DOCKETED	
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Document Title:	Soil & Water responses to DRs Set No 1 - Genesis Parking Structure PTA
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Resource Area	1	Response
Air Quality	*Please explain the status of the parking area that was partially built in 2017 and explain how it relates to the parking structure proposed in the current amendment request.*	The partially constructed parking area referenced from 2017 and the parking structure proposed in this amendment request are the same facility improvement. Limited site preparation and initial construction activities were undertaken in 2017 as part of efforts to improve on-site parking and operational support infrastructure for plant personnel. During implementation, the project team identified that completion of the parking structure should be reviewed through the California Energy Commission's amendment process. As a result, construction activities were suspended and the structure has remained incomplete pending regulatory review and authorization. The current amendment request is intended to obtain CEC approval for the parking structure and associated improvements prior to any further construction. No additional work on the structure will be undertaken until the applicable approvals are obtained. This amendment therefore addresses and formalizes the previously initiated but incomplete parking structure improvement so that it may be completed in accordance with the Commission's permitting requirements.
Air Quality	*Please provide the estimated amount of time needed to construct each component of the new parking structure.*	Parking structure construction would take approximately 1 month from mobilization.
Air Quality	*Please estimate the number of each type of construction equipment needed to conduct the work. Include fuel type.*	Types of equipments (one of each): excavator, water truck, soil compactor, backhoe, small crane.
Air Quality	*Please explain whether the onsite parking structure would occur concurrently.*	The parking structure and well replacement work would not be constructed concurrently.
Air Quality	*Please verify that the emissions impacts are not significant, as stated in the amendment request. One approach for evaluating impacts for significance is to compare amendment equipment use to the equipment used to construct this facility originally.*	Emission impacts of the project would not be significant with the implementation of COCs AQ-SC-1 through AQ-SC-5. The scope of construction work contained in this amendment request is substantially reduced in size, intensity, and duration from the original project. The project would only require limited equipment that would produce emissions and construction duration would only be approximately one month long.
Geologic Hazards	*As required in the CBC Section 1803, please provide a preliminary site-specific geotechnical investigation that includes an evaluation of, and recommended mitigation for, site-specific geologic conditions and hazards to mitigate potential impacts to less than significant.*	CEC has confirmed via email that the original geotechnical investigation associated with the Genesis Project is sufficient to cover the PTA SOW.
Geologic Hazards	*Revise the PTA application to evaluate potential impacts related to geologic hazards that may occur during project grading, construction, and operation according to the CEQA guidelines checklist found in Appendix G.*	CEC has confirmed via email that the original geotechnical investigation associated with the Genesis Project is sufficient to cover the PTA SOW.
Geologic Hazards	*Revise the PTA application to evaluate if the mitigation proposed in the preliminary site-specific geotechnical investigation, along with conformance with applicable LORS, would mitigate potential impacts related to project construction and operation and geologic hazards to less than significant.*	CEC has confirmed via email that the original geotechnical investigation associated with the Genesis Project is sufficient to cover the PTA SOW.
Paleo	*Evaluate if the existing COCs PAL-1 through PAL-7 would mitigate potential impacts on paleo resources to less than significant.*	Dudek paleontologists have reviewed the proposed scope of work and determined that COCs PAL-1 through PAL-7 from the original approval would mitigate potential impacts to less than significant. The project team would incorporate updated guidelines from the Society of Vertebrate Paleontology (released in 2025) during implementation to reflect current professional standards.
Soil and Water Resources	*Please provide a detailed site plan of the proposed location of the parking structure within the Genesis Solar Energy Project facility.*	The project site plan can be found on page 13 of the petition to amend request. We can produce supporting exhibits as needed if additional detail is required.
Soil and Water Resources	*Please provide a spatial estimate and depth of soil disturbance.*	Foundation details can be found on page 17 of the petition to amend request. Each foundation would be approximately 8' deep, and each foundation pad would be 7' by 7'.
Soil and Water Resources	*Please provide an estimate of the water used for dust suppression during construction.*	Construction water demand would be limited to dust suppression. Dust control water use was estimated using a rate of 1,000 gallons per acre per day applied to the active disturbance area over the construction period. This rate reflects typical water application practices for controlling fugitive dust emissions during construction activities in arid desert environments.



SOURCE: ESRI World Imagery

DUDEK 0 100 200 Feet

FIGURE 1

Improved Parking Structure

Genesis Solar