## BEFORE THE PUBLIC UTILITIES COMMISSION OF THE F STATE OF CALIFORNIA

12-29-10 04:59 PM

In the Matter of the Application of SOUTHERN	)	
CALIFORNIA EDISON COMPANY (U 338-E)	)	Application No
for a Permit to Construct Electrical Facilities with	)	A1012017
Voltages Between 50 kV and 200 kV:	)	711012011
Falcon Ridge Substation Project	)	
	)	

# APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50 KV AND 200 KV: FALCON RIDGE SUBSTATION PROJECT

STEPHEN E. PICKETT RICHARD TOM SUMNER J. KOCH

Attorneys for SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue Post Office Box 800 Rosemead, California 91770 Telephone: (626) 302-3253 Facsimile: (626) 302-3990 E-mail:sumner.koch@sce.com

Dated: December 29, 2010

## APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338 E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50 KV AND 200 KV: FALCON RIDGE SUBSTATION PROJECT

### **TABLE OF CONTENTS**

<u>Section</u>	<u>Title</u>	<u>Page</u>
I. INTRODU	ICTION	1
II. BACKGR	OUND AND SUMMARY OF REQUEST	2
III. STATUT	ORY AND PROCEDURAL REQUIREMENTS	4
A.	Applicant	4
B.	Articles Of Incorporation	5
C.	Balance Sheet And Statement Of Income	5
D.	Description Of Southern California Edison Company	6
E.	Service Territory	6
F.	Location Of Items Required In A Permit To Construct Pursuant To GO 131-D, Section IX.B	6
G.	Compliance With GO 131-D, Section X	8
H.	Compliance With Rule 2.1(c)	9
I.	Statutory Authority	10
J.	Public Notice	10
K.	Supporting Appendices And Attachment	11
L.	Compliance With Rule 2.5	11
M.	Request For Ex Parte Relief	11
N.	Request For Timely Relief	12
IV. CONCLU	JSION	12

## APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338 E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50 KV AND 200 KV: FALCON RIDGE SUBSTATION PROJECT

### **TABLE OF CONTENTS**

Section <u>Title</u> <u>Page</u>

APPENDIX A:	Balance Sheet and Statement of Income as of September 30, 2010
APPENDIX B:	List of Counties and Municipalities Served by SCE
APPENDIX C:	Falcon Ridge Substation Project Schedule
APPENDIX D:	Notice of Application for a Permit to Construct
	<ul> <li>List of Newspapers Publishing the Notice of Application for a Permit to Construct</li> </ul>
APPENDIX E:	Certificate of Service of Notice of Application for a Permit to Construct
	Agency Service List
	300-foot Property Owners List
APPENDIX F:	Agency Communications
APPENDIX G:	Field Management Plan

### BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of SOUTHERN	)	
CALIFORNIA EDISON COMPANY (U 338-E)	)	Application No
for a Permit to Construct Electrical Facilities with	)	
Voltages Between 50 kV and 200 kV:	)	
Falcon Ridge Substation Project	)	
	)	

# APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50 KV AND 200 KV: FALCON RIDGE SUBSTATION PROJECT

I.

### **INTRODUCTION**

Pursuant to California Public Utilities Commission's (Commission or CPUC) General Order 131-D (GO 131-D) Southern California Edison Company (SCE) respectfully submits this Application for a permit to construct (PTC) authorizing SCE to construct the proposed project known as the Falcon Ridge Substation Project (Project). The Project consists of (i) construction of a new 66/12 kilovolt (kV) distribution substation (Falcon Ridge Substation); (ii) installation of two new 66 kV subtransmission source lines to connect the proposed Falcon Ridge Substation to the existing Etiwanda 220/66 kV Substation (Etiwanda Substation) and Alder 66/12 kV Substation (Alder Substation); (iii) construction of three new underground 12 kV distribution getaways; and (iv) installation of new telecommunications facilities at the proposed Falcon Ridge Substation, installation of telecommunications fiber optic cable on the proposed 66 kV subtransmission source lines, and the modification of the existing telecommunications facilities

at Etiwanda and Alder Substations to connect the proposed substation to the SCE telecommunications network.

### II.

### **BACKGROUND AND SUMMARY OF REQUEST**

The Electrical Needs Area for the Proposed Project encompasses portions of the cities of Rancho Cucamonga, Fontana, Rialto, and the surrounding areas of unincorporated San Bernardino County currently served from the existing Alder 66/12 kV Substation and Randall 66/12 kV Substation. Alder and Randall Substations provide electrical service to approximately 46,000 metered customers and serve forecasted electrical demand within the Electrical Needs Area.

The amount of electrical power that can be delivered into the Electrical Needs Area is limited to the maximum amount of electrical demand that both the Alder and Randall Substations can serve before the operating capacity limits are exceeded under 1-in-10 year heat storm conditions. Currently, the operating capacity of the Alder Substation combined with the Randall Substation are limited to 277 MVA under normal operating conditions. Electrical demand projections indicate that the two substations combined would exceed the Maximum Operating Limit capacity in the peak season of 2014 given a 1-in-10 year heat storm condition.

As a result of inability of the existing substations to provide sufficient capacity to serve the Electrical Needs Area, SCE proposes the construction of a new 66/12 kV substation. Construction of the project will ensure that safe and reliable electric service is available to meet customer electrical demand without overloading the existing electric facilities that supply the cities of Rancho Cucamonga, Fontana, and Rialto and the surrounding portions of unincorporated San Bernardino County. This would be accomplished by providing: (1) load relief to the existing Randall and Alder Substations; (2) enhanced system reliability by locating the substation in proximity to the load growth; (3) greater operational flexibility by providing the

ability to transfer load between distribution lines and substations; and (4) sufficient capacity to meet long-term projected electrical demand in the area.

The estimated cost of the Falcon Ridge Substation Project is approximately \$58.5 million in 2010 constant dollars. A Proponent's Environmental Assessment (PEA) prepared for the project is attached to this Application and will be referenced where appropriate, as the source of information required in an Application for a PTC pursuant to GO 131-D, Section IX.B. A project description is located in Chapter 3 of the PEA. A statement of purpose and need is located in Chapter 1 of the PEA.

Construction of the Project is scheduled to begin in September 2013 and to be completed by June 2014. A schedule for the Project is included in this Application as Appendix C.

Upon completion of its review of this Application and preparation of the initial study, SCE requests that the Commission issue and certify an appropriate environmental document and issue a PTC authorizing SCE to construct the Project set forth in this Application and the attached PEA within the timelines set forth in Section III.H. of this Application.

- 3 -

This is a conceptual estimate, prepared in advance of final engineering and prior to CPUC approval. Pension and benefits, administrative and general expenses, and allowance for funds used during construction are not included in this estimate.

### III.

### **STATUTORY AND PROCEDURAL REQUIREMENTS**

### A. Applicant

The applicant is Southern California Edison Company, an electric public utility company organized and existing under the laws of the State of California. SCE's principal place of business is 2244 Walnut Grove Avenue, Post Office Box 800, Rosemead, California 91770. Please address correspondence or communications in regard to this Application to:

Sumner Koch

Attorney

Southern California Edison Company

Post Office Box 800

Rosemead, California 91770 Phone: (626) 302-3253

Fax: (626) 302-3990

With a copy to: Case Administration

Southern California Edison Company

2244 Walnut Grove Avenue

Post Office Box 800

Rosemead, California 91770

Phone: (626) 302-3101 Fax: (626) 302-3119

### **B.** Articles Of Incorporation

A copy of SCE's Restated Articles of Incorporation, as amended through June 1, 1993, and as presently in effect, certified by the California Secretary of State, was filed with the Commission on June 15, 1993, in connection with Application No. 93-06-022<sup>2</sup> and is incorporated herein by reference, pursuant to Rule 2.2 of the Commission's Rules of Practice and Procedure.

### C. Balance Sheet And Statement Of Income

Appendix A to this Application contains copies of SCE's balance sheet and statement of income as of September 30, 2010. The balance sheet reflects SCE's utility plant at original cost, less accumulated depreciation.

Since 1954, pursuant to Commission Decision No. 49665 dated February 16, 1954, in Application No. 33952, as modified by Decision No. 91799 in 1980, SCE has utilized straight-line remaining life depreciation for computing depreciation expense for accounting and ratemaking purposes in connection with its operations.

Pursuant to Commission Decision No. 59926, dated April 12, 1960, SCE uses accelerated depreciation for income tax purposes and "flows through" reductions in income tax to customers within the Commission's jurisdiction for property placed in service prior to 1981. Pursuant to Decision No. 93848 in OII-24, SCE uses the Accelerated Cost Recovery System (ACRS) for federal income tax purposes and "normalizes" reductions in income tax to customers for property placed in service after 1980 in compliance with the Economic Recovery Tax Act of 1981, and also in compliance with the Tax Reform Act of 1986. Pursuant to Decision No. 88-01-061, dated January 28, 1988, SCE uses a gross of tax interest rate in calculating the AFUDC Rate, and income tax normalization to account for the increased income tax expense occasioned by the Tax

- 5 -

\_

Application No. 93-06-22, filed June 15, 1993, regarding approval of a Self-Generation Deferral Agreement between Mobil Oil Corporation's Torrance Refinery and SCE.

Relief Act of 1986 provisions requiring capitalization of interest during construction for income tax purposes.

### D. <u>Description Of Southern California Edison Company</u>

SCE is an investor-owned public utility engaged in the business of generating, transmitting, and distributing electric energy in portions of central and southern California. In addition to its properties in California, it owns, in some cases jointly with others, facilities in Nevada, Arizona, and New Mexico, its share of which produces power and energy for the use of its customers in California. In conducting such business, SCE operates an interconnected and integrated electric utility system.

### E. <u>Service Territory</u>

SCE's service territory is located in 15 counties in central and southern California, consisting of Fresno, Imperial, Inyo, Kern, Kings, Los Angeles, Madera, Mono, Orange, Riverside, San Bernardino, Tulare, Tuolumne<sup>3</sup>, and Ventura Counties, and includes approximately 179 incorporated communities as well as outlying rural territories. A list of the counties and municipalities served by SCE is attached hereto as Appendix B. SCE also supplies electricity to certain customers for resale under tariffs filed with the Federal Energy Regulatory Commission.

## F. <u>Location Of Items Required In A Permit To Construct Pursuant To GO 131-D,</u> <u>Section IX.B</u>

Much of the information required to be included in a PTC application pursuant to GO 131-D, Section IX.B is found in the PEA.

SCE provides electric service to a small number of customer accounts in Tuolumne County and is not subject to franchise requirements.

- 6 -

Required PTC application information has been cross-referenced to the PEA in the following text. The PTC application requirements of GO 131-D, Section IX.B are in italics, and the PEA references follow in plain text.

- a. A description of the proposed power line or substation facilities, including the proposed power line route; proposed power line equipment, such as tower design and appearance, heights, conductor sizes, voltages, capacities, substations, switchyards, etc., and a proposed schedule for authorization, construction, and commencement of operation of the facilities.
- A description of the Project is found in the Executive Summary, Chapter 1, Chapter 2, and throughout Chapter 3.
- The substation site is described and illustrated in Chapter 2, subsection 2.2.2., Figure 2.1, Chapter 3, subsection 3.1.1 and Figure 3.1. The alternative substation site is described and illustrated in Chapter 2, subsection 2.2.2. and Figure 2.1.
- The 66 kV subtransmission source lines are described and illustrated in Chapter 3, subsection 3.1.3 and Figures 3.3, 3.4a, and 3.4b.
- The underground 12 kV distribution getaways are described in Chapter 3, subsections 3.1.1.
- The telecommunication facilities are described and illustrated in Chapter 3, subsections 3.1.4, and Figure 3.5
- The Project Schedule is attached to this Application as Appendix C.
- b. A map of the proposed power line routing or substation location showing populated areas, parks, recreational areas, scenic areas, and existing electrical transmission or power lines within 300 feet of the proposed route or substation.
- Regional and Project area maps are provided in the PEA in Figures 1.1, 2.1, 3.3, 3.5, 3.6, 3.7, 4.4-1, 4.4.-3, and 4.6-2.
- Maps of current land use including designation of parks, recreational, and scenic areas are provided in the PEA as Figures 4.10-1 and 4.15
- A map showing the proximity of the proposed subtransmission source lines to existing electrical transmission and power lines is provided in the PEA as Figure 2.1.
- c. Reasons for adoption of the power line route or substation location selected, including comparison with alternative routes or locations, including the advantages and disadvantages of each.

- Reasons for the adoption of the proposed substation site, including comparison with alternative sites, are discussed in Chapter 2, subsection 2.2. The reasons for adoption of the proposed source line route, including comparison with alternative routes, are discussed in Chapter 2, subsection 2.3.
- d. A listing of the governmental agencies with which proposed power line route or substation location reviews have been undertaken, including a written agency response to applicant's written request for a brief position statement by that agency. (Such listing shall include The Native American Heritage Commission, which shall constitute notice on California Indian Reservation Tribal governments.) In the absence of a written agency position statement, the utility may submit a statement of its understanding of the position of such agencies.
- SCE contacted NAHC on December 9, 2009 regarding the Proposed Falcon Ridge Substation Project (formerly Devore Substation) and received a response letter from NAHC on December 23, 2009. The NAHC response letter concludes that: "The NAHC [Sacred Lands File] SLF search did not indicate the presence of Native American cultural resources within one-half-mile radius of the proposed project (APE)." The letter goes onto say that: "Early consultation with Native American tribes in your area is the best way to avoid unanticipated discoveries once a project is underway." A copy of the letter SCE sent to the NAHC and the NAHC response is enclosed in Appendix F. Also, please note the following reference from the Falcon Ridge Substation PEA in relation to cultural resources: Section 4.5 Cultural Resources, p. 4.5-1-23.
- e. A PEA or equivalent information on the environmental impact of the project in accordance with the provisions of CEQA and this Commission's Rules of Practice and Procedure Rule 2.4 [formerly 17.1 and 17.3]. If a PEA is filed, it may include the data described in Items a. through d. above.
- The PEA is included in this Application.

### G. Compliance With GO 131-D, Section X

GO 131-D, Section X requires applications for a PTC to describe measures taken to reduce potential exposure to electric and magnetic fields (EMF) generated by the proposed facilities. A complete description of EMF-related issues is contained in SCE's Field Management Plan for this Project, which is attached as Appendix G to this Application.

### H. Compliance With Rule 2.1(c)

In compliance with Rule 2.1(c) of the Commission's Rules of Practice and Procedure (California Code of Regulations, Title 20), SCE is required to state in this Application "[t]he proposed category for the proceeding, the need for hearing, the issues to be considered, and a proposed schedule." SCE proposes to categorize this Application as a ratesetting proceeding. SCE anticipates that a hearing will not be necessary. This proceeding involves the Commission's: (1) environmental review of the Project in compliance with the California Environmental Quality Act (CEQA) (Public Resources Code § 21000 et seq.) and the Commission's GO 131-D; and (2) issuance of a PTC authorizing SCE to construct the Project.

SCE proposes the following schedule for this Application. The schedule assumes the Commission will approve the appropriate CEQA document for the Project at the first Commission Meeting following the expiration of the one year period following the Commission's acceptance of a complete application as required by Public Resources Code §21100.2.

Date	Event
December 29, 2010	Application filed
January 28, 2011	Application accepted as complete
February 2011	Initial Study Issued
November 2011	Draft CEQA document (Negative Declaration, Mitigated Negative Declaration, or EIR) issued for comment
February 2012	Draft decision issued
March 2012	Final CEQA document approved
April 2012	Final decision issued

### I. Statutory Authority

This Application is made pursuant to the provisions of GO 131-D, the Commission's Rules of Practice and Procedure, and prior orders and resolutions of the Commission.

### J. Public Notice

Pursuant to GO 131-D, Section XI.A, notice of this Application shall be given: (1) to certain public agencies and legislative bodies; (2) to owners of property located on or within 300 feet of the project area; (3) by advertisement in a newspaper or newspapers of general circulation; and (4) by posting a notice on-site and off-site at the project location.

SCE has given, or will give, proper notice within the time limits prescribed in GO 131-D. A copy of the Notice of Application for a Permit to Construct and the list of newspapers which will publish the notice are contained in Appendix D. A copy of the Certificate of Service of Notice of Application for a Permit to Construct, an agency service list, and the 300-foot property owners list are contained in Appendix E.

### K. Supporting Appendices And Attachment

Appendices A through G and the PEA are made part of this Application as listed below:

• Appendix A: Balance Sheet and Statement of Income as of September 30, 2010

• Appendix B: List of Counties and Municipalities Served by SCE

Appendix C: Falcon Ridge Substation Project Schedule

• Appendix D: Notice of Application for a Permit to Construct

List of Newspapers publishing the Notice of

Application for a Permit to Construct

• Appendix E: Certificate of Service of Notice of Application for a Permit to

Construct

Agency Service List

300-foot Property Owners list

• Appendix F: Agency Communications

• Appendix G: Field Management Plan

• Proponent's Environmental Assessment: Falcon Ridge Substation Project

### L. Compliance With Rule 2.5

In accordance with Rule 2.5 of the Commission's Rules of Practice and Procedure, SCE is enclosing a deposit to be applied to the costs the Commission incurs to complete the required environmental review pursuant to CEQA.

### M. Request For Ex Parte Relief

SCE requests that the relief requested in this Application be provided <u>ex parte</u> as provided for in GO 131-D, Section IX.B.6.

### N. Request For Timely Relief

SCE requests the Commission to issue a decision within the time limits prescribed by Government Code Section 65920 <u>et seq.</u> (the Permit Streamlining Act), as provided for in GO 131-D, Section IX.B.6.

Moreover, as addressed in the same subsection of GO 131-D, SCE requests that the Commission refrain from assigning an ALJ to this proceeding unless a valid protest is received by the Commission, and in the absence of any valid protest allow the Energy Division to process this Application.<sup>4</sup>

4 D.95-08-038, Appendix A, p. 25.

- 12 -

### IV.

### **CONCLUSION**

SCE respectfully requests the Commission to issue a PTC authorizing SCE to construct the Falcon Ridge Substation Project described in this Application and the attached PEA. SCE further requests that the relief be provided <u>ex parte</u> and within the time limits prescribed by the Permit Streamlining Act.

Respectfully submitted,

SOUTHERN CALIFORNIA EDISON COMPANY

### /s/James Kelly

By: James Kelly

Senior Vice President

### /s/Sumner Koch

By: Sumner Koch

Attorney for

SOUTHERN CALIFORNIA EDISON COMPANY

2244 Walnut Grove Avenue

Post Office Box 800

Rosemead, California 91770 Telephone: (626) 302-3253 Facsimile: (626) 302-3990

December 29, 2010

### **VERIFICATION**

I am an officer of the applicant corporation herein, and am authorized to make this verification on its behalf. I am informed and believe that the matters stated in the foregoing document are true.

I declare under penalty of perjury that the foregoing is true and correct.

Executed this 29th day of December, 2010, at Rosemead, California.

/s/James Kelly

James Kelly Senior Vice President SOUTHERN CALIFORNIA EDISON COMPANY Telephone: (626) 302-2284

# Appendix A BALANCE SHEET AND STATEMENT OF INCOME AS OF SEPTEMBER 30, 2010

### BALANCE SHEET

September 30, 2010

ASSETS

(Unaudited)

(Millions of Dollars)

### UTILITY PLANT:

Utility plant, at original cost	\$26,478
Less - Accumulated depreciation	(6,097)
	20,381
Construction work in progress	3,020
Nuclear fuel, at amortized cost	340
	23,741
OTHER PROPERTY AND INVESTMENTS:	
Nonutility property - less accumulated	
depreciation of \$98	69
Nuclear decommissioning trusts	3,347
Other Investments	84
	3,500
CURRENT ASSETS:	
Cash and equivalents	857
Short-term investments	4
Receivables, less allowances	
of \$59 for uncollectible accounts	887
Accrued unbilled revenue	612
Inventory	326
Derivative assets	69
Regulatory assets	404
Other current assets	69
	3,228
DEFERRED CHARGES:	
Regulatory assets	5,227
Derivative assets	192
Other long-term assets	339
	5,758
	\$36,227
APPENDIX A	A-1

### BALANCE SHEET

### September 30, 2010

### CAPITALIZATION AND LIABILITIES

(Unaudited)

(Millions of Dollars)

### CAPITALIZATION:

Common stock	\$2,168
Additional paid-in capital	566
Accumulated other comprehensive loss	(17)
Retained Earnings	5,496
Common shareholder's equity	8,213
Preferred and preference stock	
not subject to redemption requirements	920
Long-term debt	7,626
	16,759
CURRENT LIABILITIES:	
Accounts payable	1,146
Accrued taxes	150
Accrued interest	98
Customer deposits	224
Derivative liabilities	225
Regulatory liabilities	804
Other current liabilities	513
	3,160
DEFERRED CREDITS:	
Deferred income taxes	4,173
Deferred investment tax credits	98
Customer advances	114
Derivative liabilities	1,298
Pensions and benefits	1,757
Asset retirement obligations	3,326
Regulatory liabilities	3,663
Other deferred credits and other long-term liabilities	1,879
	16,308
	\$36,227
APPENDIX A	A-2

### STATEMENT OF INCOME

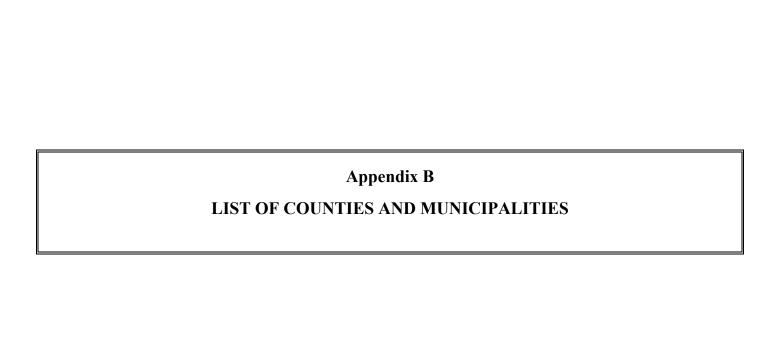
### 9 MONTHS ENDED SEPTEMBER 30, 2010

### (Unaudited)

### (Millions of Dollars)

OPERATING REVENUE	\$7,504
OPERATING EXPENSES:	
Fuel	275
Purchased power	2,337
Operation and maintenance	2,272
Depreciation, decommissioning and amortization	945
Property and other taxes	195
Gain on Sale of assets	(1)
Total operating expenses	6,023
OPERATING INCOME	1,481
Interest income	5
Other income	103
Interest expense - net of amounts capitalized	(315)
Other expenses	(39)
INCOME BEFORE INCOME TAX	1,235
INCOME TAX EXPENSE	338
NET INCOME	897
Less: Dividends on preferred and preference stock not subject to mandatory redemption	39
NET INCOME AVAILABLE FOR COMMON STOCK	\$858

APPENDIX A A-3



Citizens or some of the citizens of the following counties and municipal corporations will or may be affected by the changes in rates proposed herein.

#### COUNTIES

Fresno Kings Orange Tuolumne\* Imperial Los Angeles Riverside Tulare Inyo Madera San Bernardino Ventura

Kern Mono Santa Barbara

### MUNICIPAL CORPORATIONS

Adelanto Cudahy Irwindale Newport Beach Santa Barbara Agoura Hills Culver City La Canada Flintridge Norco Santa Clarita Alhambra Cypress La Habra Norwalk Santa Fe Springs Aliso Viejo Delano La Habra Heights Ojai Santa Monica Desert Hot Springs Ontario Santa Paula Apple Valley La Mirada Seal Beach Arcadia Diamond Bar La Palma Orange Oxnard Artesia La Puente Sierra Madre Downey Avalon Duarte La Verne Palm Desert Signal Hill Baldwin Park Eastvale Laguna Beach Palm Springs Simi Valley Barstow FI Centro Palmdale South El Monte Laguna Hills Beaumont El Monte Palos Verdes Estates South Gate Laguna Niguel Bell El Segundo Laguna Woods Paramount South Pasadena Bell Gardens Exeter Lake Elsinore Perris Stanton Bellflower Farmersville Lake Forest Pico Rivera Tehachapi Beverly Hills Fillmore Lakewood Placentia Temecula Bishop Fontana Lancaster Pomona Temple City Blythe Fountain Valley Lawndale Port Hueneme Thousand Oaks Bradbury Fullerton Lindsay Porterville Torrance Brea Garden Grove Loma Linda Rancho Cucamonga Tulare Buena Park Gardena Lomita Tustin Rancho Mirage Calabasas Glendora Long Beach Rancho Palos Verdes Twentynine Palms California City Goleta Los Alamitos Rancho Santa Margarita Upland Grand Terrace Calimesa Lynwood Redlands Vernon Camarillo Hanford Malibu Redondo Beach Victorville Hawaiian Gardens Mammoth Lakes Rialto Villa Park Canyon Lake Hawthorne Manhattan Beach Visalia Carpinteria Ridgecrest Maywood Walnut Carson Hemet Rolling Hills Cathedral City Hermosa Beach McFarland Rolling Hills Estates West Covina Cerritos Hesperia Menifee Rosemead West Hollywood Chino Hidden Hills Mission Viejo San Bernardino Westlake Village Highland Chino Hills San Buenaventura Westminster Monrovia Claremont Huntington Beach Montclair San Dimas Whittier San Fernando Wildomar Commerce Huntington Park Montebello Indian Wells Monterey Park San Gabriel Woodlake Compton Corona Industry Moorpark San Jacinto Yorba Linda Costa Mesa Inglewood Moreno Valley San Marino Yucaipa Covina Irvine Murrieta Santa Ana Yucca Valley

LW003685636 APPENDIX B B-1

<sup>\*</sup>SCE provides electric service to a small number of customer accounts in Tuolumne County and is not subject to franchise requirements.

## Appendix C FALCON RIDGE SUBSTATION PROJECT SCHEDULE

### **Proposed Falcon Ridge Substation Project Schedule**

<u>Date</u> <u>Event</u>

December 29, 2010 Application filed

January 28, 2011 Application accepted as complete

February 2011 Initial Study issued

November 2011 Draft CEQA Document (Negative Declaration, Mitigated

Negative Declaration, or EIR) issued for comment

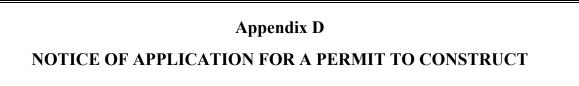
February 2012 Draft Decision issued

March 2012 Final CEQA document issued

April 2012 Final Decision issued

September 2013 Commence construction

June 2014 Operating date



### NOTICE OF APPLICATION FOR A PERMIT TO CONSTRUCT

FALCON RIDGE SUBSTATION PROJECT Date: December 29, 2010

<u>Proposed Project</u>: Southern California Edison Company (SCE) has filed an application with the California Public Utilities Commission (CPUC) for a Permit to Construct (PTC) for the Falcon Ridge Substation Project (Proposed Project). The Proposed Project includes the following elements:

- Construction of a new 66/12 kilovolt (kV) distribution substation on an approximately 7.5-acre parcel generally located south
  of Casa Grande Avenue, east of Sierra Avenue, north of Summit Avenue and adjacent to SCE's existing transmission rightof-way in the City of Fontana.
- Installation of two new 66 kV subtransmission source lines to connect the proposed Falcon Ridge Substation to the existing Alder 66/12 kV Substation and Etiwanda 220/66 kV Substation. The two source lines are approximately 3 miles and 9 miles in length, respectively.
- Construction of three new underground 12 kV distribution getaways.
- Installation of new telecommunications facilities to connect the Proposed Substation to the SCE telecommunications network.

Demand for electricity in the San Bernardino County area, including the cities of Fontana, Rialto, and Rancho Cucamonga continues to grow and is projected to exceed the capacity of SCE's local electrical system. The increased demand is due in part to growth in existing customer demand, and in part to planned new development projects in the region. SCE projects that its electrical facilities in the area will reach full capacity by 2014 and SCE's existing facilities do not have the capacity to handle the projected increased demand. Therefore, SCE is proposing the Falcon Ridge Substation Project to meet the growing demand, improve reliability, and improve operational flexibility by providing the ability to transfer load between two nearby 66/12 kV substations, Alder Substation and Randall Substation. These substations are located in the cities of Rialto and Fontana, respectively.

Construction is scheduled to begin in the late summer 2013. The Proposed Project is planned to be operational by June 2014.

<u>Environmental Assessment</u>: SCE has prepared a Proponent's Environmental Assessment (PEA) which includes analysis of potential environmental impacts that could be created by the construction and operation of the Proposed Project. The PEA concludes that with the implementation of Applicant-Proposed Measures (APMs), the majority of the potential significant environmental effects associated with the Proposed Project would be reduced to less than significant levels. However, impacts to Air Quality would remain significant and unavoidable.

<u>EMF Compliance</u>: The CPUC requires utilities to employ "no-cost" and "low-cost" measures to reduce public exposure to electric and magnetic fields (EMF). In accordance with "EMF Design Guidelines" filed with the CPUC in compliance with CPUC Decisions 93-11-013 and 06-01-042, SCE would implement the following measure(s) for the proposed project:

- 1. Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria
- 2. Utilizing subtransmission line construction that reduces the space between conductors compared with other design
- 3. Arranging conductors of proposed subtransmission lines for magnetic field reduction
- Placing major substation electrical equipment (such as transformers, switchracks, buses and underground duct banks) away from the substation property lines
- 5. Configuring the transfer and operating buses with the transfer bus closest to the nearest property line

<u>Public Review Process</u>: SCE has filed an application with the CPUC for a PTC for the Proposed Project. Pursuant to the CPUC Rules of Practice and Procedure, any affected party may, no later than January 28, 2011, 30 days from the date of this notice, protest, and request that the CPUC hold hearings on the application. If the CPUC as a result of its investigation determines that public hearings should be held, notice shall be sent to each person or entity who is entitled to notice or who has requested a hearing.

All protests must be mailed to the CPUC and SCE concurrently and should include the following:

- Your name, mailing address, and daytime telephone number
- Reference to the Project Name identified above
- 3. A clear and concise description of the reason for the protest

Protest for this Application must be mailed WITHIN 30 CALENDAR DAYS to:

AND

California Public Utilities Commission Docket Office, Room 2001 505 Van Ness Avenue San Francisco, CA 94102 Southern California Edison Co. Law Dept. - Exception Mail 2244 Walnut Grove Avenue Rosemead, CA 91770 Attention: Meraj Rizvi California Public Utilities
AND Commission

Director, Energy Division 505 Van Ness Avenue, 4th Floor San Francisco, CA 94102

For assistance in filing a protest, please call the CPUC's Public Advisor in San Francisco at (415) 703-2074, toll free at (866) 849-8390, or by e-mail at <a href="mailto:public.advisor@cpuc.ca.gov">public.advisor@cpuc.ca.gov</a>.

To obtain a copy of SCE's Application, or to request further information, please contact:

Christian Nelson

SCE Ontario Service Center 1351 E. Francis Street Ontario, CA 91761 Phone: (909) 930-8495 Fax: (909) 930-8407 Christian.Nelson@sce.com Beverly Powell SCE Redlands Service Center

287 Tennessee Street Redlands, CA 92373 Phone: (909) 307-6742 Fax: (909) 307-8308 Beverly.Powell@sce.com

## LIST OF NEWSPAPERS PUBLISHING THE NOTICE FOR A PERMIT TO CONSTRUCT

**Inland Valley Daily Bulletin** 2041 E. Fourth Street Ontario, CA 91764

# Appendix E CERTIFICATE OF SERVICE OF NOTICE OF APPLICATION FOR A PERMIT TO CONSTRUCT

### **CERTIFICATE OF SERVICE**

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have this day served a true copy of NOTICE OF APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U-338-3) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES: FALCON RIDGE SUBSTATION PROJECT on all parties identified on the attached service list(s). Service was effected by one or more means indicated below:

Placing copies in properly addressed sealed envelopes and depositing such copies in the United States mail with first-class postage prepaid to all parties.

Executed this 29<sup>th</sup> day of December 2010, at Rosemead, California.

/s/Meraj Rizvi

Meraj Rizvi, Project Analyst SOUTHERN CALIFORNIA EDISON COMPANY

> 2244 Walnut Grove Avenue Post Office Box 800 Rosemead, California 91770

### **FALCON RIDGE PROJECT AGENCY SERVICE LIST**

·	Supervisor Josie Gonzales County of San Bernardino 385 N. Arrowhead Ave. San Bernardino, CA 92415	Greg Devereaux County Administrative Officer County of San Bernardino 385 N. Arrowhead Ave. San Bernardino, CA 92415
Dena Smith Director County of San Bernardino Land Use Services Department 385 N. Arrowhead Avenue, 5th Floor San Bernardino, CA 92415	Mary Mayes Planning Commission Secretary County of San Bernardino 385 N. Arrowhead Avenue, 5th Floor San Bernardino, CA 92415	Acquanetta Warren Mayor Pro Tem City of Fontana 8353 Sierra Ave. Fontana, CA 92335
Ken Hunt City Manager City of Fontana 8353 Sierra Ave. Fontana, CA 92335	Don Williams, Director Community Development City of Fontana 8353 Sierra Ave. Fontana, CA 92335	Lawrence Meyer, Chair Planning Commission City of Fontana 8353 Sierra Ave. Fontana, CA 92335
Dennis Michael Mayor City of Rancho Cucamonga 10500 Civic Center Dr. Rancho Cucamonga, CA 91730	Jack Lam City Manager City of Rancho Cucamonga 10500 Civic Center Dr. Rancho Cucamonga, CA 91730	James Troyer Planning Director City of Rancho Cucamonga 10500 Civic Center Dr. Rancho Cucamonga, CA 91730
Lou Munoz, Chair Planning Commission City of Rancho Cucamonga 10500 Civic Center Dr. Rancho Cucamonga, CA 91730	Grace Vargas Mayor City of Rialto 150 S. Palm Ave. Rialto, CA 92376	Henry Garcia City Administrator City of Rialto 150 S. Palm Ave. Rialto, CA 92376
Mike Story Planning Director City of Rialto 150 S. Palm Ave. Rialto, CA 92376	Beth George, Chair Planning Commission City of Rialto 150 S. Palm Ave. Rialto, CA 92376	Melissa Jones, Executive Director California Energy Commission 1516 Ninth Street Sacramento, CA 95814-5512
Karen Miller, Public Advisor California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102	Julie Fitch, Energy Division Director California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102	Karen Clopton, Chief ALJ California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102
Paul Clanon, Executive Director California Public Utilities Commission 505 Van Ness Avenue San Francisco, CA 94102	Randell Iwasaki, Director California Department of Transportation PO Box 942873 Sacramento, CA 94273-0001	Sandra Shewry, Director Department of Health Services 1501 Capitol Ave., Suite 6001 Sacramento, CA 94234-7320

Mike Chrisman, Secretary California Resources Agency 1416 Ninth St., Suite 1311 Sacramento, CA 95814	Donald Koch, Director Department of Fish and Game Headquarters 1416 Ninth Street Sacramento, CA 95814	Dorothy Rice, Executive Director State Water Resources Control Board 1001 "I" Street Sacramento, CA 95814
Richard Corey, Division Chief California Air Resources Board Stationary Source Division 1001 "I" Street PO Box 2815 Sacramento, CA 95812	Gary Cathey, Acting Chief California Department of Transportation Division of Aeronautics, MS # 40 PO Box 942874 Sacramento, CA 94274-0001	Gerard Thibeault, Executive Officer California Regional Water Quality Control Board Santa Ana Office 3737 Main Street, Suite 500 Riverside, CA 92501-3339
Dr. Ray Wolfe, Director California Department of Transportation District 8 464 West 4 <sup>th</sup> Street San Bernardino, CA 92401	South Coast Air Quality Management District	Dan Swenson, Section Chief U.S. Army Corps of Engineers Regulatory Division 915 Wilshire Blvd. – Suite 1085 Los Angeles, CA 90017

SITUS_ZIP SITUS COUNTY NAVAIL SAN BERNARDINO NAVAIL			4		92336 SAN BERNARDINO 92336
SITUS CITY/STATE SIT N/AVAIL N/A N/AVAIL N/A N/AVAIL N/A N/AVAIL N/A N/AVAIL N/A N/AVAIL N/A		₹.	<b>4</b> 8 8888	555555555	FONTANA, CA FONTAN
SITUS ADDRESS N/AVAIL N/AVAIL N/AVAIL N/AVAIL N/AVAIL N/AVAIL N/AVAIL		rster ave	_		
MAILING ZIP S 90054 N 90801 N 90801 N 90801 N 90801 N 90054 N		.0835	=	5316	92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336
MAILING CITY/STATE LOS ANGELES CA LONG BEACH CA LONG BEACH, CA LONG BEACH, CA SAN BERNARDINO, CA LOS ANGELES, CA	LONG BEACH, CA LONG BEACH, CA LOS ANGELES, CA LAHBRA, CA LONG BEACH, CA LONG BEACH, CA	LONG BEACH, CA KNOXVILLE TN SAN BERNARDINO, CA KNOXVILLE, TN NAVAIL LONG BEACH, CA	LONG BEACH, CA NAVAIL LOS ANGELES, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA
MAILING ADDRESS P O BOX 64163 PO BOX 1440 PO BOX 1440 PO BOX 1440 PO BOX 1453 P O BOX 64163	PO BOX 1440 PO BOX 1440 P O BOX 54153 1421 N IDAHO STREET PO BOX 54140 PO BOX 1440	PO BOX 1440 2112 RIVERSOUND DR 825 E THIRD ST 2112 RIVERSOUND DR NAVAIL PO BOX 1440	PO BOX 1440 NIAVAIL P O BOX 54153 9680 CITRUS AVE 15023 GRAVITE PEAK AVE 15079 GRAVITE PEAK AVE	15073 GRANITE PEAK AVE 15069 GRANITE PEAK AVE 15063 GRANITE PEAK AVE 15067 GRANITE PEAK AVE 15067 GRANITE PEAK AVE 15047 GRANITE PEAK AVE 15041 GRANITE PEAK AVE 15043 GRANITE PEAK AVE 15059 GRANITE PEAK AVE	15179 CRAZY HORSE AVE 16175 CRAZY HORSE AVE 15163 CRAZY HORSE AVE 15163 CRAZY HORSE AVE 15157 CRAZY HORSE AVE 15154 CRAZY HORSE AVE 15145 CRAZY HORSE AVE 15145 CRAZY HORSE AVE 15145 CRAZY HORSE AVE 15135 CRAZY HORSE AVE 15129 CRAZY HORSE AVE 15129 CRAZY HORSE AVE 15129 CRAZY HORSE AVE 15139 CRAZY HORSE AVE 15135 CRAZY HORSE AVE 15135 CRAZY HORSE AVE 15136 CRAZY HORSE AVE 15137 REAGAN DR 5731 REAGAN DR 5737 REAGAN DR
APN FORMAT 0226-121-17 0226-121-18 0226-121-19 0226-121-24 0226-131-11 0226-13-04	0226-132-05 0226-132-05 0226-132-08 0226-132-11 0226-132-12	0226132-13 0226133-03 0226133-04 0226133-08 0226134-00 0226134-02	0226-134-07 0226-134-08 0226-141-02 0226-151-02 0226-711-13 0226-711-63	0226-711-64 0226-711-65 0226-711-65 0226-711-67 0226-711-68 0226-711-70 0226-711-71	0226-731-39 0226-741-06 0226-741-07 0226-741-08 0226-741-10 0226-741-12 0226-741-13 0226-741-13 0226-741-15 0226-741-13 0226-741-13 0226-741-13 0226-741-13 0226-741-13 0226-741-30

SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BE	SAN BERNARDINO
92336 92336 92336 92336 92336 92336 92336	92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336	92336 92336 92336 92336 92336 92336 92336
FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA		FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA
5741 REAGAN DR 5747 REAGAN DR 5761 REAGAN DR 5767 REAGAN DR 5773 REAGAN DR 5798 REAGAN DR 5791 REAGAN DR	5797 REAGAN DR 5803 REAGAN DR 5809 REAGAN DR 5829 REAGAN DR 5721 MADISON LN 5774 MADISON LN 5774 MADISON LN 5774 MADISON LN 5781 MONROE CT 5826 MONROE CT 5826 MONROE CT 5825 JEFERSON CT NAVAIL NAVAIL 8647 REAGAN DR 5867 REAGAN DR 5861 REAGAN DR 5862 COLD CREEK CT 5868 COLD CREEK CT	5994 COLD CREEK CT 6002 COLD CREEK CT 15260 CLEARSPRING LN 5987 CREEKSIDE DR 5987 CREEKSIDE DR 5975 CREEKSIDE DR 5967 CREEKSIDE DR 5961 CREEKSIDE DR 5961 CREEKSIDE DR
92336 92336 92336 92336 92336 92336 92336	92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338 92338	92336 92336 92336 92336 92336 92336 92336
FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA OCEANSIDE, CA
5741 REAGAN DR 5747 REAGAN DR 5761 REAGAN DR 5767 REAGAN DR 5773 REAGAN DR 5779 REAGAN DR 5791 REAGAN DR	5797 REAGAN DR 5803 REAGAN DR 5803 REAGAN DR 5817 REAGAN DR 5823 REAGAN DR 5825 REGAN DR 5825 REGAN DR 5724 MADISON LN 5774 MADISON LN 5774 MADISON LN 5774 MONROE CT 5836 JEFFRSON CT 5835 JEFRRA AVE 5841 REAGAN DR 5841 REAGAN DR 5842 REAGAN DR 5842 REAGAN DR 5843 SIERRA AVE 5841 REAGAN DR 5853 SIERRA AVE 5851 REAGAN DR 5853 SIERRA AVE 5851 REAGAN DR 5851 REAGAN DR 5851 REAGAN DR 5851 REAGAN DR 5852 ROOSEVELT DR 5851 FOREST GLEN DR 5851 FOREST GLEN DR 5801 FOREST GLEN DR 5801 COLD CREEK CT 5894 COLD CREEK CT 5896 COLD CREEK CT 5896 COLD CREEK CT 5897 COLD CREEK CT 5897 COLD CREEK CT 5897 COLD CREEK CT 5898 COLD CREEK CT 5898 COLD CREEK CT 5898 COLD CREEK CT	5994 COLD CREEK CT 6002 COLD CREEK CT 15250 CLEARSPRING LN 5987 CREEKSIDE DR 5987 CREEKSIDE DR 5967 CREEKSIDE DR 5967 CREEKSIDE DR 5961 CREEKSIDE DR 1165 PARKVIEW DR
0226-831-04 0226-831-05 0226-831-07 0226-831-08 0226-831-10 0226-831-10	0226-831-13 0226-831-14 0226-831-14 0226-831-16 0226-831-16 0226-831-18 0226-831-34 0226-831-42 0226-831-43 0226-831-43 0226-831-44 0226-831-40 0226-831-6 0226-831-8	0226-861-30 0226-861-34 0226-861-35 0226-861-35 0226-861-36 0226-861-38 0226-861-39

SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO
92336 92336 92336 92336 92336 92336 NMAVAIL	92336 92336 92336 NIAVAIL NAVAIL 92336 92336	92336 92336 N/AVAIL N/AVAIL 92336 92336 N/AVAIL 92336 N/AVAIL	N/AVAIL 92335 N/AVAIL N/AVAIL 92336 92336 92336 92336 92336 92336 92336 92336 N/AVAIL N/AVAIL 92336 92336 92336	92336 92336
FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA NAVARIA	FONTANA, CA FONTANA, CA FONTANA, CA NAVAIL NAVAIL FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA NAVAIL FONTANA, CA FONTANA, CA FONTANA, CA NAVAIL FONTANA, CA NAVAIL FONTANA, CA	NAVAIL FONTANA, CA NAVAIL FONTANA, CA NAVAIL NAVAIL FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA
5947 CREEKSIDE DR 5941 CREEKSIDE DR 5935 CREEKSIDE DR 5927 CREEKSIDE DR 5921 CREEKSIDE DR 593 GREEKSIDE DR MAVAIL	19226 CLEAR SPRING LN 15245 CLEAR SPRING LN NAVAIL NAVAIL 14993 CATANIA WY 14991 CATANIA WY 14094 CATANIA WY	14933 GENOAD IN 14933 GENOAD IN 14911 HIGHLAND AVE NAVAIL 19970 VICTORIA ST 14907 HIGHLAND AVE NAVAIL S HIGHLAND AVE 14192 BASE LINE NAVAIL	NAVAIL BANANA AVE NIAVAIL VICTORIA ST NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL BELNORTE ST DEL NORTE ST NAVAIL NAVAIL RANANA AVE NAVAIL	7253 KITTY HAWK ST 7234 BODEGA ST
92336 92336 92336 92336 92336 92336 91768-2641	92336 92336 92335 97335 91768-2641 90631 92336	92336 92415 90054 90001 90001 90054 90048 92416	90054 90024 90054 90054 90801 90801 90801 90801 90024 90024 9001 90054 90054 90054 90054 90054 90054	92336 92336
FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA POMIONA, CA POMIONA, CA	FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA POMONA, CA LA HABRA, CA FONTANA, CA FONTANA, CA	FONTANA, CA SAN BERNARDINO, CA LOS ANGELES, CA LONG BEACH, CA LONG BEACH, CA LONG BEACH, CA LOS ANGELES, CA LOS ANGELES, CA LOS ANGELES, CA SAN BERNARDINO, CA SAN BERNARDINO, CA	LOS ANGELES, CA LOS ANGELES, CA LOS ANGELES, CA LOS ANGELES, CA LONG BEACH, CA LON ANGELES, CA LOS ANGELES, CA LONG BEACH, CA LONG BEACH, CA LONG BEACH, CA NIAVAIL	FONTANA, CA RANCHO CUCAMONGA, CA
5947 CREEKSIDE DR 5941 CREEKSIDE DR 5935 CREEKSIDE DR 5927 CREEKSIDE DR 5921 CREEKSIDE DR 5913 CREEKSIDE DR 991 CORPORATE CENTER DR STE 201	1922 OLEARSPRING LN 19236 CLEARSPRING LN 16243 CLEARSPRING LN 8953 SIERRA AVE 801 CORPORATE CENTER DR STE 201 1421 N IDAHO ST 14981 CATANIA WY 14986 GENOA DR	14933 GENOA DR 825 E THIRD ST P O BOX 54153 PO BOX 1440 90 BOX 1440 34197 PACIFIC COAST HIGHWAY # 110 PO BOX 1440 616 N SWEETZER AVE # 104 1170 W THIRD ST 2ND FLOOR	P O BOX 54153 10960 WILSHIRE BLVD STE 1225 P O BOX 54153 P O BOX 1440 P O BOX 1440 P O BOX 1440 P O BOX 1440 P O BOX 518 P O BOX 518 P O BOX 518 P O BOX 54153 P O BOX 1440 NAVAIL	7253 KITTY HAWK ST 9620 CENTER AVE 100
0226-861-41 0226-861-42 0226-861-43 0226-861-44 0226-861-45 0226-861-45	0226-871-09 0226-871-09 0226-871-09 0226-881-01 0226-811-17 0226-911-18	0226-911-20 0228-012-02 0228-012-04 0228-012-06 0228-021-07 0228-021-07 0228-021-40 0228-031-40 0228-031-40	0228-091-24 0228-091-24 0228-091-28 0228-091-38 0228-091-38 0228-091-31 0228-091-33 0228-091-33 0228-091-33 0228-091-33 0228-091-38 0228-091-38 0228-092-19 0228-092-19 0228-092-19 0228-092-19 0228-092-19 0228-092-19	0228-582-06 0228-582-27

SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO	SAN BEDNIADINO	SAN BERNARDING	SAN RERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	CAN DEDUCATION	SAN BERNARDING	ONICH DELIVER ON THE CONTROL OF THE	SAN REPNARDING	SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING
92336 92336	92336	92336	92336	92336	92336	92336	92336	92335	N/AVAIL	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92228	92336	92336	92330 N/A)/All	92336	92336	92336	92336	92336	92336	92336	92336	92336	95330	92336	92200	92336	92336	NAVAIL		91739	N/AVAIL	N/AVAIL	NAVAIL
FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA	FONTANA, CA		FONTANA, CA	FONTANA CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	N/AVAIL	FONTANA, CA		FONTANA, CA	FONTANA, CA		FONTANA, CA		FON I ANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FOR ANY CA	FONTANA, CA		N/A//All	FONTANA CA		FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA CA	TO VIVE DIST		FONTANIA OA	FONTANA CA	FONTANA CA	NAVAIL	ETIWANDA, CA	ETIWANDA, CA	ETIWANDA, CA	ETIWANDA, CA	ETIMANDA CA
7244 BODEGA ST 7254 BODEGA ST	7255 BODEGA ST 7245 BODEGA ST	7235 BODEGA ST	7225 BODEGA ST	/215 BODEGA ST	7216 BIG SUR ST	7226 BIG SUR ST	7217 BIG SUR ST	7207 BIG SUR AVE	N/AVAIL	7236 BIG SUR ST	7246 BIG SUR ST	7187 BIG SUR ST	7197 BIG SUR ST	7198 WAKE CT	7188 WAKE ST	7178 WAKE CT	/168 WAKE CI	7158 WAKE C1	7148 WAKE CT	7138 WAKE CT	7128 WAKE CT	/ I I S WARE C	7177 WAKE CT	7107 WANE CT	N/A/AII	14975 SOLITH HIGHLAND AVE	14975 SOUTH HIGHLAND AVE	14975 SOUTH HIGHLAND AVE	14975 S HIGHLAND AVE	14975 S HIGHLAND AVE	14975 S HIGHLAND AVE	14975 S HIGHLAND AVE	14975 SHIGHLAND AVE	14975 HIGHLAND AVE	14075 0 DIGHERAND AVE	14875 S HIGHLAND AVE	1407E O LICITOR DAVE	14975 SHIGH AND AVE	14975 S HIGHI AND AVE	NAVAIL	16351 FOOTHILL BLVD	13247 FOOTHILL BLVD	8401 ETIWANDA AVE	12977 ARROW	1302/ AKKOW
91730	92336 92336	92336	92336	92336	92336	92336	92336	92335	90054	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92236	92336	92236	92330	92336	92336	92336	92336	92336	92336	92336	10/18	92336	92330	92336	92220	92236	92336	92660	91510-7764	91730	91730	91784	80 / L8
	FONTANA, CA FONTANA, CA	FONTANA, CA	FONTANA, CA	FON FANA CA	FONTANA CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	LOS ANGELES, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA		FONTANA, CA	FONTANA, CA	FONTANA, CA	FON JANA, CA	FON JANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	TO STATE OF	FONTANA, CA	FONTANA CA	LOS ANGELES CA	FONTANA CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	ALIA LOMA, CA	TON ANA CA	CO CINCLINOL	FONTANA OA		FONTANA CA	FONTANA CA	NEWPORT BEACH, CA	BURBANK, CA	RANCHO CUCAMONGA, CA	RANCHO CUCAMONGA, CA	UPLAND, CA	CHINO HILLS, CA
7244 BODEGA ST 7254 BODEGA ST	7255 BODEGA ST 7245 BODEGA ST	7235 BODEGA ST	7225 BODEGA ST	/ZIS BODEGASI	7216 BIG SUR ST	7226 BIG SUR ST	7217 BIG SUR ST	7207 BIG SUR ST	P O BOX 54153	7236 BIG SUR ST	7246 BIG SUR ST	7187 BIG SUR ST	7197 BIG SUR ST	7198 WAKE CT	7188 WAKE CT	71/8 WAKE CT	/168 WAKE CI	7158 WAKE CI	7148 WAKE CT	7138 WAKE CT	7128 WAKE CT	/ I I S V WAR C I	7177 WAKE CT 2482140KE CT	7107 WAKE CT	7.197 WANE CI	14975 S HIGHI AND AVE #1	14975 S HIGHLAND AVE #2	14975 S HIGHLAND AVE #3	14975 S HIGHLAND AVE #4	14975 SOUTH HIGHLAND AVENUE #5	14975 SHIGHLAND AVE #6	14975 S HIGHLAND AVE #7	6/38 VANDERBILL PL	14975 SHIGHLAND AVE #8	140/0 0 TIGHT ON THE 40	14975 S HIGHLAND AVE # 13	4.4076 CIAN II CII O 27074	14975 SHIGHEAND AVE #108	14975 SHIGH AND AVE #109	4490 VON KARMAN AVE	P O BOX 7764	8599 HAVEN AVE STE 205	10070 ARROW ROUTE	382 W 22ND ST	15350 FAIRFIELD KANCH KD K
0228-582-28 0228-582-29	0228-582-30 0228-582-31		0228-582-33	0228-582-34	0228-582-37	0228-582-38	0228-582-41	0228-582-42	0228-582-43	0228-582-44	0228-582-45	0228-593-38	0228-593-39	0228-593-40	0228-593-41	0228-593-42	0228-593-43	0228-593-44	0228-593-45	0228-593-46	CT +05		0228-593-49		2002	0228-833-92	0228-992-03	0228-992-04	0228-992-05					0228-992-10	0220-932-11	0228-892-14	0220-332-13			_		0229-041-10			0229-141-06

SAN BERNARDINO SAN BE	SAN BERNARDINO
NAVAIL NA	NAVAIL NAVAIL 92335 91739 91739 91739 91739
ETIWANDA CA ETIWANDA CA ETIWANDA CA ETIWANDA CA ETIWANDA CA RANCHO CUCAMONGA CA RANCHO CUCAMONGA CA RANCHO CUCAMONGA CA ETIWANDA CA	NAVAIL NIVANIL NIVANIL ETIWANDA, CA RANCHO CUCAMONGA, CA ETIWANDA, CA
12997 ARROW BLVD 12925 ARROW BLVD 12993 ARROW BLVD 8689 ETIWANDA AVE 8604 PECAN AVE 8613 ETIWANDA AVE 8615 ETIWANDA AVE 8675 ETIWANDA AVE 12988 WHITTRAM AVE 12988 WHITTRAM AVE 12928 WHITTRAM AVE 12928 WHITTRAM AVE 12928 WHITTRAM AVE 12927 WHITTRAM AVE 12937 WHITTRAM AVE 12937 WHITTRAM AVE 12937 WHITTRAM AVE 13012 WHITTRAM AVE 12937 WHITTR	NAVAIL NIAVAIL NIAVAIL NIAVAIL 8939 ETIWANDA AVE 8116 CORNWALL AVE 8168 CORNWALL AVE 8178 CORNWALL AVE 8198 CORNWALL AVE 8198 CORNWALL AVE 8198 CORNWALL AVE
32870 91311 91786 91739 98047 90670 91729-0548 91729-0548 91729-0548 91729-0548 91729-0548 91729-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-0548 91739-05691 91730-05691 91730-05691 91730-05691 91730-05691 91730-05691 91730-05691 91730-05691 91730-05691	92335 92335 07450 91730 91739 NAVAIL 91739 91739
OCALA, FL CHATSWORTH, CA UPLAND, CA UPLAND, CA CHINO HILLS, CA RANCHO CUCAMONGA, CA NIAVALL RANCHO CUCAMONGA, CA NESTIMINSTER, CA WESTIMINSTER, CA WESTIMINSTER, CA WESTIMINSTER, CA WESTIMINSTER, CA WESTIMINSTER, CA FONTAMA, CA FONTAMA FONTAM	FON JANA, CA FON JANA, CA RIDGEWOOD, NJ RANCHO CUCAMONGA, CA ARCADIA, CA RANCHO CUCAMONGA, CA N/AVAII ALTA LOMA, CA RANCHO CUCAMONGA, CA ETIWANDA, CA
1108 N E 17TH AVE 10357 WINNETKA AVE 10357 WINNETKA AVE 722 PORTILLO 2472 VALLEY VIEW DR 8589 ETIWANDA 151 STEWART ROAD SW 14780 CHERY SA8 151 STEWART ROAD SW PO BOX 548 151 STEWART ROAD SW PO BOX 548 151 STEWART ROAD SW PO BOX 548 PO BOX 138 1110 W THIRD ST 2ND FLOOR 1170 W THIRD ST 2ND T ST 14799 CHESTNUT ST 14799 CHESTNUT ST 16791 CHEDRY AND	9300 CHERRY AVE 9300 CHERRY AVE 79 CHESTNUT ST 8116 CORNWALL AVE 481 WORKMAN AVE 8166 CORNWALL AVE NAVAIL P O BOX 582 8199 CORNWALL AVE 8206 CORNWALL AVE
0229-141-09 0229-141-15 0229-141-13 0229-141-13 0229-141-13 0229-141-14 0229-141-14 0229-151-16 0229-151-16 0229-151-16 0229-161-17 0229-161-10 0229-161-09 0229-161-09 0229-161-09 0229-161-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-10 0229-162-11 0229-162-11 0229-162-11 0229-162-11 0229-162-11 0229-162-11 0229-281-11	0229-281-46 0229-281-54 0229-301-01 0229-301-02 0229-302-08 0229-302-09 0229-302-10 0229-303-09

SAN BERNARDINO	SAN BERNARDINO
91 739 91	92376
RANCHO CUCAMONGA CA ETIWANDA CA ETIWANAL NIAVAIL NIAVAIL NIAVAIL EONTANA, CA FONTANA, CA F	RIA, CA
8214 CORNWALL AVE 8236 CORNWALL AVE 8238 CORNWALL AVE 13044 INY AVE 13045 INY AVE 13045 INY AVE 13045 INY AVE 8283 CORNWALL AVE 8283 CORNWALL AVE 8285 CORNWALL AVE 8245 CORNWALL AVE 8150 CORNWALL AVE 8165 CORNWALL AVE 8175 CORNWALL 8175 CORNWALL AVE 8175 CORNWALL 8175 COR	SIERRA (REAR) AVE
91701 91739	55440-9456
ALTALOMA CA RANCHO CUCAMONGA, CA ALTALOMA, CA ALTALOMA, CA ALTALOMA, CA ALTALOMA, CA ALTALOMA, CA ALTALOMA, CA RANCHO CUCAMONGA, CA RANCHE, CA RANCHE, CA RANCHIL NAVAIL	MINNEAPOLIS, MN
P O BOX 8682 8220 CORNWALL AVE 8230 CORNWALL AVE 8238 CORNWALL AVE 13044 IVY 10370 TRADEMARK ST 6283 CORNWALL AVE 8283 CORNWALL AVE 8283 CORNWALL AVE 8283 CORNWALL AVE 8285 CORNWALL AVE 8287 CORNWALL AVE 8287 CORNWALL AVE 8199 CORNWALL AVE 8199 CORNWALL AVE 8199 CORNWALL AVE 8199 CORNWALL AVE 8195 CORNWALL 8195 COR	PO BOX 9456
0229-303-11 0229-303-12 0229-303-13 0229-303-14 0229-303-16 0229-304-08 0229-304-08 0229-304-09 0229-304-09 0229-305-01 0229-305-04 0229-305-04 0229-305-04 0229-305-10 0229-305-10 0229-305-11 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-305-14 0229-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25 0239-141-25	0239-161-46

SAN BERNARDINO SAN BENARDINO SAN BEN	SAN BERNARDINO SAN BERNARDINO
NIAVAIL 92336	92336 N/AVAIL
NAVAIL FONTANA, CA	R FONTANA, CA N/AVAIL
NIAVAIL  5620 CORALWOOD PL 5630 CORALWOOD PL 5631 CORALWOOD PL 5631 CORALWOOD PL 5631 CORALWOOD PL 5631 PINE LEAF AVE 5636 PINE LEAF AVE 5636 PINE LEAF AVE 5636 PINE LEAF AVE 5636 PINE LEAF AVE 5637 PINE LEAF AVE 5638 PINE LEAF AVE 5638 PINE LEAF AVE 5638 WOODSCENT CT 5631 WOODSCENT CT 5631 WOODSCENT CT 5631 WOODSCENT CT 5631 WOODSCENT CT 5632 WOODSCENT CT 5632 WOODSCENT CT 5632 WOODSCENT CT 5632 WOODSCENT CT 5631 WOODSCENT CT 5632 WOODSCENT CT 5631 WOODSCENT CT 5632 WOODSCENT CT 5631 WOODSCENT CT 5631 WOODSCENT CT 5631 WOODSCENT CT 5632 WOODSCENT CT 5631 WOODSCENT CT 5632 WOODSCENT CT 5631 WOODSCENT CT 5632 WOODSCENT CT 6632 WOODSCEN	7370 W LIBERTY PARKWAY CIR N/AVAIL
90801 92336	92408-3400 92660
LONG BEACH, CA FONTANA, CA FON	SAN BERNARDINO, CA NEWPORT BEACH, CA
PO BOX 410 5520 CORALWOOD PL 5529 CORALWOOD PL 5530 CORALWOOD PL 5530 CORALWOOD PL 5530 CORALWOOD PL 5531 CORALWOOD PL 5511 CORALWOOD PL 5511 CORALWOOD PL 5511 CORALWOOD PL 5512 CORALWOOD PL 5514 DINE LEAF AVE 5526 PINE LEAF AVE 5526 PINE LEAF AVE 5526 PINE LEAF AVE 5526 PINE LEAF AVE 5525 PINE LEAF AVE 5521 WOODSCENT CT 5518 WOODSCENT CT 5518 WOODSCENT CT 5518 WOODSCENT CT 55218 WOODSCENT	1887 BUSINESS CENTER DR. #18 230 NEWPORT CENTER DR STE 300
0239 462-01 0239 482-01 0239 482-03 0239 482-03 0239 482-13 0239 482-13 0239 482-14 0239 482-14 0239 482-14 0239 482-14 0239 482-16 0239 482-24 0239 482-24 0239 482-24 0239 482-34 0239 482-34 0239 482-34 0239 482-34 0239 482-34 0239 482-34 0239 482-44 0239 482-60 0239 482-60 0239 482-60 0239 482-60 0239 482-41 0239 82-60 0239 82-70 0239 82-80 0239 82-80 023	1100-111-38 1100-111-39

SAN BERNARDINO SAN BE
NAVAIL 91739 91739 91739 91739 NAVAIL 91739 NAVAIL 92336
NWAVAIL NAVAIL NAVAIL RANCHO CUCAMONGA CA RANCHO CUCAMONGA CA NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL FONTANA, CA FONTA
N/AVAIL N/AVAIL CORNWALL CT 7685 CLASSICO PL 7577 CLASSICO PL N/AVAIL EAST AVE N/AVAIL N/AVAIL N/AVAIL 13405 HUNTINGTON ST 13406 HUNTINGTON ST 134
92334 92334 91739 91739 91739 91739 91731 91781 91781 91783 92336 92338
FONTANA, CA NEWPORT BEACH, CA RANCHO CUCAMONGA, CA RANCHO CUCAMONGA, CA RANCHO CUCAMONGA, CA RANCHO CUCAMONGA, CA MONTEREY PARK, CA WEST COVINA, CA RONCHOLLE, CA RONCHO CUCAMONGA, CA LOS ANGELES, CA MONTCLAIR, CA FONTANA,
PO BOX 518 230 NEWPORT CENTER DR STE 300 4490 VON KARMAN AVE 7885 CLASSICO PL 7577 CLASSICO PL 7576 E GARVEY AVE NORTH STE B-18 2ND FL 1000 DOVE ST STE 100 1000 E 15TH ST 1340B HUNTINGTON ST 1340B HUNTINGTON ST 1340H HUNTINGTON ST 1340H BUNTINGTON ST 1340H BUNTINGTON ST 1340H BUNTINGTON ST 1340H BUNTINGTON ST 1341 BEAR CREEK DR 7545 BEAR CREEK DR 7555 BEAR CREEK DR 7557 BEAR CREEK DR 7557 BEAR CREEK DR 7558 BEAR CREEK DR 7558 BEAR CREEK DR 7559 BEAR CREEK DR 7559 BEAR CREEK DR 7559 BEAR CREEK DR 7550 BEAR CREEK DR 7551 BEAR CREEK DR 7551 BEAR CREEK DR 7552 BEAR CREEK DR 7553 BEAR CREEK DR 7553 BEAR CREEK DR 7553 BEAR CREEK DR 7553 WLIBERTY PARKWAY #644 7543 WLIBERTY PARKWAY #645 7543 WLIBERTY PKWY #665
1100-111-46 1100-111-49 1100-171-14 1100-171-15 1100-191-04 1100-201-05 1100-201-05 1100-201-05 1100-201-05 1100-211-48 1100-211-48 1100-211-61 1100-211-61 1100-211-62 1100-211-74 1100-211-74 1100-211-74 1100-211-74 1100-211-74 1100-672-56 1100-672-56 1100-681-08 1100-681-08 1100-681-10 1100-681-10 1100-681-10 1100-681-10 1100-681-10 1100-681-10 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20 1100-681-20

=		SAN BERNARUNO	
92336 92336 92336 92336 92336 92336 NIAVAII	92336 92336 92336 92336 92336 92336 92336 92336 92336	92336 92336 92336 92336 92336 92336 92336	92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336
FONTANA, CA FONTANA, CA		FONIANA, CA FONTANA, CA	
	7543 W LIBERTY PKWY	7643 W LIBERTY PKWY	7643 W LIBERTY PKWY
92336 N/AVAIL 92336 92336 92336 92336 92336 92653 92653	92336 92336 92336 92336 91737 91737 92336 92336 92653	92336 92336 92336 92336 92336 92336 92336	912336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336 92336
FONTANA, CA NAVAIL FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA	FONTANA, CA	POUTANA, CA RANCHO CUCAMONGA, CA FONTANA, CA OUSTIL CA FONTANA, CA
7543 W LIBERTY PKWY #682 NAVAIL. 7543 W LIBERTY PKWY #684 14737 RESERVOIR RD 1419 DANDELION LN 7543 W LIBERTY PKWY #702 7543 W LIBERTY PKWY 703 7543 W LIBERTY PKWY 703 7543 W LIBERTY PKWY 703 7543 W LIBERTY PKWY 703	7543 LIBERTY PKWY #692 7543 W LIBERTY PKWY #693 7543 W LIBERTY PKWY #694 7543 W LIBERTY PKWY #696 7543 W LIBERTY PKWY #696 7505A MARTIN WY EAST STE 131 11431 MT PALOMAR 1543 W LIBERTY PKWY #713 7543 W LIBERTY PKWY #714 7543 W LIBERTY PKWY #716 7543 W LIBERTY PKWY #717 7543 W LIBERTY PKWY #717	7643 W LIBERTY PKWY #722 7543 W LIBERTY PKWY #724 P O BOX 1045 7543 U LIBERTY PKWY #736 7543 LIBERTY PKWY #731 7543 W LIBERTY PKWY #732 7543 W LIBERTY PKWY #734 7543 W LIBERTY PKWY #734 7543 W LIBERTY PKWY #734	743. ULBERTY PKNVY # 736 9206 HIDDEN FARM RD 743. W LIBERTY PKNVY 752 7543. W LIBERTY PKNWY #754 7543. W LIBERTY PKNWY #756 7543. W LIBERTY PARKWAY #756 7543. W LIBERTY PARKWAY #611 7543. W LIBERTY PARKWAY #611 74126 REMINGTON CT 801 JOHN BARROW RD 1 7543. W LIBERTY PKNYY #615 NAVAIL. 7543. W LIBERTY PKNYY #631 7543. W LIBERTY PKNYY #631 7543. W LIBERTY PKNYY #631 7543. W LIBERTY PKNYY #631
1100-681-30 1100-681-31 1100-681-33 1100-681-34 1100-681-35 1100-681-36 1100-681-36	1100-681-40 1100-681-42 1100-681-43 1100-681-45 1100-681-46 1100-681-46 1100-681-46 1100-681-46 1100-681-46 1100-681-51 1100-681-51 1100-681-51	1100-681-53 1100-681-54 1100-681-57 1100-681-59 1100-681-59 1100-681-59 1100-681-61	1100-681-69 1100-681-66 1100-681-66 1100-681-67 1100-681-73 1100-681-73 1100-681-73 1100-681-74 1100-681-74 1100-681-74 1100-681-76 1100-681-77 1100-681-77

SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO
92336 92336 92336 92336 92336 92336 92336	92336 92336 N/AVAIL 92336 92336 92336	92336 92336 92336 92336 92336 92336 92336	92336 92336 92336 92336 92336 NAVAIL NAVAIL NAVAIL	9.2336 92336 92336 92336 92336 92336 92336 92336 92336 92336
FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA NAVAIL FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA		FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA NAVAIL NAVAIL NAVAIL	FONTANA CA FONTANA CA
7543 W LIBERTY PKWY 7543 W LIBERTY PKWW	7543 W LIBERTY PKWY 7643 W LIBERTY PKWY NAVAIL 7796 SHERIDAN WY 7788 SHERIDAN WY 7780 SHERIDAN WY	13396 HARPER PL 13404 HARPER PL 13416 HARPER PL 13420 HARPER PL 13407 HARPER PL 13393 HARPER PL 13383 HARPER PL 13367 HARPER PL	7775 SHERIDAN WY 7781 SHERIDAN WY 7781 SHERIDAN WY 7801 SHERIDAN WY 13349 AUGUSTA WY N/AVAIL NAVAIL NAVAIL	7379 MCCELLAN CT 7379 MCCELLAN CT 7371 MCCELLAN CT 7367 MEADE CT 7363 MEADE CT N/AVAIL 7415 MCCELLAN CT 7409 MCCELLAN CT 7397 MCCELLAN CT 7397 MCCELLAN CT 7397 MCCELLAN CT 7397 MCCELLAN CT 7425 MCCELLAN CT 7425 MCCELLAN CT 7425 MCCELLAN CT
30269 92336 92336 92336 92336 92336 92336	92336 92336 92612 92336 92336 92336	92336 92336 92336 92336 92336 92336 92336	92336 92336 92336 92336 91788 91788 91788 92336	92336 92336 92336 92336 92336 92336 92336 92336 92336 92336
PEACHTREE CITY, GA FONTANA, CA	FONTANA, CA FONTANA, CA IRVINE, CA FONTANA, CA FONTANA, CA FONTANA, CA FONTANA, CA	FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA FOUTANA, CA	FONTANA, CA	FONTANA, CA FONTANA, CA
P O BOX 2507 743 W LIBERTY PKWY #536 7543 W LIBERTY PKWY # 651 7543 W LIBERTY PKWY #653 7543 W LIBERTY PKWY #654 7543 W LIBERTY PKWY #655 7543 W LIBERTY PKWY #656 7543 W LIBERTY PKWY #656 7543 W LIBERTY PKWY #656	7543 W LIBERTY PKWY #872 7643 W LIBERTY PKWY #673 19600 FAIRCHILD STE 150 7796 SHERIDAN WY 7788 SHERIDAN WY 7780 SHERIDAN WY 13388 HARPER PI	13396 HARPER PL 13404 HARPER PL 13412 HARPER PL 13407 HARPER PL 13393 HARPER PL 13383 HARPER PL 13387 HARPER PL 13367 HARPER PL	7775 SHERIDAN WY 7783 SHERIDAN PL 7781 SHERIDAN WY 7801 SHERIDAN WY 13349 AUGUSTA WY 801 CORPORATE CENTER DR 7804 SHERIDAN WAY 801 CORPORATE CENTER DR 7625 EAST AVENUE	7379 MCCLELLAN CT 7379 MCCLELLAN CT 7371 MCCLELLAN CT 7371 MCCLELLAN CT 7367 MEADE CT 801 CORPORATE CENTER DR 7415 MCCLELLAN CT 7409 MC CLELLAN CT 7403 MCCLELLAN CT 7397 MC CLELLAN CT 7385 MCCLELLAN CT 7435 MCCLELLAN CT 7431 MCCLELLAN CT 7431 MCCLELLAN CT
1100-681-81 1100-681-82 1100-681-83 1100-681-85 1100-681-85 1100-681-87 1100-681-87	1100-681-90 1100-681-92 1100-701-02 1100-701-03 1100-701-04	1100-701-15 1100-701-16 1100-701-18 1100-701-19 1100-701-20 1100-701-22 1100-701-23	1100-701-26 1100-701-28 1100-701-28 1100-701-28 1100-701-31 1100-701-33 1100-701-35	1100-771-04 1100-771-04 1100-771-04 1100-771-05 1100-771-05 1100-721-02 1100-721-05 1100-721-06 1100-721-06 1100-721-06 1100-721-10

SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO
92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	NAVAIL	NAVAIL	N/AVAIL	92336	92336	N/AVAIL	N/AVAIL	NAVAIL	NAVAIL	NAVAIL	N/AVAIL	92336
FONTANA, CA	FONTANA CA	FONTANA, CA	FONTANA, CA	FONTANA, CA					FONTANA, CA		FONTANA, CA					FONTANA, CA		FONTANA, CA			FONTANA, CA		FONTANA, CA	FONTANA, CA								FONTANA, CA		FONTANA, CA		FONTANA, CA	FONTANA, CA	N/AVAIL	N/AVAIL	N/AVAIL		FONTANA, CA	N/AVAIL			FONTANA, CA	FONTANA, CA	N/AVAIL	FONTANA, CA
7439 MCCLELLAN CT 7440 MCCI FILAN CT	N/AVAII	7461 LONGSTREET LN	7451 LONGSTREET LN	N/AVAIL	13438 SILVERWOOD LN	13428 SILVERWOOD LN	13418 SILVERWOOD LN	7668 BEAR CREEK DR	7662 BEAR CREEK DR	7656 BEAR CREEK DR	7650 BEAR CREEK DR	7644 BEAR CREEK DR	7638 BEAR CREEK DR	7632 BEAR CREEK DR	7626 BEAR CREEK DR	7620 BEAR CREEK DR	7614 BEAR CREEK DR	7608 BEAR CREEK DR	7602 BEAR CREEK DR	7599 BEAR CREEK DR	7605 BEAR CREEK DR	7611 BEAR CREEK DR	7617 BEAR CREEK DR	7623 BEAR CREEK DR	7629 BEAR CREEK DR	7635 BEAR CREEK DR	7641 BEAR CREEK DR	7647 BEAR CREEK DR	7655 BEAR CREEK DR	7922 MARSHALL CT	7918 MARSHALL CT	7912 MARSHALL CT	7908 MARSHALL CT	7900 MARSHALL CT	7892 MARSHALL CT	7884 MARSHALL CT	7867 MARSHALL CT	NAVAIL	N/A/AIL	N/A/AIL	SUMMIT AVE	SUMMIT AVE	N/AVAIL	5453 LYTLE CREEK RD	5465 LYTLE CREEK RD	15800 SUMMIT AVE	5372 CITRUS AVE	N/AVAIL	15556 SUMMIT AVE
92336	91768	92336	91741	91768	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	91789	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92336	92335	90054	90801	92335	92401	90054	92683	92683	92683	92683	90054	92335
FONTANA, CA FONTANA CA	POMONA CA	FONTANA CA	GLENDORA, CA	POMONA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA		FONTANA, CA	WANUT, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FON JANA, CA	LOS ANGELES, CA	LONG BEACH, CA	FONTANA, CA	SAN BERNARDINO, CA	LOS ANGELES, CA	WESTMINSTER, CA	WESTMINSTER, CA	WESTMINSTER, CA	WESTMINSTER, CA	LOS ANGELES, CA	FONTANA, CA									
7439 MCCLELLAN CT 7440 MCCI FILAN CT	801 CORPORATE CENTER DR	7461 LONGSTREET LN	2011 E PINEHURST ST	801 CORPORATE CENTER DR	13438 SILVERWOOD LN	13428 SILVERWOOD LN	13418 SILVERWOOD LN	7668 BEAR CREEK DR	7662 BEAR CREEK DR	7656 BEAR CREEK DR	7650 BEAR CREEK DR	7644 BEAR CREEK DR	7638 BEAR CREEK DR	7632 BEAR CREEK DR	7626 BEAR CREEK DR	7620 BEAR CREEK DR	7614 BEAR CREEK DR	7608 BEAR CREEK DR	7602 BEAR CREEK DR	7599 BEAR CREEK DR	7605 BEAR CREEK DR	20803 VALLEY BLVD # 206	7617 BEAR CREEK DR	7623 BEAR CREEK DR	7629 BEAR CREEK DR	7635 BEAR CREEK DR	7641 BEAR CREEK DR	7647 BEAR CREEK DR	7655 BEAR CREEK DR	7922 MARSHALL CT	7918 MARSHALL CT	7912 MARSHALL CT	7908 MARSHALL CT	7900 MARSHALL CT	7892 MARSHALL CT	7884 MARSHALL CT	7867 MARSHALL CT	8353 SIERRA AVE	P O BOX 54153	PO BOX 1440	8353 SIERRA AVE	570 W 4TH ST	P O BOX 54153	14803 CHESTNUT ST	14799 CHESTNUT ST	14799 CHESTNUT ST	14803 CHESTNUT ST	P O BOX 54153	8353 SIERRA AVE
1100-721-13	1100-721-15	1100-721-16	1100-721-17	1100-721-35	1100-791-01	1100-791-02	1100-791-03	1100-791-04	1100-791-05	1100-791-06	1100-791-07	1100-791-08	1100-791-09	1100-791-10	1100-791-11	1100-791-12	1100-791-13	1100-791-14	1100-791-15	1100-791-18	1100-791-19	1100-791-20	1100-791-21	1100-791-22	1100-791-23	1100-791-24	1100-791-25	1100-791-26	1100-791-27	1100-801-01	1100-801-02	1100-801-03	1100-801-04	1100-801-05	1100-801-06	1100-801-07	1100-801-08	1100-801-38	1107-261-30	1107-261-31	1107-261-32	1107-261-33	1107-262-21	1107-262-22	1107-262-23	1107-262-29	1107-262-30	1107-262-31	1107-262-32

SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING SAN BERNARDING	SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDING	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO	SAN BERNARDINO SAN BERNARDINO
N/AVAIL N/AVAIL N/AVAIL N/AVAIL N/AVAIL 92336	92336 92336 92336	92336 92336 92336	92336 92336 92336	92336 92336 92336	92336 92336	92336 92336 92336	92336	92336	92336	92336 92336	92336 92336 92336	92336 92336 92336	92336	92336	92336 N/AVAIL	N/AVAIL	N/AVAIL	NAVAIL	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	92335 92335
NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL FONTANA CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA CA		FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA	FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA	FONTANA, CA		FON JANA, CA N/AVAIL	N/AVAIL	N/AVAIL	NAVAIL	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	FONTANA, CA FONTANA, CA
N/AVAIL N/AVAIL N/AVAIL N/AVAIL N/AVAIL 15809 FAN PALM ST	15817 FAN PALM ST 15823 FAN PALM ST 15831 FAN PALM ST	15839 FAN PALM ST 15847 FAN PALM ST 15853 FAN PALM ST	15861 FAN PALM ST 15869 FAN PALM ST 15877 FAN PALM ST	15895 FAN PALM ST 15893 FAN PALM ST 15901 FAN PALM ST	15909 FAN PALM ST 15915 FAN PALM ST	15925 FAN PALM ST 15931 FAN PALM ST 15928 DARKHOLISE DR	15922 PARKHOUSE DR 15922 PARKHOUSE DR 15912 PARKHOUSE DR	15906 PARKHOUSE DR	15892 PARKHOUSE DR	15884 PARKHOUSE DR 15876 PARKHOUSE DR	15870 PARKHOUSE DR 15862 PARKHOUSE DR 16862 DA DKHOUSE DP	15846 PARKHOUSE DR 15838 PARKHOUSE DR	15830 PARKHOUSE DR 15822 PARKHOLISE DR	15814 PARKHOUSE DR	15806 PARKHOUSE UK N/AVAIL	N/AVAIL N/AVAII	NAVAIL	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	N/AVAIL	6183 N SIERRA AVE SIERRA AVE
92595 91786 91785-0670 91785-0670 91786	92336 92336 92336	92336 92336 92336	92336 92336 92336	92336 92336 92336	92336 92336	N/AVAIL 91739 92336	92336	92336	92336	92336	92336 92336 92336	92336 92336	91730	92336	92336 92614	92614	92614	N/AVAIL	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	92336 92336
WILDOMAR, CA UPLAND, CA WILDOMAR, CA UPLAND, CA UPLAND, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA FONTANA, CA	FONTANA, CA FONTANA, CA	N/AVAIL RANCHO CUCAMONGA, CA FONTANA CA	FONTANA, CA	FONTANA, CA	FON TANA, CA	FONTANA, CA FONTANA, CA	FONTANA, CA	FONTANA, CA FONTANA, CA	RANCHO CUCAMONGA, CA	FONTANA, CA	FON JAINA, CA IRVINE, CA	IRVINE, CA	IRVINE, CA	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	FONTANA, CA FONTANA, CA
N/AVAIL 1156 NO MOUNTAIN AVE PO BOX 670 N/AVAIL 1156 NO MOUNTAIN AVE 15809 FAN PALM ST	15817 FAN PALM ST 15823 FAN PALM ST 15831 FAN PALM ST	15839 FAN PALM ST 15847 FAN PALM DR 15853 FAN PALM ST	15861 FAN PALM ST 15869 FAN PALM ST 15877 FAN PALM DR	15895 FAN PALM ST 15893 FAN PALM ST 15901 FAN PALM PR	AN PALM AN PALM	N/AVAIL 5149 TAHOE PL 15928 DA PKHOLISE DR	15922 PARKHOUSE DR 15912 PARKHOUSE DR	15906 PARKHOUSE DR	15892 PARKHOUSE DR 15892 PARKHOUSE DR	15884 PARKHOUSE DR 15876 PARKHOUSE DR	158/U PARKHOUSE DR 15862 PARKHOUSE DR 15852 DA DYLIOLISE DD	15826 PARKHOUSE DR 15838 PARKHOUSE DR	11512 STONECREST DR 15822 PARKHOLISE DR	15814 PARKHOUSE DR	15806 PARKHOUSE DR 2030 MAIN ST STE 1200	2030 MAIN ST STE	2030 MAIN ST STE	NAVAIL NAVAIL	N/AVAIL N/AVAIL	N/AVAIL N/AVAIL	6183 SIERRA AVE BLDG 2 6183 SIERRA AVE BLDG 2
1107-262-46 1107-262-49 1107-262-54 1107-262-66 1107-262-60	1107-401-02 1107-401-03 1107-401-04	1107-401-05 1107-401-06 1107-401-07	1107-401-08 1107-401-09 1107-401-10	1107-401-11 1107-401-12 1107-401-13	1107-401-14	1107-401-16 1107-401-17 1107-401-18	1107-401-19	1107-401-21	1107-401-23	1107-401-24	1107-401-26	1107-401-29	1107-401-31	1107-401-33	110/-401-34	1107-401-36	1107-401-38	1107-421-47	1107-421-51 1107-421-52	1107-421-53	1119-221-06 1119-221-07

SAN BERNARDINO SAN BE	SAN BERNARDINO
NJAVAIL 92336 NAVAIL 92335 NIAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL NJAVAIL	92376 92376 92376 92376 92376 92376 92376
NIAVAIL FONTANA, CA NIAVAIL FONTANA, CA NIAVAIL NIAVAIL NIAVAIL NIAVAIL FONTANA, CA NIAVAIL FONTANA, CA FONTANA, C	8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8
NIAVAIL SIERRA AVE NIAVAIL SIERRA AVE NIAVAIL	LOCUST AVE CASMALIA ST
92415-0832 92633 92415-0832 92346 92345-0832 92346 92780 92780 92780 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92415-0832 92863 91762 NIAVAIL NAVAIL NAVAIL USA	92335 90670 90670 90670 90670 90670
SAN BERNARDINO, CA NEWPORT BEACH, CA SAN BERNARDINO, CA HIGHLAND, CA SAN BERNARDINO, CA HIGHLAND, CA SAN BERNARDINO, CA TUSTIN, CA SAN BERNARDINO, CA NAVAIL NEWPORT BEACH, CA ONTARIO, CA NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL NAVAIL SAN BERNARDINO, CA SAN BERNARDINO, CA SAN BERNARDINO, CA RAVAIL SAN BERNARDINO, CA SAN BERNARDINO, CA SAN BERNARDINO, CA RAVAIL SAN BERNARDINO, CA SAN BERNARDINO, CA SAN BERNARDINO, CA RAVAIL SAN BERNARDINO, CA SAN BERNARDINO, CA SAN BERNARDINO, CA RALTO, CA FONTANA, CA FON	FONTANA, CA SANTA FE SPRINGS, CA
825 E THIRD ST RM 207 2611 VISTA DR 825 E THIRD ST RM 207 2605 MERCEDES 826 E THIRD ST RM 207 2605 MERCEDES 826 E THIRD ST RM 207 513 E 1ST ST B 825 E THIRD ST RM 207 1155 S WANAMAKER 825 E THIRD ST RM 207 3500-B W LAKE CENTER DR 825 E THIRD ST RM 207 15336 VALLEY BLVD 1827 W 77TH ST 826 E THIRD ST RM 207 15336 VALLEY BLVD 1827 W 77TH ST 1603 DANBURY DR 2867 NAROWHEAD AVE 386 N ARROWHEAD AVE 386 N ARROWHEAD AVE 387 NAROWHEAD AVE 113 AMBIANCE 113 AMBIANCE 1823 SAN ANTONIO NAVAIL NAVAIL NAVAIL 1N LEXINGTON AVE 620 NAVAIL 1N LO BOX 1327 10407 TRADEMARK ST 1000 NICOLLET MALL TPN-12B	9618 BLANCHARD 9615 S NORWALK BLVD STE B 9615 S NORWALK BLVD STE B
119 221 - 18 119 221 - 18 119 222 - 20 119 222 - 20 119 222 - 22 119 222 - 23 119 222 - 24 119 222 - 26 119 222 - 26 119 222 - 36 119 222 - 36 119 222 - 36 119 222 - 36 119 222 - 36 119 222 - 55 119 222 - 55 119 222 - 56 119 222 - 56 119 222 - 56 119 222 - 56 119 222 - 56 119 222 - 56 119 224 - 00 119 224 - 00 119 224 - 00 119 224 - 00 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10 119 224 - 10	1133-191-01 1133-191-15 1133-191-17 1133-191-18 1133-191-19 1133-191-20

SAN BERNARDINO	SAN BERNARDINO	SAN BERNARDINO
92376	N/AVAIL	N/AVAIL
RIA, CA	N/AVAIL	N/AVAIL
CASMALIAST	N/AVAIL	N/AVAIL
0/906	92677	92337
SANTA FE SPRINGS, CA	LAGUNA NIGUEL, CA	FONTANA, CA
9615 S NORWALK BLVD STE B	1 LIME ORCHARD	10645 NUEVO CT
1133-191-22	1133-241-04	1133-241-05

# Appendix F AGENCY COMMUNICATIONS



Mr. Dave Singleton Program Analyst Native American Heritage Commission 915 Capitol Mall, Room 364 Sacramento, CA 95814 December 9, 2009

#### SUBJECT: Native American Consultation Regarding the Proposed Devore Substation Project, San Bernardino County, California

Dear Mr. Singleton:

Southern California Edison (SCE) proposes to construct a new 56 MVA 66/12 kilovolt (kv) substation (Devore Substation) in order to meet projected electrical demand requirements and to improve reliability in the Rancho Cucamonga, Fontana and Rialto area. The project will require the construction of additional 66 kv lines to serve the substation. The tentative locations of the substation and potential routes for the transmission lines are located within the project boundary (Figure 1). SCE requests a review of the Sacred Lands File for the siting of the proposed Devore Substation Project in San Bernardino, County California.

The project area is located on portions of Sections 17, 18, 19, 20, 21, 28, 29, 30 and 33 Township 1 North, Range 5 West, and in portions of Sections 3, 4, 9, 13, 16, 17, 23, 24, 25, 26, 27, 34 and 35, Township 1 North, Range 6 West, Mount Diablo Base Meridian (MDBM) as depicted in the Devore, Fontana and Guasti USGS 7.5 Minute Series Topographic Quadrangles. The project area is crossed by the intersection of Highways 15 and 30.

SCE would appreciate any information you may have regarding Native American cultural resources located in or near the proposed project location that could be affected by the proposed project. Any information concerning the identity, location, character, and traditional use of cultural places identified during consultation will be considered confidential.

If you have any questions, please feel free to call me at (626) 302-5548 or via e-mail at natasha.tabares@sce.com. Thank you for your assistance and participation in this project.

Sincerely,

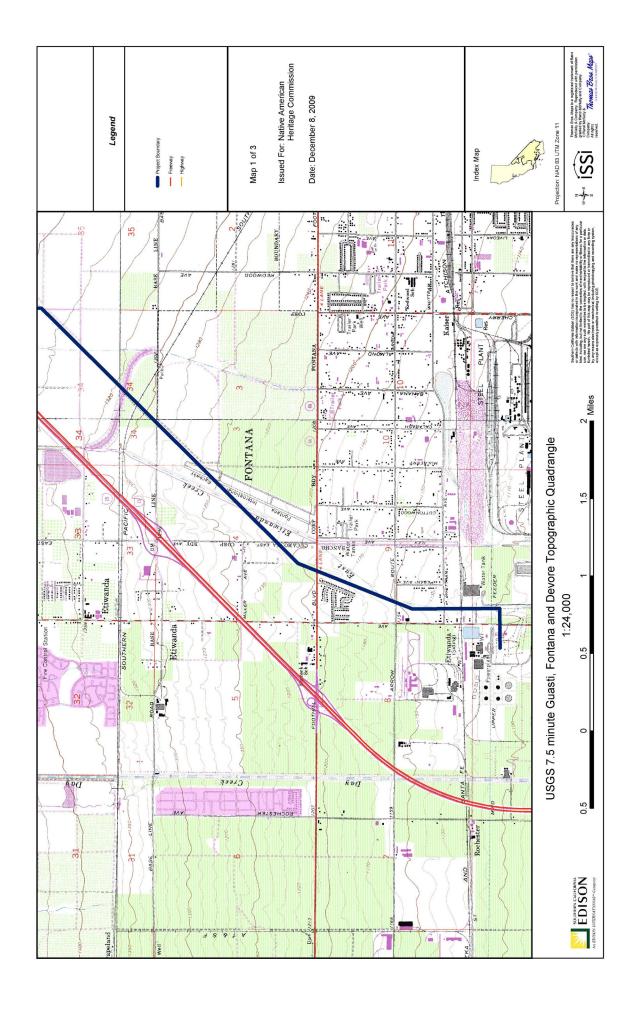
Natasha Tabares, RPA Archaeologist

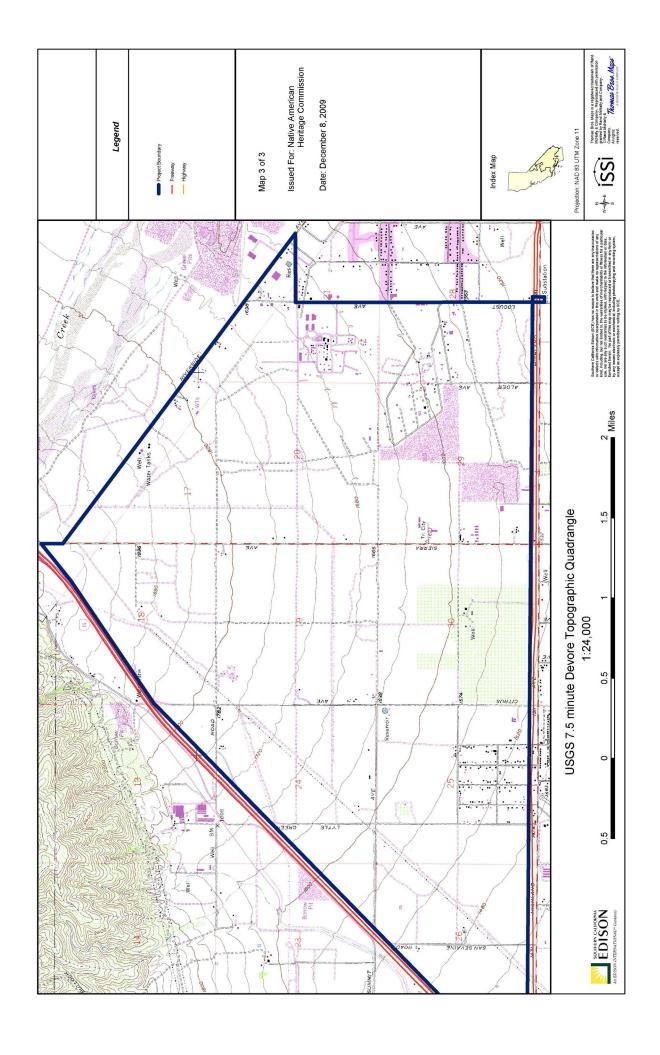
Southern California Edison

Corporate Environment, Health and Safety

Enclosure: Figure 1, Project Location

P.O. Box 800 2244 Walnut Grove Ave. Rosemead, CA 91770





#### NATIVE AMERICAN HERITAGE COMMISSION

915 CAPITOL MALL, ROOM 364 SACRAMENTO, CA 95814 (916) 653-6251 Fax (916) 657-5390 Web Site www.nahc.ca.gov ds nahc@pacbell.net



December 23, 2009

Ms. Natasha Tabares, RPA, Archaeologist

#### SOUTHERN CALIFORNIA EDISON

2244 Walnut Grove Avenue Rosemead, CA 91770

Sent by U.S. Mail Service Number of pages: 3

Re: Request for a Sacred Lands File Search and Native American Contacts List for a Proposed "Devore Substation Project (IO 307041)"; located in San Bernardino County, California

Dear Ms. Tabares:

The Native American Heritage Commission (NAHC), the State of California 'Trustee Agency' for the protection and preservation of Native American cultural resources (c.f. CA Public Resources Code §21070; also c.f. *Environmental Protection Information Center v. Johnson* (1985) 170 Cal App. 3<sup>rd</sup> 604), was able to perform a record search of its Sacred Lands File (SLF) for the affected project area (APE) requested. The California Environmental Quality Act (CEQA; CA Public Resources Code Section 21000 – 21177)) requires that any project that causes a substantial adverse change in the significance of an historical resource, that includes archaeological resources, is a 'significant effect' requiring the preparation of an Environmental Impact Report (EIR) per the California Code of Regulations §15064.5(b)(c)(f) CEQA guidelines). Section 15382 of the 2007 CEQA Guidelines defines a significant impact on the environment as "a substantial, or potentially substantial, adverse change in any of physical conditions within an area affected by the proposed project, including ... objects of historic or aesthetic significance." The NAHC SLF search did not indicate the presence of Native American cultural resources within one-half - mile radius of the proposed project (APE). There are, however, Native American cultural resources in close proximity to the APE.

This letter includes state and federal statutes relating to Native American historic properties of religious and cultural significance to American Indian tribes and individuals as 'consulting parties' under both state and federal law.

Early consultation with Native American tribes in your area is the best way to avoid unanticipated discoveries once a project is underway. Enclosed are the names of the nearest tribes and interested Native American individuals that the NAHC recommends as 'consulting parties,' for this purpose, that may have knowledge of the religious and cultural significance of the historic properties in the project area (e.g. APE). We recommend that you contact persons on the attached list of Native American contacts. Furthermore we suggest that you contact the California Historic Resources Information System (CHRIS) at the Office of Historic Preservation Coordinator's office (at (916) 653-7278, for referral to the nearest Information Center of which there are 10.

Consultation with tribes and interested Native American consulting parties, on the NAHC list ,should be conducted in compliance with the requirements of federal NEPA (42 U.S.C. 4321-43351) and Section 106 and 4(f) of federal NHPA (16 U.S.C. 470 [f)]et seq), 36 CFR Part 800.3, the President's Council on Environmental Quality (CSQ; 42 U.S.C. 4371 et seq) and NAGPRA (25 U.S.C. 3001-3013), as appropriate.

Lead agencies should consider a<u>voidance</u>, as defined in Section 15370 of the California Environmental Quality Act (CEQA) when significant cultural resources could be affected by a

project. Also, Public Resources Code Section 5097.98 and Health & Safety Code Section 7050.5 provide for provisions for accidentally discovered archeological resources during construction and mandate the processes to be followed in the event of an accidental discovery of any human remains in a project location other than a 'dedicated cemetery. Discussion of these should be included in your environmental documents, as appropriate.

The response to this search for Native American cultural resources is conducted in the NAHC Sacred Lands Inventory, established by the California Legislature (CA Public Resources Code §5097.94(a) and is exempt from the CA Public Records Act (c.f. California Government Code §6254.10) although Native Americans on the attached contact list may wish to reveal the nature of identified cultural resources/historic properties. Confidentiality of "historic properties of religious and cultural significance" may also be protected the under Section 304 of the NHPA or at the Secretary of the Interior' discretion if not eligible for listing on the National Register of Historic Places. The Secretary may also be advised by the federal Indian Religious Freedom Act (cf. 42 U.S.C, 1996) in issuing a decision on whether or not to disclose items of religious and/or cultural significance identified in or near the APE and possibly threatened by proposed project activity.

If you have any questions about this response to your request, please do not hesitate to

contact me at (916) 653/6251.

Sincerely

Dave Singleton Program Analyst

Attachment: Native American Contacts List (NOTE: we further recommend that other forms of 'proof of mailing or proof of contact be utilized instead of 'Return Receipt Requested' Certified or Registered Mail.) Further, we suggest a follow-up telephone call to the contacts if the replies are not received or need clarification.

#### Native American Contacts San bernardino County December 23, 2009

Ramona Band of Cahuilla Mission Indians Joseph Hamilton, Chairman

P.O. Box 391670

Cahuilla

Fernandeño

Tataviam Serrano

Vanyume

Kitanemuk

Anza , CA 92539 admin@ramonatribe.com

(951) 763-4105 (951) 763-4325 Fax

San Manuel Band of Mission Indians James Ramos, Chairperson

26569 Community Center Drive Serrano

Highland ,

, CA 92346

(909) 864-8933 (909) 864-3724 - FAX

(909) 864-3370 Fax

San Fernando Band of Mission Indians John Valenzuela, Chairperson

P.O. Box 221838

, CA 91322

Newhall , CA tsen2u@live.com

(661) 753-9833 Office

(760) 885-0955 Cell

(760) 949-1604 Fax

Morongo Band of Mission Indians

Michael Contreras, Cultural Heritage Prog. 12700 Pumarra Road Cahuilla

Banning

rra Road Cahuilla , CA 92220 Serrano

mcontreras@monongo-nsn.

(951) 755-5025 (951)201-1866 - cell (951) 922-0105 Fax San Manuel Band of Mission Indians

Ann Brierty, Policy/Cultural Resources Departmen

26569 Community Center. Drive Serrano

Highland , CA 92346 abrierty@sanmanuel-nsn.

(909) 864-8933 EXT-3250

(909) 649-1585 - cell

(909) 862-5152 Fax

Serrano Nation of Indians

Goldie Walker

6588 Valaria Drive

Highland , CA 92346

(909) 862-9883

Ernest H. Siva

Morongo Band of Mission Indians Tribal Elder

9570 Mias Canyon Road Banning , CA 92220

Serrano Cahuilla

Serrano

Banning , CA 9 (951) 849-4676

siva@dishmail.com

This list is current only as of the date of this document.

Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resources Code and Section 5097.98 of the Public Resources Code. Also, federal National Environmental Policy Act (NEPA), National Historic Preservation Act, Section 106, and federal NAGPRA.

This list is only applicable for contacting local Native Americans with regard to cultural resources for the proposed Devore Substation Project (IO 307041); located in the Devore Area of San Bernardino County, California for which a Sacred Lands File and Native American Contacts list were requested.

# Appendix G FIELD MANAGEMENT PLAN FOR FALCON RIDGE SUBSTATION PROJECT

#### TABLE OF CONTENTS

I.	Executive Summary	1
II.	Background Regarding EMF and Public Health Research on EMF	7
III.	Application of the CPUC's "No-Cost and Low-Cost" EMF Policy to This Project	10
IV.	Project Description	14
V.	Evaluation of "No-Cost and Low-Cost" Magnetic Field Reduction Design Options	20
VI.	Final Recommendations for Implementing "No-Cost and Low-Cost"  Magnetic Field Reduction Design Options	44
VII.	Appendix A: Two-dimentional Model Assumptions and Year 2014 Forecasted Loading Conditions	48

#### LIST OF TABLES

Table 1.	Summary of "No-cost and Low-cost" Magnetic Field Reduction Design Options	4
Table 2.	Calculated Magnetic Field Levels for Segment 1	. 25
Table 3.	Calculated Magnetic Field Levels for Segment 2.	. 28
Table 4.	Calculated Magnetic Field Levels for Segment 3	. 32
Table 5.	Calculated Magnetic Field Levels for Segment 4.	. 35
Table 6.	Calculated Magnetic Field Levels for Segment 5.	. 39
Table 7.	Calculated Magnetic Field Levels for Alder Source Line	. 43
Table 8.	Substation Checklist for Examining No-cost and Low-cost Magnetic Field Reduction	1
Des	ign Options	. 44
Table 9.	Year 2014 Forecasted Loading Conditions for Proposed 66 kV	
Sub	transmission Lines	. 49
Table 10	. Existing Lugo – Mira Loma No. 2 and No. 3 T/L Loads	. 49

#### LIST OF FIGURES

Figure 1. Falcon Ridge Substation Project Area Map
Figure 2. Source Lines Segments for Magnetic Field Analysis
Figure 3. Proposed Etiwanda – Falcon Ridge 66 kV Single-Circuit - Segment 1 and Existing
Lugo-Mira Loma No.2 and No.3 Double-Circuit 500 kV T/Ls
Figure 4. Calculated Magnetic Field Levels for Segment 1 Proposed Etiwanda – Falcon Ridge
66 kV Line and Existing Lugo-Mira Loma No. 2 and No. 3 500 kV T/Ls
Figure 5. Proposed Etiwanda – Falcon Ridge 66 kV Single-Circuit - Segment 2 and Existing
Lugo-Mira Loma No. 2 and No. 3 Double-Circuit 500 kV T/Ls
Figure 6. Calculated Magnetic Field Levels for Segment 2 Proposed Etiwanda – Falcon Ridge
66 kV Line and Existing Lugo-Mira Loma No. 2 and No. 3 500 kV T/Ls
Figure 7. Proposed Etiwanda – Falcon Ridge 66 kV Single-Circuit - Segment 3 and Existing
<u>Lugo-Mira Loma No. 3 Single-Circuit 500 kV T/Ls</u>
Figure 8. Calculated Magnetic Field Levels for Segment 3 Proposed Etiwanda – Falcon Ridge
66 kV Line and Existing Lugo-Mira Loma No. 3 500 kV T/Ls
Figure 9. Proposed Etiwanda – Falcon Ridge 66 kV Single-Circuit - Segment 4 and Existing
Lugo-Mira Loma No. 3 Single-Circuit 500 kV T/Ls
Figure 10. Calculated Magnetic Field Levels for Segment 4 Proposed Etiwanda – Falcon Ridge
66 kV Line and Existing Lugo-Mira Loma No. 3 500 kV T/Ls
<u>Figure 11. Proposed Etiwanda – Falcon Ridge 66 kV Single-Circuit - Segment 5</u>
Figure 12. Calculated Magnetic Field Levels for Segment 5 Proposed Etiwanda – Falcon Ridge
<u>66 kV Line</u>
<u>Figure 13. Proposed Alder – Falcon Ridge 66 kV Single-Circuit</u> 41
Figure 14. Calculated Magnetic Field Levels for Proposed Alder – Falcon Ridge 66 kV Line 42

#### **List of Terms**

CDHS	California Department of Health Services					
C/L	center line					
CPCN	Certificate of Public Convenience and Necessity					
CPUC	California Public Utilities Commission					
ELF	Extremely Low Frequency					
EMF	electric and magnetic fields					
FMP	field management plan					
GO	General Order					
IARC	International Agency for Research on Cancer					
kV	kilovolt					
LWS	light weight steel					
mG	milliGauss					
MVA	megavolt-ampere					
MW	megawatt					
NIEHS	National Institute of Environmental Health Sciences					
NRPB	National Radiation Protection Board					
PEA	Proponents Environmental Assessment					
RAPID	Research and Public Information Dissemination					
ROW	right-of-way					
SCE	Southern California Edison Company					
T/L	transmission line					
TSP	tubular steel pole					
WHO	World Health Organization					

#### I. EXECUTIVE SUMMARY

This document is Southern California Edison Company's (SCE) Field Management Plan (FMP) for the proposed Falcon Ridge Substation Project (Proposed Project). SCE proposes to construct the Falcon Ridge Substation Project (Proposed Project) to meet forecasted electrical demands in the cities of Rancho Cucamonga, Fontana, Rialto, and the surrounding areas of unincorporated San Bernardino County. The Proposed Project would include the following components:

- Construction of a new 66/12 kilovolt (kV) distribution substation (Falcon Ridge Substation). Falcon Ridge Substation would be an unattended, automated, 56 mega-volt ampere (MVA), 66/12 kV low-profile substation.
- Installation of two new 66 kV subtransmission source lines to connect the proposed Falcon Ridge Substation to the existing Etiwanda 220/66 kV Substation (Etiwanda Substation) and Alder 66/12 kV Substation (Alder Substation).
  - One new 66 kV subtransmission source line from the existing Alder Substation would be approximately 3 miles in length and connect to the proposed Falcon Ridge Substation.
    - In order to accommodate the connection of the subtransmission source line, a 66 kV switchrack position at Alder Substation would need to be equipped and the operating and transfer buses would need to be extended.

For the purpose of EMF evaluation, this minor substation modification will not be evaluated in this FMP.

- One new 66 kV subtransmission source line from the existing Etiwanda Substation would be approximately 9 miles in length and connect to the proposed Falcon Ridge Substation.
  - In order to accommodate the connection of the subtransmission source line, a 66 kV switchrack position at Etiwanda Substation would need to be equipped. For the purpose of EMF evaluation, this minor substation modification will not be evaluated in this FMP.
- Construction of three new underground 12 kV distribution getaways

SCE provides this FMP in order to inform the public, the California Public Utilities

Commission (CPUC), and other interested parties of its evaluation of "no-cost and low-cost"

magnetic field reduction design options for this project, and SCE's proposed plan to apply these
design options to this project. This FMP has been prepared in accordance with CPUC Decision

No. 93-11-013 and Decision No. 06-01-042 relating to extremely low frequency (ELF)<sup>5</sup> electric

and magnetic fields (EMF). This FMP also provides background on the current status of
scientific research related to possible health effects of EMF, and a description of the CPUC's

EMF policy.

\_

<sup>5</sup> The extremely low frequency is defined as the frequency range from 3 Hz to 3,000 Hz.

The "no-cost and low-cost" magnetic field reduction design options that are incorporated into the design of the Proposed Project are as follows:

- Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria
- Utilizing subtransmission line construction that reduces the space between conductors compared with other designs
- Arranging conductors of proposed subtransmission line for magnetic field reduction
- Site selection of the substation site
- Placing major substation electrical equipment (such as transformers, switchracks, buses and underground duct banks) away from the substation property lines
- Configuring the transfer and operating buses with the transfer bus closest to the nearest property line

Table 1 summarizes "no-cost and low-cost" magnetic field reduction design options that SCE considered for the Proposed Project.

SCE's plan for applying the above "no-cost and low-cost" magnetic field reduction design options for the Proposed Project is consistent with CPUC's EMF policy and with the direction of leading national and international health agencies. Furthermore, the plan complies with SCE's EMF Design Guidelines<sup>6</sup>, and with applicable national and state safety standards for new electrical facilities.

3

<sup>6</sup> EMF Design Guidelines, August 2006. €

Table 1. Summary of "No-cost and Low-cost" Magnetic Field Reduction Design Options

Area No.	Location <sup>7</sup>	Adjacent Land Use <sup>8</sup>	MF Reduction Design Options Considered	Estimated Cost to Adopt	Design Option(s) Adopted? (Yes/No)	Reason(s) if not adopted
Falcon Ridge Substation	Located within a SCE owned parcel east of Sierra Avenue and approximately 1,500 feet north of Summit Avenue in Fontana, California	3,6	<ul> <li>Placing major substation electrical equipment (such as transformers, switchracks, buses and underground duct banks) away from the substation property lines</li> <li>Configuring the transfer and operating buses with the transfer bus closest to the nearest property line</li> </ul>	<ul><li>No-Cost</li><li>No-Cost</li></ul>	<ul><li>Yes</li><li>Yes</li></ul>	
66 kV Etiwanda Source Line Segment 1	Overhead 66 kV lines from across the street of Etiwanda Substation extending along the SCE 500 kV ROW to the intersection of South Highland Ave	1,2,3,4,6	Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria      Utilizing subtransmission line construction that reduces the space between conductors compared with other designs      Arranging conductors of proposed	<ul> <li>No-Cost</li> <li>No-Cost</li> <li>Low-Cost</li> </ul>	<ul><li>Yes</li><li>Yes</li><li>Yes</li></ul>	

 $<sup>\</sup>frac{7}{2}$  This column shows the major cross streets, existing subtransmission lines, or substation name as reference points.

Land usage codes are as follows: 1) schools, licensed day-cares, and hospitals, 2) residential, 3) commercial/industrial, 4) recreational, 5) agricultural, and 6) undeveloped land.

 $<sup>\</sup>frac{9}{2}$  Included in the preliminary design

Area No.	Location <sup>7</sup>	Adjacent Land Use <sup>8</sup>	MF Reduction Design Options Considered	Estimated Cost to Adopt	Design Option(s) Adopted? (Yes/No)	Reason(s) if not adopted
			field reduction			
66 kV Etiwanda Source Line Segment 2	Overhead 66 kV lines from the intersection of San Sevaine Road and SCE ROW extending along the ROW to 0.25 mile north of the intersection of Summit Ave	2,4,5,6	<ul> <li>Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria</li> <li>Utilizing subtransmission line construction that reduces the space between conductors compared with other designs</li> </ul>	<ul> <li>No-Cost<sup>10</sup></li> <li>No-Cost</li> </ul>	<ul><li>Yes</li><li>Yes</li></ul>	
			Arranging conductors of proposed subtransmission line for magnetic field reduction	• Low-Cost	• Yes	
66 kV Etiwanda Source Line Segment 3	Overhead 66 kV lines from 0.25 miles north of intersection of SCE ROW and Summit Avenue to the intersection of SCE	2,6	<ul> <li>Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria</li> <li>Arranging conductors of proposed subtransmission line for magnetic</li> </ul>	<ul><li>No-Cost</li><li>Low-Cost</li></ul>	<ul><li>Yes</li><li>Yes</li></ul>	
	ROW and Citrus Ave		field reduction			
66 kV Etiwanda Source Line Segment 4	Overhead 66 kV lines from SCE ROW and Citrus Avenue to the proposed Falcon Ridge Substation east of Sierra	2,6	Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria	No-Cost	• Yes	
	Ave		Arranging conductors of proposed subtransmission line for magnetic field reduction	Low-Cost	• Yes	
66 kV Etiwanda	Overhead 66 kV lines between segment 1 and	2,5,6	Utilizing subtransmission structure heights that meet or exceed SCE's	• No-Cost <sup>11</sup>	• Yes	

 $<sup>\</sup>frac{10}{11}$  Included in the preliminary design Included in the preliminary design

Area No.	Location <sup>7</sup>	Adjacent Land Use <sup>8</sup>	MF Reduction Design Options Considered	Estimated Cost to Adopt	Design Option(s) Adopted? (Yes/No)	Reason(s) if not adopted
Source Line Segment 5	3, from SCE 500 kV ROW to the intersection of South Highland Avenue going east on South Highland Avenue and divert from the ROW, and going north on San Sevaine Road and joining up the SCE ROW		Arranging conductors of proposed subtransmission line for magnetic field reduction	• Low-Cost	• Yes	
66 kV Alder Source Line	Overhead 66 kV lines from Alder Substation which is located on the southeast corner of State Route 210 and Locust Avenue. The route follows Locust Avenue going north to the north of West Casmalia Street. It will then extend westward along West Casmalia until it intersects with Mango Avenue. At the intersection of West Casmalia Street and Mango Avenue, the 66 kV subtransmission facilities would then extend north along the future extension of Mango Avenue until it reaches the proposed substation site.	3,6	Utilizing subtransmission structure heights that meet or exceed SCE's preferred EMF design criteria	• No-Cost	• Yes	

### II. BACKGROUND REGARDING EMF AND PUBLIC HEALTH RESEARCH ON EMF

There are many sources of power frequency<sup>12</sup> electric and magnetic fields, including internal household and building wiring, electrical appliances, and electric power transmission and distribution lines. There have been numerous scientific studies about the potential health effects of EMF. After many years of research, the scientific community has been unable to determine if exposures to EMF cause health hazards. State and federal public health regulatory agencies have determined that setting numeric exposure limits is not appropriate.<sup>13</sup>

Many of the questions about possible connections between EMF exposures and specific diseases have been successfully resolved due to an aggressive international research program. However, potentially important public health questions remain about whether there is a link between EMF exposures and certain diseases, including childhood leukemia and a variety of adult diseases (e.g., adult cancers and miscarriages). As a result, some health authorities have identified magnetic field exposures as a possible human carcinogen. As summarized in greater detail below, these conclusions are consistent with the following published reports: the National Institute of Environmental Health Sciences (NIEHS) 1999<sup>14</sup>, the National Radiation Protection Board (NRPB) 2001<sup>15</sup>, the International Commission on non-Ionizing Radiation Protection (ICNIRP) 2001, the California Department of Health Services (CDHS) 2002<sup>16</sup>, and the International Agency for Research on Cancer (IARC) 2002<sup>17</sup> and the World Health Organization (WHO) 2007<sup>18</sup>.

-

<sup>12</sup> In U.S., it is 60 Hertz (Hz).

<sup>13</sup> CPUC Decision 06-01-042, p. 6, footnote 10

National Institute of Environmental Health Sciences' Report on Health Effects from Exposures to Power-Line frequency Electric and Magnetic Fields, NIH Publication No. 99-4493, June 1999.

National Radiological Protection Board, <u>Electromagnetic Fields and the Risk of Cancer</u>, <u>Report of an Advisory</u> Group on Non-ionizing Radiation, Chilton, U.K. 2001

California Department of Health Services, <u>An Evaluation of the Possible Risks from Electric and Magnetic Fields from Power Lines, Internal Wiring, Electrical Occupations, and Appliances, June 2002.</u>

World Health Organization / International Agency for Research on Cancer, IARC Monographs on the evaluation of carcinogenic risks to humans (2002), Non-ionizing radiation, Part 1: Static and extremely low-Continued on the next page

The federal government conducted EMF research as a part of a \$45-million research program managed by the NIEHS. This program, known as the EMF RAPID (Research and Public Information Dissemination), submitted its final report to the U.S. Congress on June 15, 1999. The report concluded that:

- "The scientific evidence suggesting that ELF-EMF exposures pose any health risk is weak." 19
- "The NIEHS concludes that ELF-EMF exposure cannot be recognized as entirely safe because of weak scientific evidence that exposure may pose a leukemia hazard." 20
- "The NIEHS suggests that the level and strength of evidence supporting ELF-EMF exposure as a human health hazard are insufficient to warrant aggressive regulatory actions; thus, we do not recommend actions such as stringent standards on electric appliances and a national program to bury all transmission and distribution lines. Instead, the evidence suggests passive measures such as a continued emphasis on educating both the public and the regulated community on means aimed at reducing exposures. NIEHS suggests that the power industry continue its current practice of siting power lines to reduce exposures and continue to explore ways to reduce the creation of magnetic fields around transmission and distribution lines without creating new hazards."21

In 2001, Britain's NRPB arrived at a similar conclusion:

"After a wide-ranging and thorough review of scientific research, an independent Advisory Group to the Board of NRPB has concluded that the power frequency electromagnetic fields that exist in the vast majority of homes are not a cause of cancer in general. However, some epidemiological studies do indicate a possible small risk of childhood leukemia associated with exposures to unusually high levels of power frequency magnetic fields." 22

Continued from the previous page

<sup>&</sup>lt;u>frequency (ELF) electric and magnetic fields</u>, IARCPress, Lyon, France: International Agency for Research on Cancer, Monograph, vol. 80, p. 338, 2002

<sup>18</sup> WHO, Environmental Health Criteria 238, EXTREMELY LOW FREQUENCY FIELDS.

National Institute of Environmental Health Sciences, <u>NIEHS Report on Health Effects from Exposures to Power-Frequency Electric and Magnetic Fields</u>, p. ii, NIH Publication No. 99-4493, 1999

<sup>20</sup> *ibid.*, p. iii

 $<sup>\</sup>frac{21}{}$  *ibid.*, p. 37 - 38

NRPB, NRPB Advisory Group on Non-ionizing Radiation Power Frequency Electromagnetic Fields and the Risk of Cancer, NRPB Press Release May 2001

In 2002, three scientists for CDHS concluded:

"To one degree or another, all three of the [C]DHS scientists are inclined to believe that EMFs can cause some degree of increased risk of childhood leukemia, adult brain cancer, Lou Gehrig's Disease, and miscarriage.

They [CDHS] strongly believe that EMFs do not increase the risk of birth defects, or low birth weight.

They [CDHS] strongly believe that EMFs are not universal carcinogens, since there are a number of cancer types that are not associated with EMF exposure.

To one degree or another they [CDHS] are inclined to believe that EMFs do not cause an increased risk of breast cancer, heart disease, Alzheimer's disease, depression, or symptoms attributed by some to a sensitivity to EMFs. However, all three scientists had judgments that were "close to the dividing line between believing and not believing" that EMFs cause some degree of increased risk of suicide, or

For adult leukemia, two of the scientists are 'close to the dividing line between believing or not believing' and one was 'prone to believe' that EMFs cause some degree of increased risk."23

Also in 2002, the World Health Organization's (WHO) IARC concluded:

"ELF magnetic fields are possibly carcinogenic to humans" 24, based on consistent statistical associations of high-level residential magnetic fields with a doubling of risk of childhood leukemia... Children who are exposed to residential ELF magnetic fields less than 0.4 microTesla (4.0 milliGauss) have no increased risk for leukemia.... In contrast, "no consistent relationship has been seen in studies of childhood brain tumors or cancers at other sites and residential ELF electric and magnetic fields." 25

In June of 2007, the WHO issued a report on their multi-year investigation of EMF and the possible health effects. After reviewing scientific data from numerous EMF and human health studies, they concluded:

"Scientific evidence suggesting that everyday, chronic low-intensity (above  $0.3\text{-}0.4~\mu T$  [3-4 mG]) power-frequency magnetic field exposure poses a health risk is based on epidemiological

<sup>23</sup> CDHS, An Evaluation of the Possible Risks From Electric and Magnetic Fields (EMFs) From Power Lines, Internal Wiring, Electrical Occupations and Appliances, p. 3, 2002

<sup>24</sup> IARC, Monographs, Part I, Vol. 80, p. 338

<sup>25</sup> *ibid.*, p. 332 - 334

studies demonstrating a consistent pattern of increased risk for childhood leukemia."26

"In addition, virtually all of the laboratory evidence and the mechanistic evidence fail to support a relationship between low-level ELF magnetic fields and changes in biological function or disease status. Thus, on balance, the evidence is not strong enough to be considered causal, but sufficiently strong to remain a concern."<sup>27</sup>

"A number of other diseases have been investigated for possible association with ELF magnetic field exposure. These include cancers in both children and adults, depression, suicide, reproductive dysfunction, developmental disorders, immunological modifications and neurological disease. The scientific evidence supporting a linkage between ELF magnetic fields and any of these diseases is much weaker than for childhood leukemia and in some cases (for example, for cardiovascular disease or breast cancer) the evidence is sufficient to give confidence that magnetic fields do not cause the disease"28

"Furthermore, given both the weakness of the evidence for a link between exposure to ELF magnetic fields and childhood leukemia, and the limited impact on public health if there is a link, the benefits of exposure reduction on health are unclear. Thus the costs of precautionary measures should be very low." 29

### III. APPLICATION OF THE CPUC'S "NO-COST AND LOW-COST" EMF POLICY TO THIS PROJECT

Recognizing the scientific uncertainty over the connection between EMF exposures and health effects, the CPUC adopted a policy that addresses public concern over EMF with a combination of education, information, and precaution-based approaches. Specifically, Decision 93-11-013 established a precautionary based "no-cost and low-cost" EMF policy for California's regulated electric utilities based on recognition that scientific research had not demonstrated that

28 *ibid.*, p. 12

10

<sup>26</sup> WHO, Environmental Health Criteria 238, EXTREMELY LOW FREQUENCY FIELDS, p. 11 - 13, 2007

<sup>27</sup> *ibid.*, p. 12

<sup>29</sup> *ibid.*, p. 13

exposures to EMF cause health hazards and that it was inappropriate to set numeric standards that would limit exposure.

In 2006, the CPUC completed its review and update of its EMF Policy in Decision 06-01-042. This decision reaffirmed the finding that state and federal public health regulatory agencies have not established a direct link between exposure to EMF and human health effects, 30 and the policy direction that (1) use of numeric exposure limits was not appropriate in setting utility design guidelines to address EMF, 31 and (2) existing "no-cost and low-cost" precautionary-based EMF policy should be continued for proposed electrical facilities. The decision also reaffirmed that EMF concerns brought up during Certificate of Public Convenience and Necessity (CPCN) and Permit to Construct (PTC) proceedings for electric and transmission and substation facilities should be limited to the utility's compliance with the CPUC's "no-cost and low-cost" policies. 32

The decision directed regulated utilities to hold a workshop to develop standard approaches for EMF Design Guidelines and such a workshop was held on February 21, 2006. Consistent design guidelines have been developed that describe the routine magnetic field reduction measures that regulated California electric utilities consider for new and upgraded transmission line and transmission substation projects. SCE filed its revised EMF Design Guidelines with the CPUC on July 26, 2006.

"No-cost and low-cost" measures to reduce magnetic fields would be implemented for this project in accordance with SCE's EMF Design Guidelines. In summary, the process of

including a study ordered by this Commission and conducted by DHS.").

<sup>20</sup> CPUC Decision 06-01-042, Conclusion of Law No. 5, mimeo. p. 19 ("As discussed in the rulemaking, a direct link between exposure to EMF and human health effects has yet to be proven despite numerous studies

<sup>31</sup> CPUC Decision 06-01-042, mimeo. p. 17 - 18 ("Furthermore, we do not request that utilities include non-routine mitigation measures, or other mitigation measures that are based on numeric values of EMF exposure, in revised design guidelines or apply mitigation measures to reconfigurations or relocations of less than 2,000 feet, the distance under which exemptions apply under GO 131-D. Non-routine mitigation measures should only be considered under unique circumstances.").

<sup>22</sup> CPUC Decision 06-01-042, Conclusion of Law No. 2, ("EMF concerns in future CPCN and PTC proceedings for electric and transmission and substation facilities should be limited to the utility's compliance with the Commission's low-cost/no-cost policies.").

evaluating "no-cost and low-cost" magnetic field reduction measures and prioritizing within and between land usage classes considers the following:

- 1. SCE's priority in the design of any electrical facility is public and employee safety. Without exception, design and construction of an electric power system must comply with all applicable federal, state, and local regulations, applicable safety codes, and each electric utility's construction standards. Furthermore, transmission and subtransmission lines and substations must be constructed so that they can operate reliably at their design capacity. Their design must be compatible with other facilities in the area and the cost to operate and maintain the facilities must be reasonable.
- 2. As a supplement to Step 1, SCE follows the CPUC's direction to undertake "no-cost and low-cost" magnetic field reduction measures for new and upgraded electrical facilities. Any proposed "no-cost and low-cost" magnetic field measures, must, however, meet the requirements described in Step 1 above. The CPUC defines "no-cost and low-cost" measures as follows:
  - Low-cost measures, in aggregate, should:
    - o Cost in the range of 4 percent of the total project cost.
    - Result in magnetic field reductions of "15% or greater at the utility ROW [right-of-way]..."33

The CPUC Decision stated.

"We direct the utilities to use 4 percent as a benchmark in developing their EMF mitigation guidelines. We will not establish 4 percent as an absolute cap at this time because we do not want to arbitrarily eliminate a potential measure that might be available but costs

-

<sup>33</sup> CPUC Decision 06-01-042, p. 10

more than the 4 percent figure. Conversely, the utilities are encouraged to use effective measures that cost less than 4 percent."34

3. The CPUC provided further policy direction in Decision 06-01-042, stating that, "[a]lthough equal mitigation for an entire class is a desirable goal, we will not limit the spending of EMF mitigation to zero on the basis that not all class members can benefit."35 While Decision 06-01-042 directs the utilities to favor schools, day-care facilities and hospitals over residential areas when applying low-cost magnetic field reduction measures, prioritization within a class can be difficult on a project case-by-case basis because schools, day-care facilities, and hospitals are often integrated into residential areas, and many licensed day-care facilities are housed in private homes, and can be easily moved from one location to another. Therefore, it may be practical for public schools, licensed day-care centers, hospitals, and residential land uses to be grouped together to receive highest prioritization for low-cost magnetic field reduction measures. Commercial and industrial areas may be grouped as a second priority group, followed by recreational and agricultural areas as the third group. Low-cost magnetic field reduction measures will not be considered for undeveloped land, such as open space, state and national parks, and Bureau of Land Management and U.S. Forest Service lands. When spending for low-cost measures would otherwise disallow equitable magnetic field reduction for all areas within a single land-use class, prioritization can be achieved by considering location and/or density of permanently occupied structures on lands adjacent to the projects, as appropriate.

<sup>34</sup> CPUC Decision 93-11-013, § 3.3.2, p.10.

<sup>35</sup> CPUC Decision 06-01-042, p. 10

This FMP contains descriptions of various magnetic field models and the calculated results of magnetic field levels based on those models. These calculated results are provided only for purposes of identifying the relative differences in magnetic field levels among various transmission or subtransmission line design alternatives under a specific set of modeling assumptions and determining whether particular design alternatives can achieve magnetic field level reductions of 15 percent or more. The calculated results are not intended to be predictors of the actual magnetic field levels at any given time or at any specific location if and when the project is constructed. This is because magnetic field levels depend upon a variety of variables, including load growth, customer electricity usage, and other factors beyond SCE's control. The CPUC affirmed this in D. 06-01-042 stating:

"Our [CPUC] review of the modeling methodology provided in the utility [EMF] design guidelines indicates that it accomplishes its purpose, which is to measure the relative differences between alternative mitigation measures. Thus, the modeling indicates relative differences in magnetic field reductions between different transmission line construction methods, but does not measure actual environmental magnetic fields." 36

#### IV. PROJECT DESCRIPTION

Southern California Edison Company (SCE) proposes to construct the Falcon Ridge
Substation Project (Proposed Project) to meet forecasted electrical demands in the cities of
Rancho Cucamonga, Fontana, Rialto, and the surrounding areas of unincorporated San
Bernardino County. Figure 1 shows the proposed substation site, two source line substations, as
well as the preferred and alternate source line routes.

-

14

<sup>36</sup> CPUC Decision 06-01-042, p. 11

The Proposed Project would include the following major electrical components:

- Construction of a new 66/12 kilovolt (kV) distribution substation (Falcon Ridge Substation). Falcon Ridge Substation would be an unattended, automated, 56 mega-volt ampere (MVA), 66/12 kV low-profile substation.
- Installation of two new 66 kV subtransmission source lines to connect the proposed Falcon Ridge Substation to the existing Etiwanda 220/66 kV Substation (Etiwanda Substation) and Alder 66/12 kV Substation (Alder Substation).
  - One new 66 kV subtransmission source line from the existing Alder Substation would be approximately 3 miles in length and connect to the proposed Falcon Ridge Substation.
    - In order to accommodate the connection of the subtransmission source line, a 66 kV switchrack position at Alder Substation would need to be equipped and the operating and transfer buses would need to be extended. For the purpose of EMF evaluation, this minor substation modification will not be evaluated in this FMP.
  - One new 66 kV subtransmission source line from the existing Etiwanda
     Substation would be approximately 9 miles in length and connect to the proposed
     Falcon Ridge Substation.
    - In order to accommodate the connection of the subtransmission source line, a 66 kV switchrack position at Etiwanda Substation would need to be

equipped. For the purpose of EMF evaluation, this minor substation modification will not be evaluated in this FMP.

Construction of three new underground 12 kV distribution getaways

#### Etiwanda-Falcon Ridge 66 kV Subtransmission Line

The Etiwanda Subtransmission Source Line Route would connect to the existing Etiwanda Substation which is located south of Foothill Boulevard and west of Etiwanda Avenue. The new 66 kV subtransmission facilities would exit Etiwanda Substation underground for approximately 1,300 feet in a new duct bank to the east side of Etiwanda Avenue where the subtransmission line would rise to an overhead position via a TSP riser pole. The 66 kV subtransmission facilities would then extend northeast within SCE's existing transmission ROW until it intersects with South Highland Avenue where it would be placed underground for approximately 300 feet to maintain required electrical clearances with the existing 500 kV transmission line. The subtransmission line would rise to an overhead position where SCE's existing transmission ROW intersects South Highland Avenue and would divert from SCE's existing transmission ROW and extend east parallel to South Highland Avenue to the intersection of South Highland Avenue and San Sevaine Road. The subtransmission line would then extend north paralleling San Sevaine Road spanning the 210 Freeway at right angles until San Sevaine Road intersects with SCE's existing transmission ROW. The total length of subtransmission routing off of the existing corridor would be approximately 0.75 miles. The 66 kV subtransmission facilities would then again extend northeast within SCE's existing transmission ROW, until it intersects with Summit Avenue. The 66 kV subtransmission

facilities would then extend east on SCE's existing transmission ROW until it reaches the proposed substation site. New access roads would be required to construct and maintain the subtransmission facilities. The Etiwanda Subtransmission Source Line Route would be approximately 9 miles long.

In order to accommodate the new 66 kV subtransmission facilities for the Etiwanda Subtransmission Source Line Route, four interset poles would be required at locations where the proposed Etiwanda Subtransmission Source Line Route crosses the Etiwanda-Alder-Randall, Etiwanda-Randall, and the Etiwanda-Declez #1 66 kV subtransmission lines. Additionally, three existing wood poles located within existing ROW between Foothill Boulevard and Baseline Avenue would be replaced with TSPs. There is the potential for re-framing pole-heads along portions of this route.

## Alder-Falcon Ridge 66 kV Subtransmission Line

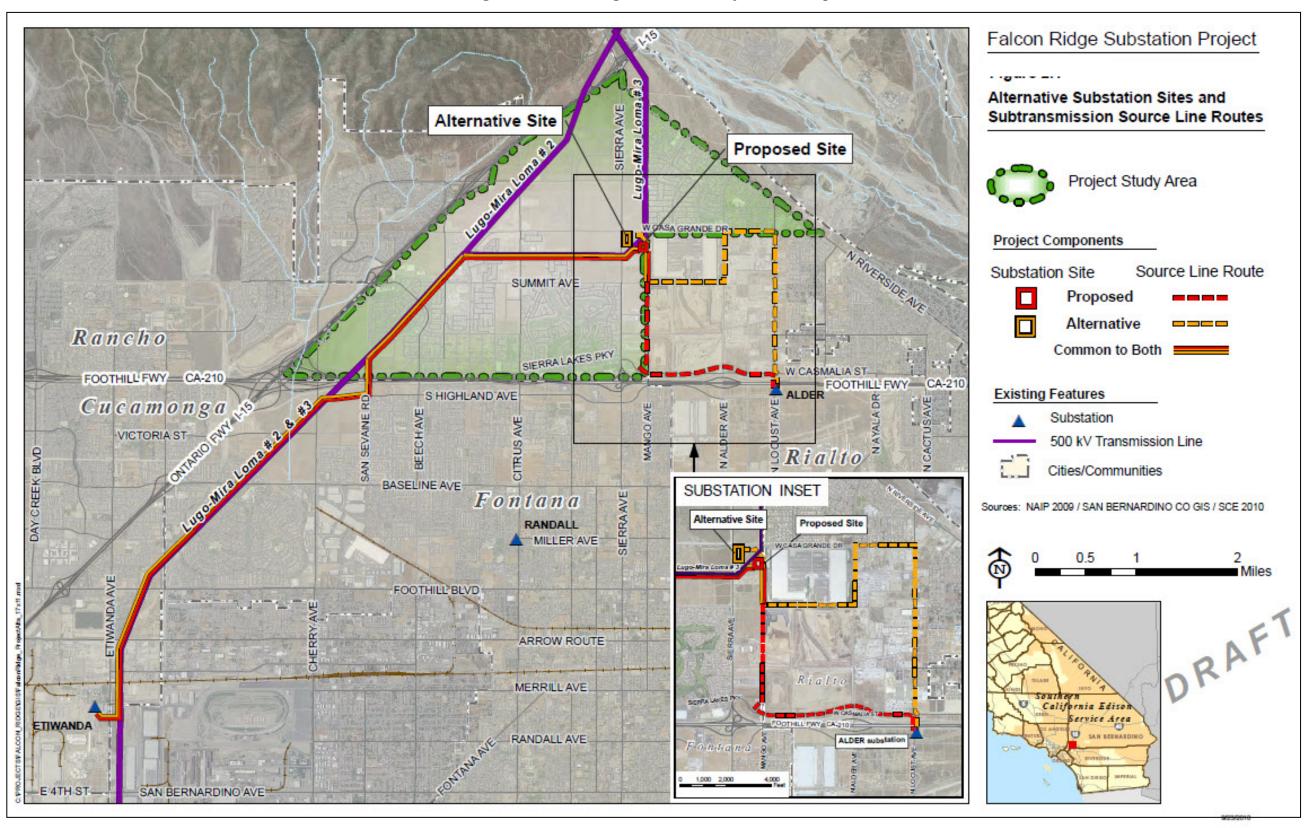
The Alder Subtransmission Source Line Route would connect to the existing Alder Substation which is located south of the 210 Freeway and east of Locust Avenue. The new 66 kV subtransmission facilities would leave Alder Substation on existing structures (Etiwanda-Alder-Randall 66 kV Subtransmission Line) to the west for approximately 600 feet and would include removing one LWS pole, replacing it with one new TSP and re-framing pole-heads to accommodate the second circuit. The new 66 kV subtransmission facilities would then extend north on three new TSPs spanning the 210 Freeway and paralleling Locust Avenue until it intersects with West Casmalia Street. At the intersection of Locust Avenue and West Casmalia Street, one existing pole would be removed and existing distribution, telecom facilities and other joint pole users would be placed underground to the north side of West Casmalia Street. The 66

kV subtransmission facilities would then extend west on new structures along West Casmalia Street until it intersects with Mango Avenue. At the intersection of West Casmalia Street and Mango Avenue, the 66 kV subtransmission facilities would then extend north on new structures along the future extension of Mango Avenue until it reaches the proposed substation Site. New access roads would be required to construct and maintain the subtransmission facilities, see Section 3.2.3.2 Access Roads for additional information. The Alder Source Line Route would be approximately 3 miles in length.

## **Falcon Ridge Substation**

The Falcon Ridge Substation would be a new 66/12 kV unattended, automated, 56 MVA low-profile substation capable of an ultimate buildout of 112 MVA. The substation would encompass approximately 2.7 acres of an approximately 7.5-acre parcel located in the City of Fontana. SCE's remaining acreage within the proposed site may be considered for future street improvements and widening, street setbacks, safety buffers, and landscaping if needed. The dimensions of the substation would be approximately 370 feet by 337 feet. The property is triangular in shape and the property boundaries are approximately 800 feet by 800 feet by 1130 feet.

Figure 1. Falcon Ridge Substation Project Area Map



# V. EVALUATION OF "NO-COST AND LOW-COST" MAGNETIC FIELD REDUCTION DESIGN OPTIONS

Please note that following magnetic field models and the calculated results of magnetic field levels are intended only for purposes of identifying the relative differences in magnetic field levels among various subtransmission line and subtransmission line design alternatives under a specific set of modeling assumptions (see §VII-Appendix A for more detailed information about the calculation assumptions and loading conditions) and determining whether particular design alternatives can achieve magnetic field level reductions of 15 percent or more. The calculated results are not intended to be predictors of the actual magnetic field levels at any given time or at any specific location when the Proposed Project is constructed.

For the purpose of evaluating "no-cost and low-cost" magnetic field reduction design options, the Proposed Project is divided into three parts:

- Part 1: Proposed Etiwanda–Falcon Ridge and Alder–Falcon Ridge 66 kV Subtransmission
   Lines
- Part 2: Proposed Falcon Ridge 66/12 kV Substation
- Part 3: Project Alternatives

# Part 1: Proposed Etiwanda-Falcon Ridge and Alder-Falcon Ridge 66 kV Subtransmission Lines

Figure 2 shows the Etiwanda Source Line which is broken down into five segments for magnetic field reduction analysis, as well as the Alder Source Line.

Falcon Ridge Substation Project **Subtransmission Source Line** County of San Bernardino **Route Description Project Components** ■ Source Line Route (Etiwanda Sub) SEGMENT 3 SEGMENT 4 ■ Source Line Route (Alder Sub) Proposed FALCON RIDGE Substation Substation Site Preferred SEGMENT: ALDER SOURCE **Existing Features** ▲ Substations Transmission Lines 500 kV Transmission Line 230 kV Subtransmission Line Cities/Communities HIGHLAND Imagery Source: NASA I3\_Imagery\_Prime\_World\_2D **ALDER Substation** Rancho Cucamonga City of City of Rialto ontana SEGMENT 5 ETIWANDA RANDALL LOS ANGELES FOOTHILL SEGMENT 1 ORANGE RIVERSIDE Project # MC090312339 County of Created for: A. McAulay Created by: J. Schaefle 02/16/2009 Southern California Edison (SCE) has no indication or reason to believe that there are any inaccuracies or defects with information incorporated in this work and make no representations of any kind, including, but not limited to, the warranties of merchantability or fitness for a particular use, nor are any such warranties to be implied, with respect to the information or data, furnished herein. No part of this map may be reproduced or transmitted in any form or by any means, electronic or mechanical, including photocopying and recording system, except as expressly permitted in writing by SCE. **ETIWANDA Substation** SAN BERNARDINO SOUTHERN CALIFORNIA **EDISON**° An EDISON INTERNATIONAL® Company

Figure 2. Source Lines Segments for Magnetic Field Analysis

# Segment 1 - Etiwanda Source Line (Etiwanda – Falcon Ridge 66 kV)

Figure 3 shows the typical design of the Etiwanda 66 kV source line Segment 1 and the existing Lugo-Mira Loma No. 2 and No. 3 double-circuit 500 kV T/Ls. The Segment 1 will be constructed mostly on single-circuit structures on the west side of the 500 kV T/Ls. Based on preliminary designs, the LWS poles would be at least 75 feet in height (65 feet above ground), and TSPs would range between 70 to 100 feet in height. The structures will mostly be located within SCE 500 kV ROW. Currently there is a licensed day care center approximately 50 feet from the west edge (left ROW in Figure 4) of the SCE ROW on the corner of South Heritage Circle and West Liberty Parkway in Fontana. There are residential areas, commercial/industrial, and recreational areas along the Segment 1.

**No-Cost Field Reduction Measures:** The proposed design for Segment 1 includes the following no-cost field reduction measure:

- 1. Utilizing structure heights that meet or exceed SCE's EMF preferred design criteria.
- 2. Utilizing subtransmission line construction that reduces the space between conductors compared with other designs

Figure 3. Proposed Etiwanda – Falcon Ridge 66 kV Single-Circuit - Segment 1 and Existing Lugo-Mira Loma No.2 and No.3 Double-Circuit 500 kV T/Ls (Looking North-East) Existing Lugo-Mira Loma No. 2 and No. 3 500 kV T/LsProposed Etiwanda -Falcon Ridge 66 kV Subtransmission Lines 

**Low-Cost Field Reduction Options:** Because there is a day care center and some residential areas near the west edge of SCE ROW where the proposed 66 kV line will be, the low-cost measure of arranging conductors for field reduction was considered for this segment.

*Magnetic Field Calculations:* Figure 4 and Table 2 show the calculated magnetic field levels for proposed 66 kV design. These calculations were made using the minimum proposed structure height of 65 feet above ground with the low-cost measure of arranging conductors for magnetic field reduction incorporated.

Figure 4. Calculated Magnetic Field Levels<sup>37</sup> for Segment 1 Proposed Etiwanda – Falcon Ridge 66 kV Line and Existing Lugo-Mira Loma No. 2 and No. 3 500 kV T/Ls 250 S1 Existing S1 Proposed Design 200 Magnetic Fields (unit: mG) 150 ROW ROW Edge Edge 100 50 0 -350 -300 -250 -200 -150 -100 50 100 150 200 250 300 Distance (unit: ft)

Table 2. Calculated Magnetic Field Levels <sup>38</sup> for Segment 1				
Design Options	Left ROW Edge (mG)	% Reduction	Right ROW Edge (mG)	% Reduction
Existing	19.3	N/A	40.1	N/A
Proposed Design	11.9	38%	40.2	Less than 15% Increase

This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

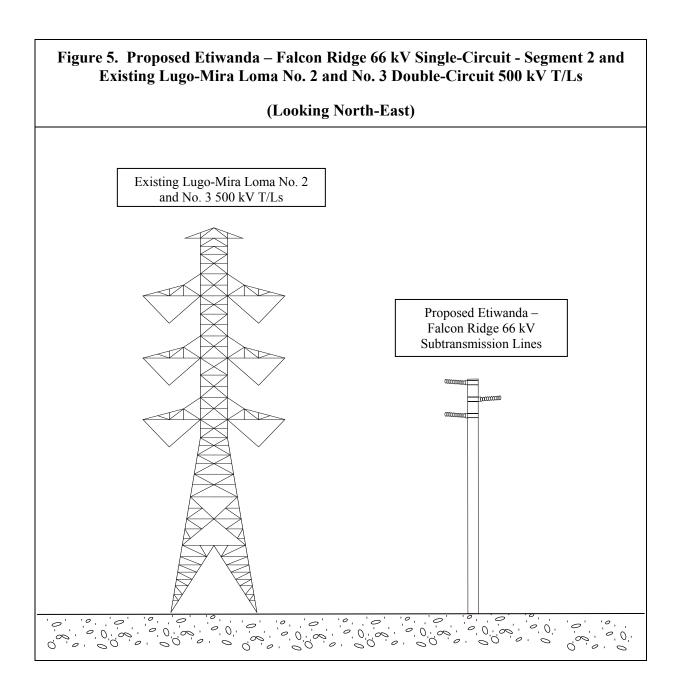
Recommendations for Segment 1: The proposed design includes no-cost field reduction measures such as using structure heights that meet or exceed SCE's EMF preferred design criteria and utilizing subtransmission line construction that reduces the space between conductors compared with other designs. Because the presence of a day care center and residential area in the nearby vicinity, the low-cost field reduction measure of arranging phase conductors for field reduction is recommended for this segment.

#### Segment 2 - Etiwanda Source Line

Figure 5 shows the typical design of the Etiwanda 66 kV source line Segment 2 and the existing Lugo-Mira Loma No. 2 and No. 3 double-circuit 500 kV T/Ls. The Segment 2 will be constructed mostly on single-circuit structures on the east side of the 500 kV T/Ls. Based on preliminary designs, the LWS poles would be at least 75 feet in height (65 feet above ground), and TSPs would range between 70 to 100 feet in height. The structures will mostly be located within SCE 500 kV ROW. There are residential, recreational, and agricultural areas along Segment 2.

**No-Cost Field Reduction Measures:** The proposed design for Segment 2 includes the following no-cost field reduction measure:

- 1. Utilizing structure heights that meet or exceed SCE's EMF preferred design criteria.
- 2. Utilizing subtransmission line construction that reduces the space between conductors compared with other designs



**Low-Cost Field Reduction Options:** Because there are some residential areas near the east edge of SCE ROW where the proposed 66 kV line will be, the low-cost measure of arranging conductors for field reduction was considered for this segment.

*Magnetic Field Calculations:* Figure 6 and Table 3 show the calculated magnetic field levels for proposed design. These calculations were made using the minimum proposed

structure height of 65 feet above ground with the low-cost measure of arranging conductors for magnetic field reduction incorporated.

Figure 6. Calculated Magnetic Field Levels for Segment 2 Proposed Etiwanda – Falcon Ridge 66 kV Line and Existing Lugo-Mira Loma No. 2 and No. 3 500 kV T/Ls 250 S2 Existing S2 Proposed Design 200 Magnetic Fields (unit: mG) 150 ROW ROW Edge Edge 100 50 0 -100 50 -350 -300 -250 -200 -150 100 150 200 250 300 Distance (unit: ft)

Table 3. Calculated Magnetic Field Levels40 for Segment 2				
Design Options	Left ROW Edge (mG)	% Reduction	Right ROW Edge (mG)	% Reduction

<sup>39</sup> This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

Existing	19.3	N/A	40.1	N/A
Proposed Design	19.3	0	36.5	9.0

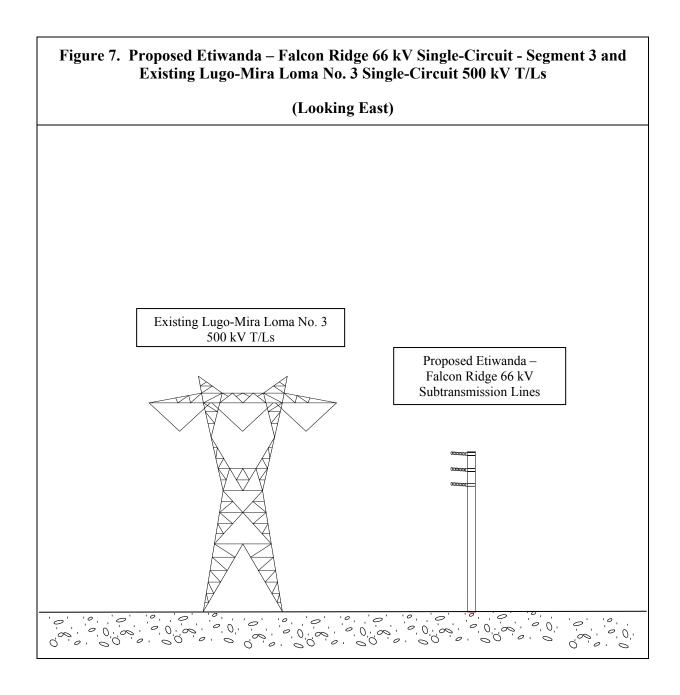
Recommendations for Segment 2: The proposed design includes no-cost field reduction measures such as using structure heights that meet or exceed SCE's EMF preferred design criteria and utilizing subtransmission line construction that reduces the space between conductors compared with other designs. Because the presence of some residential areas in the nearby vicinity, the low-cost field reduction measure of arranging phase conductors for field reduction is recommended for this segment even the field reduction is less than 15% from the existing condition at the edge of the ROW. Without arranging phase conductors for field reduction, the magnetic field will increase from the existing condition.

# **Segment 3 - Etiwanda Source Line**

Figure 7 shows the typical design of the Etiwanda 66 kV source line Segment 3 and the existing Lugo-Mira Loma No. 3 single-circuit 500 kV T/L. The Segment 3 will be constructed mostly on single-circuit structures on the south side of the 500 kV T/L. Based on preliminary designs, the LWS poles would be at least 75 feet in height (65 feet above ground), and TSPs would range between 70 to 100 feet in height. The structures will mostly be located within SCE 500 kV ROW. There are residential areas along Segment 3.

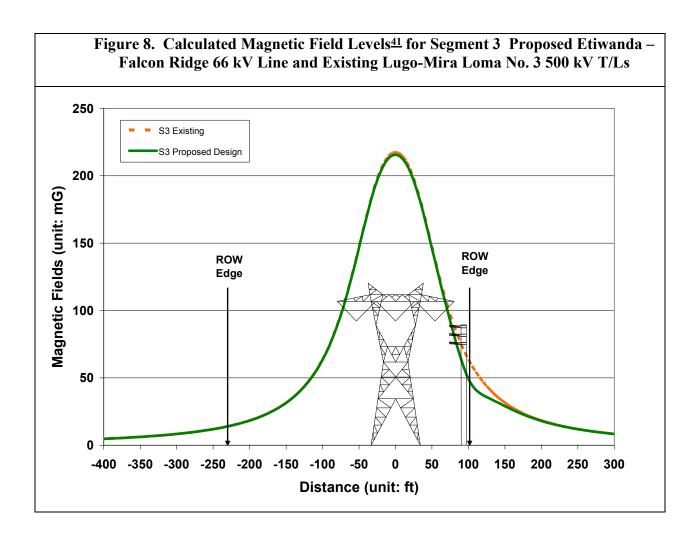
**No-Cost Field Reduction Measures:** The proposed design for Segment 3 includes the following no-cost field reduction measure:

 Utilizing structure heights that meet or exceed SCE's EMF preferred design criteria.



**Low-Cost Field Reduction Options:** Because there are some residential areas near the east edge of SCE ROW where the proposed 66 kV line will be, the low-cost measure of arranging conductors for field reduction was considered for this segment.

*Magnetic Field Calculations:* Figure 8 and Table 4 show the calculated magnetic field levels for proposed design. These calculations were made using the minimum proposed structure height of 65 feet above ground with the low-cost measure of arranging conductors for magnetic field reduction incorporated.



<sup>41</sup> This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

Table 4. Calculated Magnetic Field Levels42 for Segment 3				
Design Options	sign Options Left ROW Edge (mG) Reduction Right ROW Edge (mG) Reduction			
Existing	14.0	N/A	63.7	N/A
Proposed Design	14.0	0	49.3	22.6

Recommendations for Segment 3: The proposed design includes no-cost field reduction measures such as using structure heights that meet or exceed SCE's EMF preferred design criteria. Because the presence of some residential areas in the nearby vicinity, the low-cost field reduction measure of arranging phase conductors for field reduction is recommended for this segment.

# Segment 4 - Etiwanda Source Line

Figure 9 shows the typical design of the Etiwanda 66 kV source line Segment 4 and the existing Lugo-Mira Loma No. 3 single-circuit 500 kV T/L. The Segment 4 will be constructed mostly on single-circuit structures on the south side of the 500 kV T/L. Based on preliminary designs, the LWS poles would be at least 75 feet in height (65 feet above ground), and TSPs would range between 70 to 100 feet in height. The structures will mostly be located within SCE 500 kV ROW. There are residential areas along Segment 4.

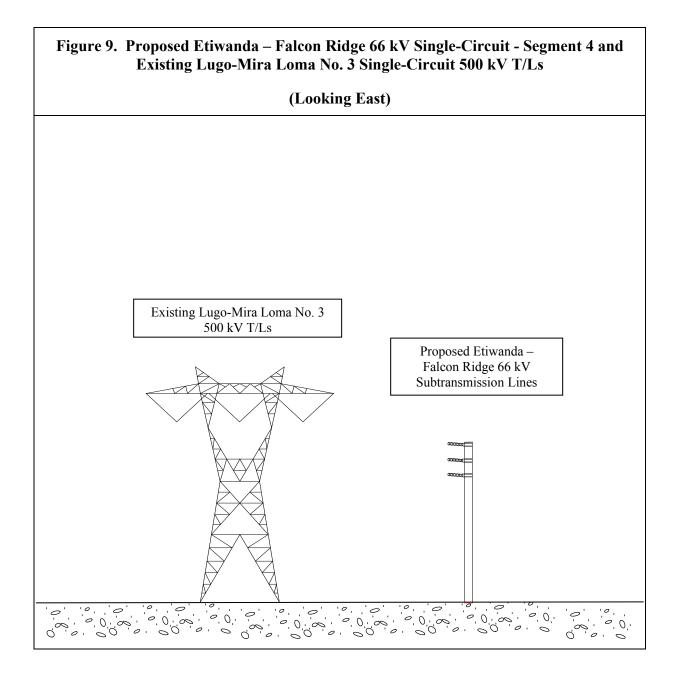
**No-Cost Field Reduction Measures:** The proposed design for Segment 3 includes the following no-cost field reduction measure:

\_

32

This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

1. Utilizing structure heights that meet or exceed SCE's EMF preferred design criteria.



**Low-Cost Field Reduction Options:** Because there are some residential areas near the east edge of SCE ROW where the proposed 66 kV line will be, the low-cost measure of arranging conductors for field reduction was considered for this segment.

*Magnetic Field Calculations:* Figure 10 and Table 5 show the calculated magnetic field levels for proposed design. These calculations were made using the minimum proposed structure height of 65 feet above ground with the low-cost measure of arranging conductors for magnetic field reduction incorporated.

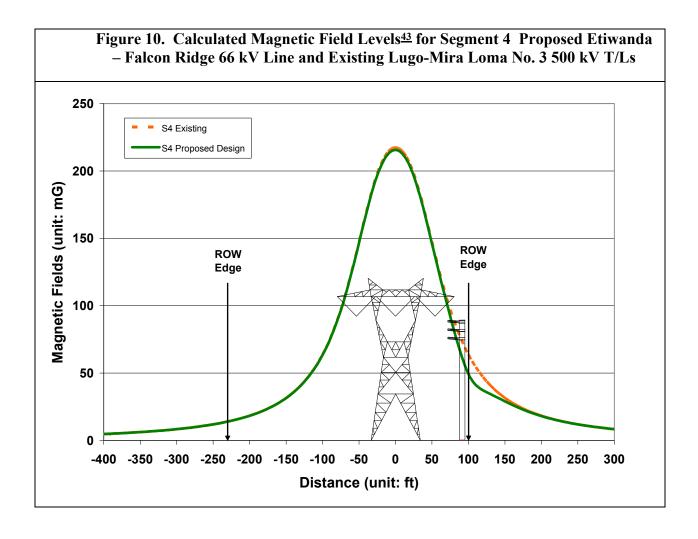


Table 5. Calculated Magnetic Field Levels 44 for Segment 4				
Design Options	Left ROW Edge (mG)	% Reduction	Right ROW Edge (mG)	% Reduction
Existing	14.0	N/A	63.7	N/A
Proposed Design	14.0	0	49.3	22.6

Recommendations for Segment 4: The proposed design includes no-cost field reduction measures such as using structure heights that meet or exceed SCE's EMF preferred design criteria. Because the presence of some residential areas in the nearby vicinity, the low-cost field reduction measure of arranging phase conductors for field reduction is recommended for this segment.

# **Segment 5 - Etiwanda Source Line**

Etiwanda source line Segment 5 is between Segment 1 and Segment 2, but divert from the SCE ROW. Figure 11 shows the typical design of the Etiwanda 66 kV source line Segment 5. The Segment 5 will be constructed mostly on single-circuit. Based on preliminary designs, the LWS poles would be at least 75 feet in height (65 feet above ground), and TSPs would range between 70 to 100 feet in height. The structures will be located along South Highland Avenue and San Sevaine Road in an existing or future street ROW. For EMF analysis, calculated field levels were evaluated at 10 feet from the center line (C/L) of the structure for a single circuit. There are abandoned agricultural areas along Segment 5.

Continued from the previous page

35

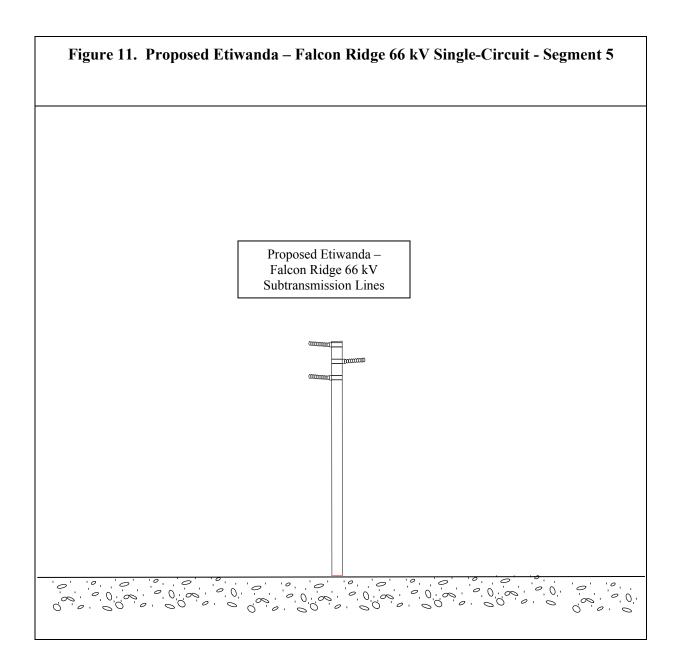
<sup>43</sup> This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

**No-Cost Field Reduction Measures:** The proposed design for Segment 5 includes the following no-cost field reduction measure:

- 1. Utilizing structure heights that meet or exceed SCE's EMF preferred design criteria.
- 2. Utilizing subtransmission line construction that reduces the space between conductors compared with other designs

Continued from the previous page

This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.



Low-Cost Field Reduction Options: Because the proposed design incorporates the above no-cost field reduction measures including structure heights that meet or exceed SCE's EMF preferred design criteria, no further low-cost reduction measures such as utilizing taller structures were considered for this segment.

*Magnetic Field Calculations:* Figure 12 and Table 6 show the calculated magnetic field levels for proposed design. These calculations were made using the typical proposed structure height of 65 feet above ground.

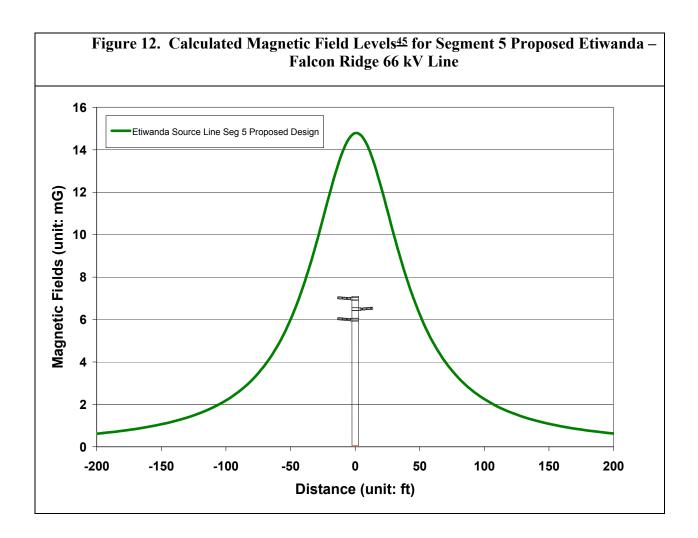


Table 6. Calculated Magnetic Field Levels <sup>46</sup> for Segment 5				
Design Options	10 Feet Left of C/L (mG)	% Reduction	10 Feet Right of C/L (mG)	% Reduction
Proposed Design	14.1	N/A	13.9	N/A

39

<sup>45</sup> This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

<sup>46</sup> This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

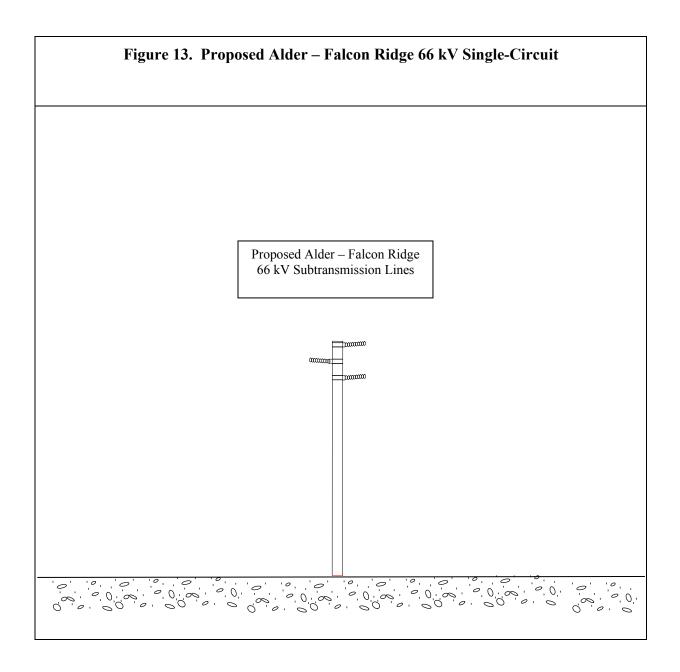
Recommendations for Segment 5: Because the proposed design already incorporates structures with heights meeting or exceeding SCE's preferred design criteria, no further low-cost field reduction measures are recommended.

#### Alder 66 kV Source Line (Alder – Falcon Ridge 66 kV line)

Figure 13 shows the typical design of the Alder 66 kV source line. It will be constructed mostly on single-circuit structures. Based on preliminary designs, the LWS poles would be at least 75 feet in height (65 feet above ground), and TSPs would range between 70 to 100 feet in height. The structures will be located along Locust Avenue, Casmalia Street, and the future Mango Avenue extension in existing or future street ROW. For EMF analysis, calculated field levels were evaluated at 10 feet from the C/L of the structure for a single circuit. There are commercial/industrial areas along the Alder 66 kV source line route.

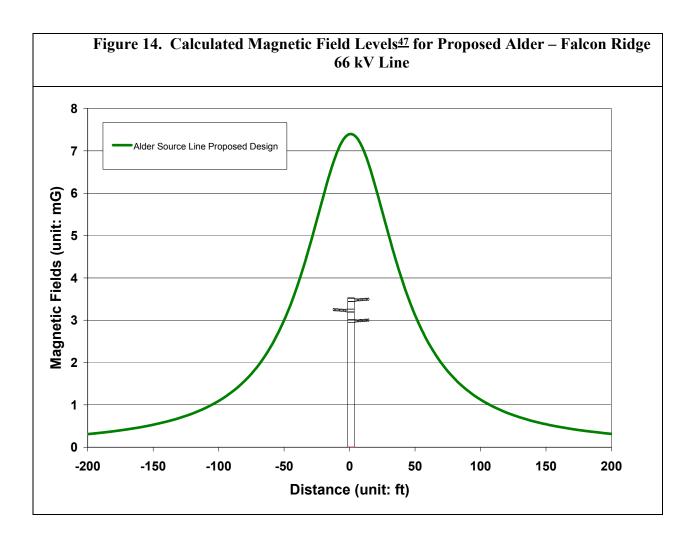
**No-Cost Field Reduction Measures:** The proposed design for Alder Source Line includes the following no-cost field reduction measure:

- 1. Utilizing structure heights that meet or exceed SCE's EMF preferred design criteria.
- 2. Utilizing subtransmission line construction that reduces the space between conductors compared with other designs



Low-Cost Field Reduction Options: Because the proposed design incorporates the above no-cost field reduction measures including structure heights that meet or exceed SCE's EMF preferred design criteria, no further low-cost reduction measures such as utilizing taller structures were considered for this segment.

*Magnetic Field Calculations:* Figure 14 and Table 7 show the calculated magnetic field levels for proposed design. These calculations were made using the typical proposed structure height of 65 feet above ground.



This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

Table 7. Calculated Magnetic Field Levels for Alder Source Line				
Design Options	10 Feet Left of C/L (mG)	% Reduction	10 Feet Right of C/L (mG)	% Reduction
Proposed Design	6.9	N/A	7.1	N/A

Recommendations for Alder Source Line: Because the proposed design already incorporates structures with heights meeting or exceeding SCE's preferred design criteria, no further low-cost field reduction measures are recommended.

# Part 2: Proposed Falcon Ridge 66/12 kV Substation

Generally, magnetic field values along the substation perimeter are low compared to the substation interior because of the distance from the perimeter to the energized equipment.

Normally, the highest magnetic field values around the perimeter of a substation result from overhead power lines and underground duct banks entering and leaving the substation, and are not caused by substation equipment. Therefore, the magnetic field reduction design options generally applicable to a substation project are as follows:

- Site selection for a new substation;
- Setback of substation structures and major substation equipment (such as bus, transformers, and underground cable duct banks, etc.) from perimeter;
- Field reduction for transmission lines and subtransmission lines entering and exiting the substation.

This table lists calculated magnetic field levels for design comparison only and is not meant to predict actual magnetic field levels.

43

The Substation Checklist, as shown in Table 8, is used for evaluating the no-cost and low-cost design options considered for the substation project, the design options adopted, and reasons that certain design options were not adopted if applicable.

Т	Table 8. Substation Checklist for Examining No-cost and Low-cost Magnetic Field Reduction Design Options				
No.	No-Cost and Low-Cost Magnetic Field Reduction Design Options Evaluated for a Substation Project	Design Options Adopted? (Yes/No)	Reason(s) if not Adopted		
1	Are 66 kV rated transformer(s) 15 feet from the substation property line?	Yes			
2	Are 66 kV rated switch-racks, capacitor banks & bus 8 feet (or more) from the substation property line?	Yes			
3	Are 66kV rated transfer & operating buses configured with the transfer bus facing the nearest property line?	Yes			
4	Are underground cable duct banks greater than 12 feet from side of property line?	Yes			

#### **Part 3: Project Alternatives**

This FMP includes only "no-cost and low-cost" magnetic field reduction design options for SCE's proposed routes and Proposed Substation site. SCE's Proponent's Environmental Assessment (PEA) contains various alternative line routes and substation site(s). Comparable "no-cost and low-cost" magnetic field reduction options for the Proposed Project can be applied to all alternative subtransmission routes and substation sites. A Final FMP will be prepared should an alternative route be approved.

# VI. FINAL RECOMMENDATIONS FOR IMPLEMENTING "NO-COST AND LOW-COST" MAGNETIC FIELD REDUCTION DESIGN OPTIONS

In accordance with the "EMF Design Guidelines", filed with the CPUC in compliance with CPUC Decisions 93-11-013 and 06-01-042, SCE would implement the following "no-cost and low-cost" magnetic field reduction design options for Proposed Project:

# For Proposed Segment 1 - Etiwanda 66 kV Source Line:

- Utilizing structure heights that meet or exceeds SCE's EMF preferred design criteria
- Utilizing subtransmission line construction that reduces the space between conductors compared with other designs
- Arranging conductors of proposed subtransmission line for magnetic field reduction
  - Proposed phasing arrangement: C-B-A (top to bottom, with two conductors facing the existing Lugo – Mira Loma No. 2 and No.3 T/Ls)

# For Proposed Segment 2 - Etiwanda 66 kV Source Line:

- Utilizing structure heights that meet or exceeds SCE's EMF preferred design criteria
- Utilizing subtransmission line construction that reduces the space between conductors compared with other designs
- Arranging conductors of proposed subtransmission line for magnetic field reduction
  - Proposed phasing arrangement: A-B-C (top to bottom, with two conductors facing the existing Lugo – Mira Loma No. 2 and No.3 T/Ls)

#### For Proposed Segment 3 - Etiwanda 66 kV Source Line:

- Utilizing structure heights that meet or exceeds SCE's EMF preferred design criteria
- Arranging conductors of proposed subtransmission line for magnetic field reduction
  - Proposed phasing arrangement: B-C-A (top to bottom, with three conductors facing the existing Lugo – Mira Loma No.3 T/L)

# For Proposed Segment 4 - Etiwanda 66 kV Source Line:

- Utilizing structure heights that meet or exceeds SCE's EMF preferred design criteria
- Arranging conductors of proposed subtransmission line for magnetic field reduction
  - Proposed phasing arrangement: B-C-A (top to bottom, with three conductors facing the existing Lugo – Mira Loma No.3 T/L)

# For Proposed Segment 5 - Etiwanda 66 kV Source Line:

- Utilizing structure heights that meet or exceeds SCE's EMF preferred design criteria
- Utilizing subtransmission line construction that reduces the space between conductors compared with other designs

#### For Proposed Alder 66 kV Source Line:

- Utilizing structure heights that meet or exceeds SCE's EMF preferred design criteria
- Utilizing subtransmission line construction that reduces the space between conductors compared with other designs

#### For Proposed Falcon Ridge 66/12 kV Substation:

- Place major substation electrical equipment (such as transformers, switchracks, buses and underground duct banks) away from the substation property lines
- Configure the transfer and operating buses with the transfer bus closest to the nearest property line

The recommended "no-cost and low-cost" magnetic field reduction design options listed above are based upon preliminary engineering designs, and therefore, they are subject to change during the final engineering designs. If the final engineering designs are different than preliminary engineering designs, SCE would implement comparable "no-cost and low-cost" magnetic field reduction design options. If the final engineering designs are significantly different (in the context of evaluating and implementing CPUC's "no-cost and low-cost" EMF Policy) than the preliminary designs, a Final FMP will be prepared.

SCE's plan for applying the above "no-cost and low-cost" magnetic field reduction design options uniformly for the Proposed Project is consistent with the CPUC's EMF Decisions No. 93-11-013 and No. 06-01-042, and also with recommendations made by the U.S. NIEHS.

Furthermore, the recommendations above meet the CPUC approved EMF Design Guidelines as

well as all applicable national and state safety standards for new electrical facilities.

# VII. APPENDIX A: TWO-DIMENTIONAL MODEL ASSUMPTIONS AND YEAR 2014 FORECASTED LOADING CONDITIONS

#### **Magnetic Field Assumptions:**

SCE uses a computer program titled "MFields" to model the magnetic field characteristics of various transmission designs options. All magnetic field models and the calculated results of magnetic field levels presented in this document are intended only for purposes of identifying the relative differences in magnetic field levels among various subtransmission line and subtransmission line design alternatives under a specific set of modeling assumptions and determining whether particular design alternatives can achieve magnetic field level reductions of 15 percent or more. The calculated results are not intended to be predictors of the actual magnetic field levels at any given time or at any specific location if and when the project is constructed.

Typical two-dimensional magnetic field modeling assumptions include:

- All subtransmission lines were modeled using forecasted peak loads (see Table 9 and 10 below)
- All conductors were assumed to be straight and infinitely long
- Average conductor heights accounted for line sag used in the calculation for the proposed
   Etiwanda Falcon Ridge and Alder Falcon Ridge 66 kV subtransmission lines and existing
   Lugo Mira Loma No. 2 and No. 3 T/Ls
- Magnetic field strength was calculated at a height of three feet above ground
- Resultant magnetic fields values were presented in this FMP
- All line currents were assumed to be balanced (i.e. neutral or ground currents are not considered)
- Terrain was assumed to be flat
- Project dominant power flow directions were used.

-

<sup>49</sup> SCE, MFields for Excel, Version 2.0, 2007.

Table 9. Year 2014 Forecasted Loading Conditions for Proposed 66 kV Subtransmission Lines	
Circuit Name	Current (Amp)
Proposed Etiwanda – Falcon Ridge 66 kV subtransmission line	500
Proposed Alder – Falcon Ridge 66 kV subtransmission line	250

Table 10. Existing Lugo – Mira Loma No. 2 and No. 3 T/L Loads	
Circuit Name	Current (Amp)
Existing Lugo – Mira Loma No. 2 500 kV T/L	2200
Existing Lugo – Mira Loma No. 3 500 kV T/L	2100

#### Notes:

- 1. Forecasted loading data is based upon scenarios representing load forecasts for the operating year of 2014. The forecasting data is subject to change depending upon availability of generations, load increase, changes in load demand, and by many other factors.
- 2. All existing line loading data is derived from historical data.
- 3. Load flow of the proposed Etiwanda Falcon Ridge 66 kV and the existing Lugo Mira Loma No. 2 and No. 3 T/Ls are assumed to be in the opposite directions

# **CERTIFICATE OF SERVICE**

I hereby certify that, pursuant to the Commission's Rules of Practice and Procedure, I have this day served a true copy of the APPLICATION OF SOUTHERN CALIFORNIA EDISON COMPANY (U 338-E) FOR A PERMIT TO CONSTRUCT ELECTRICAL FACILITIES WITH VOLTAGES BETWEEN 50 KV AND 200 KV: FALCON RIDGE SUBSTATION PROJECT on the parties identified below. Service was effected by placing the copies in properly addressed sealed envelopes and causing such envelopes to be delivered via overnight courier to the offices of the following individuals:

Karen Clopton	Melissa Jones
Chief Administrative Law Judge	Executive Director
California Public Utilities Office	California Energy Commission
505 Van Ness Avenue	1516 9 <sup>th</sup> Street, MS3-39
San Francisco, CA 94102	Sacramento, CA 95814-5512

Executed this 29th day of December 2010, at Rosemead, California.

/s/Meraj Rizvi

Meraj Rizvi, Project Analyst SOUTHERN CALIFORNIA EDISON COMPANY

> 2244 Walnut Grove Avenue Post Office Box 800 Rosemead, California 91770