Project Name:	Horizon West Transmission's Ironwood Transmission Line	e	_								
Reviewer(s):	Seth Myers		_								
Initial Review Date:	11/5/2025										
PEA Checklist Section ECORP Project Number:	•										
Section	Item Description	Does th	he PEA in item?	nclude thi	Notes	Annlicant Resnonse	UC 2nd Rev em Resolve		Applicant 2nd Response	CPUC 3rd Item Res	
#	nom 2 compact	Yes		N/A			res N		Date:	Yes	
5.3.1 Environmental S	Setting										
	Plans. Identify and describe all applicable air quality plans and				Chapter 5.3 adequately identifies and describes all applicable air quality plans and attainment status for both applicable air basins on						
	areas. Identify the air basin(s) for the Project Area. If the Project more than one attainment area and/or air basin, provide the				page 5.3-4.			n			
	ch attainment area and air basin.							J			
5.3.1.2 Air Quality.	Describe existing air quality in the Project Area.										
a) Identify ex	kisting air quality exceedance of National Ambient Air Quality				This data is adequately provided on page 5.3-4.						
	nd California Ambient Air Quality Standards in the air basin.]			
	ne number of days that air quality in the area exceeds state and				This data is adequately provided in Table 5.3-2 and Table 5.3-3 on page 5.3-5.						
federal air st standards ar	andards for each criteria pollutant that where air quality]			
c) Provide ai monitoring s	r quality data from the nearest representative air				This data is adequately provided in Table 5.3-2 and Table 5.3-3 on page 5.3-5.]			
	eceptor Locations. Identify the location and types of each				No GIS data was received.						
sensitive rec	eptor locations within 1,000 feet of the Project Area. Provide GIS	5									
data for sens	sitive receptor locations.				Revise Table 5.3-4 to (1) include the street name for each identified sensitive receptor location and (2) assign a unique receptor						
Sensitive Re	ceptor locations may include hospitals, schools, and day care				identification number. Update Figure 5.3-1 accordingly to display the corresponding receptor numbers.]			
centers, and	such other locations as the air district										
	lifornia Air Resources Board may determine (California Health Code § 42705.5(a)(5)).										
and Salety C	ode 3 42703.3(a)(3)).										
5.3.2 Regulatory Setti											
	Setting. Identify applicable federal, state, and local s, and standards regarding air quality.				This information is adequately provided on pages 5.3-8 through 5.3-12.		_ _				
laws, policies	s, and standards regarding air quanty.							J			
5.3.2.2 Air Permits.	Identify and list all necessary air permits.				This information is adequately provided on page 5.3-12.			<u> </u>			
								J			
5.3.3 Impact Question											
	stions. The impact questions include all air quality impact the current version of CEQA Guidelines, Appendix G.				The appropriate impact questions are included.			1			
l '						'					
5.3.3.2 Additional C	EQA Impact Questions: None.)			
5.3.4 Impact Analysis											
	lysis. Provide an impact analysis for each checklist				An impact analysis for each checklist item has been prepared.						
	ed in CEQA Guidelines Appendix G for this resource area and lal impact questions listed above.)			
The following informati	on will be presented in the PEA or a technical Appendix to suppor	t the air o	quality im	npact analy	ysis:						
	Emissions Modeling. Model project emissions using the most			_	The most recent version of CalEEMod was employed.						_
modeling pr	on of CalEEMod and/or a current version of other applicable ogram.]			
	nodel input and output data sheets in Microsoft Excel format to				The third paragraph on Page 5.3-15 states that the Swiss Federal Office of Civil Aviation Guidance on the Determination of Helicopter						
	to evaluate whether Project data was entered into the modeling				Emissions is sourced for both "emission factors and methodology" to quantify Project helicopter emissions. Since this is a unique						
	curately. The assumptions used in the air quality modeling must at with all PEA information about the Project's schedule,				emission source, provide such information in this paragraph. Specifically, identify (1) the type of helicopters used for modeling, (2) number of hours in flight assumed daily, and (3) number of take off/landing events assumed daily.						
	nd equipment.				number of flours in hight assumed daily, and (5) humber of take on flanding events assumed daily.						
					Appendix B, Emissions Calculations, does not disclose the helicopter emission factors for the varying activities. Clearly identify the]			
					emission factors used for take off and landing events in addition to cruising in Appendix B.						
					A review of Appendix B, Emissions Calculations, shows that EMFAC2021 was used to calculate on-road mobile emissions. Disclose this						
					in the "Air Quality Methodology" discussion.						
The followin	g information will be addressed in the emissions modeling, Air										
Quality Appe	endix, and PEA:										
	he expected emissions of criteria pollutants from all project-				The third paragraph on Page 5.3-15 states that "It is anticipated that construction would involve the use of two light duty helicopters						
	ces. Quantify emissions for both construction and operation essor equipment).				during the Conductor and Wires Installation construction phase, as well as the use of one heavy duty helicopter during the Structure Installation construction phases. While it is unlikely that the use of all three helicopters (two light duty and one heavy duty) would						
, 5, 5 px					occur at the same time in the same region, it was assumed that the two light duty helicopter would operate simultaneously on any						
					given day and be within proximity of each other (although likely spread out over a great distance across the transmission line						
					pathway)." Amend this sentence to disclose the most conservative scenario of Project helicopter use in a single day, regardless of proximity. Update Table 5.3-8, Maximum Daily Local Construction Emissions for California Project Components, and Table 5.3-9, Annual						
					Local Construction Emissions for Arizona Project Components accordingly.						
					While challenging for an 84-mile linear Project, expand the fourth paragraph on page 5.3-15 to provide a comprehensive description						
					of the anticipated construction sequence, schedule, and equipment usage. The narrative should clearly describe the construction						
					parameters and assumptions applied in the emissions modeling analysis.						

CORP Project Number: 2020-196.03	Does the	e PEA inc	clude th		Applicant Response	nd Review	Applicant 2nd Respo	nnse	CPUC 3rd	
# Item Description	Yes	item?	N/A	Notes Notes	Date:	esolved? Notes No	Date:	i.	Item Res	
				Strike the second to last sentence in the fourth paragraph on page 5.3-15 as follows: "The crews were analyzed individually because they are spaced far enough apart along the transmission line (approximately 0.25 miles or greater) such that any emissions from the varying crews occurring on any given day would not combine to cause a potential exceedance of the NAAQS at any given location." While it is agreed that due to the linear nature of the Project, localized health risk impacts would not occur, the maximum daily emissions generated by the Project within the Salton Sea Air Basin must be compared against the Imperial County Air Pollution Control District daily significance thresholds in order to evaluate regional air quality impacts. The National Ambient Air Quality Standards (NAAQS) are concentration standards and whether two or more crews "combine" to exceed a standard depends on how emissions disperse, not just on linear distance between crews. CEQA analyses should be conservative or demonstrate why a less conservative approach is justified with quantitative analysis. An arbitrary separation of 0.25 mile without justification is not sufficient. Update Table 5.3-8, Maximum Daily Local Construction Emissions for California Project Components, accordingly. Update the first paragraph under Table 5.3-8 accordingly.						
				See the previous two comments and revise or omit the first and second paragraphs on page 5.3-16. Appendix B, Emissions Calculations, does not appear to adequately account for worker or hauling trips over unpaved roads, though the fifth paragraph on page 5.3-16 states that it was assumed that only 60 percent of total trips would be on paved roads, and thus 40 percent on unpaved roads. The fugitive dust emission rates (PM10) from travel on unpaved roads should be substantially greater than emissions rates from travel on paved roads. A review of Appendix B actually shows slightly higher emission rates from travel on paved roads.						
				First, update this paragraph to provide an explanation of why it is assumed 60 percent of total trips would be on paved roads and 40 percent on unpaved roads. Next, either use CalEEMod to calculate emissions from unpaved roads, instead of EMFAC, or calculate fugitive dust emissions for travel on unpaved roads using the methodology described in Section 13.2.2 of USEPA's AP-42, as shown in the cell below: Where: EFunpaved = unpaved road dust emission factor (g/mile).						
				Erunpaved – unpaved road dust emission factor (g/mine). $ \square = \text{particle size multiplier for particle size range. The AP-42 default values are 816.47 g/VMT for PM2.5 and 81.65 g/VMT for PM10.} $ $ \square = \text{surface material silt content (%).} $ $ \square = \text{surface material moisture content (%).} $ $ \square = \text{EFunpaved} = \left(k\left(\frac{s}{12}\right)1\left(\frac{s}{30}\right)0.5 \div \left(\frac{M}{0.5}\right)0.2 - C\right) \times (1 - P \div 365) $						
				The first paragraph on page 5.3-25 describes the fact that the use of helicopters may be used periodically during Project operations. In order to provide greater disclosure to the analysis and to identify that operational emissions would not exceed regional significance thresholds, develop and describe a reasonable scenario for a day of operational helicopter use and calculate and disclose the emissions from take off/landing events as well as cruising.						
b) Identify manufacturer's specifications for all proposed new emission sources. For proposed new, additional, or modified				This information is included, as applicable.						
compressor units, include the horsepower, type, and energy source.										
c) Describe any emission control systems that are included in the air quality analysis (e.g., installation of filters, use of EPA Tier II, III, or IV equipment, use of electric engines, etc.).				This information is included, as applicable.						
d) When multiple air basins may be affected by the Project, model air emissions within each air basin and provide a narrative (supported by calculations) that clearly describes the assumptions around the Project activities considered for each air basin. Provide modeled emissions by attainment area or air basin (supported by calculations).		~		See Comment for 5.3.4.2 Air Quality Emissions Modeling above, starting with text "The third paragraph on Page 5.3-15 states" While challenging for an 84-mile linear Project, expand the fourth paragraph on page 5.3-15 to provide a comprehensive description of the anticipated construction sequence, schedule, and equipment usage. The narrative should clearly describe the construction parameters and assumptions applied in the emissions modeling analysis.						
5.2.4.3 Air Quality Emissions Summary. Provide a table summarizing the air quality emissions for the project and applicable thresholds for each applicable attainment area. Include a summary of uncontrolled emissions (prior to application of any APMs) and controlled emissions (after application of APMs). Clearly identify the assumptions that were applied in the controlled emissions estimates.				See Comment above. Currently the assumptions that were applied in the controlled emissions estimates are not clearly identified.						
5.2.4.4 Health Risk Assessment. Complete a Health Risk Assessment when air quality emissions have the potential to lead to human health impacts. If health impacts are not anticipated from project emissions, the analysis				Due to the linear nature of Project construction, where pollutant-generated activities would not occur at any single location for long periods, a Health Risk Assessment is not necessary.						
should clearly describe why emissions would not lead to health impacts.				The last sentence of page 5.3-25 states that, "The nearest sensitive receptor to the Proposed Project is a single-family residence located south of the intersection of Tubbs Road and Vencii Road." However, Table 5.3-4 on page 5.3-6 of the chapter identifies several other residential receptors within 0 feet of Project construction. Revise this sentence to include the locations of all residential receptors identified as within 0 feet in Table 5.3-4.						
				The fourth paragraph on page 5.3-26 states, "Approximately six miles of the Proposed Project is located in Arizona; however, no sensitive receptors are situated within 1,000 feet of project construction." However, Figure 5.3-1 of the chapter identifies at least two residential receptors with 1,000 feet, contradicting this statement. I review of aerial imagery does show residential receptors southeast of the North Gila Station. Revise this statement to reflect this. \square						

5.3.5 CPUC Draft Environmental Measures (from Attachment 4)

Item Description	Does the PEA include item?	Notes	Applicant Response	CPUC 2nd Review Item Resolved?	Notes	Applicant 2nd Response	CPUC 3rd l
Pust Control During Construction. The Applicant shall implementation to control fugitive dust in compliance with all local standards. Dust control measures shall include the following at All exposed surfaces with the potential of dust-generating surfaces with coarse rock to reduce the potential for airbord eaving the site. The simultaneous occurrence of more than two ground districtions phases on the same area at any one time shall be activities shall be phased to reduce the amount of disturbed the time.	air district(s) t a minimum: nall be watered ne dust from urbing t limited. urfaces at any	It is noted on page 5.3-30 that any construction dust control measures required under local air	listrict regulations will be implemented.	Yes No		Date:	Yes
Cover all haul trucks entering/leaving the site and trim their ecessary Use wet power vacuum street sweepers to sweep all paved a arking areas, staging areas, and public roads adjacent to propaily basis (at minimum) during construction. The use of dry paweeping is prohibited. All trucks and equipment, including their tires, shall be washeaving project sites. Apply gravel or non-toxic soil stabilizers on all unpaved accelerating areas, and staging areas at project sites. Water and/or cover soil stockpiles daily.	ccess road, ect sites on a ower ed off prior to						
Vegetative ground cover shall be planted in disturbed areas ossible and watered appropriately until vegetation is establishall vehicle speeds shall be limited to fifteen (15) miles per homeoved areas. Implement dust monitoring in compliance with the standard ir district. Halt construction during any periods when wind speeds are nph.	hed. our or less on s of the local						