

## Alberhill System Project Data Gap Set #7

DR#. DG#	Resource Area/ Topic	Source / PEA Page	Data Gap Question	Request Date	Reply Date	Status	Notes
<b>Data Request #7</b>							
7.1	Project Description / Cumulative Impacts	Ch. 3.0 / Ch. 6.0 / Table 6.1	<p>Provide detailed information about the following project listed in Table 6.1 of the PEA. Describe how many circuits would be added and other aspects of the project. Describe how it relates to the Alberhill System Project. Provide the full name of the project and the full PEA if already submitted:</p> <p>SCE, Reconductor Valley-New comb leg of Valley-New comb-Skylark 115 kV subtransmission line, Planning stage, Construction in 2010</p>	02/18/10			
7.2	Alternatives	Pg. 2-1, Ch. 2	<p>A company that would be involved with the LEAPS site development has stated that a substation and switchyard would be constructed on that site.</p> <p>a. Explain why the transmission lines could not circumvent Lee Lake and/or avoid an overhead crossing of Lee Lake.</p> <p>b. Provide data and maps that confirm the site is “susceptible to liquefaction, and there is evidence of past faulting on and adjacent to the site.”</p> <p>c. 40 acres is more than enough space to build the proposed substation (see data response10/28/2009 Alberhill-ED-SCE-001 Q.03 Response.pdf). Provide sufficient reasoning to support the claim that a rectangular substation cannot be constructed at the LEAPS site.</p> <p>d. How much additional double-circuiting would be required (in miles) if the LEAPS site were chosen for Alberhill Substation construction instead of the proposed site.</p> <p>e. Describe how the 115-kV lines would exit the LEAPS site and be routed into the existing 115-kV system (e.g., number and placement of poles). Provide a map and reference it in the description.</p>	02/18/10			

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7.3	Alternatives	Sec. 1.3.3, Ch. 2	<p>a. Provide a detailed illustration/schematic of the Valley Substation.</p> <p>b. Provide a detailed map of sufficient scale to show the Valley Substation and the surrounding properties, developments, roads and railroads. Indicate ownership of the surrounding properties.</p> <p>c. Provide sufficient explanation with reference to the illustration and map to support the claim that there is not enough room for six transformers at the Valley Substation and that it is not feasible to expand the size of the Valley Substation.</p> <p>d. What is SCE's policy with respect to having the spare transformer connected to the system on the high side and/or the low side? Do planning criteria call for connection or just having the spare located on site?</p>	02/18/10			
7.4	Alternatives	Sec. 1.3.3, Ch. 2	<p>a. Provide sufficient load data to support the claim that "although System Scenario 3 would provide the capacity needed for SCE to safely and reliably serve electrical demand within the Valley South 115 kV System, it would only serve customer demand until 2015, at which point a new system project would again be required. Additionally, by 2013, approximately two years after the initial transfer of electrical demand from the Valley South 115 kV System to the Valley North 115 kV System, a new project would be required to add capacity to the Valley North System."</p> <p>b. Explain how the Valley North System connects with the Vista Substation and provide maps to support this explanation.</p> <p>c. Provide an estimate of how much Valley North load could be transferred to the Vista system along with the time period in which this would be possible. Could additional load be accommodated through rerating of the Vista lines via relatively minor Vista system reinforcements (i.e., switch replacement, reconductoring, etc.)?</p> <p>d. Provide historical and projected load data for Vista Substation. Provide specifications on the Vista Substation including the rating, number of transformers, expansion capability, and development plans.</p>	02/18/10			

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7.5	Alternatives	Ch. 2	<p>(a) Discuss the pros and cons of constructing a single-tower, double-circuit configuration for the 500-kV lines from Alberhill Substation to the Serrano–Valley 500-kV Transmission Line. Explain how construction would differ from the proposed construction of two separate 500-kV lines. Indicate, at minimum, the heights of the various poles, all types of and number of poles required, pole width, ROW width, construction footprint, staging areas, tension and pull sites, additional equipment needed, equipment that would not be needed, foundation (pad) dimensions, depth of hole, spur and access roads, etc.</p> <p>(b) Regarding potential future expansion of the substation to four 500-kV transmission line, discuss the pros and cons of constructing two 500-kV lines as part of the initial build out that could be double-circuited in the future without structure replacement.</p>	02/18/10			
7.6	Project Description / Alternatives	Ch. 3 Ch. 2	<p>(a) Discuss the feasibility of removing sections of the Valley–Elsinore–Ivyglen 115-kV line once the Alberhill System Project is operational. In addition, indicate on a map of suitable scale which sections of the Valley–Elsinore–Ivyglen line could feasibly be removed. Removal would mean disposal, recycling, or salvaging of the conductor and all structures supporting it.</p> <p>- Example 1: Removal of the Valley–Elsinore–Ivyglen 115-kV line section from Valley Substation southwest to a point northwest of the Elsinore Substation (where a switch is or would be installed).</p> <p>- Example 2: Removal of Valley–Elsinore–Ivyglen 115-kV line sections between Elsinore, Fogarty, and Alberhill substations with use of the double-circuited Valley–Ivyglen Line.</p> <p>(b) Discuss the feasibility of removing open-span sections that lead back to Valley Substation once the Alberhill System Project is operational. In addition, indicate on a map of suitable scale which open spans sections could feasibly be removed.</p>	02/18/10			

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7.7	Project Description	Table 3.4, Ch. 3	<p>* The text description of structures to be removed and replaced and the numbers listed in Tables 3.3 and 3.4 and Data Gap Response 5.20 do not match up. The following three data gap requests address this issue.</p> <p>(a) Table 3.4 (outside public row) indicates the 115-kV wood H-frames and woodpoles would be removed and replaced. It is our understanding that Table 3.4 refers to the Alberhill Substation site, 500-kV lines, and 115-kV line TPSs at the Alberhill site needed for connection to the 115-kV system. Indicate, in terms of the 115-kV Segments 1 through 8 identified in the attached map, where the 115-kV structures would be removed and installed that are listed in Table 3.4.</p>	02/18/10			See attached map showing segment names.
7.8	Project Description	Ch. 3.0	<p>(a) Confirm the accuracy of all of the information presented in the attached Table 2-1 Project Components.</p> <p>(b) What would be the length of the 115-kV subtransmission lines at the Alberhill Substation that would connect the substation to the 115-kV subtransmission line system? Approximately 0.25 miles?</p> <p>(c) Compare the numbers of structures removed and installed to data gap 5.20 and PEA Tables 3.3 and 3.4. Clarify the following discrepancies with the analysis of the numbers presented in the PEA:</p> <p>(d) Pg. 3-8: Number of LSTs installed for 500-kV = 10 or 12 (with those along Valley-Serrano Line) Number of LSTs removed for 500-kV = 4</p> <p>(e) Pg. 3-17 to 3-19: The following number of structures would be removed (in order listed in the PEA text): 12, 106 (3, 104 = 107?), 127, 5, 2, 66, 1 = 319 structures removed. DG 5.20 says 267 removed, please clarify. List number and type of structures to be removed by segment (see attached summary table).</p>	02/18/10			<p>- See attach project summary table.</p> <p>- See attached map showing segment names.</p>

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7.9	Project Description and Agricultural and Biological Resources	Table 3.3/3.4, Sec. 2.2, Sec. 2.3.1 Figure 2.3	<p>a) What is the construction easement width required for installation of the 115-kV subtransmission lines? Table 3.3 implies that at the widest, a 100-foot construction easement width would be required in terms of the <i>centerline</i> (e.g., 100 feet total or 100 feet on both sides of the centerline or a 100 foot diameter with the structure at the center). Indicate where and how distances vary.</p> <p>b) What is the construction easement width required for installation of the 115-kV subtransmission lines at the Alberhill Substation to connect to the 115-kV subtransmission line system? Update Table 3.4 with this data. Indicate width in terms of the centerline (or diameter with the structure at the center).</p> <p>c) Include land disturbance related to installation of the switch pole east of the Newcomb Substation (see PEA Figure 2.3) in Table 3.3 or 3.4 as applicable.</p> <p>d) Include land disturbance related to installation of the two poles immediately south of the Alberhill Substation and on both side of I-15 in Table 3.3 or 3.4 as applicable.</p> <p>e) Add rows to Table 3.3 and 3.4 for staging areas, tension and pull sites, and marshalling yards. Fill in the disturbance data and recalculate the totals.</p> <p>f) Create a table like Table 3.3, with staging areas, tension and pull sites, for 115-kV Subtransmission Segment Alternative 2 (Sec. 2.3.1.2)</p> <p>g) What is the total land disturbance for the proposed project (Alberhill Substation, 500-kV lines, 115-kV lines, telecom): Acres disturbed during construction ____; Acres to be restored ____; Acres required (permanently disturbed) ____. Reference the revised Tables 3.3 and 3.4 to indicate the data used for this calculation.</p> <p>h) The PEA states that that an approximate 150 by 75 foot area around each LWS pole would be needed (the laydown area). Would this be the same for H-frame structures (H-frame structures are composed of LWS poles)? - Table 3.4 indicates that new wood h-frames would be constructed but Table 3.2 indicates that the H-frames would be built from LWS poles.</p>	02/18/10			

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7.10	Hazards and Hazardous Materials	Sec. 4.7	<p>Provide details for all hazardous materials that will be used for each component of the proposed project including the 500-KV lines and towers; 115-kV lines and structures; telecommunications lines (overhead and underground); switch poles; locations where spans of wire would be removed; microwave tower and dish antennas; and the proposed Alberhill Substation. Include:</p> <ol style="list-style-type: none"> <li>1) a list of the name of each hazardous material as it appears on Material Safety Data Sheets;</li> <li>2) the quantity of each hazardous material that would be used;</li> <li>3) the purpose each of the materials will fulfill per project component;</li> <li>4) a description of how each hazardous material would be transported to the respective project component;</li> <li>5) a description of how each hazardous material would be administered for the purpose;</li> <li>6) a description of how each hazardous material would be stored while in use for the project; and</li> <li>7) a description of how each hazardous material would be disposed of (including where, when, and by whom).</li> </ol> <p>Specifically address the following materials (if none say so):</p> <p>Transformer oil</p> <ul style="list-style-type: none"> <li>- Dielectric fluid/capacitors ____ amount, for ____, etc.</li> <li>- Fuels/ Diesel/Gas ____ amount, for ____, etc.</li> <li>- Lube Oils/Grease ____ amount, for ____, etc.</li> <li>- Used Oil ____ amount, for ____, etc.</li> <li>- Solvents/Coatings/Paints ____ amount, for ____, etc.</li> <li>- Compressed Gas/Argon/Nitrogen ____ amount, for ____, etc.</li> <li>- Propane ____ amount, for ____, etc.</li> <li>- SF6 Gas ____ amount, for ____, etc.</li> </ul> <p>- The PEA indicates that treated wood poles would be removed. Indicate the number and location of the wood poles to be removed. How would they be disposed of?</p>	02/18/10			

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7.11	Project Description	Ch. 3.0, Tables 3.3/3.4	<p>- The PEA indicates that approximately 12 acres needed for construction of the 500-kV transmission lines would use land acquired for the proposed substation site. The remaining 10 acres needed for construction of the 500-kV transmission lines would be acquired from four private property owners and the Riverside County Habitat Conservancy Agency.</p> <p>- These estimates for land to be acquired are not consistent with the map provided in response to Data Gap 5.1 or with Tables 3.3 and 3.4. Clarify the discrepancy. How much land and from whom would the land be acquired for construction of the 500-kV transmission lines?</p>	02/18/10			
7.12	Hydrology and Water Quality / Utilities and Service Systems	Sec. 4.8, Sec. 4.16	<p>(a) Estimate the amount of water to be used in gallons for dust suppression, equipment cleaning, and powerline washing, creating cement, worker personal use, restroom, fire suppression, revegetation, restoration, and all other activities that would require water for all project components (the Alberhill Substation, transmission lines, subtransmission lines, etc.) during</p> <p>- construction (___ gallons) and</p> <p>- operations and maintenance, including landscaping irrigation, restroom, equipment cleaning, and powerline washing, (____ gallons)</p> <p>(b) Indicate where water would come from and how much would come from each source (e.g., well, private contractor, municipal, etc.).</p>	02/18/10			
7.13	Project Description	Ch. 3	<p>- Why are the two poles being replaced along Temescal Canyon Road, on both sides of I-15 just across from the proposed Alberhill Substation site, part of the Alberhill System Project?</p> <p>- What is the name of the subtransmission line associated with these two poles?</p>	02/18/10			
7.14	Project Description	Ch. 3	<p>Complete and confirm that accuracy of the following statements regarding the Alberhill Substation's switchcracks:</p> <p>- The 500-kV switchcrack would use gas-insulated switchgear. The gas-insulated switchgear, which contains sulfur hexafluoride gas, would be used <u>instead of oil, vacuum, compressed-air, or other switchgear options available</u>, because less space would be required and _____.</p> <p>- The 115-kV switchcracks would not use gas-insulated switchgear, but _____ switchgear.</p>	02/18/10			
7.15	Visual Resources	Sec. 4.1	<p>Provide character photos and simulations in JPEG or equivalent format that are suitable for print. Provide GPS locations (including bearing/direction of photograph) for each photo.</p>	02/18/10			

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7.16	Project Description / Visual Resources	Ch. 3, Sec. 4.1 Figure 3.2	<p>What are the heights of all existing wooden poles that would be replaced and what height and type of pole would they be replaced with? What height and type of replacement poles will be visible from I-15 west of Railroad Canyon Road? Provide the specification on (including capacity) of the existing line that is visible from I-15 west of Railroad Canyon Road?</p> <p>- Figure 3.2 says 95 to 165 feet 500-kV towers but the text says "the towers would have a dull galvanized steel finish and would range in height from approximately 95 to 172 feet." Provide an accurate height range with a minimum and maximum height (do not approximate the maximum height).</p> <p>- The dimensions listed in Figure 3.4 differ from what is stated in the PEA text. The PEA text states that for the 115-kV lines, TSPs would be from 70 to 100 feet tall. LWS poles would be from 65 to 91 feet tall. H-frame structures would be from 70 to 80 feet tall. The LWS switch pole would be 85 feet tall. Provide accurate height ranges with a minimum and maximum height (do not approximate the maximum height).</p>	02/18/10			
7.17	Project Description / Visual Resources	Ch. 3, Sec. 4.1	<p>Provide additional details about revegetation and restoration plans for lands temporarily disturbed by construction. What areas will be revegetated? What areas will be restored? Will recontouring take place? Who will determine and what will be used to determine which species of plants are approved for revegetation? What metrics will SCE use to determine whether revegetation has been successful?</p>	02/18/10			
7.18	Project Description / Visual Resources	Ch. 3, Sec. 4.1	<p>Provide an engineering drawing of the 120-foot antenna tower and each microwave dish antennae. In addition, provide photos of similar fully-constructed antenna towers and microwave dish antennae.</p>	02/18/10			
7.19	Visual Resources	Sec. 4.1	<p>Provide additional information about the Alberhill Substation setbacks. At minimum, indicate the minimum and maximum setbacks from the substation block wall to both Temescal Canyon Road and Concordia Ranch Road.</p>	02/18/10			

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7.20	Visual Resources	Sec. 4.1	<p>- SCE previously indicated (in conversation with E&amp;E on December 9, 2009) that there would be landscaping around the perimeter of the Alberhill Substation. Provide detailed information about all planned landscaping. At minimum, indicate who will approve the landscaping plans, who will approve the species list for the landscaping, how soon after construction landscaping will be installed, how and for what duration (e.g., for as long as SCE operates the substation) landscaping will be maintained, and who will ensure that landscaping is being maintained.</p> <p>- Provide the landscaping plan.</p> <p>- Indicate all areas that would be landscaped including and in addition to the Alberhill Substation site.</p>	02/18/10			
7.21	Cultural Resources (Paleo)	Ch. 4.5	Provide copies of the documentation used in preparing the paleontological resources sections of the cultural resources section of the PEA report prepared for the applicant.	02/18/10			
7.22	Cultural Resources (Paleo)	Ch. 4.5	Provide a copy of the paleontological records search conducted at the San Bernardino County Museum.	02/18/10			
7.23	Cultural Resources (Paleo)	Ch. 4.5	Provide a copy of the paleontological assessment used in preparing the paleontological resource section of the cultural resources section of the PEA.	02/18/10			
7.24	Project Description	Ch. 3 / Figure 3.1	Provide the information needed to complete the following statement: An unpaved private road that would be within the footprint of the proposed Alberhill Substation would be relocated approximately ____ feet west to the location shown in PEA Figure 3.1.	02/18/10			
7.25	Project description	Ch. 3	<p>(a) Provide the model and complete technical specifications for each type of switchrack (500-kV and 115-kV) to be installed in the initial build of the Alberhill Substation (including the gas-insulated switchrack).</p> <p>- If the model(s) is not known, at minimum, provide a range for the amount of SF6 gas or other insulating medium that would be contained in the switchrack.</p> <p>(b) Provide the model and complete technical specifications for the air conditioner to be installed in the Alberhill substation control building.</p> <p>- If the model(s) is not known, at minimum, provide the type and a range for the amount of refrigerant that would be contained in the air conditioner.</p> <p>(c) If a fire suppression system would be installed at the Alberhill Substation, provide its specifications and information about the fire suppression medium (type of medium and a range for the quantity of suppression medium).</p>	02/18/10			

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7.26	Alternatives	Sec. 2.2, Ch. 2	(a) Confirm that the construction of 500-kV Segments C2 and C3 would require entry onto BLM land. Why would Segments C1 and C4 not require entry onto BLM land? (b) Indicate which property is managed by the BLM in terms of the map provided in response to Data Gap Request 5.1 that shows property ownership. (c) Explain why BLM land access would be required for these two segments. Discuss how construction of the Segments C2 and C3 would differ from construction of 500-kV segments that do not require BLM land access.	02/18/10			
7.27	Aesthetics / Project Description	Sec. 4.1 Ch. 3	Provide complete specifications, including total lumens, for each type of light to be installed at the Alberhill Substation (e.g., access, maintenance, low-intensity with photo sensor, double-flash strobe beacon lights). See also the Riverside County Ordinance 655 for the Palomar Observatory and state whether the proposed project (all components including the transmission, subtransmission, and telecommunications lines) would be in compliance in terms of the Palomar Observatory ordinance zone and lighting classes.	02/18/10			
7.28	Cultural Resources	Ch. 4.5	Provide copies of all additional correspondence or other consultation conducted with Native American groups that identified the unspecified type and location of a cultural resource in the vicinity of the proposed project, including information on measures that would be taken to avoid, reduce, or mitigate for impacts on this cultural resource.	02/18/10			
7.29	Cultural Resources	Ch. 4.5	Provide copies of all additional correspondence or other consultation conducted with Native American groups that identified tribal use areas (TUAs), including information on measures that would be taken to avoid, reduce, or mitigate for impacts to the TUAs.	02/18/10			
7.30	Project Description	Ch. 3 / Figure 3.1	(a) Indicate where the third manually operated gate would be located at the eastern end of the substation that would provide access to the 500-kV transmission lines on PEA Figure 3.1. (b) Where would the walk-in gate be located?	02/18/10			
7.31	Cultural Resources	Ch. 4.5	Confirm that prehistoric or historic formal cemeteries, family plots, burial mounds, cremation sites, or individual human burials were evaluated in the cultural studies complete for the proposed project areas. If none were identified, indicate this.	02/18/10			
7.32	Cultural Resources	Ch. 4.5	Identify all additional recommended procedures by Native American groups with an interest in the proposed project. Indicate whether these Native American group-recommended procedures would be followed. If not, explain why not.	02/18/10			

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7.33	Geology, Soils, and Minerals	Sec. 4.10.4.1 and Sec. 4.10.4.2	Provide sufficient mineral resource data and references to support the following conclusion from the PEA: mineral resources may be present in the proposed project area but are either within existing ROW or lie within an area of unknown or poorly delineated resource potential.	02/18/10			
7.34	Project Description	Ch. 3	Complete and confirm that accuracy of the following statements regarding the Alberhill Substation's transformers: - Each of the 560 MVA 500/115-kV transformers, including the spare transformer, at the Alberhill Substation would be 37-feet high and contain approximately _____ gallons of transformer oil. -The spare 560 MVA 500/115-kV transformer would be connected to the Alberhill Substation but idled. It would only be activated in emergency conditions, which may include periods of high electrical demand or failure of one or more of the other transformers.	02/18/10			
7.35	Project Description	Ch. 3	The parking area would be 7,600 square feet. How many square feet of the Alberhill Substation, in total, would be paved?	02/18/10			
7.36	Project Description	Ch. 3 / Figure 3.1 / Figure 2.2 / Appendix D	Clarify where the 500-kV transmission towers would be located on Figure 3.1. The location appears to differ with regard to Figures 2.2, and the road story provided in Appendix D.	02/18/10			
7.37	Utilities and Service Systems	Ch. 4.16	Estimate the amount of solid waste, in tons, that would be generated during construction of the proposed project. Estimate the amount, in tons, that would be disposed of in landfills and the amount that would be recycled or salvaged.	02/18/10			
7.38	Utilities and Service Systems / Project Description	Sec. 4.16, Ch. 3	(a) How many people (or number of farm animals and farms) and what communities does the water line to be relocated serve? How long would water use from this line be out of service during this upgrade? (b) Provide references and discussion to support the statement that "relocation of the pipeline is not expected to have any impact on local water service." (c) Will relocated water line (30-inch pipe) be located above ground? (d) How long would the new 30-inch pipeline (1,700-feet long) be extended or shortened for the relocation?	02/18/10			
7.39	Utilities and Service Systems	Ch. 4.16	Provide a complete copy of the latest applicable version of SCE's Salvage Services Manual and Waste Management Manual. Provide site specific documentation if available or indicate when it will be available if planned.	02/18/10			

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7.40	Project Description	Ch. 2 Figure 3.4	- Add a diagram to Figure 3.4 of the dead-end structures to be installed where open spans would be made as part of the proposed project (e.g., on the Valley-New comb 115-kV subtransmission line. - Explain why open spans would be created instead of installing switches or a switch pole.	02/18/10			
7.41	Project Description	Ch. 3	Provide a complete copy of the latest applicable version of SCE specifications and documentation or manuals for helicopters used for the erection of structures. Provide site specific documentation if available or indicate when it will be available if planned.	02/18/10			
7.42	Project Description / Public Services	Pg. 3-3 and Fig. 3.1, Ch. 4.13	(a) Indicate the dimensions of the area that would be enclosed by security fencing at Alberhill Substation. Indicate the security fence on Figure 3.1. (b) How often would the substation be patrolled and security issues checked during operations?	02/18/10			
7.43	Public Services / Utilities and Service Systems	Ch. 4.13, Ch. 4.16	How many days or hours would State identified essential facilities, such as hospitals, schools, fire stations, and cities, be without electricity due to de-energizing the existing transmission and subtransmission lines?	02/18/10			
7.44	Project Description	Ch. 3; pg. 3-21	-The PEA states, "SCE would restore all areas that were temporarily disturbed by construction of the Proposed Project (including temporary material staging yards, and conductor pull/tension/splicing sites) to as close to preconstruction conditions as possible, or to the conditions agreed upon between the landowner and SCE following the completion of construction of the Proposed Project." Would marshalling yards also be restored to preconstruction condition / can marshalling yards be added to the list of areas to be restored? - Further clarify the difference between staging areas (secondary material staging yards) and marshalling yards.	02/18/10			
7.45	Project Description	Ch. 3	According to the PEA, tower installation may require the construction of temporary crane pads and, in some cases, the pads may be located outside of the laydown area used for structure assembly. If a pad is required, it would occupy an area of approximately 50 feet by 50 feet. - In these cases, would the pads, 50 feet by 50 feet, be outside the laydown area but still within the ROW width of 200 by 200 feet?	02/18/10			

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7.46	Project Description	Ch. 3	The PEA states that after the existing 115-kV subtransmission, distribution, and telecommunication lines are transferred to the new subtransmission structures, the existing structures would be completely removed, including the below-ground portion, and the hole would be backfilled using imported fill in combination with fill that may be available as a result of excavation for installation of the new structures. - Would this also be true for the towers removed from the Serrano-Valley 500-kV line? Describe the removal process for these towers and the associated span of conductor.	02/18/10			
7.47	Project Description	Ch. 3, pg. 3-31	The PEA states, "Approximately 4 acres of land immediately outside the substation perimeter wall to the west, east and south would be used for subtransmission and transmission line access, vehicular access, buffers, and landscaping." Define the term buffers in this context.	02/18/10			
7.48	Project Description	Ch. 2	- With regard to access and spur roads, the PEA states that "The graded road would have a minimum drivable width of 14 feet (preferably with 2 feet of shoulder on each side), but may be wider depending on final field conditions." Indicate if the roads would be 14 feet or 18 feet. Would 2 feet extra on each side of the road be preferred in all cases or only under certain circumstances? If the latter, under what circumstance would the 2 foot shoulder on each side of the road be preferred. - There does not appear to be any need for access roads for the proposed project, as defined in the PEA, please confirm. If access roads were determined to be needed during final design of the proposed project, how wide would they be, on average?	02/18/10			

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7.49	Project Description / Air Quality	Ch. 3, Sec. 4.3 / Appendix H	<p>- How many and what type of permanent vehicles would be stationed at the Alberhill Substation?</p> <p>- In Appendix H, Table Series #48, tables are provided that indicate how often the transmission lines, subtransmission lines, and substation site would be visited for operational activities per year and the miles traveled. Visits to the substations that would receive telecommunications equipment are not listed in these tables. The PEA states, "the applicant's personnel would generally visit the substation three to four times per month" (pg. 3-39). This would account for the 48 times per year already listed in Table #48, Motor Vehicle Use.</p> <p>- Update the data in all applicable Appendix H tables for routine maintenance of telecommunications equipment at the substations (e.g., Valley, Newcomb, Skylark, Elsinore, Fogarty (proposed), Ivyglen, Mira Loam, Serrano, Vista, Tenaja (proposed), Barre and Walnut substations). The PEA states on pg. 3-39, "Once per year, one individual would perform routine maintenance of the telecommunications components located at the substations."</p>	02/18/10			
7.50	Project Description	Sec. 3.1.3.3, Fig. 2.3, Table 3.3/3.4	<p>- Describe the construction process for the switch pole Valley–Newcomb 115-kV Subtransmission Line (near the Serrano–Valley line) and for all other switch poles. Data gap submittals and Figure 2.3 indicate that there would also be a switch pole / switch poles would be installed near Elsinore Substation on the existing Valley–Elsinore–Ivyglen line and just east of the Newcomb Substation.</p> <p>- Indicate the dimensions and locations of staging area and pull and tension sites for the switch poles.</p> <p>- Indicate land disturbance and update all columns of Table 3.3/3.4 with switch pole land disturbance information.</p>	02/18/10			
7.51	Biological Resources	Ch. 4.4	Provide GIS shape files for vegetation communities mapped for all project components (i.e., Alberhill Substation, 500-kV lines, 115-kV lines, telecommunication lines). Provide vegetation data set and description of the methodology used to get the data (e.g., reconnaissance level surveys conducted to date).	02/18/10			
7.52	Biological Resources	Ch. 4.4	<p>- Provide a final survey map and GIS coordinates of the locations of special status plants and wildlife in relation to all project components once surveys are complete for all project areas.</p> <p>- Provide raptor nesting potential data.</p>	02/18/10			

## Alberhill System Project Data Gap Set #7

DR#. DG#	Resource Area/ Topic	Source / PEA Page	Data Gap Question	Request Date	Reply Date	Status	Notes
7.53	Public Services / Hazards and Hazardous Materials / Biological Resources / Noise / Project Description	Ch. 4.4, Ch. 4.7, Ch. 4.13 Pg. 3-22 Sec. 3.2.1.8, Sec. 4.11.4.2.	<ul style="list-style-type: none"> <li>- Clarify if a Blasting and Fracturing Plan would be prepared prior construction. If so, provide a draft blasting plan showing the proposed contents.</li> <li>- Provide a complete copy of the latest version of SCE's Blasting Plan (or full program document).</li> <li>- PEA section 3.2.1.8 indicates that blasting may occur? Provide the location and indicate the amount of waste material that would be generated and if said waste would be removed to an off-site facility</li> <li>- Provide estimate of number of days blasting would occur, and time of blasting (morning, afternoon, evening, night).</li> <li>- Provide the locations where blasting/fracturing is anticipated, and a list of sensitive receptors and buildings (residences, schools, hospitals, daycares, libraries, places of worship, and historical sites) that would be potentially affected within 0.25 miles from the proposed blasting/fracturing sites.</li> <li>- Provide the timeframe of advance notice to potentially affected receptors that would be considered for the proposed pre-blast notifications.</li> <li>- Provide the estimated levels of vibration that would result from the proposed blasting/fracturing activities and their expected attenuation over distance.</li> <li>- Provide estimated vibration attenuation features that would result from the proposed special protective measures during blasting/fracturing activities.</li> </ul>	02/18/10			
7.54	Biological Resources	Ch. 4.4	Provide an assessment of mature trees/shrubs (including dead trees) within project area for habitat suitability for nesting birds.	02/18/10			
7.55	Biological Resources	Ch. 4.4	<ul style="list-style-type: none"> <li>- Provide an analysis of habitat quality and figure of locations of riparian habitat.</li> <li>- Indicate and assess the disturbance acreage on riparian habitat by project component (Alberhill Substation, 500-kV lines, 115-kV lines, telecommunications lines, etc.)</li> </ul>	02/18/10			
7.56	Biological Resources	Ch. 4.4	<ul style="list-style-type: none"> <li>Provide an analysis of habitat quality and figure of locations of wetland habitat.</li> <li>- Indicate and assess the disturbance acreage on wetland habitat by project component (Alberhill Substation, 500-kV lines, 115-kV lines, telecommunications lines, etc.)</li> </ul>	02/18/10			
7.57	Biological Resources	Ch. 4.4	Provide an analysis of vernal pool presence and potential for impact. Vernal pools require on-the-ground verification during wet season.	02/18/10			
7.58	Biological Resources	Ch. 4.4	Provide results of oak tree and mature tree stands survey conducted throughout project area.	02/18/10			

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DR#. DG#	Resource Area/ Topic	Source / PEA Page	Data Gap Question	Request Date	Reply Date	Status	Notes
7.59	Biological Resources	Ch. 4.4	Has the Riverside County Habitat Conservation Agency been contacted concerning the proposed project, potential impacts, and possible mitigation options? If so, provide contact report.	02/18/10			
7.60	Project description / Noise	Pg. 3-2, Sec. 3.1.1.3	(a) Provide the model and complete technical specifications for each 560-MVA 500/115-kV transformer. Provide the same information for the spare. - Provide the 560 MVA 500/115-kV transformer model and technical specifications related to noise: number of cooling fans, noise frequency (Hz), expected noise level at the source with and without fans operating. - If the model is not know , provide a range for expected noise levels with and without fans operating. (b) Clarify if the proposed transformers would be enclosed. If so, describe the characteristics of the proposed enclosures.	02/18/10			
7.61	Project description / Noise	Pg. 3-2, Sec. 3.1.1.4	Provide the maximum corona noise levels from the proposed substation capacitor banks (include reference).	02/18/10			
7.62	Project description / Noise	Pg. 3-8 Sec. 3.1.1.13	The proposed substation perimeter wall would also provide a noise barrier during project operations and maintenance. Clarify if the proposed substation site would include additional noise attenuation barriers (e.g., vegetation, walls, berms) as part of landscaping.	02/18/10			
7.63	Project description / Noise	Pg. 3-11 to 3-19 Table 3.5	Provide the estimated timeframes for construction of each proposed transmission and subtransmission line segment. Provide the estimated timeframe per segment, and/or the anticipated miles of line to be constructed per day.	02/18/10			
7.64	Project description / Noise	Pg. 3-21 Sec. 3.2.1.4, Sec. 4.11.4.2.	- Clarify if the proposed concrete batch plant and concrete mixer trucks (as indicated in Appendix F), were considered in the construction noise impact analysis provided in Section 4.11.4.2. - Specify potential locations where this portable batch plant would be used.	02/18/10			

## Alberhill System Project Data Gap Set #7

DR#. DG#	Resource Area/ Topic	Source / PEA Page	Data Gap Question	Request Date	Reply Date	Status	Notes
7.65	Project description / Noise	Pg. 3-22, Sec. 3.2.1.7, 2.2, 3.2.3.2, 3.2.3.5	<p>a. Provide the proposed noise control best management practices that would be implemented during nighttime construction to minimize effects on nearby receptors.</p> <p>b. Provide further information about the use of helicopters (e.g., hours/days and type of helicopters used during construction, operations, and maintenance) even if only the potential exists and final determinations for helicopter use have not been made.</p> <p>- The PEA states, "Segment N1: This segment crosses an area with the steepest topographic features, and some tower sites may not be accessible by road and would require helicopter construction."</p> <p>- The PEA states, "Where there would be a structure located in terrain inaccessible by a crane, it is anticipated that a helicopter may be used for the installation of the structure."</p>	02/18/10			
7.66	Project description / Noise	Pg. 3-24 Sec. 3.2.3.2, Sec. 4.11.4.2	<p>- Provide locations and list of equipment that would be required for benching activities.</p> <p>- Clarify if this equipment was included in the construction noise impact analysis presented in Section 4.11.4.2.</p>	02/18/10			
7.67	Project description / Noise – Helicopter use	Pg. 3-25, 3-26  Pg. 3-39	<p>- Provide size and noise emission data for helicopters that may be used during the proposed 500-kV line construction. Provide the average hours that the helicopters would be used per day.</p> <p>- Provide a list of potential sites that would require the use of helicopters for the installation of transmission and subtransmission structures.</p> <p>- Provide the helicopter size and related noise emission data that would be required during routine line inspections. Indicate the number of hours per day and total number of days of helicopter use for line inspections.</p>	02/18/10			
7.68	Project description / Noise	Pg. 3-28  Pg. 4-196	<p>- Provide further information and data about the existing noise levels and air traffic at the Skylark Field airstrip.</p> <p>- The PEA indicates that the airstrip may be used for construction of the proposed project (e.g., helicopters). Helicopters may also be used during operations and maintenance. Indicate the distance to sensitive receptors located within a 1-mile radius from the airstrip.</p>	02/18/10			
7.69	Project description / Noise	Pg. 3-35	Clarify if noise studies would be included as part of the environmental surveys proposed to be conducted prior to construction.	02/18/10			

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DR#. DG#	Resource Area/ Topic	Source / PEA Page	Data Gap Question	Request Date	Reply Date	Status	Notes
7.70	Noise	Pg. 4-191	<ul style="list-style-type: none"> <li>- Provide a noise level (e.g., ___ Leq DBA) that identifies noise levels in the proposed project area as “those typical of low - density partially rural communities”; include the reference for this noise level.</li> <li>- Provide the relative distance of the identified major noise sources to all proposed project component locations (substation, transmission lines, subtransmission lines, and telecommunication).</li> </ul>	02/18/10			
7.71	Noise	Pg. 4-192 Table 4.11-1	Provide the year when these noise measurements were taken (Table 4.11-1). Discuss how these values would have changed after the date when the measurements were taken.	02/18/10			
7.72	Noise	Pg. 4-195 Table 4.11-2	<ul style="list-style-type: none"> <li>-Based on the equipment list presented in Appendix F, provide a composite noise or sound pressure level (SPL) estimation for the loudest construction equipment per project component (substation, transmission lines, subtransmission lines, and telecommunication) indicating the number of equipment, load factor, days of operation, hours per day of operation, estimated composite sound pressure levels from operating equipment at 50 feet, and incremental distances up to 1,500 feet from the source. Provide the assumptions, model, and calculations used for this estimation.</li> <li>- Provide the estimated composite construction noise level attenuation by distance from the proposed construction equipment to the closest sensitive receptors (per Riverside County General Plan: schools, hospitals, rest homes, long term care facilities, mental care facilities, residential uses, libraries, passive recreation uses, and places of worship).</li> </ul>	02/18/10			
7.73	Noise	Pg. 4- 196, 197	Provide noise study references that confirm the operational noise from the proposed Alberhill Substation would be negligible due to its location adjacent to the I-15 freeway.	02/18/10			
7.74	Noise	Pg. 4-197	Provide the complete audible noise model study that was conducted for the 500-kV line segments based on the EPRI EMF Workstation 2008 program.	02/18/10			