June 3, 2009

PRESIDENTIAL SUBSTATION PROJECT
Roger Overstreet

CPUC Data Request #3 Response to Biology Issues

7. *Has the substation site configuration been changed to address biological habitat impacts, based on recent surveys? If yes, provide revised site configuration. Also, provide detailed vegetation map in GIS based on recent surveys, if different from PEA data provided previously.*

SCE Response:

Revised vegetation mapping with additional detail regarding the vegetation types present in the area surrounding the proposed substation site is being provided in ArcGIS shapefile format (Pres_veg_map_sub_20090529, UTM 11N NAD83) to supplement the vegetation type descriptions and maps in the PEA. The vegetation mapping was revised by SCE biologist Roger Overstreet based upon aerial images and additional site visits on March 27, 2009 and April 9, 2009. Areas mapped outside the Humkar parcel property line (AG) were mapped based upon aerial images and visual observations from within the Humkar parcel. The following vegetation types have been included in the revised vegetation map:

Vegetation code	Vegetation type	Description
AG	Agriculture	Avocado grove and associate access roads, etc.
BWS	Buckwheat scrub	Areas dominated by nearly pure stands of interior flat-topped buckwheat with few other individual shrubs.
CCSS	Chaparral/CSS	Mixture of Chaparral and CSS species
CSS	Coastal Sage Scrub	Areas dominated by California sagebrush or other CSS shrub species
DRG	Drainage	The portion of the ephemeral drainage with bed and bank, no riparian vegetation present
NNG	Non-native Grassland	Areas dominated by non-native grasses and mustard species
NNG/CSS	Non-native Grassland/ CSS	Non-native grassland with scattered CSS species present
PCSS	Coast Prickly Pear/CSS	Dense stands of coast prickly pear interspersed with CSS
RD	Access Road	Maintained and unmaintained paved and dirt access roads with bare ground or vegetation encroaching

Substation Vegetation Impacts Calculations

Summary: Based on currently available information, moving the substation site will reduce impact to coastal sage scrub (CSS) and chaparral/coastal sage scrub (CCSS) habitat. If the substation is moved 20 feet to the east, impacts to CSS will be reduced by approximately 4.7 percent and impacts to CCSS will be reduced by 6.5 percent. If the substation is moved 30 feet to the east impacts to CSS will be reduced by 5.7 percent and impacts to CCSS will be reduced 9.1 percent.

Assumptions:

- Current substation location used as baseline for impact comparison to…
  - Moving substation footprint 20 feet (6.096 meters) east and 3 (0.914 meters) feet south
  - Moving substation footprint 30 feet (9.144 meters) east and 4 (1.2192 meters) feet south
- Current vegetation mapping was used for analysis
- Impact calculations are based on the firebreak perimeter around the substation site
- The firebreak perimeter is assumed to be 100 feet from structures inside the substation

Vegetation Impact Analysis Table

Vegetation type	Current location (acres)	Current location (square feet)	20 feet east (acres)	20 feet east (square feet)	20ft east % change	20ft east sq ft change	30 feet east (acres)	30 feet east (square feet)	30ft east % change	30ft east sq ft change
BWS	0.3977	17320.34	0.3765	16397.8	-5.3	-922.5	0.3644	15870.9	-8.4	-1449.5
CCSS	0.2077	9049.06	0.1942	8460.0	-6.5	-589.1	0.1889	8228.3	-9.1	-820.8
CSS	0.7433	32377.94	0.7086	30866.2	-4.7	-1511.7	0.7007	30522.3	-5.7	-1855.6
DRG	0.1022	4451.72	0.1022	4451.7	0.0	0.0	0.1022	4451.7	0.0	0.0
NNG	1.4226	61968.15	1.5094	65748.9	6.1	3780.8	1.5360	66911.6	8.0	4943.5
NNG/CSS	0.0002	8.19	0.0053	231.0	2719.1	222.8	0.0107	467.2	5600.9	459.0
RD	0.0000	0.00	0.0013	57.6	div by 0	57.6	0.0104	453.4	div by 0	453.4