi er	Reque st Source	Topic	Revie wer	Siting Regulati ons	Informati on	Opt-In Page Number And Section Number	Original Determin ation of Adequac y	Information Required To Make OPT Conform With Regulations	Respo nse Date	Applicant Response No. 1	CEC Disposition 1	Applicant Respons e No. 2	CEC Dispositi on No. 2	Applicant Response No. 3	CEC Disposit ion No. 3	Applicant Response No. 4	CEC Disposi tion No.	Applic ant Respo nse No. 5
AIR- 013	Deficie ncy Letter Matrix	Air Quality	Hughes	Appendi x B (g) (8) (I) (i)	An evaluation of the project's direct and cumulativ e air quality impacts, consisting of: 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 constructi on activities on ambient air quality conditions, including fugitive dust (PM10) emissions from grading, excavatio n and site disturbanc e, as well as the combustio n emissions [nitrogen oxides (NOx), sulfur		No	Provide the air quality modeling analysis to determine construction related impacts consistent with the revised construction emission estimates and assumptions as requested under Appendix B (g)(8)(A) requirements above. Otherwise, provide a detailed justification of why such modeling isn't required for this project based on the revised construction emission estimates and assumptions as requested under Appendix B (g)(8)(A) requirements above.	5/23/20 23 and 29-Jun	Please see updated air quality modeling analysis (TN# 250273).	AIR-013 - The response (TN 250273) provides emissions rates without an evaluation of impacts to ambient air quality. The required ambient air quality impact analysis will determine downwind concentrations of criteria pollutants during project construction activities. The evaluation will compare the results to the California Ambient Air Quality Standards (CAAQS) and National Ambient Air Quality Standards (NAAQS). Applicant may choose to use a screening model (e.g., AERSCREEN or SCREEN3) or refined model (e.g., AERMOD).	See response to AIR- 010.	The response is insufficien t. Specificall y, project PM10 emissions during constructi on would exceed Shasta County AQMD thresholds of significan ce. Data provided (TN 250818) shows PM10 for year 1 as 433.15 pounds per day. The Shasta County significan ce thresholds are 80 lb/day for Level A and 137 lb/day for Level B. The 2003 Shasta County protocol indicates that emissions exceeding the thresholds should be evaluated for potential violation	See air quality response memo with dispersion modeling results (TN# 251208).				

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					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 equipmen t:								of ambient air quality standards using dispersion modeling. Applicant may choose to use screening models or a refined analysis, as needed.					
AIR- 014	Deficie ncy Letter Matrix	Air Quality	Hughe s	Appendi x B (g) (8) (I) (ii)	A screening level air quality modeling analysis, or a more detailed modeling analysis if so desired by the applicant, of the direct criteria pollutant (NOx, SO2, CO, PM10, and PM2.5) impacts on ambient air quality conditions of the project during typical	Shasta County DEIR, Section 3.3 Air Quality (TN 48288-5); Shasta County DEIR Appendix B Air Quality and Greenhou se Gas Emissions (TN 248291- 4)	No	Provide the air quality modeling analysis for the readiness testing and maintenance of the 268 hp emergency generator. Otherwise, provide a detailed justification of why such modeling isn't required for this project. Including a description of the engine location on the site, the distance to sensitive receptors, etc.	5/23/20 23 and 29-Jun	Emission calculations for the 268 hp emergency generator are included in the updated air quality modeling analysis (TN# 250273).	AIR-014 - The response (TN 250273) indicates that emissions during typical operation will be much lower than those during project construction activities. The applicant may evaluate impacts to ambient air quality during construction activities (Request AIR-013) and discuss why additional modeling may not be necessary for charactrizing the impacts of typcial operation.	See response to AIR- 010.	The response is insufficien t. The response should provide a detailed justificatio n of why dispersion modeling isn't required for typical operation of the project, including scenarios of emergenc y genrator use.	See air quality response memo with dispersion modeling results (TN# 251208).				

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					(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 meteorolo gical conditions													
LU-008	Deficie ncy Letter Matrix	Land Use	Vahidi Inouye Kerr	Appendi x B (g) (3) (C)	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	TN 248330: Shasta County Use Permit Applicatio n; pdf pages 8 to 16 TN 249296-9: Parcel Owners List	No	Please revise the list of parcels within the project area. The list of parcels within the proposed project area reflects the 2019 proposed project site. The list needs to be	25-May 1-Jun 21-Jun 10-Jul 17-Jul 21-Jul	A table with APNs within the Project Site is included (TN# 250435). See note on 250435 which states: To our knowledge, all of these parcels are recognized as legally created parcels under California law. No parcel mergers are anticipated. No structures, except for linear features such as access roads and collection lines, will straddle parcel boundaries.	The information submitted is incomplete. TN 250289 (LU-008_fwp_response_m emo), TN 250435 (LU-008_fwp_parcel_numb ers_rev2), and TN 250448 (land_use_fwp_respon ses) are not adequate responses to the Warren-Alquist Act Siting Regulation Appendix B (g)(3)(C). The specific information still needed is:Clarification on the list of parcels that include all parcels upon which project activities would occur and that are within the Applicant's defined project site boundary. The list of parcels docketed in TN 250435	The original APN list docketed as TN 250289 was overinclusive. The revised APN list and maps have been docketed as TN 250435 is the correct list. The list in TN 250289 should be disregarde d. A discussion of the legal status of	Thank you for confirming that the corrected list of parcels is provided in TN 250435, and that TN 250289 should be disregard ed. The informatio n submitted is incomplet e. The specific informatio n still needed is the	Lease extension provided (TN# 250984).	CEC Staff has reviewed TN 250984 (Amend ment to Amende d, Restated , and Combine d Option for Wind Energy Lease). Part 3 (Option Term) of the Amendm ent states, "The initial term of the Option shall be	The Applicant entered into the original Option to Lease in 2012. A redacted copy is docketed as TN #250984. Included as Exhibit B to this Option is a Renewable Energy Lease Agreement , which lease will become effective upon exercise of the option. Paragraph	Note that these portions of the lease have been redacte d in the Applican t's dockete d TN #25098 4. Therefor e, Staff cannot review these portions referenc ed in the dockete d file to confirm this informait	See update d lease option (TN# 251202). Page 30 of the PDF notes the lease expirati on date.

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					those						(LU-	the	following:		and	1.5 of the	on.	
					parcels so						008_fwp_parcel_numb	parcels	-Please		remain	Lease	Please	
					that the						ers_rev2) does not	was	provide		in effect	Agreement	enter	
					proposed						match the list of	provided	document		for eight	calls for a	the	
					project,						parcels docketed in TN	as part of	ation of		(8) years	term until	request	
					excluding						250289 (LU-	TN	the lease		after the	May 1,	ed	
					linears						008_fwp_response_m	250435- and is	extension for each		Effective Date of	2047, a term of 35	informati on into	
											emo). The more recent docket filing (TN	repeated	parcel		this	years from	the	
											250435) does not	here: "To	upon		Option	the date of	docket	
											identify any of the	Applicant'	which the		Agreeme	the original	in some	
											changes to the list of	s	Project		nt,	option	format	
											APNs or explain why a	knowledg	would be		unless	agreement	so that	
											revised list of APNs	e, all of	sited as		earlier	. The	Staff	
											was docketed.	these	proof of		terminat	ability to	can	
											A revised discussion	parcels	site		ed or	exercise	referenc	
											of the legal status of	are	control.		extende	the option	e it in	
											the parcels on which	recognize			d in	has been	our	
											the project is	d as	As		accorda	extended	analyse	
											proposed. As required	legally	mentione		nce with	to	s and	
											by the Warren-Alquist	created	d in the		the	2029. See	for the	
											Act Siting Regulation	parcels	prior		provision	TN#	public to	
											Appendix B (g)(3)(C),	under California	dispositio		s herein	250984. T	be able	
											"If the proposed site consists of more than	law. No	rosponso		("Option Term").	he Applicant	to review	
											one legal parcel,	parcel	response, "Although		The	expects	this	
											describe the method	mergers	parcel		Parties	the	informati	
											and timetable for	are	mergers		agree	landowner	on.	
											merging or otherwise	anticipate	are not at		that this	will extend	OII.	
											combining those	d. No	the crux		updated	the lease		
											parcels so that the	structures,	of this		Initial	term to		
											proposed project,	except for	issue,		Option	allow a full		
											excluding linears and	linear	parcel		Term	35 years of		
											temporary laydown or	features	legality		unites	operations		
											staging area, will be	such as	and site		each of	once the		
											located on a single	access	control		the prior	CEC		
											legal parcel." The	roads and	are		Initial	approves		
											proposed project	collection	important.		Option	the		
											includes non-linear and	lines, will straddle	The legal status of		Terms pertainin	project.		
											permanent infrastructure such as	parcel	each		g to the			
											turbines,	boundarie	parcel		Property			
											meteorological and	s." The	upon		that exist			
											microwave towers,	data	which the		within			
											O&M Facilities,	request	Project		the Prior			
											Substation/Switchyard	again	would be		Existing			
											sites that would be	requests	sited is		Property			
											sited on multiple	informatio	important		Options			
											parcels. Per the	n about	and the		to be			
											Warren-Alquist Act	parcel	Applicant		updated			
											Siting Regulation	mergers.	needs to		to run for			
											Appendix B $(g)(3)(C)$,	Parcel	disclose		up to			
											the Applicant must	mergers	parcel		such			
											provide the method	are only	ownership		eight (8)			
											and timetable for	necessary	status, if		additiona			
											merging or otherwise	where	the		I years,			

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											combining those parcels so that they are located on a single legal parcel. Although parcel mergers are not at the crux of this issue, parcel legality and site control are important. The legal status of each parcel upon which the Project would be sited is important and the Applicant needs to disclose parcel ownership status, if the parcels will be purchased or leased, and if there are any encumbrances or deed restrictions associated with each parcel upon which the project would be sited.	non-linear facilities (such as the O&M building or a substation) are proposed to straddle parcel lines. Applicant confirms that no non-linear structures are proposed to straddle parcel lines. Wind energy projects, which commonly comprise thousands of acres, are commonly contructed on multiple legal parcels. It would be impractica I (and unnecess ary) for a utility-scale wind energy project to be constructed d on a single legal parcel. No parcel mergers are proposed	parcels will be purchase d or leased, and if there are any encumbra nces or deed restriction s associate d with each parcel upon which the project would be sited."		in accorda nce with this Section 3, from the Effective Date of this Option Agreeme nt." As the "Effectiv e Date of the Option Agreeme nt" is April 4, 2016, the initial term of the Option would remain in effect until April 4, 2024. Even with the option of lease renewal for an additiona I 8 years after 2024 (i.e., lease expiratio n in 2032), TN 250984 does not provide proof of site control through the			

er Number y Regulations	Dispositi Response No. 3	ion No.	pplicant esponse o. 4	CEC Disposi tion No. 4	Applic ant Respo nse No. 5
or required.		Project's 35-year			
Site		operatio			
ownership and		n period. Please			
control		provide			
has already		proof of site			
been		control			
disclosed		for each			
(TN# 248331)		parcel upon			
and a		which			
lease		the			
extension has been		Project would be			
finalized.		sited			
An word at a d		througho			
updated memoran		ut the propose			
dum of		d 35-			
lease will be		year operatio			
provided		n period.			
as soon					
as it is available.					
Appendix					
B does					
not require					
the					
Applicant to provide					
an la provide					
analysis of					
encumbra nces or					
deed					
restriction					
s on each parcel.					
Nonethele					
ss, the					
Applicant confirms					
that no					
encumbra nces or					
deed					
restriction					
s preclude constructi					
on or					
operation of the					

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VIS-01	Deficie ncy Letter Matrix	Visual Resour ces	Clayton	Appendi x B (g) (1)	provide a discussio n of the existing site conditions, the expected direct, indirect and cumulative impacts due to the construction, operation and maintena nce of the project, the measures proposed to mitigate adverse environm ental impacts of the project, the effectiven ess of the proposed measures, and any monitorin g plans proposed to verify the effectiven ess of the mitigation.	TN 248288-4: DEIR Visual Resources Sections 3.2.2.1 Study Area, 3.2.2.2 Environme ntal Setting, 3.2.4.2 Direct and Indirect Effects of the Project, and 3.2.5 Cumulativ e Impacts TN 248320- 10: Shadow Flicker Rev. 2 TN 248320- 13: Visual Resources Technical Report Rev. 2, Sections 2.2 Setting, 4.0 Affected Environme nt, 5.0 Results and Discussion , and 5.4 Potential Mitigation	No	The current impact analysis addresses the previous project and must be revised to address the currently proposed project. The selected seven KOPs are inadequate to support the present analysis and must be revised/augm ented. Specifically: o Of the original seven KOPs, only two (KOPs 1 and 2) are close enough to the project such that turbines could be perceived. A better balance of distant and proximal viewing locations needs to be represented in the selection of KOPs in order to accurately characterize	2-May and 9-Jun	The KOPs provide the vehicle by which existing and proposed conditions are representatively discussed in the VIA and EIR. The seven KOP locations were prevoiusly identified and selected based on coordination with Shasta County, the lead agency for the Project during development of materials to support the CEQA analysis. Changes will be made to the set of KOPs as follows. Included below are references to: updated viewshed figures, high-resolution JPEG images of existing simulations, and figures showing the comparative effects between the project as proposed in the DEIR and as revised and submitted to the Shasta County Board of Supervisors on 9/13/21 (Fig6_fountain_wind_sims_091321 [TN# 249950-3])), all of which were submitted via Kitework on May 2, 2023: - KOP 1: Remove from set. - KOP 2: Retain. Please see 9/13/21 BOS Fig 6-2D, which indicates that the most proximate / visible turbines remain within the field of view shown here. Please also see high-resolution JPEG of simulation for	- Impact analysis that addresses the current project from all final KOPs Addition of an augmented KOP analysis and additional simulation for the expanded KOP 3 frame of view Replacement of KOP 4 with a new location with analysis and simulation Findings of additional field review to determine feasibility of a second KOP (5b for	Please see visual resources addendum (TN# 250566 and 250567).	The information submitted is incomplet e. The specific information still needed includes the following: • For KOPs 6 (Pit River Overlook) and 7 (Redding), provide the high resolution graphics comparable to what has been submitted for KOPs 2 through 5b. It was not the intent of previous CEC direction to drop KOPs 6 and 7 but to augment them. • For each of the KOPs (2 through 7), add a full-page,	Please see updated visual resources report (TN# 251199), which is intended to replace the previous submittal. New simulations (KOPs 6 and 7 existing + proposed) and revised simulations (KOP 2, KOP 4b, and KOP 5b) have been submitted via Kiteworks (TN# 251200). Updated Table VIS-06 includes dimensions for the O&M building and temporary concrete batch plants (TN# 251196).				

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						TN 248330-2:		Aesthetics		KOP 2	base to the blade tip.		high- resolution,					
						Project		impacts on public views.		(KOP2c_FtnWind_BOS_ Sept2021-revised).	- Submittal of all images in full-page,		existing-					
						Refinemen		For example,		- KOP 3: Supplement. A	high resolution format		view					
						t Memo,		a portion of		second simulation will be	Ŭ .		image to					
						Section		the B turbine		produced showing the			accompan					
						2.6 Visual		string is		view centered to the			y the					
						Resources and 3.0		within one mile of SR		east-southeast from KOP 3. 9/13/21 BOS Fig			provided full-page,					
						Conclusio		299. That		6-3D indicates that			high-					
						ns		segment of		additional turbines would			resolution					
								SR 299 and		be visible. (See			simulation					
								may be an		KOP3cFTNWind_BOS-								
								appropriate location for a		Sept2021-revised) - KOP 4: Add view from			•For each KOP view					
								representativ		closer east-west stretch			orientatio					
								e KOP if		of SR299, per CEC			n inset					
								project		request. Turbines would			map,					
								visibility can		be visible in direct views			please					
								be demonstrated		of short duration; show in deference to			indicate (color					
								demonstrated		disclosure. Simulation			code)					
								o Under the		may also demonstrate			which					
								currently		extent to which new /			specific					
								proposed		expanded roads would			turbines					
								project design, KOP		be visible. (See KOP4c FtnWind BOS-			are visible in each of					
								1 is no longer		Sept2021-revised)			the					
								orientated		- KOP 5: Retain as			simulation					
								toward the		representative of viewer			S.					
								project and		experience from Burney.			• Section					
								must either		The town of Burney is			5 of the					
								be reoriented or replaced		moderately to heavily forested in its downtown			Addendu m					
								such that the		and in areas along /			describes					
								project is		south of SR 299. The			KOP 4b					
								visible in the		northern segment of the			as					
								frame of view.		town consists mainly of			viewing					
								 The visual simulations 		rural residences and small ranches. Where			from eastboun					
								provided to		absence of forested			d SR 299.					
								support the		areas would allow for			Please					
								impact		unobstructed line-of-			verify if					
								analysis are		sight toward the			this is a					
								inadequate in terms of		proposed project, views would appear to			typo and the view					
								quality,		represent private			is from					
								content, and		residences or otherwise			westboun					
								format and		less developed			d SR 299.					
								must be		conditions than the			 Section 					
								revised		community center /			2.1 states					
								and/or o The		gathering place views this KOP was selected			that security					
								resolution of		to represent. (See			lighting at					
								the provided		KOP5c_FtnWind_BOS-			gates					
								images is so		Sept2021-revised)			would be					

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								low that the		- KOP 6: Retain. Please			"shielde					
								turbines		see high-resolution			d and					
								described in the text and		JPEG			downward					
								captions as		(KOP6c_FtnWind_BOS- Sept2021-revised)			-facing to the extent					
								being visible		- KOP 7: Retain. Please			practicabl					
								are minimally		see high-resolution			e and					
								discernible.		JPEG			would be					
								o In some		(KOP7c_FtnWind_BOS-			motion-					
								simulations,		Sept2021-revised)			activated					
								the color of the turbines		Full-page, color			where possible."					
								does not		photographs of the			Please					
								appear as		existing views and visual			clarify the					
								bright (white)		simulations (as included			location of					
								as one would		in the DEIR and			the gates					
								expect for		provided as supplement			(e.g., at					
								turbines not being backlit		to the Shasta County Board of Supervisors in			the					
								by the sun.		September 2021) were			access points					
								This		submitted via Kiteworks			along SR					
								artificially		on May 2, 2023 (See			299?),					
								reduces		KOP files "EXISTING"			and if the					
								structure		and "DEIRproposed").			reference					
								visibility. o Full-page,		With the exception of the			d gates are, in					
								color		two access points along			fact, at					
								photographs		SR 299, road widening			SR 299,					
								of the existing		required by the project			please					
								views and		would be limited to areas			elaborate					
								visual		within the project			the extent					
								simulations of the proposed		footprint and likely not prominently visible from			to which this					
								project at life-		SR 299 or other publicly			lighting					
								size scale		accessible points due to			would be					
								(when the		obstruction from			visible to					
								picture is held		roadside vegetation.			travelers					
								10 inches		The Applicant will			on SR					
								from the viewer's		The Applicant will coordinate with FAA to			299 and what					
								eyes) have		establish the type and			mitigation					
								not been		amount of night lighting			control					
								provided as		required for the Project.			measures					
								required in		This information is not			would be					
								the Siting		known at present. As			implement					
								Regulations Appendix B		agreed in communication with			ed. • The last					
								(g) (6) (F) and		CEC on 4/13/23, the			paragraph					
								must be		Applicant will provide a			in the					
								submitted.		reasonable timeline for			discussio					
								• The DEIR		when CEC would			n of KOP					
								acknowledge		receive final night			4b states					
								s that		lighting plans.			that "Any					
								vegetation cleared					night lighting					
1								corridors may					would be					

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								be detectable in long					highly visible					
								distance views and					from this location."					
								states that					It also					
								minimal visual					states "Roadside					
								contrast					vegetation					
								would result.					would					
								However, there is no					partially or completel					
								analysis or					y block					
								simulations to support this					visibility of light from					
								conclusion.					adjacent					
								Therefore, an					segments.					
								evaluation of the					" Please clarify the					
								considerable					source(s)					
								vegetation clearance					of the reference					
								that is					d light and					
								proposed for the Overhead					identify the					
								Collector					proposed					
								Corridors and					control					
								for Road Widening					measures					
								shall be										
								provided. If any in-line										
								views of a										
								cleared linear corridor are										
								visible from a										
								public										
								vantage point, a										
								representativ										
								e KOP shall be										
								established,										
								and a simulation										
								shall be										
								prepared.										
								* Proposed night lighting										
								at the project										
								site is insufficiently										
								described to										
								support the										
								stated conclusion										
								that lighting										

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								impacts would be less than significant. All proposed lighting with the potential to be viewed by the public beyond the project boundary must be described and mapped. Further, lighting mitigation measures need to be identified where night lighting has the potential to be viewed by the public. In those cases, a night lighting mitigation plan shall be provided.										
VIS-08	Deficie ncy Letter Matrix	Visual Resour ces	Clayto n Kerr	Appendi x B (g) (6) (F)	i) Provid e: full-page color photograp hic reproducti ons of the existing site, and full-page color simulation s of the proposed project at life-size scale when the picture is held 10 inches from the viewer's	TN 248320- 13: Visual Resources Technical Report Rev. 2 TN 248330-2: Project Refinemen t Memo, Figures 5a, 5b, and 5d through 5g	No	o The visual simulations provided to support the impact analysis are inadequate in terms of quality, content, and format and must be revised and/or replaced to correct the following inadequacies: The resolution of the provided images is so low that the turbines	2-May and 9-Jun	Full-page, color photographs of the existing views and visual simulations (as included in the DEIR and provided as supplement to the Shasta County Board of Supervisors in September 2021) provided via Kiteworks on May 2, 2023.	The information submitted is incomplete. The specific information still needed includes the following: - Full-page, color photographs of the existing views and visual simulations for all new and revised or augmented KOPs including KOP 3 (augmented), KOP 4 (to be replaced), and KOP 5 (if an additional viewpoint is added in Burney).	Please see visual resources addendum (TN# 250566 and 250567).	The information submitted is incomplet e. The specific information still needed includes the following: • For KOPs 6 (Pit River Overlook) and 7 (Redding), provide the high resolution graphics	Please see updated visual resources report (TN# 251199), which is intended to replace the previous submittal. New simulations (KOPs 6 and 7 existing + proposed) and revised simulations (KOP 2, KOP 4b, and KOP 5b) have been				

Data Reques t Identifi er	Reque st Source	Topic	Revie wer	Siting Regulati ons	Informati on	Opt-In Page Number And Section Number	Original Determin ation of Adequac y	Information Required To Make OPT Conform With Regulations	Respo nse Date	Applicant Response No. 1	CEC Disposition 1	Applicant Respons e No. 2	Dispositi on No. 2	Applicant Response No. 3	CEC Disposit ion No.	Applicant Response No. 4	CEC Disposi tion No.	Applic ant Respo nse No. 5
					eyes, including any project-related electrical transmissi on lines, in the existing setting from each key observation point. If any landscaping is proposed to comply with zoning requirements or to mitigate visual impacts, include the landscaping in simulation (s) representing sensitive area views, depicting the landscaping five years after installation; and estimate the expected time until			described in the text and captions as being visible are minimally discernible. In some simulations, the color of the turbines does not appear as bright (white) as one would expect for turbines not being backlit by the sun. This artificially reduces structure visibility. Full-page, color photographs of the existing views and visual simulations of the proposed project at lifesize scale (when the picture is held 10 inches from the viewer's eyes) have not been provided as required in the Siting Regulations Appendix B (g) (6) (F), and must be submitted.					comparable to what has been submitted for KOPs 2 through 5b. It was not the intent of previous CEC direction to drop KOPs 6 and 7 but to augment them. • For each of the KOPs (2 through 7), add a full-page, high-resolution, existing-view image to accompany the provided full-page, high-resolution simulation.	submitted via Kiteworks (TN# 251200). Updated Table VIS- 06 includes dimensions for the O&M building and temporary concrete batch plants (TN# 251196).				
VIS-09	Deficie ncy Letter Matrix	Visual Resour ces	Clayto n Kerr	Appendi x B (g) (1)	maturity is reached. An assessme nt of the visual	TN 248288-2: DEIR Section	No	* The current impact analysis	2-May and 9-Jun	See responses to VIS- 01.	The information submitted is incomplete. The specific information still	Please see visual resources addendum	The informatio n submitted	Please see updated visual resources				

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					impacts of	2.4.1,		addresses			needed includes the	(TN#	is	report (TN#				
					the	Figure 2-		the previous			following:	250566	incomplet	251199),				
					project,	4a: Typical		project and			- Impact analysis that	and	e. The	which is				
					including	Wind Turbine		must be revised to			addresses the current project from all final	250567).	specific informatio	intended to replace the				
					light, glare, and	and Figure		address the			KOPs.		n still	previous				
					any	6: Typical		currently			- Addition of an		needed	submittal.				
					modeling	Overhead		proposed			augmented KOP		includes	New				
					of visible	Collector		project.			analysis and additional		the	simulations				
					plumes.	Line Pole		* The			simulation for the		following:	(KOPs 6				
					Include a	TN		selected			expanded KOP 3		• For	and 7				
					descriptio n of the	248288-4: DEIR		seven KOPs are			frame of view Replacement of KOP		KOPs 6 (Pit River	existing + proposed)				
					method	Visual		inadequate to			4 with a new location		Overlook)	and revised				
					and	Resources		support the			with analysis and		and 7	simulations				
					identify	Sections		present			simulation.		(Redding)	(KOP 2,				
					any	3.2.2		analysis and			- Findings of additional		, provide	KOP 4b,				
					computer	Setting		must be			field review to		the high	and KOP				
					model used to	and 3.2.4 Direct and		revised/augm ented.			determine feasibility of a second KOP (5b for		resolution	5b) have been				
					assess	Indirect		Specifically:			residential area) in the		graphics comparab	submitted				
					the	Effects		- Of the			community of Burney.		le to what	via				
					impacts.	TN		original seven			- Narrative description		has been	Kiteworks				
					Provide	248297-2:		KOPs, only			of the location and		submitted	(TN#				
					an	CEQA		two (KOPs 1			visibility (or lack there		for KOPs	251200).				
					estimate of the	Initial Study,		and 2) are close enough			of) of areas to be subjected to road		2 through 5b. It was	Updated Table VIS-				
					expected	Figure 6:		to the project			widening and/or		not the	06 includes				
					frequency	Typical		such that			landscape clearing.		intent of	dimensions				
					and	Overhead		turbines could			- Description of night		previous	for the O&M				
					dimension	Collector		be perceived.			lighting proposed to be		CEC	building and				
					s (height,	Line Pole		A better			used on the site along		direction	temporary				
					length, and width)	TN 248320-		balance of distant and			with any proposed night lighting control		to drop KOPs 6	concrete batch plants				
					of the	13: Visual		proximal			measures to be		and 7 but	(TN#				
					visible	Resources		viewing			employed to minimize		to	251196).				
					cooling	Technical		locations			off-site night lighting		augment	,				
					tower	Report		needs to be			visual impacts.		them.					
					and/or	Rev. 2 TN		represented in the			- Revisions to Table VIS-06 including		• For each of the					
					exhaust stack	1N 248322:		selection of			turbine heights in feet,		KOPs (2					
					plumes.	Executive		KOPs in			total height from base		through					
					Provide	Summary		order to			to the hub, and the		7), add a					
					the	and		accurately			total height from the		full-page,					
					supportin	Project		characterize			base to the blade tip.		high-					
					g	Descriptio		Visual			- Submittal of all		resolution,					
					assumptio ns,	n, Sections		Resources impacts on			images in full-page, high resolution format		existing- view					
					meteorolo	3.1 Wind		public views.			mgn resolution lonnat		image to					
					gical data,	Turbine		For example,					accompan					
					operating	Generator		a portion of					y the					
								the B turbine					provided					
					s, and	Overhead		string is					full-page,					
					calculatio ns used.	Collector System;		within one mile of SR					high- resolution					
					no useu.	4.2		299. That					simulation					

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	Source			ons		Section		With	Date			e No. 2	. •For each KOP view orientation inset map, please indicate (color code) which specific turbines are visible in each of the simulation s. • Section 5 of the Addendum describes KOP 4b as viewing from eastbound SR 299. Please verify if this is a typo and the view is from westbound SR 299. • Section 2.1 states that security	No. 3	3	No. 4	4	
								revised and/or replaced to correct the following inadequacies: - The resolution of the provided images is so low that the turbines described in the text and captions as					lighting at gates would be "shielde d and downwar d-facing to the extent practicabl e and would be motion-					

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								being visible					activated					
								are minimally discernible.					where					
								- In some					possible."					
								simulations,					Please					
								the color of					clarify the					
								the turbines does not					location					
								appear as					of the					
								bright (white)					gates					
								as one would					(e.g., at the access					
								expect for					points					
								turbines not being backlit					along SR					
								by the sun.					299?),					
								This					and if the					
								artificially					reference					
								reduces structure					d gates					
								visibility.					are, in					
								- Full-page,					fact, at SR					
								color					299,					
								photographs of the existing					please					
								views and					elaborate					
								visual					the extent					
								simulations of					to which this					
								the proposed project at life-					lighting					
								size scale					would be					
								(when the					visible to					
								picture is held					travelers					
								10 inches from the					on SR 299					
								viewer's					and what					
								eyes) have					mitigation					
								not been					control					
								provided as required in					measures					
								the Siting					would be					
								Regulations					implemen					
								Appendix B					ted.					
								(g) (6) (F) and must be					• The last					
								submitted.					paragraph					
								* The DEIR					in the discussion					
								acknowledge					of KOP 4b					
								s that vegetation-					states					
								cleared					that "Any					
								corridors may					night					
								be detectable					lighting					
								in long- distance					would be					
								views and					highly					
								states that					visible					

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								minimal visual					from this location."					
								contrast					It also					
								would result. However,					states					
								there is no					"Roadside					
								analysis or simulations to					vegetatio					
								support this					n would partially					
								conclusion.					or					
								Therefore, an evaluation of					completel					
								the					y block					
								considerable vegetation					visibility of light					
								clearance					from					
								that is proposed for					adjacent					
								the Overhead					segments.					
								Collector					" Please					
								Corridors and for Road					clarify the source(s)					
								Widening					of the					
								shall be provided. If					reference					
								any in-line					d light					
								views of a cleared linear					and identify					
								corridor are					the					
								visible from a public					proposed					
								vantage					control					
								point, a					measures.					
								representativ e KOP shall										
								be										
								established, and a										
								simulation										
								shall be prepared.										
								* Proposed										
								night lighting										
								at the project site is										
								insufficiently										
								described to support the										
								stated										
								conclusion that lighting										
								impacts										
								would be less than										
								significant. All										
								proposed										

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								lighting with the potential to be viewed by the public beyond the project boundary must be described and mapped. Further, lighting mitigation measures need to be identified where night lighting has the potential to be viewed by the public. In those cases, a night lighting mitigation plan shall be provided.										
WILDFI RE-02	Deficie ncy Letter Attach ment B	Wildfire	Not specifi ed	Not specified	DEIR Section 3.16.3.1 b) indicates "the Project is not intended for and would not be used for human occupatio n; therefore, no occupants would be exposed to increased risks associate d with wildfire", however there will be up to	Not specified	No	Provide a discussion on the potential for Project construction and operation to increase risks associated with wildfires to workers, including impacts of loss, injury or death from a wildfire or adverse effects due to inhalation of wildfire pollutants.	5/25/20 23 and 29-Jun	The Shasta County DEIR and specialist opinion concluded that there was low risk of wildfire ignition resulting from Project construction. Nevertheless, the Applicant plans to undertake fire prevention practices during construction, such as preparation of a project- specific Fire Prevention Plan (MM 3.16-2a), which mitigates risks to onsite workers and impacts of loss related to wildfire. The FPP will detail the standard fire prevention techniques will be observed during construction, including a prohibition on hot work during high fire risk weather. For details see Wildfire Effects Review memorandum (TN#248297-3).	The information submitted is incomplete. MM 3.16-2a requires and provides details for the Fire Prevention Plan to apply during constructin, operation, and maintetnance, however most of the details apply prevention of wildfire and to the construction phase. Insufficeient detail is included in familiarity/training of operational and maintentance workers with the FPP, manyof the listed fire prevention details are only specifically called out for operation, especially those related to vehicles and fire suppression equipment and red flag warnings, but should	In the event of a wildfire onsite or near the project site, workers have the potential to be directly impacted. The most common wildfire-related health effect is smoke inhalation. According to the National Institute for Occupatio nal Safety and	The response is insufficien t. It does not address CEC Dispositio n 1 regarding addional detail for MM 3.16-2a for fire preventio n practices and procedure s during project constructi on.	Based on clarification received from CEC staff on 7/20/2023, the Applicant understands that the CEC Disposition 2 requests additional detail for MM-3.16-2a regarding fire prevention practices and procedures during project operation. MM-3.16-2a correctly references that the				

t	Reque st Source	Topic	Revie wer	Siting Regulati ons	Informati on	Opt-In Page Number And Section Number	Original Determin ation of Adequac y	Information Required To Make OPT Conform With Regulations	Respo nse Date	Applicant Response No. 1	CEC Disposition 1	Applicant Respons e No. 2	CEC Dispositi on No. 2	Applicant Response No. 3	CEC Disposit ion No.	Applicant Response No. 4	CEC Disposi tion No.	Applic ant Respo nse No. 5
					workers onsite during constructi on and up to 12 full-time employee s onsite during operation.						also occure during operationand/or mainteneance. The information submitted does not address the comment regarding wildfire hazards to workers nor adverse effects of inhalation of wildfire pollutants on workers.	Health, health effects known or suspected to be caused by exposure to wildfire smoke include: - Symptoms such as eye irritation, sore throat, wheeze, and cough, - Asthma and chronic obstructiv e pulmonary disease (COPD) exacerbati ons, - Bronchitis and pneumoni a, - Adverse birth outcomes, and - Cardiovas cular (heart and blood vessel) outcomes. The Applicant will ensure that workers are protected		Applicant will develop a Fire Prevention Plan that will be implemente d during construction, operation, and decommissi oning. The measures that the Fire Prevention Plan shall include focus on mitigating wildfire risk based on specific activities that contribute to potential ignition source, many of which more commonly occur during construction. However some of these activities may also occur during the operations and decommissi oning phases of the Project. Therefore, the Fire Prevention Plan and required measures are designed around				

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												from wildfire		activities, not project				
												smoke by		phase. As				
												adhering		described in				
												to CCR Title 8 SS		3.16-2a, examples of				
												5141.1		fire				
												and other		prevention				
												standard		measures				
												safety practices		that may be applicable				
												outlined in		during				
												the FPP		operational				
												or other		activities				
												operations -phase fire		include, but are not				
												safety		limited to:				
												plan. In		• The				
												the event of an		Project				
												onsite		applicant shall				
												wildfire		designate				
												during		primary and				
												constructi on or		alternate Fire				
												operations		Coordinator				
												, all		s,				
												workers would be		responsible for ensuring				
												promptly		operations				
												evacuated		and				
												, thereby		maintenanc				
												minimizing their		e crews (including				
												exposure		contractors)				
												to wildfire		have				
												pollutants. In the		sufficient fire suppression				
												event of		equipment,				
												an offsite		communicati				
												wildfire during		on equipment,				
												constructi		shall lead				
												on or		and				
												operations		coordinate				
												, onsite air quality will		fire patrols, ensure the				
												be		required				
												monitored		clearances				
												by a designate		are followed onsite, and				
												designate d site		ensure that				
												supervisor		all crew				
												. In the event the		members receive				
												PM2.5 Air		training on				

Couliny index is a component of the comp	ues R st	Reque st Source	Topic	Revie wer	Siting Regulati ons	Informati on	Opt-In Page Number And Section Number	Original Determin ation of Adequac y	Information Required To Make OPT Conform With Regulations	Respo nse Date	Applicant Response No. 1	CEC Disposition 1	Applicant Respons e No. 2	CEC Dispositi on No. 2	Applicant Response No. 3	CEC Disposit ion No.	Applicant Response No. 4	CEC Disposi tion No. 4	Applic ant Respo nse No. 5
interest to components to 151 or or operations operations or operations or operations operations operations or operations operati													Quality		the FPP and				
greater as measured by the control of the control o																			
greater as - Operations measured whites and by a captiment of the captimen															components				
standard source source visually Be A CARB), workers will be nest the webbie. Institute t															Operations				
standard will be source (e.g., inspectified) (E.G.ARB), inspectified (E.G.ARB), workers (instructed) (E.G.ARS), workers (instructed) (E.G.ARS), workers (instr															vehicles and				
source visually (e.g., inspected EPA, for potential sparking with the special sparking the sparking of the spa													by a		equipment				
(e.g. imspected for potential sparking risks prior to will be made in the potential for potential fo																			
EPA, CARB), sparting workers w																			
workers will be operation of instructed the vehicle. Operation of instructed to remain inside vehicle. Operations when we have the contractors of the vehicle of of the vehicl													EPA,						
will be operation of the vehicle to remain instide vehicles or indoor facilities, water tanks, water tanks, relocate to an offsite water tanks, water tanks, relocate to an offsite water area, steep an offsite water tanks, where the stocky and the part of the															sparking				
instructed the vehicle. to remain inside staff and/or contractors or indoor will have staff and/or contractors or indoor facilities, or will vehicles or protable an offsite area, water trucks, or protable and staff and trucks, or protable and staff and trucks, or protable and offsite area, water water water water area, water water water area, water																			
to remain inside vehicles vehicles or indoor facilities, or will relocate to are a contractors will have relocate to are a contractors or indoor facilities, or will relocate to are a contractors or indoor facilities, or will relocate to are a contractors or indoor facilities, or will relocate to are a contractors or portable are a contractors or professor and a contractors or professor and a contractors or portable are a contractors or portable are a contractors or professor and a contractors or portable are a contractors or portable are a contractors or portable and are a contractors or por																			
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or indoor facilities, water tanks, or will water trucks, or will relocate to or portable an offsite area, backpacks water area, backpacks where the sited/availab air quality le on the lindex is at a healthy fire fire the operations of following crews will standard sardery practices collular would be implement is ed:													inside		staff and/or				
facilities, or will water futcks, or will relocate to or portable an offsite water area, water futcks, where the air quality levet in protection. In addition, addition, addition, addition, addition, addition, addition, addition, astery practices would be access that in protection and or practices would be access that in protection and or practices and or pract																			
or will water trucks, relocate to an offsite water area, backpacks where the sited/availab le on the air quality index is at Project for a healthy level. In protection. addition, the operations following standard have radio safety practices cellular would be implement ed: - Relocating to allow or or communicati rescheduli on swith on york smoke free or the O&M less of fice. All smoky fires shall be areas or insported of the proposed of the properted on the properted of the pro																			
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Data Reques t Identifi er	Reque st Source	Topic	Revie wer	Siting Regulati ons	Informati on	Opt-In Page Number And Section Number	Original Determin ation of Adequac y	Information Required To Make OPT Conform With Regulations	Respo nse Date	Applicant Response No. 1	CEC Disposition 1	Applicant Respons e No. 2	CEC Dispositi on No. 2	Applicant Response No. 3	CEC Disposit ion No.	Applicant Response No. 4	CEC Disposi tion No.	Applic ant Respo nse No. 5
												activity when possible, especially strenuous and heavy work; and - Requiring workers to take frequent breaks in places that are free from smoke.		stationary and mobile, will be equipped with spark arresters in good working order. • Light operations trucks and cars with factory-installed mufflers will be used only on roads where the roadway is cleared of vegetation. • Equipment parking areas and small stationary engine sites will be cleared of all extraneous flammable material. • A fire conditions monitoring program will be implemente d to monitor meteorological data during operations. • A monitoring and inspection protocol for turbines and electrical infrastructure will be implemented during operations.				

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														Prohibition on smoking in wildland areas, with smoking limited to paved areas or areas cleared of all vegetation. Each operations				
														vehicle will be equipped with a fire extinguisher sufficient to extinguish small fires.				