

*Southern California Edison*  
**San Joaquin Cross Valley Loop Project A.08-05-039**

**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Erika Wilder  
**Title:** Environmental Coordinator  
**Dated:** 06/17/2008

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**Question 01:**

**General Request**

Please provide the native form versions (i.e., MS Word, Excel, etc. files) used to create all sections, graphics, and appendices of the PEA.

**Response to Question 01:**

The non-pdf files are attached. The GIS files are included in the responses to Questions 6 and 15 of this Data Request.

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**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Caroline Fraser  
**Title:** Technl Spclst/Scientist  
**Dated:** 06/17/2008

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**Question 02:**

**General Request**

Please provide the aerial photo base map digital file and the GIS shape files that were used to create the figures presented in the PEA.

**Response to Question 02:**

Due to the size and nature of the GIS files requested, two (2) separate DVD's were burned.

DVD 1 contains the Aerial Photo Base Map Digital File, Air Photo USA Tulare County, ECW Format (3.29 GB)

DVD 2 contains all GIS/Shapefiles (see list below) that were used to create the figures presented in the PEA (389 files, 22 Folders, 546 MB)

OneMileROW\_Radius.shp  
cadem30m\_Clip.img  
hs\_cadem30m\_Clip.img  
Cities\_ESRI\_2000.shp  
NorthAmerica\_ESRI\_2006.shp  
StateBoundaries\_ESRI\_2005.shp  
Electrical\_Needs\_Area.shp  
FMMP\_TulareCo\_2006.shp  
WilliamsonAct\_CA\_DOC2004.shp  
CA\_Condor\_USFWS1993.shp  
HooversSpurge\_USFWS2006.shp  
SanJoaquin\_ValleyOrcuttGrass\_USFWS2006.shp  
StoneCorral\_EcologicalReserve\_CDFG2008.shp  
TigerSalamander\_USFWS2005.shp  
VernalPool\_FairyShrimp\_USFWS2006.shp  
VernalPool\_TadpoleShrimp\_USFWS2006.shp  
CA\_NaturalDiversity\_CDFG2008.shp  
SpecialStatusSpeciesOccurrence.shp  
Soil\_TulareCo\_USDA2006.shp  
FloodZones\_FEMA1995.shp

ExistingLandUse\_TulareCo2007.shp  
dinuba-city-gp1997.shp  
exeter-city-gp1997.shp  
Farmersville-City-GP1976-2000.shp  
Lakes3.shp  
Lindsay-City-GP2002.shp  
porterville-city-gp2002.shp  
tulare-city-gp-2002.shp  
visalia-city-gp1999.shp  
woodlake-city-gp1987.shp  
zoning.shp  
Schools.shp  
Parks\_OpenSpace\_TulareCo\_TBM2008.shp  
TruckRoutes\_TBM\_CALTRANS.shp  
Proposed\_AreaProjects.shp  
Milepost\_Alternative1.shp  
MilePost\_Alternative2.shp  
MilePost\_Alternative3.shp  
SJXVL\_Alternative1\_03072008.shp  
SJXVL\_Alternative2\_03072008.shp  
SJXVL\_Alternative3\_03072008.shp  
SJXVL\_Alternative4\_03072008.shp  
SCE\_66kV\_TransmissionLine\_AppendixK.shp  
SCE\_220kV\_TransmissionLine\_AppendixK.shp  
SCE\_220kV\_TransmissionLine\_Figure2.1.shp  
SCE\_ServiceTerrBoundary\_2006.shp  
SCE\_Substations.shp  
Cities\_TulareCoArea\_TBM2008.shp  
Counties\_SCETerr\_TBM2008.shp  
HydrologyArea\_TulareCo\_TBM2008.shp  
HydrologyLine\_TulareCo\_TBM2008.shp  
TransportationLines\_TBM2008.shp

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DATA REQUEST SET SJXVL CPUC-ED-01

**To:** ENERGY DIVISION  
**Prepared by:** Robert J. Tucker  
**Title:** Power System Planner  
**Dated:** 06/17/2008

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**Question 03:**

**Project Description**

*Existing System*

Provide a schematic diagram and map of the existing system.

**Response to Question 03:**

The following attachment provides the requested schematic diagram and map of the existing system (pre-SJXVL).

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*Southern California Edison*  
San Joaquin Cross Valley Loop Project A.08-05-039

DATA REQUEST SET SJXVL CPUC-ED-01

**To:** ENERGY DIVISION  
**Prepared by:** Robert J. Tucker  
**Title:** Power System Planner  
**Dated:** 06/17/2008

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**Question 04:**

**Project Description**

*Existing System*

Provide a schematic diagram that illustrates the system as it would be configured with implementation of the proposed project.

**Response to Question 04:**

The following attachment provides the requested schematic diagram and map of the system as it would be configured with implementation of the proposed project (post-SJXVL).

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*Southern California Edison*  
**San Joaquin Cross Valley Loop Project A.08-05-039**

**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Robert J. Tucker  
**Title:** Power System Planner  
**Dated:** 06/17/2008

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**Question 05:**

**Proposed Project**

The PEA PD does not provide the capacity increase in MW.

**Response to Question 05:**

The normal capacity of the two new circuits (the new Big Creek 3-Rector No. 2 220-kV transmission circuit and the new Rector-Springville 220-kV transmission circuit) will be 1200 amps per circuit (approximately 478 MW per circuit).

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**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Eric Bradley  
**Title:** Engineer  
**Dated:** 06/17/2008

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**Question 06:**

**Proposed Project**

Provide GIS (or equivalent) data layers for the proposed project preliminary engineering including estimated locations of all physical components of the proposed project as well as those related to construction. For physical components, this could include but is not limited to the existing components (e.g., ROW, substation locations, poles, etc.) as well as the proposed pole locations, transmission lines, substations, etc. For elements related to construction include: proposed or likely lay-down areas, work areas at the pole sites, pull and tension sites, access roads (e.g., temporary, permanent, existing, etc), areas where special construction methods may need to be employed, areas where vegetation removal may occur, areas to be heavily graded, etc.

**Response to Question 06:**

Please note: The dimensions stated in the PEA for conductor Pulling, Tensioning, and Splicing sites were miscommunicated (reference Volume 1, page 3-27, 5th paragraph from top of page). The correct dimensions are as follows: Pulling sites should be 100' x 300'; Tensioning sites should be 100' x 500'; and, Splicing sites should be 100' x 200'; the attached shape files show the correct dimension, location, and type of sites.

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**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Tracy Tate  
**Title:** Engineer  
**Dated:** 06/17/2008

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**Question 07:**

*Proposed Components*

**Poles/Towers**

Update Appendix D to note which poles would be angle poles.

**Response to Question 07:**

Attached is a revised Appendix D with the angles called out in a new column, titled "Line Angle (deg)". The following structures are angle polls or towers:

Structure #1  
Structure #7  
Structure #13  
Structure #14  
Structure #21  
Structure #22  
Structure #28  
Structure #29  
Structure #50  
Structure #51  
Structure #54  
Structure #55  
Structure #73  
Structure #76  
Structure #78  
Structure #86  
Structure #87  
Structure #89  
Structure #91  
Structure #96  
Structure #98, and  
Structure #102A

## APPENDIX D

<b>Structure Number</b>	<b>Ahead Span (feet)</b>	<b>Structure Description</b>	<b>Line Angle (deg)</b>	<b>Structure Height (feet)</b>
Station Rack	287	Rack at Rector		40
Station Rack	277	Rack at Rector		40
Structure #1*	949	Tubular Pole	-19.185	130
Structure #2*	844	Tubular Pole		130
Structure #3*	882	Tubular Pole		130
Structure #4*	990	Tubular Pole		130
Structure #5*	994	Tubular Pole		140
Structure #6*	918	Tubular Pole		130
Structure #7*	913	Tower	89.437	122
Structure #8	877	Tubular Pole		120
Structure #9	829	Tubular Pole		120
Structure #10	1034	Tubular Pole		120
Structure #11	878	Tubular Pole		140
Structure #12	745	Tubular Pole		130
Structure #13	895	Tower	-90.156	131
Structure #14	870	Tower	90.495	131
Structure #15	965	Tubular Pole		130
Structure #16	1003	Tubular Pole		130
Structure #17	924	Tubular Pole		120
Structure #18	935	Tubular Pole		120
Structure #19	1020	Tubular Pole		130
Structure #20	939	Tubular Pole		130
Structure #21	767	Tubular Pole	24.981	130
Structure #22	865	Tubular Pole	-24.663	130
Structure #23	832	Tubular Pole		120
Structure #24	849	Tubular Pole		120
Structure #25	909	Tubular Pole		130
Structure #26	949	Tubular Pole		130
Structure #27	963	Tubular Pole		130
Structure #28	1096	Tubular Pole	28.843	140
Structure #29	931	Tubular Pole	-29.054	130
Structure #30	926	Tubular Pole		120
Structure #31	989	Tubular Pole		120
Structure #32	958	Tubular Pole		130
Structure #33	1005	Tubular Pole		130

**APPENDIX D**

Structure #34	1086	Tubular Pole		130
Structure #35	1081	Tubular Pole		130
Structure #36	982	Tubular Pole		130
Structure #37	917	Tubular Pole		130
Structure #38	982	Tubular Pole		130
Structure #39	1081	Tubular Pole		130
Structure #40	1067	Tubular Pole		130
Structure #41	1057	Tubular Pole		130
Structure #42	1010	Tubular Pole		130
Structure #43	959	Tubular Pole		120
Structure #44	934	Tubular Pole		120
Structure #45	981	Tubular Pole		120
Structure #46	1064	Tubular Pole		130
Structure #47	454	Tubular Pole		130
Structure #48	1123	Tubular Pole		130
Structure #49	1094	Tubular Pole		130
Structure#50	653	Tower	-89.948	131
Structure#51	812	Tower	89.439	122
Structure #51A	767	Tubular Pole		120
Structure #52	680	Tubular Pole		120
Structure #53	901	Tubular Pole		130
Structure #54	952	Tubular Pole	-31.590	140
Structure #55	827	Tower	-57.905	140
Structure #55A	944	Tubular Pole		130
Structure #56	987	Tubular Pole		120
Structure #57	941	Tubular Pole		130
Structure #58	909	Tubular Pole		130
Structure #59	834	Tubular Pole		120
Structure #60	888	Tubular Pole		120
Structure #61	908	Tubular Pole		140
Structure #62	926	Tubular Pole		140
Structure #63	949	Tubular Pole		120
Structure #64	916	Tubular Pole		120
Structure #65	849	Tubular Pole		120
Structure #66	841	Tubular Pole		120
Structure #67	819	Tubular Pole		130
Structure #68	841	Tubular Pole		130

Structure #69	826	Tubular Pole		120
Structure #70	858	Tubular Pole		120
Structure #71	863	Tubular Pole		120
Structure #72	824	Tubular Pole		120
Structure #73	836	Tower	91.306	122
Structure #74	819	Tubular Pole		130
Structure #74A	836	Tubular Pole		120
Structure #75	807	Tubular Pole		130
Structure #76	1050	Tubular Pole	19.081	120
Structure #77	1163	Tubular Pole		135
Structure #78	1087	Tubular Pole	18.162	130
Structure #79	1008	Tubular Pole		130
Structure #80	1008	Tubular Pole		130
Structure #81	978	Tubular Pole		130
Structure #82	899	Tubular Pole		130
Structure #83	952	Tubular Pole		140
Structure #84	838	Tubular Pole		130
Structure #85	690	Tubular Pole		120
Structure #86	399	Tubular Pole	22.100	120
Structure #87	858	Tubular Pole	-23.627	120
Structure #88	692	Tubular Pole		120
Structure #89	704	Tower	-50.835	122
Structure #90	920	Tubular Pole		140
Structure #91	1004	Tower	51.700	131
Structure #92	1107	Tubular Pole		140
Structure #93	1100	Tubular Pole		140
Structure #94	894	Tubular Pole		130
Structure #95	1203	Tubular Pole		140
Structure #96	999	Tower	-90.267	131
Structure #97	1118	Tubular Pole		140
Structure #98	1067	Tower	90.082	140
Structure #99	904	Tubular Pole		120
Structure #100	1005	Tubular Pole		120
Structure #101	917	Tubular Pole		130
Structure #102	1140	Tubular Pole		130
Structure #102A	583	Tubular Pole	-10.659	130
Structure #103	0	Tubular Pole		120

**APPENDIX D**

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Structure #104	0	Single phase tap pole		125
Structure #105	0	Single phase tap pole		125
Structure #106	0	Single phase tap pole		125
Structure #107	0	Single phase tap pole		120
Structure #108	0	Single phase tap pole		145
Structure #109	0	Single phase tap pole		145

**APPENDIX D Proposed Project Road Story and Structure Inventory**

\*Note: Structures 1 through Structure 7 would be paralleled by structures of the same type and height for the replacement of the existing Big Creek 3-Rector and Big Creek 1-Rector 220 kV transmission towers.

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**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Peter L Hlapcich  
**Title:** Project Engineering Manager  
**Dated:** 06/17/2008

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**Question 08:**

*Proposed Components*

**Substations**

Provide Plan and Profile views of the existing substations.

**Response to Question 08:**

As discussed during the conference call on June 19, 2008, SCE is providing the plan views and detail of the wave trap and line tuner for the existing substations at this time. The need for SCE to provide profile views has been deferred, and will be discussed at a later date.

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*Southern California Edison*  
**San Joaquin Cross Valley Loop Project A.08-05-039**

**DATA REQUEST SET SJXVL CPUC-ED-01**

**To:** ENERGY DIVISION  
**Prepared by:** Peter L Hlapcich  
**Title:** Engineering Project Manager  
**Dated:** 06/17/2008

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**Question 09:**

*Proposed Components*

**Substations**

Provide “typical” Plan and Profile views of modified Rector, Springville, Vestal and Big Creek 3 Substations.

**Response to Question 09:**

As discussed during the conference call on June 19, 2008, SCE is providing the plan views and detail of the wave trap and line tuner for the proposed work at the existing substations at this time. The need for SCE to provide profile views has been deferred, and will be discussed at a later date.

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