



Ron van der Leeden  
Rates, Revenues & Tariffs  
8330 Century Park Court  
San Diego, CA 92123-1548

Tel: 213-244-2009  
Fax: 858.654.1788  
RvanderLeeden@semprautilities.com

September 30, 2009

**ADVICE LETTER 2113-E**

(U 902-E)

PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

**SUBJECT: NOTICE OF PROPOSED CONSTRUCTION OF THE CLAIREMONT  
SUBSTATION MODIFICATION PROJECT**

**Purpose**

Pursuant to General Order (G.O.) 131-D, Section XI, Subsection B.4, San Diego Gas & Electric Company (SDG&E) hereby submits a notice of construction for the Clairemont Substation Modification Project.

This project is exempt from G.O. 131-D, Section III.A, Certificate of Public Convenience and Necessity (CPCN) requirements because all of the facilities are designed to operate below 200 kilovolts (200kV). The substation work does not increase the substation land area beyond the existing utility-owned property or increase the voltage rating, and therefore, constitutes a substation modification for which no Permit to Construct (PTC) is required. The transmission components of the project are also exempt from a PTC in accordance with the provisions of G.O. 131-D, Section III.B.1.d – “the conversion of existing overhead lines to underground” and, Section III.B.1.g – the installation of “power line facilities ... to be located in an existing franchise ... or public utility easement” and, as described below, there are no exceptions to the exemptions. In compliance with the noticing requirements found in G.O. 131-D, Section XI, Subsections B and C, this informational Advice Letter provides a copy of the Notice of Proposed Construction (Attachment A) and the Notice Distribution List (Attachment B).

**General Description**

SDG&E's existing Clairemont Substation is in need of major infrastructure replacement. Clairemont Substation is a 42 year-old 50 MVA substation. Modifying the existing substation will greatly increase reliability for 26,050 customers in the area, reduce the maintenance required by the existing obsolete circuit breakers, failing capacitor banks, and aging transformers, and extend the useful service life of the electrical facilities. The modifications will improve substation safety by extending the ground grid for function of protective relays and through increased maintenance and operational flexibility, as well as allowing for installation of up to date transmission and distribution SCADA.

The substation modification includes building a new control shelter and adding an updated battery system. The existing battery system is an outmoded 48V DC system. Adding a control shelter will allow for the installation of the new 120V battery system as well as space required for system control relays and communication equipment. It will also help increase overall substation security.

The modification consist of a new 69kV steel structure with four bay positions, five new 69kV circuit breakers, and ten new 69kV disconnects. Once the new steel structure is in place, the old 69kV steel structure will be removed. The two existing standard profile 28MVA transformers will be replaced with one standard profile 69/12kV, 28MVA, transformer and one Wye-Delta-Zigzag standard profile, 69/12kV, 28MVA, transformer. Three single phase potential transformers will be installed on the new 69kV bus. A new control shelter will replace the existing control cabinets. The existing DC battery system will be upgraded from 48V DC to 120V DC, and the old and obsolete electromechanical relays will be replaced with modern digital relays both at Clairemont Substation and at the remote end substations, which are Rose Canyon, Kearny and Mission Substations. In addition, two new metal clad, 7200 kVAR, 4-stepped, capacitor banks will replace the existing open rack capacitor bank and the existing 6000kVAR one step capacitor. The 12kV transfer bus will also be extended two bay positions. The modification includes replacement of all eight 12kV breakers. The 12kV main bus will be split to accommodate the addition of a 12kV bus tie. Transmission/distribution SCADA will be installed within the substation. This project also extends the ground grid to cover 2/3 of the existing substation property.

The substation voltage rating and number of overhead and underground distribution lines exiting the station will remain the same.

The transmission line work will consist of overhead and underground work. The two existing overhead 69kV lines will be underground. Approximately 600 ft of new 69kV double-circuit underground duct package and one (1) 69kV underground vault will be needed. The trenching will take place between the new 69kV steel pole to the vault on Chateau Drive to the 69kV rack.

The overhead transmission work will consist of the installation of one (1) 69 kV double-circuit anchor bolted steel cable pole and associated hardware on the transmission right of way. Two (2) existing tangent wood pole structures and associated hardware will be replaced with two wood pole structures. One existing wood pole structure and associated hardware, guys and anchors will be removed along with miscellaneous guys and anchors. Once the steel transmission pole is in place, the overhead conductors will be transferred to the new pole.

### **Project Schedule**

SDG&E plans to begin construction as soon as this Advice Letter noticing period is completed on November 16, 2009.

### **Potential Environmental Impacts**

SDG&E has reviewed the project for potential environmental impacts and found that this project will not create any significant incremental or cumulative effects. Further, the results of the environmental review do not find any exceptions to the exemptions from a PTC, as described in G.O. 131-D.III.B.2.

No cost information is required for this advice filing.

This informational filing will not result in an increase in any rate or charge, conflict with any rate schedule or rules, nor cause the withdrawal of service or result in more restrictive conditions.

**Magnetic Field Management:**

The CPUC requires utilities to consider "no-cost" and "low-cost" magnetic field management techniques on all new transmission projects as a precautionary measure to reduce public exposure to magnetic fields. SDG&E will implement magnetic field management techniques on this project, as appropriate, in accordance with SDG&E's *EMF Design Guidelines for Electrical Facilities* (Guidelines), as filed with the CPUC in compliance with D.93-11-013 and updated incompliance with D.06-01-042.

Per SDG&E's EMF Design Guidelines, the Transmission line improvements for this project are exempt from "no-cost" and "low cost" magnetic field reduction techniques since the total length of new transmission line is less than 2,000 feet and within the existing SDG&E Right-of-Way corridor and the substation modification is limited in scope. A review of the project determined that a Magnetic Field Management Plan was not required.

**Effective Date**

Because this Advice Letter is being filed in accordance with the noticing requirements described in G.O. 131-D, Section XI, Subsection B.4, no resolution is required for approval. SDG&E respectfully requests that this filing become effective on October 30, 2009, which is 30 days after the date filed.

**Protest**

Anyone may protest this Advice Letter to the California Public Utilities Commission. The protest must state the grounds upon which it is based, including such items as financial and service impact, and should be submitted expeditiously. The protest must be made either in writing or by facsimile and received by October 20, 2009 which is 20 days of the date this Advice Letter was filed with the Commission. There is no restriction on who may file a protest. The address for mailing or delivering a protest to the Commission is:

IMC Branch Chief  
Energy Division  
California Public Utilities Commission  
505 Van Ness Avenue, Room 4002  
San Francisco, CA 94102

Copies should also be sent via email to the attention of Honesto Gatchallian ([ijn@cpuc.ca.gov](mailto:ijn@cpuc.ca.gov)) and Maria Salinas ([mas@cpuc.ca.gov](mailto:mas@cpuc.ca.gov)) of the Energy Division. A copy could also be mailed to the Energy Division-IMC Branch, Room 4005 (at the address shown above). It is also requested that a copy of the protest be sent via both e-mail and Facsimile to SDG&E on the same date it is mailed or delivered to the Commission (at the address shown below).

Attn: Rebecca W. Giles  
Regulatory Case Administrator  
San Diego Gas and Electric  
8330 Century Park Court – CP32D  
San Diego, CA 92123-1550  
Facsimile No. (858) 654-1788  
E-mail: RGiles@semprautilities.com

**Notice**

G.O. 131-D, Section XI, Subsection B. requires that this Advice Letter be filed not less than 30 days before the date such construction is intended to begin. SDG&E intends to begin construction no sooner than November 16, 2009. In accordance with Section III.G of G.O. 96-B, SDG&E has, on September 30, 2009, served a copy of this filing on the parties shown on the attached list including the parties listed in G.O. 131-D, Section XI, Paragraphs B.1. and B.2., by providing them a copy hereof, either electronically or via the U.S. mail, properly stamped and addressed. A copy of the attached Notice will also be posted on site in accordance with G.O. 131-D, Section XI. Paragraph B.3.

Address changes should be directed to SDG&E Tariffs by facsimile at (858) 654-1788 or by e-mail to SDG&ETariffs.com

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Ron van der Leeden  
Director – Rates, Revenues & Tariffs

(cc list enclosed)

# CALIFORNIA PUBLIC UTILITIES COMMISSION

## ADVICE LETTER FILING SUMMARY ENERGY UTILITY

MUST BE COMPLETED BY UTILITY (Attach additional pages as needed)

Company name/CPUC Utility No. **SAN DIEGO GAS & ELECTRIC (U 902)**

Utility type:

ELC     GAS  
 PLC     HEAT     WATER

Contact Person: Aurora Carrillo

Phone #: (858) 654-1542

E-mail: acarrillo@semprautilities.com

### EXPLANATION OF UTILITY TYPE

ELC = Electric                      GAS = Gas  
PLC = Pipeline                      HEAT = Heat    WATER = Water

(Date Filed/ Received Stamp by CPUC)

Advice Letter (AL) #: 2113-E

Subject of AL: Notice of Proposed Construction of the Clairemont Substation Modification Project

Keywords (choose from CPUC listing): Transmission Lines, GO 131-D

AL filing type:  Monthly  Quarterly  Annual  One-Time  Other Periodic

If AL filed in compliance with a Commission order, indicate relevant Decision/Resolution #:

Does AL replace a withdrawn or rejected AL? If so, identify the prior AL N/A

Summarize differences between the AL and the prior withdrawn or rejected AL<sup>1</sup>: N/A

Does AL request confidential treatment? If so, provide explanation: \_\_\_\_\_

Resolution Required?  Yes  No

Tier Designation:  1  2  3

Requested effective date: October 30, 2009

No. of tariff sheets: 0

Estimated system annual revenue effect (%): N/A

Estimated system average rate effect (%): N/A

When rates are affected by AL, include attachment in AL showing average rate effects on customer classes (residential, small commercial, large C/I, agricultural, lighting).

Tariff schedules affected: N/A

Service affected and changes proposed<sup>1</sup>: N/A

Pending advice letters that revise the same tariff sheets: N/A

**Protests and all other correspondence regarding this AL are due no later than 20 days after the date of this filing, unless otherwise authorized by the Commission, and shall be sent to:**

**CPUC, Energy Division  
Attention: Tariff Unit**

**505 Van Ness Ave.,  
San Francisco, CA 94102**

**mas@cpuc.ca.gov and jnj@cpuc.ca.gov**

**San Diego Gas & Electric  
Attention: Megan Caulson**

**8330 Century Park Ct, Room 32C  
San Diego, CA 92123**

**mcaulson@semprautilities.com**

<sup>1</sup> Discuss in AL if more space is needed.

General Order No. 96-B  
ADVICE LETTER FILING MAILING LIST

cc: (w/enclosures)

Public Utilities Commission

DRA

D. Appling  
S. Cauchois  
J. Greig  
R. Pocta  
W. Scott

Energy Division

P. Clanon  
S. Gallagher  
H. Gatchalian  
D. Lafrenz  
M. Salinas

CA. Energy Commission

F. DeLeon  
R. Tavares

Alcantar & Kahl LLP

K. Harteloo

American Energy Institute

C. King

APS Energy Services

J. Schenk

BP Energy Company

J. Zaiontz

Barkovich & Yap, Inc.

B. Barkovich

Bartle Wells Associates

R. Schmidt

Braun & Blaising, P.C.

S. Blaising

California Energy Markets

S. O'Donnell  
C. Sweet

California Farm Bureau Federation

K. Mills

California Wind Energy

N. Rader

CCSE

S. Freedman  
J. Porter

Children's Hospital & Health Center

T. Jacoby

City of Chula Vista

M. Meacham  
E. Hull

City of Poway

R. Willcox

City of San Diego

J. Cervantes  
G. Lonergan  
M. Valerio

Commerce Energy Group

V. Gan

Constellation New Energy

W. Chen

CP Kelco

A. Friedl

Davis Wright Tremaine, LLP

E. O'Neill  
J. Pau

Dept. of General Services

H. Nanjo  
M. Clark

Douglass & Liddell

D. Douglass  
D. Liddell  
G. Klatt

Duke Energy North America

M. Gillette

Dynegy, Inc.

J. Paul

Ellison Schneider & Harris LLP

E. Janssen

Energy Policy Initiatives Center (USD)

S. Anders

Energy Price Solutions

A. Scott

Energy Strategies, Inc.

K. Campbell  
M. Scanlan

Goodin, MacBride, Squeri, Ritchie & Day

B. Cragg  
J. Heather Patrick  
J. Squeri

Goodrich Aerostructures Group

M. Harrington

Hanna and Morton LLP

N. Pedersen

Itsa-North America

L. Belew

J.B.S. Energy

J. Nahigian

Luce, Forward, Hamilton & Scripps LLP

J. Leslie

Manatt, Phelps & Phillips LLP

D. Huard  
R. Keen

Matthew V. Brady & Associates

M. Brady

Modesto Irrigation District

C. Mayer

Morrison & Foerster LLP

P. Hanschen

MRW & Associates

D. Richardson

OnGrid Solar

Andy Black

Pacific Gas & Electric Co.

J. Clark  
M. Huffman  
S. Lawrie  
E. Lucha

Pacific Utility Audit, Inc.

E. Kelly

R. W. Beck, Inc.

C. Elder

School Project for Utility Rate Reduction

M. Rochman  
Shute, Mihaly & Weinberger LLP

O. Armi

Solar Turbines

F. Chiang

Sutherland Asbill & Brennan LLP

K. McCrea

Southern California Edison Co.

M. Alexander  
K. Cini  
K. Gansecki  
H. Romero

TransCanada

R. Hunter  
D. White

TURN

M. Florio  
M. Hawiger

UCAN

M. Shames

U.S. Dept. of the Navy

K. Davoodi  
N. Furuta  
L. DeLacruz

Utility Specialists, Southwest, Inc.

D. Koser

Western Manufactured Housing

Communities Association

S. Dey

White & Case LLP

L. Cottle

## ATTACHMENT A

### NOTICE OF PROPOSED CONSTRUCTION

**Project Name: CLAIREMONT SUBSTATION MODIFICATION PROJECT**

**Date: September 30, 2009**

**SDG&E Advice Letter Number: 2113-E**

#### **Project Description:**

SDG&E proposes to modify its existing Clairemont Substation to include a new 69 kilo-volt (kV) steel structure with four bay positions, five new 69kV circuit breakers, and ten new 69kV disconnects. Once the new steel structure is in place, the old 69kV steel structure will be removed. The two existing standard profile 28MVA transformers will be replaced with one standard profile 69/12kV, 28MVA, transformer and one Wye-Delta-Zigzag standard profile, 69/12kV, 28MVA, transformer. Three single phase potential transformers will be installed on the new 69kV bus. A new control shelter will replace the existing control cabinets. The existing DC battery system will be upgraded from 48V DC to 120V DC, and the old and obsolete electromechanical relays will be replaced with modern digital relays both at Clairemont Substation and at the remote end substations which are Rose Canyon, Kearny and Mission Substations. In addition, two new metal clad, 7200 kVAR, 4-stepped, capacitor banks will replace the existing open rack capacitor bank and the existing 6000kVAR one step capacitor. The 12kV transfer bus will also be extended two bay positions. The modification included replacement of all eight 12kV breakers. The 12kV main bus will be split to accommodate the addition of a 12kV bus tie. Transmission/distribution SCADA will be installed within the substation as part of this project. This project also extends the ground grid to cover 2/3 of the existing substation property.

The substation voltage rating and number of overhead and underground distribution lines exiting the station will remain the same.

The transmission line work will consist of overhead and underground work. The two existing overhead 69kV lines will be underground. Approximately 600 feet of new 69kV double-circuit underground duct package and one (1) 69kV underground vault will be needed. The trenching will take place between the new 69kV steel pole to the vault on Chateau Drive to the 69kV rack.

The overhead transmission work will consist of the installation of one (1) 69 kV double-circuit anchor bolted steel cable pole and associated hardware within existing right of way. Two (2) existing tangent wood pole structures and associated hardware will be replaced with two wood pole structures. One existing wood pole structure and associated hardware, guys and anchors will be removed along with miscellaneous guys and anchors. Once the steel transmission pole is in place, the overhead conductors will be transferred to the new pole.

#### **Magnetic Field Management:**

The CPUC requires utilities to consider "no-cost" and "low-cost" magnetic field management techniques on all new transmission projects as a precautionary measure to reduce public exposure to magnetic fields. SDG&E will implement magnetic field management techniques on this project, as appropriate, in accordance with SDG&E's *EMF Design Guidelines for Electrical*

*Facilities* (Guidelines), as filed with the CPUC in compliance with D.93-11-013 and updated in compliance with D.06-01-042.

Per SDG&E's EMF Design Guidelines, the Transmission line improvements for this project are exempt from "no-cost" and "low cost" magnetic field reduction techniques since the total length of new transmission line is less than 2,000 feet and within the existing SDG&E Right-of-Way corridor and the substation modification is limited in scope. A review of the project determined that a Magnetic Field Management Plan was not required.

**Exemption from CPUC Authority:**

This project is exempt from G.O. 131-D, Section III.A, Certificate of Public Convenience and Necessity (CPCN) requirements because all of the facilities are designed to operate below 200 kilovolts (200kV). The substation work does not increase the substation land area beyond the existing utility-owned property or increase the voltage rating and, therefore, constitutes a substation modification for which no Permit to Construct (PTC) is required. The transmission components of the project are also exempt from a PTC in accordance with the provisions of G.O. 131-D, Section III.B.1.d – "the conversion of existing overhead lines to underground" and, Section III.B.1.g – the installation of "power line facilities ... to be located in an existing franchise ... or public utility easement" and, as described below, there are no exceptions to the exemptions.

**Public Review Process:**

Persons or groups may protest the proposed construction if they believe the utility has incorrectly applied for an exemption or believe there is a reasonable possibility that the proposed project or cumulative effects or unusual circumstances associated with the project may adversely impact the environment. Pursuant to CPUC GO 131-D, Section XIII, protests must be filed by October 20, 2009 which is 20 calendar days of the date this informational Advice Letter was filed with the Commission. All protests must be filed formally at the CPUC and SDG&E concurrently in accordance with the CPUC's Rules of Practice and Procedure to those listed below.

California Public Utilities  
Commission  
Docket Office, Room 2001  
505 Van Ness Avenue  
San Francisco, CA 94102  
AND

Rebecca W. Giles  
SDG&E  
Regulatory Affairs  
8330 Century Park Ct.  
San Diego, CA 92123  
AND

Julie Fitch  
California Public Utilities  
Commission  
Energy Division  
505 Van Ness Avenue,  
Rm. 4002  
San Francisco, CA 94102

For assistance in filing a protest, please call the CPUC's Public Advisor in Los Angeles at 1-866-849-8391 OR E-mail: [public.advisor.la@cpuc.ca.gov](mailto:public.advisor.la@cpuc.ca.gov).

To request further information, please contact: Ahmad Solomon, Public Affairs Manager, (858)-654-1857 or email [ASolomon@semprautilities.com](mailto:ASolomon@semprautilities.com).

**Attachment B**

**Advice Letter No. 2113-E**

**Notice Distribution List**

**NOTICE OF PROPOSED CONSTRUCTION OF THE CLAIREMONT SUBSTATION  
MODIFICATION PROJECT**

**California Public Utilities Commission**

Nicholas Sher  
505 Van Ness Avenue  
San Francisco, CA 94102

Julie Fitch  
505 Van Ness Avenue  
San Francisco, CA 94102

**California Energy Commission**

Melissa Jones  
Executive Director  
1516 Ninth Street, Mail Stop 39  
Sacramento, CA 95814

**City of San Diego**

Jim Anderson  
City Planning Director  
202 C street MS 5A,  
San Diego, CA 92101  
[andersonw@sandiego.gov](mailto:andersonw@sandiego.gov)

**County of San Diego**

John Snyder, Director of Public Works  
County Operations Center  
5555 Overland Avenue, Building #2  
San Diego, CA 92123  
[John.Snyder@sdcounty.ca.gov](mailto:John.Snyder@sdcounty.ca.gov)

Eric Gibson, Director of Planning and Land Use  
5201 Ruffin Road, Suite B  
San Diego, CA 92123  
[Eric.Gibson@sdcounty.ca.gov](mailto:Eric.Gibson@sdcounty.ca.gov)

**Newspapers of General Circulation**

San Diego Union-Tribune  
North County Times

**Neighborhood Notification**

The Attachment "A" Notice will be posted in public viewing areas, such as at the substation and on SDG&E utility poles, along the project route.