# **UNITED STATES** SECURITIES AND EXCHANGE COMMISSION

**WASHINGTON, DC 20549** 

# FORM S-3 REGISTRATION STATEMENT

UNDER THE SECURITIES ACT OF 1933

# **Southern California Gas Company**

(Exact Name of Registrant as Specified in Its Charter)

California (State or Other Jurisdiction of Incorporation or Organization)

95-1240705 (I.R.S. Employer **Identification Number**)

555 West Fifth Street Los Angeles, California 90013-1011 (213) 244-1200

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

Sharon L. Tomkins Southern California Gas Company Vice President and General Counsel 555 West Fifth Street Los Angeles, California 90013-1011 (213) 244-1200

(Name, Address, Including Zip Code, and Telephone Number, Including Area Code, of Agent for Service)

Copies to: Barry M. Clarkson, Esq. Gregory P. Rodgers, Esq. Latham & Watkins LLP 12670 High Bluff Drive San Diego, California 92130 (858) 523-5400

Approximate Date of Commencement of Proposed Sale to the Public: From time to time after the registration statement becomes effective, as determined by market and other conditions.

If the only securities being registered on this form are being offered pursuant to dividend or interest reinvestment plans, please check the following box.  $\Box$ 

If any of the securities being registered on this form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act of 1933, other than securities offered only in connection with dividend or interest reinvestment plans, check the following box.

If this form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.  $\Box$ 

If this form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.  $\Box$ 

If this form is a registration statement pursuant to General Instruction I.D. or a post-effective amendment thereto that shall become effective upon filing with the Commission pursuant to Rule 462(e) under the Securities Act, check the following box.  $\square$ If this form is a post-effective amendment to a registration statement filed pursuant to General Instruction I.D. filed to register additional securities or additional classes of securities pursuant to Rule 413(b)

under the Securities Act, check the following box.  $\Box$ Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See definitions of "large accelerated filer,"

"accelerated filer," "non-accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

П Large Accelerated Filer Accelerated Filer Non-Accelerated Filer Smaller Reporting Company

### CALCULATION OF REGISTRATION FEE

Title of Each Class of Securities To Be Registered(1)	Amount to be Registered(1)(2)(3)	Proposed Maximum Aggregate Offering Price(2)(3)(4)	Amount Of Registration Fee(5)
Senior Debt Securities			
First Mortgage Bonds			
Series Preferred Stock			
Total	\$2,600,000,000	\$2,600,000,000	\$302,120

- An indeterminate principal amount or number of senior debt securities, first mortgage bonds and series preferred stock, without par value, with an aggregate offering price not to exceed \$2,600,000,000.
- In United States dollars or the equivalent thereof in any other currency, composite currency or currency unit as shall result in a maximum aggregate initial offering price for all offered securities not to
- This amount represents the principal amount or stated value, as applicable, of any offered securities issued at their stated principal amount or stated value, as applicable, and the initial public offering price of any offered securities issued at a discount from the stated principal amount or stated value, as applicable.

  Estimated solely for the purpose of calculating the registration fee, which is calculated in accordance with Rule 457(o) of the rules and regulations under the Securities Act of 1933. Rule 457(o) permits the
- registration fee to be calculated on the basis of the maximum offering price of all of the securities listed and, therefore, the table does not specify by each class information as to the amount to be registered,
- The \$2,600,000,000 of securities registered pursuant to this registration statement includes \$300,000,000 of securities (the "Unsold Securities") registered by Southern California Gas Company pursuant to Registration Statement No. 333-182557 which was initially filed on July 6, 2012 and declared effective on August 16, 2012, pursuant to which a filing fee of \$34,380 was paid for the Unsold Securities. Pursuant to Rule 415(a)(6) under the Securities Act of 1933, as amended, the filing fees previously paid in connection with the Unsold Securities will continue to be applied to the Unsold Securities. filing fee of \$267,260 is paid herewith in connection with the \$2,300,000,000 of new securities registered hereunder.

The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933, or until this registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.

The information in this prospectus is not complete and may be changed. We may not sell these securities until the registration statement filed with the Securities and Exchange Commission is effective. This prospectus is not an offer to sell these securities and it is not soliciting an offer to buy these securities in any state where the offer or sale is not permitted.

**SUBJECT TO COMPLETION, DATED JULY 30, 2015** 

**PROSPECTUS** 

\$2,600,000,000

# **SOUTHERN CALIFORNIA GAS COMPANY**

Senior Unsecured Debt Securities First Mortgage Bonds Series Preferred Stock

We may offer and sell senior debt securities, first mortga offerings. The senior debt securities, the first mortgage bonds a securities." This prospectus provides you with a general descri	and the series preferred stock are o	
Each time we sell offered securities we will provide a su of the particular offered securities being offered at that time. The should carefully read this prospectus and the accompanying process.	he supplement may also add, upda	
Investing in the offered cognities involves vi	sks. See the information w	nder the beading "Dick Easters" on page 2 of
this prospectus, and any similar section contained consider before investing in the offered securities.	l in the applicable prospec	nder the heading " <u>Risk Factors</u> " on page 2 of tus supplement concerning factors you should
Neither the Securities and Exchange Commission nor		
passed upon the adequacy or accuracy of this prospectus. A	any representation to the contra	ry is a Criminai offense.
The date	e of this prospectus is	, 2015

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#### ABOUT THIS PROSPECTUS

This prospectus is part of a "shelf" registration statement that we filed with the United States Securities and Exchange Commission, or the "SEC." By using a shelf registration statement, we may sell up to \$2,600,000,000 aggregate offering price of any combination of the offered securities described in this prospectus from time to time and in one or more offerings. This prospectus only provides you with a general description of the offered securities that we may offer. Each time we sell offered securities, we will provide a supplement to this prospectus that contains specific information about the particular terms of the offered securities being offered at that time. The supplement may also add, update or change information contained in this prospectus. Before purchasing any securities, you should carefully read both this prospectus and the accompanying prospectus supplement, together with the additional information described under the heading "Where You Can Find More Information; Incorporation by Reference."

You should rely only on the information contained or incorporated by reference in this prospectus and in the accompanying prospectus supplement. We have not authorized any other person to provide you with different information. If anyone provides you with different or inconsistent information, you should not rely on it. We will not make an offer to sell the offered securities in any jurisdiction where the offer or sale is not permitted. You should assume that the information appearing in this prospectus and the accompanying prospectus supplement is accurate only as of the dates on their respective covers. Our business, financial condition, results of operations and prospects may have changed since those dates.

### SOUTHERN CALIFORNIA GAS COMPANY

We are the nation's largest natural gas distribution utility and an indirect subsidiary of Sempra Energy, a California-based Fortune 500 energy services holding company. For additional information concerning us, you should refer to the information described under the caption "Where You Can Find More Information; Incorporation by Reference" in this prospectus.

Our offices are located at 555 West Fifth Street, Los Angeles, California 90013 and our telephone number is (213) 244-1200. Our web site is www.socalgas.com. This reference to our web site is not an active hyperlink and the information found on our web site does not constitute a part of this prospectus.

The terms "we," "our" and "us" are used in this document for purposes of convenience and, unless otherwise expressly stated, are intended to refer to Southern California Gas Company and its subsidiaries, either individually or collectively, as the context may require.

# RISK FACTORS

Investment in any securities offered pursuant to this prospectus involves risks. You should carefully consider the risk factors incorporated by reference to our most recent Annual Report on Form 10-K, any subsequent Quarterly Reports on Form 10-Q or Current Reports on Form 8-K and all other information contained or incorporated by reference into this prospectus, as updated by our subsequent filings under the Securities Exchange Act of 1934, as amended, and the risk factors and other information contained in the applicable prospectus supplement before acquiring any of such securities. The occurrence of any of these risks might cause you to lose all or part of your investment in the offered securities.

#### USE OF PROCEEDS

Unless stated otherwise in the applicable prospectus supplement, we will use the net proceeds from the sale of the offered securities to expand and improve our utility plant, to refund and retire indebtedness, for working capital and other general corporate purposes and to replenish funds previously expended for these purposes.

#### RATIO OF EARNINGS TO FIXED CHARGES AND PREFERRED STOCK DIVIDENDS

The following table sets forth the ratio of our earnings to fixed charges and to combined fixed charges and preferred stock dividends for each of the years in the five-year period ended December 31, 2014 and for the three months ended March 31, 2015:

	Years Ended December 31,					Months Ended March 31,
	2014	2013	2012	2011	2010	2015
Ratio of earnings to fixed charges	6.96	7.23	5.72	6.51	7.24	15.05
Ratio of earnings to combined fixed charges and preferred stock dividends	6.79	7.05	5.58	6.35	7.05	15.05

We determine the ratio of earnings to fixed charges by dividing (a) the sum of pretax income from continuing operations (less capitalized interest) and fixed charges by (b) fixed charges consisting of all interest expense (before allowances for borrowed funds used during construction), a portion of rent expenses which approximates the interest component of such expense, and amortization of debt issuance costs.

We determine the ratio of earnings to combined fixed charges and preferred stock dividends by dividing (a) the sum of pretax income from continuing operations (less capitalized interest) and fixed charges by (b) the sum of (i) fixed charges consisting of all interest expense (before allowances for borrowed funds used during construction), a portion of rent expenses which approximates the interest component of such expense, and amortization of debt issuance costs and (ii) preferred stock dividends.

#### **DESCRIPTION OF OFFERED SECURITIES**

The following is a general description of the terms and provisions of the offered securities. These summaries are not meant to be a complete description of each offered security. This prospectus and any prospectus supplement will contain the material terms and conditions for each offered security. A prospectus supplement may add, update or change the terms and conditions of the offered securities as described in this prospectus. For more information about the offered securities, please refer to:

- the indenture between us and U.S. Bank National Association, as trustee, relating to the issuance of each series of senior debt securities by us (the "senior indenture");
- the first mortgage indenture dated October 1, 1940 (the "original indenture") between us and U.S. Bank National Association, as successor trustee, relating to the issuance of each series of first mortgage bonds by us, as amended by supplemental indentures dated as of August 1, 1955, December 1, 1956, June 1, 1965, August 1, 1972, May 1, 1976 and September 15, 1981 (collectively, the "mortgage bond indenture"); and
- the applicable certificate of determination establishing the designation and terms of any series of our series preferred stock we are offering hereunder, which will be filed as an exhibit to the registration statement of which this prospectus is a part or a document incorporated by reference herein, and the description of our series preferred stock contained in our restated articles of incorporation.

These documents or forms of these documents are or will be filed as exhibits to the registration statement of which this prospectus is a part or a document incorporated by reference herein. The indentures are subject to and governed by the Trust Indenture Act of 1939, as amended, and may be supplemented or amended from time to time.

#### DESCRIPTION OF SENIOR DEBT SECURITIES

Unless indicated differently in a prospectus supplement, the following is a general description of the terms and provisions of the senior debt securities we may offer and sell by this prospectus. In this section, references to "indenture" mean the senior indenture and references to "we," "our" and "us" mean, unless otherwise expressly stated or the context otherwise requires, Southern California Gas Company excluding its subsidiaries.

The senior debt securities will be governed by the indenture. The indenture gives us broad authority to set the particular terms of each series of senior debt securities, including the right to modify certain of the terms contained in the indenture. The particular terms of a series of senior debt securities and the extent, if any, to which the particular terms of the issue modify the terms of the indenture will be described in the prospectus supplement relating to such series of senior debt securities.

The indenture contains the full legal text of the matters described in this section. Because this section is a summary, it does not describe every aspect of the senior debt securities or the indenture. This summary is subject to and qualified in its entirety by reference to all the provisions of the indenture, including definitions of terms used in the indenture. We also include references in parentheses to particular sections of the indenture. Whenever we refer to particular sections or defined terms of the indenture in this prospectus or in a prospectus supplement, the sections or defined terms are incorporated by reference into this prospectus or in the prospectus supplement. This summary also is subject to and qualified by reference to the description of the terms of a particular series of senior debt securities described in the applicable prospectus supplement.

#### General

We may issue an unlimited amount of senior debt securities under the indenture in one or more series. We are not required to issue all senior debt securities of one series at the same time and, unless otherwise provided in a prospectus supplement, we may reopen a series, without the consent of the holders of the senior debt securities of that series, for issuances of additional senior debt securities of that series. The senior debt securities will be our unsecured obligations.

Prior to the issuance of each series of senior debt securities, the terms of the particular securities will be specified in either a supplemental indenture or a board resolution and one or more officers' certificates. We refer you to the applicable prospectus supplement for a description of the following terms of each series of senior debt securities:

- the title of the senior debt securities;
- any limit upon the aggregate principal amount of the senior debt securities;
- the date or dates on which principal will be payable or the method of determining such date or dates;
- the rate or rates or method of determination of interest; the date or dates from which interest will accrue; the dates on which interest will be payable, which we refer to as the "interest payment dates"; the manner (if any) of determination of such interest payment dates; and any record dates for the interest payable on the interest payment dates:
- any obligation or option we have to redeem or purchase senior debt securities, or any option of the registered holder to require us to redeem or repurchase senior debt securities, and the terms and conditions upon which the senior debt securities will be redeemed or purchased;
- the denominations in which the senior debt securities will be issuable, if other than denominations of \$1,000 and any integral multiple thereof;
- whether the senior debt securities are to be issued in whole or in part in the form of one or more global debt securities and, if so, the identity of the depositary for the global debt securities;

- any addition, modification or deletion of any events of default or covenants provided in the indenture with respect to the senior debt securities
  and any change in the acceleration provisions with respect to the senior debt securities; and
- any other terms of the senior debt securities that may be different from those described below.

(See Section 301.)

#### **Ranking**

The senior debt securities will be our unsecured and unsubordinated obligations. The indebtedness represented by the senior debt securities will rank equally with all our other unsecured and unsubordinated debt. The senior debt securities are our obligations exclusively, and are not the obligations of our subsidiaries or our parent. Although the senior debt securities will be our senior unsubordinated obligations, the outstanding first mortgage bonds will have a claim to the assets securing the first mortgage bonds prior to any claim by holders of the senior debt securities.

#### Payment of Senior Debt Securities—Interest

We will pay interest on the senior debt securities on each interest payment date by check mailed to the person in whose name the senior debt securities are registered as of the close of business on the regular record date relating to the interest payment date.

However, if we default in paying interest on a senior debt security, we will pay defaulted interest in either of the two following ways:

- We will first propose to the trustee a payment date for the defaulted interest. Next, the trustee will choose a special record date for determining which registered holders are entitled to the payment. The special record date will be from 10 to 15 days before the proposed payment date. Finally, we will pay the defaulted interest on the payment date to the registered holder of the senior debt securities as of the close of business on the special record date.
- Alternatively, we can propose to the trustee any other lawful manner of payment that is consistent with the requirements of any securities
  exchange on which the senior debt securities are listed for trading. If the trustee thinks the proposal is practicable, payment will be made as
  proposed.

(See Section 307.)

#### Payment of Senior Debt Securities—Principal

We will pay principal of and any premium on the senior debt securities at stated maturity, upon redemption or as otherwise required, upon presentation of the senior debt securities at the office of the trustee, as paying agent. Any other paying agent initially designated for the senior debt securities of a particular series will be named in the applicable prospectus supplement. In our discretion, we may appoint one or more additional paying agents and security registrars and designate one or more additional places for payment and for registration of transfer. Unless otherwise specified in the applicable prospectus supplement, a place for payment and registration of transfer of the senior debt securities will be provided in the Borough of Manhattan, the City of New York, New York. (See Section 1002.)

If any interest payment date, redemption date or the maturity date of the senior debt securities is not a business day at any place of payment, then payment of the principal, premium, if any, and interest may be made on the next business day at that place of payment. In that case, no interest will accrue on the amount payable for the period from and after the applicable interest payment date, redemption date or maturity date, as the case may be.

### Form; Transfers; Exchanges

The senior debt securities initially will be issued in book-entry form and represented by one or more global securities deposited with, or on behalf of, The Depository Trust Company ("DTC"), as depositary, and registered in the name of Cede & Co., its nominee. This means that you will not be entitled to receive a certificate for the senior debt securities that you purchase except under the limited circumstances described below under the caption "Global Securities." If any of the senior debt securities are issued in certificated form they will be issued only in fully registered form without coupons, in denominations of \$1,000 and integral multiples of \$1,000.

So long as the senior debt securities are in book-entry form, you will receive payments and may transfer senior debt securities only through the facilities of DTC and its direct and indirect participants as described below under the caption "Global Securities." We will maintain an office or agency in the Borough of Manhattan, The City of New York where notices and demands in respect of the senior debt securities and the indenture may be delivered to us and where certificated senior debt securities including the senior debt securities may be surrendered for payment, registration of transfer or exchange. That office or agency will initially be an office of the trustee, which is currently located at 100 Wall Street, Suite 1600, New York, New York 10005.

You may have your senior debt securities divided into senior debt securities of smaller authorized denominations, or combined into senior debt securities of larger authorized denominations, as long as the total principal amount is not changed. This is called an "exchange." (See Section 305.)

You may exchange or transfer senior debt securities at the office of the trustee. The trustee acts as our agent for registering senior debt securities in the names of holders and transferring senior debt securities. We may appoint another agent or act as our own agent for this purpose. The entity performing the role of maintaining the list of registered holders is called the "security registrar." It will also perform transfers. (See Section 305.)

In our discretion, we may change the place for registration of transfer of the senior debt securities and may remove and/or appoint one or more additional security registrars. (See Sections 305 and 1002.)

Except as otherwise provided in a prospectus supplement, there will be no service charge for any transfer or exchange of the senior debt securities, but you may be required to pay a sum sufficient to cover any tax or other governmental charge payable by us in connection with the transfer or exchange. We may block the transfer or exchange of (a) senior debt securities during a period of 15 days prior to giving any notice of redemption or (b) any senior debt security selected for redemption in whole or in part, except the unredeemed portion of any senior debt security being redeemed in part. (See Section 305.)

### **Optional Redemption**

The redemption provisions, if any, applicable to the senior debt securities will be set forth in the applicable prospectus supplement.

We will mail notice of any redemption at least 30 days, but not more than 60 days, before the redemption date to each registered holder of the senior debt securities to be redeemed. Once notice of redemption is mailed, the senior debt securities called for redemption will become due and payable on the redemption date and at the applicable redemption price, plus accrued and unpaid interest to the redemption date. If we elect to redeem all or a portion of the senior debt securities, that redemption will not be conditional upon receipt by the paying agent or the trustee of monies sufficient to pay the redemption price. (See Section 1104.)

Senior debt securities will cease to bear interest on the redemption date. We will pay the redemption price and any accrued interest once the senior debt securities are surrendered for redemption. (See Section 1105.) If only part of a senior debt security is redeemed, the trustee will deliver new senior debt securities of the same series for the remaining portion without charge. (See Section 1106.) Unless we default in payment of the redemption price, on and after the redemption date interest will cease to accrue on the senior debt securities or portions thereof called for redemption.

In the event that we elect to redeem only a portion of the senior debt securities, the senior debt securities to be redeemed will be selected in accordance with the procedures of DTC, in the case of senior debt securities represented by a global security, or by the trustee by a method the trustee deems to be fair and appropriate, in the case of senior debt securities that are not represented by a global security.

### **Events of Default**

An "event of default" occurs with respect to the senior debt securities of any series if:

- we do not pay interest on any senior debt securities of the applicable series within 30 days of the due date;
- we do not pay the principal of or premium on any senior debt securities of the applicable series on the due date;
- · we do not make a sinking fund payment when due by the terms of senior debt securities of the applicable series;
- we remain in breach of a covenant or warranty (excluding covenants and warranties solely applicable to another series of debt securities issued under the indenture) in the indenture or the senior debt securities of the applicable series for 60 days after we receive a written notice of default stating we are in breach and requiring remedy of the breach; the notice must be sent by either the trustee or registered holders of at least 25% of the principal amount of the outstanding senior debt securities of the affected series;
- · we file for bankruptcy or other specified events in bankruptcy, insolvency, receivership or reorganization occur; or
- any other event of default specified in the prospectus supplement for such series occurs.

(See Section 501.)

No event of default with respect to a series of senior debt securities necessarily constitutes an event of default with respect to the senior debt securities of any other series issued under the indenture.

### Remedies

Acceleration

If an event of default occurs and is continuing with respect to any series of senior debt securities, then either the trustee or the registered holders of at least 25% in principal amount of the outstanding senior debt securities of that series may declare the principal amount of all of the senior debt securities of that series, together with accrued and unpaid interest thereon, to be due and payable immediately. (See Section 502.)

Rescission of Acceleration

After the declaration of acceleration has been made with respect to any series of senior debt securities and before the trustee has obtained a judgment or decree for payment of the money due, the declaration and its consequences will be rescinded and annulled, if:

(a) we pay or deposit with the trustee a sum sufficient to pay:

- all overdue interest on the senior debt securities of that series, other than interest which has become due by declaration of acceleration;
- the principal of and any premium on the senior debt securities of that series which have become due, otherwise than by the declaration of acceleration, and overdue interest on these amounts;
- interest on overdue interest, other than interest which has become due by declaration of acceleration, on the senior debt securities of that series to the extent lawful;

• all amounts due to the trustee under the indenture; and

(b) all events of default with respect to the senior debt securities of that series, other than the nonpayment of the principal and interest which has become due solely by the declaration of acceleration, have been cured or waived as provided in the indenture.

(See Section 502.)

For more information as to waiver of defaults, see "Waiver of Default and of Compliance" below.

Control by Registered Holders; Limitations

If an event of default with respect to the senior debt securities of any series occurs and is continuing, the registered holders of a majority in principal amount of the outstanding senior debt securities of that series, voting as a single class, without regard to the holders of outstanding senior debt securities of any other series that may also be in default, will have the right to direct the time, method and place of:

- · conducting any proceeding for any remedy available to the trustee with respect to the senior debt securities of that series; and
- exercising any trust or power conferred on the trustee with respect to the senior debt securities of that series.

These rights of registered holders to give directions are subject to the following limitations:

- the registered holders' directions do not conflict with any law or the indenture; and
- the direction is not unduly prejudicial to the rights of holders of the senior debt securities of that series who do not join in that action.

The trustee may also take any other action it deems proper which is consistent with the registered holders' direction. (See Sections 512 and 603.)

In addition, the indenture provides that no registered holder of senior debt securities of any series will have any right to institute any proceeding, judicial or otherwise, with respect to the indenture or for the appointment of a receiver or for any other remedy under the indenture unless:

- that registered holder has previously given the trustee written notice of a continuing event of default;
- the registered holders of at least 25% in aggregate principal amount of the outstanding senior debt securities of that series have made written request to the trustee to institute proceedings in respect of that event of default and have offered the trustee reasonable indemnity against costs and liabilities incurred in complying with the request; and
- for 60 days after receipt of the notice, the trustee has failed to institute a proceeding and no direction inconsistent with the request has been given to the trustee during the 60-day period by the registered holders of a majority in aggregate principal amount of outstanding senior debt securities of that series.

Furthermore, no registered holder will be entitled to institute any action if and to the extent that the action would disturb or prejudice the rights of other registered holders of senior debt securities. (See Section 507.)

However, each registered holder has an absolute and unconditional right to receive payment when due and to bring a suit to enforce that right. (See Section 508.)

Notice of Default

The trustee is required to give the registered holders of senior debt securities of the affected series notice of any default under the indenture to the extent required by the Trust Indenture Act; except that in the case of an event of default of the character specified above in the fourth bullet under the caption "Events of Default," no notice will be given to such registered holders until at least 30 days after the occurrence of the default. The Trust Indenture Act currently permits the trustee to withhold notices of default (except for certain payment defaults) if the trustee in good faith determines the withholding of the notice to be in the interests of the registered holders. (See Section 602.)

We will furnish the trustee with an annual statement as to our compliance with the conditions and covenants in the indenture. (See Section 1005.)

Waiver of Default and of Compliance

The registered holders of a majority in aggregate principal amount of the outstanding senior debt securities of any series, voting as a single class, without regard to the holders of outstanding senior debt securities of any other series, may waive, on behalf of all registered holders of the senior debt securities of that series, any past default under the indenture, except a default in the payment of principal, premium or interest, or with respect to compliance with certain provisions of the indenture that cannot be amended without the consent of the registered holder of each outstanding senior debt security of that series. (See Section 513.)

Compliance with certain covenants in the indenture or otherwise provided with respect to senior debt securities of any series may be waived by the registered holders of a majority in aggregate principal amount of the senior debt securities of that series. (See Section 1006.)

### Consolidation, Merger and Conveyance of Assets as an Entirety; No Financial Covenants

We have agreed not to consolidate or merge with or into any other entity, or to sell, transfer, lease or otherwise convey any of our property and assets as an entirety or substantially as an entirety to any entity, unless:

- we are the continuing entity (in the case of a merger) or the successor entity formed by such consolidation or into which we are merged or which acquires by sale, transfer, lease or other conveyance our property and assets, as an entirety or substantially as an entirety, is a corporation organized and existing under the laws of the United States of America or any state thereof or the District of Columbia, and expressly assumes, by supplemental indenture, the due and punctual payment of the principal, premium and interest on all the senior debt securities and the performance of all of the covenants under the indenture; and
- immediately after giving effect to the transaction, no event of default, and no event which after notice or lapse of time or both would become an event of default, has or will have occurred and be continuing.

The indenture does not contain any financial or other similar restrictive covenants.

(See Section 801.)

# **Modification of Indenture**

Without Registered Holder Consent

Without the consent of any registered holders of senior debt securities, we and the trustee may enter into one or more supplemental indentures for any of the following purposes:

- to evidence the succession of another entity to us; or
- to add one or more covenants for the benefit of the holders of all or any series of senior debt securities or to surrender any right or power conferred upon us; or

- to add any additional events of default for all or any series of senior debt securities; or to change or eliminate any provision of the indenture so long as the change or elimination does not apply to any senior debt securities entitled to the benefit of such provision; or to add any new provision to the indenture, in addition to the provisions which may otherwise be added to the indenture pursuant to the other clauses of this paragraph, so long as the addition does not apply to any outstanding senior debt securities; or
- to provide security for the senior debt securities of any series; or
- to establish the form or terms of senior debt securities of any series, as permitted by the indenture; or
- to evidence and provide for the acceptance of appointment of a separate or successor trustee; or
- to cure any ambiguity, defect or inconsistency or to make any other changes with respect to any series of senior debt securities that do not adversely affect the interests of the holders of senior debt securities of that series in any material respect.

(See Section 901.)

With Registered Holder Consent

Subject to the following sentence, we and the trustee may, with some exceptions, amend or modify the indenture with the consent of the registered holders of at least a majority in aggregate principal amount of the senior debt securities of each series affected by the amendment or modification. However, no amendment or modification may, without the consent of the registered holder of each outstanding senior debt security affected thereby:

- change the stated maturity of the principal or interest on any senior debt security or reduce the principal amount, interest or premium payable or change any place of payment where or the currency in which any senior debt security is payable, or impair the right to bring suit to enforce any payment;
- · reduce the percentages of registered holders whose consent is required for any supplemental indenture or waiver; or
- modify certain of the provisions in the indenture relating to supplemental indentures and waivers of certain covenants and past defaults.

A supplemental indenture which changes or eliminates any provision of the indenture expressly included solely for the benefit of holders of senior debt securities of one or more particular series will be deemed not to affect the interests under the indenture of the holders of senior debt securities of any other series.

(See Section 902.)

### **Defeasance**

The indenture provides, unless the terms of the particular series of senior debt securities provide otherwise, that we may, upon satisfying several conditions, be discharged from our obligations, with some exceptions, with respect to any series of senior debt securities, which we refer to as "defeasance."

One condition we must satisfy is the irrevocable deposit with the trustee, in trust, of money and/or government obligations which, through the scheduled payment of principal and interest on those obligations, would provide sufficient funds to pay the principal of and any premium and interest on those senior debt securities on the maturity dates of the payments or upon redemption.

In addition, we will be required to deliver an opinion of counsel to the effect that a holder of senior debt securities will not recognize income, gain or loss for federal income tax purposes as a result of the defeasance

and will be subject to federal income tax on the same amounts, at the same times and in the same manner as if that defeasance had not occurred. The opinion of counsel must be based upon a ruling of the Internal Revenue Service or a change in law after the date of the indenture.

(See Article XIII.)

### **Satisfaction and Discharge**

The indenture will cease to be of further effect with respect to any series of senior debt securities, and we will be deemed to have satisfied and discharged all of our obligations under the indenture, except as noted below, when:

- all outstanding senior debt securities of such series have become due or will become due within one year at their stated maturity or on a redemption date; and
- we deposit with the trustee, in trust, funds that are sufficient to pay and discharge all remaining indebtedness on the outstanding senior debt securities of such series.

We will remain obligated to pay all other amounts due under the indenture and to perform certain ministerial tasks as described in the indenture.

(See Section 401.)

#### Resignation and Removal of the Trustee; Deemed Resignation

The trustee with respect to any series of senior debt securities may resign at any time by giving us written notice. The trustee may also be removed with respect to the senior debt securities of any series by act of the registered holders of a majority in principal amount of the then outstanding senior debt securities of such series. No resignation or removal of the trustee and no appointment of a successor trustee will become effective until the acceptance of appointment by a successor trustee in accordance with the requirements of the indenture. Under certain circumstances, we may appoint a successor trustee with respect to such series and if the successor trustee accepts, the trustee will be deemed to have resigned. (See Section 610.)

#### **Miscellaneous Provisions**

The indenture provides that certain senior debt securities, including those for which payment or redemption money has been deposited or set aside in trust as described under the caption "Satisfaction and Discharge" above, will not be deemed to be "outstanding" in determining whether the registered holders of the requisite principal amount of the outstanding senior debt securities have given or taken any demand, direction, consent or other action under the indenture as of any date, or are present at a meeting of registered holders for quorum purposes. (See Section 101.)

We will be entitled to set any day as a record date for the purpose of determining the registered holders of outstanding senior debt securities of any series entitled to give or take any demand, direction, consent or other action under the indenture, in the manner and subject to the limitations provided in the indenture. In certain circumstances, the trustee also will be entitled to set a record date for action by registered holders of any series. If a record date is set for any action to be taken by registered holders of particular senior debt securities, the action may be taken only by persons who are registered holders of the respective senior debt securities on the record date. (See Section 104.)

#### **Governing Law**

The indenture and the related senior debt securities will be governed by and construed in accordance with the laws of the State of New York. (See Section 112.)

#### DESCRIPTION OF FIRST MORTGAGE BONDS

Unless indicated differently in a prospectus supplement, the following is a general description of the terms and provisions of the first mortgage bonds we may offer and sell by this prospectus. In this section, references to the "bonds" mean the first mortgage bonds, references to "indenture" mean the mortgage bond indenture and references to "we," "our" and "us" mean, unless otherwise expressly stated or the context otherwise requires, Southern California Gas Company excluding its subsidiaries.

The bonds will be governed by the indenture. The indenture gives us broad authority to set the particular terms of each series of bonds, including the right to modify certain of the terms contained in the indenture. The particular terms of a series of bonds and the extent, if any, to which the particular terms of the issue modify the terms of the indenture will be described in the prospectus supplement relating to such series of bonds.

The indenture contains the full legal text of the matters described in this section. Because this section is a summary, it does not describe every aspect of the bonds or the indenture. This summary is subject to and qualified in its entirety by reference to all the provisions of the indenture, including definitions of terms used in the indenture. We also include references in parentheses to particular sections of the indenture. Whenever we refer to particular sections or defined terms of the indenture in this prospectus or in a prospectus supplement, the sections or defined terms are incorporated by reference into this prospectus or in the prospectus supplement. This summary also is subject to and qualified by reference to the description of the terms of a particular series of bonds described in the applicable prospectus supplement.

#### General

We may issue bonds under the indenture in one or more series, subject to the limitations described below under the caption "Issuance of Additional Bonds." Bonds in registered form may be issued in denominations of \$1,000, \$5,000, \$10,000, \$25,000 or integral multiples of \$25,000. Unless specified otherwise in the applicable prospectus supplement, the bonds will be issued in book-entry form as described under the caption "Global Securities" in this prospectus. Bonds will be payable, exchangeable for bonds of other authorized denominations and transferable at the principal office of the trustee, in San Francisco, California and any other places designated by us for payment. (Section 2.01)

Prior to the issuance of each series of bonds, the terms and conditions of the particular series of bonds will be specified in a supplemental indenture. We refer you to the applicable prospectus supplement for a description of the following terms of each series of bonds:

- the title or designation of the bonds;
- the aggregate principal amount of the bonds in such series;
- the date or dates on which principal will be payable or how to determine the dates;
- the rate or rates or method of determining interest, the date from which interest will accrue, the dates on which interest will be payable, which we refer to as the "interest payment dates," and any record dates for the interest payable on the interest payment dates;
- whether we will have any obligation or option to redeem, purchase or repay bonds of such series prior to their maturity and the terms and conditions upon which the bonds may be redeemed, purchased or repaid;
- · whether the bonds will be entitled to the benefits of any purchase, sinking, improvement or trust fund;
- whether the bonds will be issuable as coupon bonds, fully registered bonds without coupons or, if provided in a supplemental indenture, as global securities (as defined below under the caption "Global Securities"); and
- any other terms and conditions of the bonds that may supplement those described below. (See Section 2.01.)

#### **Issuance of Additional Bonds**

Additional bonds secured by the indenture may be issued in a maximum aggregate principal amount equal to the sum of:

- 66 <sup>2</sup>/<sub>3</sub>% of the Net Bondable Value of Property Additions that have not been applied to other indenture purposes; (See Section 4.04.)
- 100% of the amount of cash deposited with the trustee for the purpose of issuing additional bonds; (See Section 4.05.) and
- 100% of the aggregate principal amount of Refundable Bonds, which include bonds that have been retired by payment at maturity, redemption or purchase (other than through sinking fund payments or other funds deposited with the trustee as Mortgaged Property) and not applied to other indenture purposes. (See Section 4.06.)

However, the aggregate principal amount of bonds that we can issue under the indenture may not exceed 50% of our Net Investment in Mortgaged Property, after giving effect to the issuance of such additional bonds. (See Section 4.01.) In addition, no additional bonds may be issued under the indenture (except under certain circumstances relating to those issued on the basis of Refundable Bonds) unless the Net Earnings of the Corporation Available for Interest for any 12 consecutive months in the past 15 months equals at least twice our annual interest charges on the sum of (i) all the bonds outstanding under the indenture and such additional bonds, (ii) in the event of our consolidation or merger or transfer of all of our property as an entirety, the indebtedness of any successor corporation maturing more than one year from the date of its issuance, but only if such successor corporation does not secure the bonds with a lien on all of its property, other than Excepted Property, and (iii) all of our indebtedness secured by any of the Mortgaged Property in priority to or pari passu with the lien securing the bonds. (See Section 4.03.) Other than as described above, the indenture does not limit the amount of indebtedness that we may incur. However, our issuance of long-term indebtedness is regulated by the California Public Utilities Commission.

Additional bonds which may be issued may vary from any existing bonds as to maturity, interest rate, redemption, sinking fund and in certain other respects as described above under the caption "General."

### Security for the Bonds

The bonds will be secured by the indenture which constitutes a first lien upon all of our real and personal property, other than Excepted Property, subject to easements, rights of way, conditions, reservations and restrictions of record, and to the lien of taxes and assessments not delinquent, and also subject to Permissible Encumbrances, purchase money liens, liens existing on property at the time such property was acquired by us, liens resulting from claims and demands of mechanics, laborers and others the validity of which are being contested in good faith and the prior lien securing the trustee's right to compensation, reimbursement and indemnity. (See Sections 5.09 and 5.10). All of the bonds issued under the indenture will be equally and ratably secured by the indenture, subject to the provisions relating to any sinking or similar fund for the benefit of any bonds of a particular series and other than cash held by the trustee for the payment of particular bonds (See Sections 5.03 and 10.12).

Subject to limitations and exceptions described in the indenture, all property acquired by us after the date of the indenture, other than Excepted Property, will be further security as described in the indenture. (See Section 5.09.) In addition, the indenture creates a lien on the Mortgaged Property prior to the lien securing the bonds, in order to secure the trustee's right to compensation, reimbursement and indemnity. (See Sections 5.17, 6.04, 9.26, 14.10 and 14.11.)

### **Ranking**

The bonds of each series will be our secured and unsubordinated obligations and will rank equally in right of payment with all other bonds issued under the indenture. The bonds will rank first in right of payment with

respect to proceeds from Mortgaged Property (subject to easements, rights of way, conditions, reservations and restrictions of record, and to the lien of taxes and assessments not delinquent, and also subject to Permissible Encumbrances, purchase money liens, liens existing on property at the time such property was acquired by us, liens resulting from claims and demands of mechanics, laborers and others the validity of which are being contested in good faith, and the prior lien securing the trustee's right to compensation, reimbursement and indemnity), and otherwise will rank equal in right of payment with all of our other unsubordinated and unsecured indebtedness. The bonds are our obligations exclusively, and are not the obligations of any of our subsidiaries or affiliates.

### Payment of Bonds—Principal and Interest

We will pay principal of the bonds at stated maturity, upon redemption or otherwise, upon presentation of the bonds at the office of the trustee, as our paying agent. We will make payments on the bonds in book-entry form to DTC or its nominee, as the registered owner of the bonds, by wire transfer of immediately available funds. If bonds are issued in definitive certificated form under the limited circumstances described below under the caption "Global Securities," we will have the option of paying interest by check mailed to the addresses of the persons entitled to payment or by wire transfer to bank accounts in the United States designated in writing to the trustee at least 15 days before the payment date by the persons entitled to payment.

#### Form; Transfers; Exchanges

Bonds may be issued in denominations of \$1,000, \$5,000, \$10,000, \$25,000 or integral multiples of \$25,000. Unless otherwise indicated in the applicable prospectus supplement, the bonds will be issued in book-entry form represented by one or more global securities deposited with, or on behalf of, DTC, as depositary, and registered in the name of Cede & Co., its nominee. You will not be entitled to receive a certificate for the bonds in book-entry form that you purchase except under the limited circumstances described below under the caption "Global Securities."

You will receive payments and may transfer bonds in book-entry form only through the facilities of DTC and its direct and indirect participants as described below under the caption "Global Securities." We will maintain an office or agency where notices and demands in respect of the bonds and the indenture may be delivered to us and where certificated bonds may be surrendered for payment, registration of transfer or exchange, which will be at the principal office of the trustee, in San Francisco, California, and any other places specified in the applicable prospectus supplement. (See Sections 2.01, 2.03 and 2.04.)

### **Optional Redemption**

Unless specified otherwise in an applicable prospectus supplement, we may redeem at our option at any time or from time to time all or any part of the bonds of any applicable series that we may offer and sell by such prospectus supplement at the redemption price specified therein for that respective series of bonds. In the event that we elect to redeem only a portion of a series of bonds, the bonds to be redeemed shall be selected by the trustee by lot or in such manner as it shall deem fair and, in the case of bonds represented by a global security, in accordance with the procedures of DTC. (See Section 7.01.)

We will mail notice of any redemption at least 30 days but not more than 60 days before the redemption date to each holder of the bonds to be redeemed. (See Section 7.02.) On or prior to the redemption date, we will deposit with the trustee a sum of money sufficient to redeem the bonds to be held in trust for the account of the holders thereof. (See Section 7.03.) Following notice of redemption and deposit of the redemption price with the trustee on or before the applicable redemption date, interest on the bonds or portions thereof called for redemption shall cease to accrue from and after such redemption date. Upon surrender of the bonds, we will pay the holders of the surrendered bonds the principal and accrued interest of the redeemed bonds or, if only a portion of the principal of a particular bond is being redeemed, that portion of the principal and interest attributable to such redeemed portion. (See Sections 7.04 and 7.05.) All of the bonds redeemed and paid shall be cancelled. (See Section 7.06.)

#### **Renewal Fund**

We will pay to the trustee annually on April 1, as a renewal fund, an amount equal to (1) the amounts actually appropriated by us from earnings during the preceding calendar year as provisions for depreciation, depletion and retirements of Mortgaged Property and, if such appropriations are calculated on a sinking fund or similar compound interest method, including the portion thereof representing interest accrual as well as the portion thereof representing the annuity charge, *minus* (2) credits (which may include credits from prior years), taken at our option, for:

- payments in cash or bonds made by us to a sinking fund or a similar fund under which cash paid to the trustee is to be used only to retire bonds;
- the lesser of the cost or fair value of specified Property Additions purchased, constructed or otherwise acquired by us;
- the lesser of the cost or fair value of certain additions to properties securing bonds established as refundable pursuant to the indenture; and
- the principal amount of certain bonds which have been purchased, paid, redeemed, cancelled or otherwise retired, and which have not been used nor will be available for any other indenture purpose, including the issuance of additional bonds. (See Sections 8.02 and 8.04.)

Renewal fund payments that we pay in cash and any other monies held by the trustee as part of the Mortgaged Property may, at our option:

- be withdrawn by us, subject to certain conditions, in an amount equal to the lesser of the cost or fair value of specified Property Additions purchased, constructed or otherwise acquired by us, or in an amount equal to the amount of Refundable Bonds made the basis for withdrawal; or
- be applied to the purchase or redemption of any outstanding bonds.

(See Sections 8.06, 10.08, 10.09 and 10.11.)

Instead of making all or any portion of such a payment in cash, we may deliver outstanding bonds to the trustee, which will be deemed equivalent to payment of cash in an amount equal to the aggregate principal amount of the bonds so delivered. (See Section 8.05.)

At our election, the amount of any required renewal fund payment may be reduced by an amount equal to the amount of cash which, assuming that the renewal fund payments required to be made pursuant to the indenture had actually been made in cash, could at the time be withdrawn under the indenture. (See Section 8.06.) Any payments that we make to the renewal fund are in addition to the expenditures we are required to make for maintenance.

#### Consolidation, Merger and Transfer of Assets

Nothing in the indenture or in the bonds outstanding under the indenture prevents us from consolidating or merging with or into any corporation or selling all of our property as an entirety subject to the continuing lien of the indenture, *provided* that:

- the terms of the consolidation, merger or sale preserve and do not impair the lien or the security under the indenture, and the rights and powers of the trustee and the holders of the bonds outstanding under the indenture;
- in the case of a merger or consolidation, the successor corporation expressly assumes the due and punctual payment of the principal and interest of all the bonds and the performance and observance of all of the covenants and conditions of the indenture; and
- in the case of a sale of all of our property as an entirety, the corporation to which we sell all our property assumes the due and punctual payment of principal and interest of all the bonds, assumes the

performance of all covenants and conditions of the indenture and executes and delivers an indenture to the trustee whereby the purchasing corporation agrees to assume such payment and performance and charge therewith the property so taken over. (See Section 15.01.)

If we consolidate with or merge with another corporation or in the case of a sale of our property as an entirety, the successor corporation formed by such consolidation or into which we shall have merged or to which such sale shall have been made, upon executing and causing to be recorded an indenture to the trustee, shall succeed to and be substituted for us under the indenture and the bonds. (See Section 15.02.) Notwithstanding the foregoing, the indenture shall not be a lien or charge on any properties of the successor corporation, whether owned at the time of such transaction or thereafter acquired, except for the properties subject to the lien of the indenture prior to such transaction (and all substitutions, replacements, accessions, additions, alterations, improvements, betterments, developments, extensions and enlargements to, of or upon any of the properties which then are or may thereafter become subject to the lien of the indenture) and any property which the successor corporation may voluntarily subject to the lien of the indenture. (See Section 15.03.)

#### **Certain Covenants**

Subject to the terms of the indenture and in addition to the covenants otherwise specified above, we covenant in the indenture that, among other things, we will:

- keep, or cause to be kept, proper records and accounts of corporate dealings, including proper and complete records reflecting credits to our
  capital and property accounts, and we will furnish statements upon demand as reasonably required by the trustee; (See Section 5.06.)
- subject to easements, rights of way, conditions, reservations and restrictions of record and to the lien of taxes and assessments not delinquent, not voluntarily create any lien or charge (other than Permissible Encumbrances, purchase money liens, liens existing on property at the time such property was acquired by us, liens resulting from claims and demands of mechanics, laborers and others the validity of which are being contested in good faith, and the prior lien securing the trustee's right to compensation, reimbursement and indemnity) that would be prior to the lien of the indenture upon the Mortgaged Property; (See Sections 5.09 and 14.10.)
- pay or cause to be paid or discharged all taxes, assessments, and governmental charges lawfully imposed on the Mortgaged Property or the lien or interest of the trustee in respect of the Mortgaged Property; however, no such failure to pay or discharge shall be a breach of the indenture if we are disputing it in good faith unless, in the opinion of counsel, Mortgaged Property may be lost or forfeited as a result thereof; (See Section 5.10.)
- file the indenture and any supplemental indenture as may be necessary to preserve and protect the security of the bondholders; (See Section 5.11.)
- maintain, preserve and keep the Mortgaged Property in good repair, working order and condition; (See Section 5.15.) and
- maintain insurance on, or self-insure, the Mortgaged Property, or so much thereof as is customarily so insured by a company of like character, against losses or damages from such risks as are usually insured against by companies similarly situated and operating like properties. (See Section 5.16.)

### **Events of Default**

The following events are defined for all purposes of the indenture (except where the term is otherwise defined for specific purposes) as "events of default":

- failure to pay the principal of any bond secured by the indenture when it becomes due and payable, whether at maturity, as therein expressed, or by declaration or otherwise;
- failure to pay interest upon any bond secured by the indenture for a period of 30 days after it becomes due and payable;

- failure to pay any installment of the sinking fund or renewal fund required by the indenture or of any sinking fund or analogous fund required by any supplemental indenture, for a period of 30 days after it becomes due and payable;
- the expiration of a period of 60 days following:
  - the adjudication of us as bankrupt by any court of competent jurisdiction;
  - the entry of an order approving a petition seeking the reorganization of us under the Federal Bankruptcy Laws or any other applicable law or statute of the United States of America or any state thereof; or
  - the appointment of a trustee or a receiver of all or substantially all of our property;

unless during such period such adjudication, order or appointment of a receiver or trustee shall be vacated;

- the filing by us of a voluntary petition in bankruptcy or the making by us of an assignment for the benefit of creditors; our consenting to the appointment of a receiver or trustee of all or any part of our property; the filing by us of a petition or answer seeking reorganization under the Federal Bankruptcy Laws, or any other applicable law or statute of the United States of America or of any state thereof; or the filing by us of a petition to take advantage of any insolvency act; and
- our failure to perform any other covenant or agreement contained in the indenture or any supplemental indenture or in any bond secured by the indenture for a period of 60 days following the mailing by the trustee to us of a written demand that such failure be cured, such failure not having been cured in the meantime. The trustee may and, if required to do so by the holders of a majority in principal amount of the bonds then outstanding, shall make such demand. (See Section 9.02.)

#### Remedies

#### Acceleration

Upon the occurrence of an event of default, the trustee may, and upon the written request of the holders of a majority in principal amount of all bonds then outstanding under the indenture shall, declare the principal amount of all of the bonds outstanding under the indenture, together with accrued and unpaid interest thereon, to be immediately due and payable. (See Section 9.05.)

### Rescission of Acceleration

At any time after the principal of the bonds shall have been declared due and payable and before any sale of the Mortgaged Property shall have been made pursuant to the indenture,

- all interest in arrears upon such bonds with interest on overdue installments of interest, to the extent that payment of such interest on interest shall be legally enforceable, at the same rate as was borne by the respective bonds on which installments of interest may be overdue,
- together with reasonable charges and expenses of the trustee, its agents and attorneys, and
- all other sums which may be due under the indenture, except the principal of such bonds as shall not have become due and payable by their terms,

shall either by paid by us to those entitled thereto (or to the trustee for their account) or be collected out of the Mortgaged Property, and all other defaults existing under the indenture known to the trustee shall have been cured or provision deemed by the trustee to be adequate therefor shall have been made, or shall have been waived as provided in the indenture, then and in every such case:

(a) the holders of the majority in principal amount of the bonds then outstanding, by written notice to us and the trustee, may waive such default and rescind and annul such declaration and its consequences, or

- (b) if in declaring the principal due, the trustee shall have acted without any request of the bondholders, or upon the request of the holders of less than 25% in principal amount of the bonds outstanding at the time of such request, and if there shall not have been delivered to the trustee and to us written directions to the contrary by the holders of not less than a majority in principal amount of the bonds then outstanding, then such default and its consequences *ipso facto* shall be deemed to be waived, or
- (c) if all such principal and interest which shall have matured otherwise than by such declarations shall have been made good and all other defaults cured or provided for or waived within 30 days after such declaration, then, without regard to any directions by the bondholders, all such defaults and their consequences *ipso facto* shall be deemed to be waived;

and the parties shall be restored to their respective rights and obligations under the indenture as if no default had occurred; but no such waiver of any particular default shall extend to or affect or be deemed a waiver of any other default or impair any right consequent thereon. (See Section 9.05.)

#### Remedies with Respect to Mortgaged Property

To the extent permitted by law, upon the occurrence of an event of default, the trustee may enter, hold, use, operate and manage all or any part of the Mortgaged Property and conduct the business, either personally or through the trustee's agents. Upon every such entry, the trustee, from time to time, either by purchase, repair or construction, may maintain, restore and insure the buildings and structures and property in the same manner and to the same extent as us and may make such repairs, renewals and replacements, improvements, extensions and additions thereto as may seem judicious to the trustee and may deduct such expenses out of the Mortgaged Property. If the trustee enters the Mortgaged Property as aforesaid, the trustee will be entitled to receive the rents, income, issues and profits from the Mortgaged Property and, after deducting the expenses of conducting the business and operating the Mortgaged Property and of all such repairs, renewals and replacements, improvements, extensions and additions and all payments for taxes, assessments, insurance and other proper charges upon the Mortgaged Property, or any part thereof, including reasonable compensation to the trustee and its agents and counsel, will apply such money in the following manner:

- If none of the principal of the bonds has become due, to the payment of the interest in default, in the order of the maturity of such installments of interest, with interest on the overdue installments, to the extent permitted by applicable law, at the rate or rates per annum respectively borne by the bonds on which such interest shall be in default, ratably to the persons entitled thereto; or
- If the principal of any, but not all, of the bonds issued has become due, first to the payment of the accrued interest on all bonds issued then outstanding, with interest on the overdue installments thereof, to the extent permitted by applicable law, at the same rates as were borne by the respective bonds on which such interest shall be in default, in the order of the maturity of the installments, and, second, if any surplus remains, to the payment *pro tanto* of the principal of all the bonds then due, such payment to be made ratably to the persons entitled thereto; or
- If the principal of all the bonds shall have become due, by maturity, declaration or otherwise, to the payment of the whole amount then owing and unpaid upon the bonds outstanding for principal and interest, with interest on overdue principal and installments of interest thereon, to the extent permitted by applicable law, at the rates per annum borne by the respective bonds representing such principal; and in case such proceeds shall be insufficient to pay in full the whole amount so due and unpaid upon such bonds, then to the payment of the principal and interest of such bonds, ratably and without preference or priority of principal over interest or of any installment of interest over any other thereof.

Any surplus remaining after providing for such payments and for the payment of all installments of interest becoming due in the following six months shall be paid over to us, or whosoever may be entitled to receive the same, or as any court of competent jurisdiction may direct. (See Section 9.04.)

If one or more events of default occurs and continues without remedy for the designated period, the trustee may, in every such case, sell the Mortgaged Property or take appropriate judicial proceedings for the enforcement and protection of its rights and the rights of the bondholders. (See Section 9.06.) In the case of the sale of the Mortgaged Property, whether made under the power of sale granted in the indenture or pursuant to judicial proceedings, the principal of all outstanding bonds, if not previously due, shall immediately become due and payable. (See Section 9.14.) The proceeds of any sale of the Mortgaged Property made under the power of sale given by the indenture or pursuant to judicial proceedings, together with any amounts held by the trustee as part of the Mortgaged Property or proceeds thereof (except such part as may be held in trust for payment of bonds already called for redemption or previously matured and matured interest as provided in the indenture), shall be applied as follows:

- first, to the payment of the costs and expenses of such sale, including reasonable compensation to the trustee and its agents and counsel, and of any judicial proceedings, and of all expenses, liabilities and advances made or incurred by the trustee without negligence or bad faith, with interest on such expenses and advances, and to the payment of all taxes, assessments or liens superior to the lien of the indenture;
- second, to the payment of the whole amount then owing and unpaid upon the bonds outstanding for principal and interest, with interest on overdue principal and installments of interest thereon, to the extent permitted by applicable law, at the rate per annum borne by the bonds representing such principal; and in case such proceeds shall be insufficient to pay in full the whole amount so due and unpaid upon such bonds, then to the payment of the principal and interest of such bonds, ratably and without preference or priority of principal over interest or of any installment of interest over any other thereof; and
- third, any surplus shall be paid to us.

### (See Section 9.15.)

In the case of a default in the payment of the principal of any bond that has become due and payable or the payment of interest on any bond for a period of thirty days after such interest has become due and payable, the trustee may recover a judgment, in its own name and as trustee of an express trust, against us for the whole amount of such principal and interest that remains unpaid, together with interest on such unpaid principal and interest to the extent permitted by applicable law. The trustee may file proof of such claim and any other papers or documents as may be necessary or advisable in order to have such claims allowed in judicial proceedings relative to us or our creditors or our property. Any monies collected by the trustee pursuant to any such judgment shall be applied as follows:

- first, to the payment of the costs and expenses of the proceedings resulting in the collection of such monies, including reasonable compensation to the trustee, its agents, attorneys and counsel, and of all expenses, liabilities and advances made or incurred without negligence or bad faith by the trustee under the indenture, or in executing any trust or power thereunder, with interest on such expenses and advances; and
- second, to the payment of the amounts then due and unpaid upon the bonds and/or for interest in respect whereof such monies shall have been collected, ratably and without any preference or priority of any kind (subject to the provisions of Section 9.01 of the indenture described below), according to the amounts due and payable upon such bonds and/or interest respectively, to the date fixed by the trustee for the distribution of such monies, upon presentation of the bonds and stamping such payment thereon, if partly paid, and upon surrender and cancellation thereof, if fully paid.

# (See Section 9.17.)

The indenture provides that neither (a) any claim for interest on any bond which has been extended in contravention of the provisions of the indenture nor (b) any claim for interest on any bond which at or after

maturity has been transferred or pledged separate from such bond, unless accompanied by such bond, shall be entitled, upon any event of default, to any benefit under the indenture, except after the prior payment in full of all bonds and interest thereon not so extended, transferred or pledged. (See Section 9.01.)

Notice Regarding Remedies with Respect to Mortgaged Property

Any foreclosure on the Mortgaged Property by the trustee may be limited by applicable law. With respect to Mortgaged Property located in California, Section 726 of the California Code of Civil Procedure provides that any action to recover on a debt or other right secured by a mortgage or a deed of trust on real property or an estate for years therein must comply with the provisions of that section, which provisions relate to and specify the procedures for the sale of encumbered property or an estate for years therein, the application of proceeds, the rendition in certain cases of a deficiency judgment, and other related matters. Judicial decisions interpreting Section 726 have formulated principles requiring that only one action may be brought to enforce an obligation secured by a lien on California real property, that all security for the obligation must be included in one foreclosure action, and that the creditor must exhaust all of its security before a personal judgment or other recovery may be obtained against the debtor for a deficiency. We advise you that failure to comply with Section 726 as it has been interpreted may result in the extinguishment of the liens on the Mortgaged Property and the loss of your right to a deficiency judgment.

#### Control by Holders; Limitations

The holders of a majority in principal amount of the bonds outstanding under the indenture will have the right to direct the time, method and place of conducting any proceeding for any remedy available to the trustee or exercising any trust or power given to the trustee. The trustee may and, upon written request of the holders of a majority in principal amount of the bonds then outstanding (including, if more than one series of bonds is outstanding, the holders of a majority in principal of the bonds of each such series), shall waive any default under the indenture and its consequences, other than a payment default. (See Sections 9.22 and 9.28.)

In addition, the indenture provides that no holder of bonds will have any right to institute any suit, action or proceeding, at law or in equity, for the foreclosure of the indenture, the execution of any trust with respect to the indenture, the appointment of a receiver, or for any other remedy under the indenture unless:

- the holder has previously given the trustee written notice of a continuing event of default;
- the holders of at least a majority in principal amount of the outstanding bonds have made written request upon the trustee and afforded the trustee a reasonable opportunity to exercise its powers under the indenture or institute the action, suit or proceeding in its own name;
- the trustee has been offered reasonable security and indemnity against costs and liabilities incurred to comply with the request; and
- the trustee has refused or failed to comply with the request within a reasonable time or to take other appropriate action for the enforcement of the indenture. (See Section 9.20.)

No holder will be entitled to take any action to affect, disturb or prejudice the lien of the indenture, or to enforce any right under the indenture, except in the manner specified in the indenture, and actions must be instituted and maintained only according to the procedures established by the indenture and for the equal benefit of all bondholders. Notwithstanding the foregoing, the right of any holder of any bond to receive payment of the principal of and interest on such bond when due, and to institute suit for the enforcement of such payment, shall not be impaired or affected without such holders' consent, except that no holder may institute any such suit to the extent it would impair the lien of the indenture. (See Sections 9.20 and 9.21.)

# **Notice of Default**

The trustee is required to give the bondholders notice of any default under the indenture known to the trustee, unless the default has been cured, within 90 days after the occurrence of the default; *provided*, *however*,

that except in the case of default in the payment of principal or interest of any bonds, or in the payment of any maintenance and sinking fund installment or of any sinking fund or purchase fund installment, the trustee may withhold notice of default if and so long as its board of directors, its executive committee or a trust committee of directors and/or responsible officers of the trustee in good faith determine that the withholding of notice is in the interest of the bondholders. (See Section 9.03.) As used in this paragraph, the term "default" means any event of default, not including any grace period provided for in such event of default.

### **Modification of the Indenture**

The indenture may be modified by us and the trustee with the consent of the holders of at least 66 2/3% in principal amount of the bonds then outstanding, and, in case one or more but less than all series of bonds then outstanding are affected by the modification, by the consent of the holders of at least 66 2/3% in principal amount of the bonds of such series affected; provided that the right of any holder to receive payment of principal and interest when due or the right of any holder to institute a lawsuit to enforce such payment may not be changed without the consent of such holder (except that no bondholder may institute any such lawsuit to the extent it would result in the impairment or loss of the lien of the indenture upon any of the Mortgaged Property), and no such modification shall reduce the proportion of bondholders' consents required for any such modification. (See Sections 9.21 and 16.05.)

We may, without the consent of any bondholders, and at our request the trustee shall, enter into supplemental indentures amending the indenture to, among other things:

- correct the description of any mortgaged property, or to assign, mortgage, pledge or transfer (subject to such liens or other encumbrances as shall be described in such supplement indenture) additional property as security for the bonds;
- evidence the succession of another corporation to us under the indenture;
- provide for the control and the terms and conditions thereof, of all shares of stock, bonds and other securities at any time pledged or deposited with the trustee;
- provide for the appointment of a co-trustee or co-trustees, or a separate trustee or trustees, and define its or their powers and duties;
- · cure any ambiguity or defective provision contained in the indenture or any supplemental indenture;
- modify, to the extent permitted under the indenture, the rights and obligations of us and holders of the bonds; *provided* that such supplemental indenture shall be specifically referred to in the text of all the bonds of any series established after the execution of such supplemental indenture;
- close the indenture, to restrict the issue of additional bonds thereunder or to limit the authorized amount and the issue or purpose of issue of bonds under the indenture; or
- for any other purpose not inconsistent with the terms of the indenture.

Any such supplemental indenture shall comply with the Trust Indenture Act of 1939, as amended, and shall be binding upon the holders of all bonds, as fully as though the provisions of such supplemental indenture were a part of the indenture. (See Sections 16.01 and 16.03.)

# **Defeasance, Cancellation and Discharge**

The lien on our property securing the bonds will be cancelled and discharged when the principal of and interest on the bonds has been paid or when we deposit with the trustee sufficient funds to repay the principal of and interest on all then outstanding bonds, and we request that the Mortgaged Property revert to us and that the lien be cancelled and discharged. Unless we request cancellation and discharge, the lien created by the indenture will not be cancelled and discharged, but shall remain in place for the issuance of future bonds pursuant to the terms of the indenture. (See Sections 11.01 and 11.02.)

#### **Release Provisions**

Unless an event of default has occurred and is continuing, we may, free from the lien of the indenture and at any time, without any release by the trustee, sell, exchange or dispose of worn out, unserviceable, undesirable or unnecessary machinery or equipment, provided we replace the machinery and equipment with other machinery and equipment of equivalent or greater value. (See Section 10.02.) In the absence of the occurrence and continuance of an event of default, we may also at any time and from time to time, without any release by the trustee:

- cancel, modify or dispose of our rights-of-way (including easements and licenses), leases or contracts; provided, that no right-of-way for transmission lines connecting our properties shall be surrendered or disposed of without a release by the trustee unless we own or acquire other rights-of-way for the same portion of such transmission line or a substituted transmission line or unless the property served by such transmission line has been abandoned or released from the lien of the indenture;
- surrender or allow the modification of any franchise (including any ordinances, indeterminate permits or other operating rights), so long as we may still conduct our business in substantially the same territory for the same or a longer time, subject to specified exceptions;
- abandon the operation of any of our properties and surrender any franchises (including any ordinances, indeterminate permits or other operating rights), if the operation of such property or franchise is not necessary or important for the operation of our other systems and plants or where such abandonment or surrender is deemed, for any reason, to be advisable;
- produce, mine, sell or dispose of, free from the lien of the indenture, gas, oil, coal or other minerals, if any, lying or being within or under any real property which is part of the Mortgaged Property; and/or
- dispose of, free from the lien of the indenture, in the ordinary course of business, fuel, repair parts, repair material, operating supplies and commodities that comprise stock or merchandise kept for sale, manufactured commodities, gas and other personal property manufactured or acquired for sale in the ordinary course of business. (See Section 10.03.)

The indenture also contains provisions for the release of property by the trustee (i) upon a sale or other disposition of such property provided that no event of default has occurred and is continuing, that we receive compensation equal to the fair value of the property, that the release is advantageous to the conduct of the business and will not impair the security of the Mortgaged Property under the indenture in contravention of the provisions thereof, and that we deposit cash with the trustee, as part of the Mortgaged Property, in an amount equal to the fair value of the property released (provided that the amount of cash deposited shall be reduced by, among other things, any purchase money mortgages on the property to be released that are deposited with the trustee and by any interest bearing obligations issued by any municipal corporation or other governmental subdivision that are deposited with the trustee; and provided, further, that the cash so deposited may also be reduced by the amount of cash which we could at the time withdraw from the Mortgaged Property on the basis of Property Additions or Refundable Bonds) and (ii) for property taken by eminent domain, provided that the proceeds of any taking by eminent domain are deposited with the trustee. (See Sections 10.04 and 10.05.)

As described above under "—Renewal Fund," we may also withdraw cash that is part of the Mortgaged Property, subject to specified conditions, in an amount equal to the lesser of the cost or fair value of specified Property Additions purchased, constructed or otherwise acquired by us, or in an amount equal to the amount of Refundable Bonds made the basis for withdrawal, or cause cash that is part of the Mortgaged Property to be used to purchase or redeem outstanding bonds, subject to specified conditions. (See Sections 10.08, 10.09 and 10.11.) In addition, any cash in excess of \$100,000 held by the trustee as part of the Mortgaged Property for more than three years after deposit shall be applied by the trustee to the purchase or redemption of outstanding bonds. (See Section 10.11.)

Monies deposited with the trustee upon the release or condemnation of Non-Bondable Property or insurance proceeds deposited with the trustee on account of loss of or damage to Non-Bondable Property shall, at our

request, be paid to us in an amount equal to the lesser of the cost and fair value of other Non-Bondable Property purchased, constructed or otherwise acquired by us, subject to conditions. (See Section 10.10.)

However, unless the Mortgaged Property is in the possession of a receiver, trustee in bankruptcy or assignee for the benefit of creditors, no cash held as part of the Mortgaged Property shall be paid to us or applied to the repurchase or redemption of bonds pursuant to specified sections of the indenture if we are, to the knowledge of the trustee, in default under the indenture or if an event of default has occurred and is continuing. (See Section 10.14.)

### **Evidence of Compliance**

The indenture provides that we will furnish to the trustee officers' certificates, and, in certain cases, engineers' certificates or independent engineers' certificates and independent accountants' certificates in connection with the authentication of any bonds, the release or release and substitution of certain property and certain other matters, and opinions of counsel as to the lien of the indenture and certain other matters.

### **Concerning the Trustee**

U.S. Bank National Association, a national banking association duly organized and existing under the laws of the United States of America, has been appointed as the trustee under the indenture.

The trustee may resign at any time by giving us written notice and by publishing notice in a required newspaper. The resignation will be effective either on the date specified in the notice or on the date of appointment of a successor trustee. The holders of a majority in principal amount of the outstanding bonds may remove the trustee by signing, acknowledging, and filing with the trustee a written instrument or concurrent written instruments. We may appoint a successor trustee unless and until a successor trustee is appointed by the holders of a majority in principal amount of the bonds then outstanding. (See Sections 14.16, 14.17 and 14.18.)

#### No Liability for Stockholders, Directors and Officers

None of our present, past or future stockholders, directors or officers will be liable for any payments of principal or interest on the bonds, or for any claim based on any payment of principal or interest, or on the indenture or any supplemental indenture. (Article XII)

#### **Governing Law**

Each supplemental indenture establishing the terms of a series of bonds shall provide that such bonds, such supplemental indenture and the indenture will be governed by and construed in accordance with the laws of the State of California, without regard (to the extent permitted by applicable law) to conflicts of laws principles thereof.

### **Defined Terms**

Set forth below are certain defined terms used in the indenture and in this description. Reference is made to the indenture for complete definitions of all such terms, as well as any other capitalized terms used in this prospectus for which no definition is provided:

"Bondable Property" means all property owned by us on December 31, 1954, of the same nature as property defined in the indenture as Property Additions, and all Property Additions purchased, constructed, or otherwise acquired by us on or after January 1, 1955.

"Excepted Property" means all of the following property, whether owned on the date of the original indenture or thereafter acquired by us, all of which shall be excepted and excluded from the Mortgaged Property

and the lien of the indenture (as used below in this definition, references to "now" mean October 1, 1940, the date of the original indenture, and references to "hereafter" mean after such date):

- (a) All bills, notes and accounts receivable, cash on hand or in bank, contracts and operating agreements, other than those subjected to the lien of the indenture pursuant to a specified provision thereof, choses in action, and our interest in existing leases in which we are now the lessor and in leases hereafter made of portions of the Mortgaged Property in which we are the lessor;
- (b) Gas, manufactured commodities and other personal property manufactured or acquired for sale in the ordinary course of business; commodities and appliances constituting the whole or any part of stock or merchandise kept for sale; and fuel, repair parts, repair material and operating supplies;
- (c) All motor vehicles and tools therefor;
- (d) Gas, coal, oil or other minerals (when produced or severed);
- (e) Bonds, notes, conditional sales contracts and other evidences of indebtedness, and shares of stock, and other certificates of interest, other than those which may be actually delivered to the trustee pursuant to the indenture;
- (f) Any gas and/or oil acreage, gas and/or oil wells, gas and/or oil reserves, or gas and/or oil leaseholds hereafter acquired by us, or any property or equipment now or hereafter owned by us and used for the development of gas and/or oil acreage or for the drilling for or production of gas and/or oil from such acreage; and
- (g) Certain real property as described in the indenture.

"Gross Property Additions" means, as applied to any particular period, all of the Property Additions purchased, constructed or otherwise acquired by us during such period, including Property Additions purchased, constructed or otherwise acquired during such period, but retired during such period.

"Mortgaged Property" means as of any particular time the property which at said time is covered or intended to be covered by the lien of the indenture; provided that moneys held by the trustee in trust for the payment, at maturity or on a date fixed for redemption, of specific bonds shall not be deemed to be a part of the Mortgaged Property.

"Net Bondable Value of Property Additions" means, at any particular time, the aggregate of the cost to us or, as to such Property Additions which have not been retired, the fair value to us, if the fair value is less than cost, of all Gross Property Additions purchased, constructed or otherwise acquired by us, after deducting therefrom the amounts specified in the following paragraphs (1), (2) and (3) and the greater of the amounts specified in the following paragraphs (A) or (B) after each of the amounts specified in said paragraphs (A) and (B) has been reduced by the amount of all credits taken on the basis of cash and bonds delivered to the trustee:

- (1) the aggregate of:
  - (i) the amount of all cash previously deposited with the trustee which shall have been withdrawn, pursuant to the indenture, on the basis of Property Additions;
  - (ii) the amount by which cash, provided to be deposited with the trustee pursuant to any provision of the indenture, has been reduced pursuant to certain specified provisions of the indenture on the basis of Property Additions;
  - (iii) the amount of all credits taken pursuant to a specified provision of the indenture on the basis of Property Additions; and
  - (iv) the amount by which all credits taken pursuant to a specified provision of the indenture on the basis of Property Additions shall exceed whichever is the greater of the amounts specified in paragraphs (A) or (B) of this definition;

- (2) 150% of the amount of all cash deposited as a basis for issuing additional bonds which is withdrawn pursuant to a specified provision of the indenture:
- (3) 150% of the aggregate principal amount of additional bonds previously authenticated and delivered pursuant to a specified provision of the indenture upon the basis of Property Additions; and
- (A) the sum of all appropriations of earnings for depreciation of Bondable Property made on or after January 1, 1955; or
- (B) the aggregate of:
  - (i) the bonded cost of all Bondable Property previously (but on or after January 1, 1955) retired, excepting property to an amount not exceeding \$5,000,000 owned by us on October 1, 1940, and built for the manufacture of gas from oil, and excepting property mentioned in paragraph (ii) next following;
  - (ii) the excess, if any, of the bonded cost of all Bondable Property
    - (a) previously (but on or after January 1, 1955) released from the lien of the indenture pursuant to a specified provision thereof, over the fair value thereof to us at the time of its release, as stated in an engineer's certificate filed with the trustee or, if an independent engineer's certificate is filed, then as stated in such independent engineer's certificate,
    - (b) previously (but on or after January 1, 1955) taken by exercise of a power of eminent domain, over the proceeds thereof paid to the trustee, and
    - (c) in respect of which cash proceeds from insurance on the Mortgaged Property have previously (but on or after January 1, 1955) been paid to the trustee, over the cash so paid to the trustee in respect thereof.

"Net Earnings of the Corporation Available for Interest" means our net earnings ascertained as follows:

- (a) Our total operating revenues and the net non-operating revenues of our properties shall be ascertained by us.
- (b) From the total, determined as provided in subdivision (a), there shall be deducted (1) all operating expenses, including cost of gas purchased, all salaries, rentals, insurance, license and franchise fees, expenditures for ordinary repairs and maintenance, provision for uncollectible accounts, taxes (other than income and excess or other profits taxes which are imposed on or measured by income after the deduction of interest charges), but excluding all depreciation, depletion or property retirement appropriations, all interest charges, and amortization of debt discount and expense or premium, and (2) net non-operating losses of the properties of ours, if any.
- (c) The balance remaining after the deduction of the total amount computed pursuant to subdivision (b) from the total amount computed pursuant to subdivision (a) shall constitute the "Net Earnings of the Corporation Available for Interest," subject to subdivisions (d), (e), (f), (g) and (h) below.
- (d) If the net non-operating revenues to be included in the foregoing calculation would exceed five percent (5%) of the net operating revenues so to be included, there shall be included in the foregoing calculation with respect to net non-operating revenues only an amount equal to five percent (5%) of such net operating revenues.
- (e) No income received or accrued by us from securities and no profits or losses from the sale, abandonment, reclassification or revaluation of capital assets shall be included in making such computations.
- (f) In case we shall have acquired any Property Additions or shall have been consolidated or merged with any other corporation, or shall have acquired all or substantially all of the assets of another corporation, within or after the particular period for which the calculation of Net Earnings of the Corporation

Available for Interest is made, then, in computing the Net Earnings of the Corporation Available for Interest there shall be included, to the extent they may not have been otherwise included, the net earnings or net losses of such Property Additions or of such other corporation, as the case may be, for the whole of such period. The net earnings of such Property Additions, or of such other corporation, for the period preceding such acquisition or such consolidation or merger, shall be ascertained and computed as provided above as if such Property Additions or the assets of such other corporation, as the case may be, had been owned by us during the whole of such period, or as if such other corporation had been consolidated or merged with us prior to the first day of such period.

- (g) In case we shall have obtained the release of property, pursuant to a specified provision of the indenture, of an aggregate fair value in excess of One Million Dollars (\$1,000,000), as shown by the engineer's certificate, or shall have obtained the release of property of which the aggregate proceeds of which shall have exceeded One Million Dollars (\$1,000,000), within or after the particular period for which the calculation of Net Earnings of the Corporation Available for Interest is made, then, in computing the Net Earnings of the Corporation Available for Interest, the net earnings or net losses of such property for the whole of such period shall be excluded to the extent possible on the basis of actual earnings and expenses of such property or on the basis of such estimates of the earnings and expenses of such property as the signers of an officers' certificate filed with the trustee shall deem proper.
- (h) The Net Earnings of the Corporation Available for Interest, whether of us or of some other corporation or of property, shall be determined in accordance with principles of sound accounting practice.

"Net Investment in Mortgaged Property" means as of any particular time the total cost of the Mortgaged Property less the then related reserves for depreciation, depletion and amortization or other reserves for retirement of such property; all determined in compliance with the Uniform System of Accounts for Gas Corporations prescribed by the Public Utilities Commission of the State of California, effective January 1, 1949, or in compliance with such system of accounts as said Commission or other similar regulatory body may from time to time prescribe, or to the extent that any such system is not so prescribed or is not applicable, then in accordance with sound accounting practice.

"Non-Bondable Property" means any property (other than Bondable Property) owned by us on December 31, 1954, or purchased, constructed, or otherwise acquired by us after that date.

"Permissible Encumbrances" means:

- (a) the lien of taxes and assessments not at the time due;
- (b) the lien of taxes for the then current year;
- (c) the lien of specified taxes and assessments already due but the validity of which is being contested at the time by us in good faith, unless thereby in the opinion of counsel any of the Mortgaged Property may be lost or forfeited;
- (d) undetermined liens and charges incidental to construction;
- (e) the right reserved to, or vested in, any municipality or public authority by the terms of any right, power, franchise, grant, license, permit or by any provision of law, to purchase or recapture or to designate a purchaser of, any of the Mortgaged Property;
- (f) liens upon rights-of-way for transmission or distribution line purposes, *provided* that we have, in the opinion of counsel, power under eminent domain or similar statutes to condemn or acquire easements or rights-of-way sufficient for its purposes over the land covered by the easements or rights-of-way in question or other lands adjacent thereto;
- (g) easements or similar encumbrances the existence of which in the opinion of the signers of an engineer's certificate filed at the particular time, does not impair the use of the property described in such certificate for the purposes for which it was acquired or is then used; and

(h) possible adverse rights or interests which, in the opinion of counsel, are unimportant and may properly be disregarded.

"Property Additions" means, subject to certain exceptions pursuant to the terms of the indenture, any new or additional property, real or personal (including separate systems), and improvements, extensions, or additions (including in these terms equipment and appliances installed as part of our fixed property) to or about our plants, systems or properties, purchased, constructed, or otherwise acquired by us on or after January 1, 1955, and in every case properly chargeable to fixed property accounts, and used or useful for the business of purchasing, manufacturing, transporting, transmitting, distributing or supplying natural, manufactured or mixed gas and/or electricity for heat, fuel, light, power, refrigeration or other purposes and may include, subject to the foregoing and among other things, property acquired by us as a result of any consolidation or merger to which we are a party. The term "Property Additions" shall not include, among other things, goodwill; leases, operating agreements, contracts or franchises or governmental permits; shares of stock, evidences of indebtedness or any other securities; gas and oil acreage, wells, reserves, leaseholds and related property and equipment; merchandise acquired for resale; materials or supplies to be used for fixed capital purposes or in our operations; motor vehicles; or property subject to any liens other than Permissible Encumbrances.

"Refundable Bonds" means, at any particular time, all bonds which have been previously authenticated and delivered under the provisions of the indenture and issued by us and bonds, not issued by us, which have been established as refundable pursuant to the indenture; provided that such bonds, whether authenticated under the indenture or established as refundable, shall have been previously paid at maturity or redeemed or purchased (otherwise than out of funds included in the Mortgaged Property) and surrendered to the trustee, either canceled or uncanceled, or otherwise surrendered to the trustee, subject to certain exceptions provided in the indenture, and which shall not previously have been made the basis for the authentication and delivery of additional bonds or the withdrawal of cash under the indenture or the reduction of the amount of cash to be deposited under the indenture or paid or redeemed or purchased pursuant to, or used to reduce the amount of cash to be deposited pursuant to, or otherwise retired through the operation of, or used in compliance with the requirements of, the provisions of the maintenance and sinking fund established by the indenture or of any sinking fund or the renewal fund, amortization fund, or analogous fund established by any indenture supplemental to the indenture, which does not permit the authentication of additional bonds upon the basis of bonds so paid, redeemed, purchased, retired or used. Bonds and coupons for the payment or redemption of which moneys shall have been deposited (whether at or prior to maturity or the redemption date of such bonds) with the trustee if such bonds were issued under the indenture, or with the trustee of the other indenture under which such bonds were issued, shall be deemed to have been paid within the meaning of this definition; provided, however, that if such bonds are to be redeemed prior to the maturity thereof, notice of such redemption shall be given as provided in the indenture or pursuant to the redemption provisions of such other in

#### DESCRIPTION OF PREFERRED STOCK

This section describes certain general terms and provisions of the series preferred stock, without par value (the "series preferred stock"), that we may offer and sell by this prospectus and also describes certain general terms of our preferred stock, series A preferred stock and preference stock (as those terms are defined below) authorized by our restated articles of incorporation. The following description is not complete and is qualified in its entirety by reference to our restated articles of incorporation, which have been filed as an exhibit to the registration statement of which this prospectus is a part, and the applicable certificate of determination establishing the terms of the particular series of series preferred stock we may offer, which certificate of determination will be filed as an exhibit to such registration statement or a document incorporated by reference herein. Therefore, you should read carefully the more detailed provisions of our restated articles of incorporation and such certificate of determination.

#### General

We are currently authorized to issue (1) 100,000,000 shares of common stock, without par value, (2) 160,000 shares of preferred stock, par value \$25 per share (the "preferred stock"), of which 79,011 shares are outstanding, (3) 840,000 shares of preferred stock, series A, par value \$25 per share (the "series A preferred stock"), of which 783,032 shares are outstanding, (4) 5,000,000 shares of series preferred stock, none of which is outstanding, and (5) 5,000,000 shares of preference stock, without par value (the "preference stock"), none of which is outstanding.

We may in the future amend our restated articles of incorporation to increase the authorized number of shares of our authorized preferred stock, series A preferred stock, series preferred stock or preference stock, or to authorize shares of one or more additional classes of preferred stock or preference stock. Any such amendment would require approval by our board of directors and approval by our shareholders. Subject to the maximum number of shares authorized by our restated articles of incorporation, our board of directors, without approval of our shareholders, (a) may authorize the issuance of one or more series of series preferred stock and one or more series of preference stock and, within the limitations and restrictions stated in our restated articles of incorporation, may fix or alter, from time to time, the rights, preferences, privileges and restrictions granted to or upon and the number of shares of each such series while wholly unissued and increase or decrease the number of shares of any such series subsequent to the time of issue, but not below the number of shares of such series then outstanding, in each case in accordance with our restated articles of incorporation and (b) may authorize the issuance of shares of preferred stock and series A preferred stock which will have the rights, preferences, privileges and restrictions set forth in our restated articles of incorporation.

In this section we refer to the preferred stock, series A preferred stock and series preferred stock currently authorized by our restated articles of incorporation as the "currently authorized preferred stock," and we refer to the preference stock currently authorized by our restated articles of incorporation as the "currently authorized preference stock."

### **Series Preferred Stock and Preference Stock**

Our series preferred stock and preference stock is issuable in series. Before the issuance of shares of any series of series preferred stock or preference stock, our board of directors is required to adopt resolutions and file a certificate of determination with the Secretary of State of the State of California. The certificate of determination fixes the designation and number of shares of the series and their rights, preferences, privileges, and restrictions, which may include, without limitation, the following:

- (a) the title and stated value;
- (b) voting rights, if any, in addition to those described below under "—Additional Terms Applicable to Currently Authorized Preferred Stock and Currently Authorized Preference Stock—General Voting Rights;"

- (c) any rights and terms of redemption, including sinking fund provisions;
- (d) the dividend rate(s), period(s) and/or payment date(s) or method(s) of calculation, as applicable;
- (e) the amount per share payable in the event of our liquidation or dissolution;
- (f) any limitations on issuance of any class or series ranking senior or on a parity as to dividend rights and rights upon our liquidation or dissolution; and
- (g) any other specific terms, preferences, rights, limitations or restrictions.

Our currently authorized preferred stock and currently authorized preference stock, including any shares of series preferred stock that we may issue as contemplated by this prospectus and any shares of our preferred stock, series A preferred stock or preference stock that we may issue in the future, is subject to the terms and conditions set forth below under the caption "—Additional Terms Applicable to Currently Authorized Preferred Stock and Currently Authorized Preference Stock."

In addition to the terms listed above, we will set forth in a prospectus supplement the following terms relating to the series of series preferred stock being offered:

- (a) the number of shares being offered and the offering price per share;
- (b) the procedures for any auction and remarketing, if any;
- (c) any listing of the series preferred stock on any securities exchange; and
- (d) a discussion of any applicable material United States federal income tax considerations.

#### Preferred Stock and Series A Preferred Stock

Our preferred stock and series A preferred stock is not issuable in series. Our board of directors, without approval of our shareholders, may authorize the issuance of shares of preferred stock and series A preferred stock from time to time but will not be entitled to determine the rights, preferences, privileges and restrictions applicable to those shares; instead, those shares will have the rights, preferences, privileges and restrictions set forth in our restated articles of incorporation, some of which are described below, and as may be provided by applicable law.

### Additional Terms Applicable to Currently Authorized Preferred Stock and the Currently Authorized Preference Stock

Except as otherwise set forth below, the following provisions are applicable to all shares of our currently authorized preferred stock and currently authorized preference stock, including currently outstanding shares and the shares of any series of our series preferred stock that we may issue as contemplated by this prospectus and any shares of our preferred stock, series A preferred stock or preference stock that we may issue in the future.

### Ranking

All shares of our currently authorized preferred stock rank on a parity in right of payment with respect to the payment of dividends and with respect to distributions in the event of our liquidation or dissolution. All shares of our currently authorized preferred stock rank senior in right of payment to our currently authorized preference stock, and all shares of currently authorized preferred stock and currently authorized preference stock rank senior in right of payment to our common stock, with respect to the payment of dividends and with respect to distributions in the event of our liquidation or dissolution.

#### Dividend Rights

The holders of our currently authorized preferred stock are entitled, without preference as between any classes or series of our currently authorized preferred stock, to receive, if, when and as declared by our board of directors, out of any legally available funds, cumulative dividends at the respective rates established for such

classes and series before any dividends are declared and set apart for payment or paid on the preference stock or common stock. In the case of preferred stock and series A preferred stock, dividends shall be payable at the annual rate of 6% of the \$25.00 par value thereof. Dividends on each series of series preferred stock shall be payable at the rate established by our board of directors in the resolutions authorizing such series. The dividends on our currently authorized preferred stock are cumulative, so that if, for any period, the full amount of dividends shall not be declared and set apart for payment or paid on all of the outstanding shares of our currently authorized preferred stock, the deficiency shall be payable subsequently before any dividend shall be declared and set apart for payment or paid upon our currently authorized preference stock or our common stock.

The holders of currently authorized preference stock of each series are entitled, without preference as between any series of our currently authorized preference stock, to receive, if, when and as declared by our board of directors, out of any legally available funds, cumulative dividends at the respective rate established for such series, before any dividends are declared and set apart for payment or paid on the common stock. Dividends on each series of our currently authorized preference stock shall be payable at the rate established by our board of directors in the resolutions authorizing such series. The dividends on our currently authorized preference stock are cumulative, so that if, for any period, the full amount of dividends shall not be declared and set apart for payment or paid on all of the outstanding shares of our currently authorized preference stock, the deficiency shall be payable subsequently before any dividend shall be declared and set apart for payment or paid upon our common stock.

Whenever all cumulative dividends on our currently authorized preferred stock and our currently authorized preference stock have been declared and set apart for payment or paid, our board of directors may declare dividends on our common stock payable out of remaining funds legally available for dividends.

### Liquidation Rights

In the event of our liquidation or dissolution, the holders of our currently authorized preferred stock are entitled, without preference as between any classes or series of our currently authorized preferred stock, to receive out of our assets available for distribution to shareholders and after payment of or provision for our debts and other liabilities, the respective liquidation preferences established for such classes and series of our currently authorized preferred stock and accrued and unpaid dividends thereon before any distribution of assets is made to the holders of the currently authorized preference stock or common stock. The liquidation preference of our preferred stock and series A preferred stock is \$25.00 per share. The liquidation preference per share of each series of our series preferred stock will be established by our board of directors in the resolutions establishing such series. After payment in full of the respective amounts to which the holders of our currently authorized preference stock are entitled, without preference as between any series of our currently authorized preference stock, to receive out of our assets available for distribution to shareholders and after payment of or provision for our debts and other liabilities, the respective liquidation preferences established for such series of our currently authorized preference stock and accrued and unpaid dividends thereon before any distribution of assets is made to the holders of the common stock. The liquidation preference per share for each series of our preference stock shall be established by our board of directors in the resolutions establishing such series. After payment in full of the respective amounts to which the holders of our currently authorized preferred stock and our currently authorized preference stock are entitled in the event of our liquidation or dissolution, and after payment of or provision for our debts and other liabilities, the holders of our common stock are entitled to receive, pro rata, our remaining as

### General Voting Rights

The holders of our currently authorized preferred stock, our currently authorized preference stock and our common stock are entitled to one vote per share and shall vote together in the election of directors and on all matters presented to shareholders, except those matters for which a vote by class or series is required by

applicable law or, in the case of any series of series preferred stock or any series of preference stock, by the resolution of the board of directors authorizing the shares of such series.

Pre-Emptive and Subscription Rights, and Non-Assessability

The currently outstanding preferred stock and currently authorized preference stock do not have any pre-emptive or subscription rights, nor are the shares assessable.

# Redemption

The preferred stock and the series A preferred stock are not redeemable. The series preferred stock and the preference stock may be redeemable, if at all, upon the terms established by the board of directors.

### **GLOBAL SECURITIES**

The offered securities (which term, as used under this caption "Global Securities," means the senior debt securities and the first mortgage bonds) initially will be issued in book-entry form and represented by one or more global notes or global securities (collectively, "global securities"). The global securities will be deposited with, or on behalf of, DTC, New York, New York, as depositary, and registered in the name of Cede & Co., the nominee of DTC. Unless and until it is exchanged for individual certificates evidencing offered securities under the limited circumstances described below, a global security may not be transferred except as a whole by the depositary to its nominee or by the nominee to the depositary, or by the depositary or its nominee to a successor depositary or to a nominee of the successor depositary.

DTC has advised us that it is:

- a limited-purpose trust company organized under the New York Banking Law;
- a "banking organization" within the meaning of the New York Banking Law;
- a member of the Federal Reserve System;
- a "clearing corporation" within the meaning of the New York Uniform Commercial Code; and
- a "clearing agency" registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934.

DTC holds securities that its participants deposit with DTC. DTC also facilitates the settlement among its participants of securities transactions, including transfers and pledges, in deposited securities through electronic computerized book-entry changes in participants' accounts, which eliminates the need for physical movement of securities certificates. "Direct participants" in DTC include securities brokers and dealers, including underwriters, banks, trust companies, clearing corporations and other organizations. DTC is a wholly-owned subsidiary of The Depository Trust & Clearing Corporation, or DTCC. DTCC is the holding company for DTC, National Securities Clearing Corporation and Fixed Income Clearing Corporation, all of which are registered clearing agencies. DTCC is owned by the users of its regulated subsidiaries. Access to the DTC system is also available to others, which we sometimes refer to as "indirect participants," that clear transactions through or maintain a custodial relationship with a direct participant either directly or indirectly. The rules applicable to DTC and its participants are on file with the SEC.

Purchases of offered securities within the DTC system must be made by or through direct participants, which will receive a credit for those offered securities on DTC's records. The ownership interest of the actual purchaser of an offered security, which we sometimes refer to as a "beneficial owner," is in turn recorded on the direct and indirect participants' records. Beneficial owners of offered securities will not receive written confirmation from DTC of their purchases. However, beneficial owners are expected to receive written confirmations providing details of their transactions, as well as periodic statements of their holdings, from the direct or indirect participants through which they purchased offered securities. Transfers of ownership interests in global securities are to be accomplished by entries made on the books of participants acting on behalf of beneficial owners. Beneficial owners will not receive certificates representing their ownership interests in the global securities except under the limited circumstances described below.

To facilitate subsequent transfers, all global securities deposited with DTC will be registered in the name of DTC's nominee, Cede & Co. The deposit of offered securities with DTC and their registration in the name of Cede & Co. will not change the beneficial ownership of the offered securities. DTC has no knowledge of the actual beneficial owners of the offered securities. DTC's records reflect only the identity of the direct participants to whose accounts the securities are credited, which may or may not be the beneficial owners. The participants are responsible for keeping account of their holdings on behalf of their customers.

So long as the securities are in book-entry form, you will receive payments and may transfer offered securities only through the facilities of DTC and its direct and indirect participants.

Conveyance of notices and other communications by DTC to direct participants, by direct participants to indirect participants and by direct participants and indirect participants to beneficial owners will be governed by arrangements among them, subject to any legal requirements in effect from time to time.

Redemption notices will be sent to DTC. If less than all of the offered securities of a particular series are being redeemed, DTC will determine the amount of the interest of each direct participant in the offered securities of such series to be redeemed in accordance with DTC's procedures.

In any case where a vote may be required with respect to any offered securities, neither DTC nor Cede & Co. will give consents for or vote the global securities unless authorized by a direct participant in accordance with DTC's procedures. Under its usual procedures, DTC will mail an omnibus proxy to us as soon as possible after the record date. The omnibus proxy assigns the consenting or voting rights of Cede & Co. to those direct participants to whose accounts such offered securities are credited on the record date identified in a listing attached to the omnibus proxy.

Principal and interest payments on the offered securities will be made to Cede & Co., as nominee of DTC. DTC's practice is to credit direct participants' accounts on the relevant payment date. Payments by direct and indirect participants to beneficial owners will be governed by standing instructions and customary practices, as is the case with offered securities held for the account of customers in bearer form or registered in "street name." Those payments will be the responsibility of participants and not of DTC or us, subject to any legal requirements in effect from time to time. Payment of principal and interest to Cede & Co. is our responsibility, disbursement of payments to direct participants is the responsibility of DTC and disbursement of payments to the beneficial owners is the responsibility of direct and indirect participants.

Except under the limited circumstances described below, purchasers of offered securities will not be entitled to have offered securities registered in their names and will not receive physical delivery of offered securities. Accordingly, each beneficial owner must rely on the procedures of DTC and its participants to exercise any rights under the offered securities and the applicable indenture.

The laws of some jurisdictions may require that some purchasers of offered securities take physical delivery of offered securities in definitive form. Those laws may impair the ability to transfer or pledge beneficial interests in offered securities.

DTC is under no obligation to provide its services as depositary for the offered securities and may discontinue providing its services at any time. Neither we nor the trustee will have any responsibility for the performance by DTC or its direct participants or indirect participants under the rules and procedures governing DTC.

As noted above, beneficial owners of a particular series of offered securities generally will not receive certificates representing their ownership interests in those offered securities. However, if:

- DTC notifies us that it is unwilling or unable to continue as a depositary for the global security or securities representing such series of offered securities or if DTC ceases to be a clearing agency registered under the Securities Exchange Act at a time when it is required to be registered and a successor depositary is not appointed by us within 90 days of the notification to us or of our becoming aware of DTC's ceasing to be so registered, as the case may be;
- we determine, in our sole discretion, not to have the offered securities of such series represented by one or more global securities of such series;
- an event of default under the applicable indenture has occurred and is continuing with respect to the offered securities,

we will prepare and deliver certificates for the offered securities of such series in exchange for beneficial interests in the global securities. Any beneficial interest in a global security that is exchangeable under the circumstances described in the preceding sentence will be exchangeable for securities in definitive certificated form registered in the names that the depositary directs. It is expected that these directions will be based upon directions received by the depositary from its participants with respect to ownership of beneficial interests in the global securities.

We have obtained the information in this section and elsewhere in this prospectus concerning DTC and DTC's book-entry system from sources that are believed to be reliable, but we do not take responsibility for the accuracy of this information.

### PLAN OF DISTRIBUTION

We may sell the offered securities from time to time pursuant to underwritten public offerings, negotiated transactions, block trades or a combination of these methods or through underwriters or dealers, through agents and/or directly to one or more purchasers. The offered securities may be distributed from time to time in one or more transactions:

- · at a fixed price or prices, which may be changed;
- · at market prices prevailing at the time of sale;
- · at prices related to such prevailing market prices; or
- at negotiated prices.

Each time that we sell offered securities by this prospectus, we will provide a prospectus supplement or supplements that will describe the method of distribution and set forth the terms and conditions of the offered securities, including the offering price of the securities and the proceeds to us, if applicable.

Offers to purchase the securities being offered by this prospectus may be solicited directly. Agents may also be designated to solicit offers to purchase the offered securities from time to time. Any agent involved in the offer or sale of offered securities will be identified in a prospectus supplement.

If a dealer is utilized in the sale of the offered securities, the offered securities will be sold to the dealer, as principal. The dealer may then resell the offered securities to the public at varying prices to be determined by the dealer at the time of resale.

If an underwriter is utilized in the sale of the offered securities, an underwriting agreement will be executed with the underwriter at the time of sale and the name of any underwriter or its representatives will be provided in the prospectus supplement that the underwriter will use to make resales of the offered securities to the public. In connection with the sale of the offered securities, we or the purchasers of the offered securities for whom the underwriter may act as agent, may compensate the underwriter in the form of underwriting discounts or commissions. The underwriter may sell the offered securities to or through dealers, and those dealers may receive compensation in the form of discounts, concessions or commissions from the underwriters or other dealers and/or commissions from the purchasers for which they may act as agent.

Any compensation paid to underwriters, dealers or agents in connection with the offering of the offered securities, and any discounts, concessions or commissions allowed by underwriters to participating dealers will be provided in the applicable prospectus supplement. Underwriters, dealers and agents participating in the distribution of the offered securities may be deemed to be underwriters within the meaning of the Securities Act of 1933, as amended, and any discounts and commissions received by them and any profit realized by them on resale of the offered securities may be deemed to be underwriting discounts and commissions. We may enter into agreements to indemnify underwriters, dealers and agents against civil liabilities, including liabilities under the Securities Act, or to contribute to payments they may be required to make in respect thereof and to reimburse those persons for certain expenses.

To facilitate the underwritten offering of securities, certain of the underwriters participating in the offering may engage in transactions that stabilize, maintain or otherwise affect the price of the offered securities. This may include over-allotments or short sales of the offered securities, which involve the sale by underwriters participating in the offering of more offered securities than were sold to them. In these circumstances, these underwriters would cover such over-allotments or short positions by making purchases in the open market or by exercising their over-allotment option, if any, to purchase additional offered securities from us. In addition, these underwriters may stabilize or maintain the price of the offered securities by bidding for or purchasing offered securities in the open market or by imposing penalty bids, whereby a particular underwriter is required to repay to the underwriting syndicate a portion of the underwriting discount received by it because the underwriting

syndicate has repurchased offered securities sold by or for the account of such underwriter in stabilizing or short-

covering transactions. The effect of these transactions may be to stabilize or maintain the market price of the offered securities at a level above that which might otherwise prevail in the open market. There can be no assurance that the underwriters for any offering will engage in these transactions and, if commenced, these transactions may be discontinued at any time.

The underwriters, dealers and agents may engage in transactions with us and our affiliates, or perform services for us and our affiliates, in the ordinary course of business for which they receive compensation.

Unless we indicate differently in a prospectus supplement, we will not list the offered securities on any securities exchange and the offered securities will be a new issue of securities with no established trading market. Any underwriters that purchase offered securities for public offering and sale may make a market in such offered securities, but such underwriters will not be obligated to do so and may discontinue any market making at any time without notice. We make no assurance as to the liquidity of or the trading markets for any offered securities.

#### LEGAL MATTERS

Latham & Watkins LLP will pass upon certain legal matters relating to the issuance and sale of the securities offered hereby on our behalf. Sidley Austin LLP will act as counsel for the underwriters.

### **EXPERTS**

The consolidated financial statements incorporated in this prospectus by reference from Southern California Gas Company's Annual Report on Form 10-K, and the effectiveness of Southern California Gas Company's internal control over financial reporting have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their reports, which are incorporated herein by reference. Such financial statements have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

# WHERE YOU CAN FIND MORE INFORMATION; INCORPORATION BY REFERENCE

#### **Available Information**

We file annual, quarterly and current reports, information statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's website at www.sec.gov. You may also read and copy any document we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. Please call the SEC at 1-800-SEC-0330 for further information on the public reference rooms.

This prospectus is part of a registration statement that we filed with the SEC. The full registration statement may be obtained from the SEC or from us, as indicated below. Forms of the indentures and other documents establishing the terms of the offered securities are or will be filed as exhibits to the registration statement of which this prospectus is a part. Statements in this prospectus about these documents are summaries and do not purport to be complete. You should refer to the actual documents for a complete description of the relevant matters.

# **Incorporation by Reference**

The rules of the SEC allow us to "incorporate by reference" information into this prospectus, which means that we can disclose important information to you by referring you to another document filed separately with the SEC. The information incorporated by reference is deemed to be part of this prospectus, except to the extent such information is superseded by the information in this prospectus, the accompanying prospectus supplement or a related free writing prospectus, or any document that we subsequently file with the SEC that is also incorporated by reference herein. This prospectus incorporates by reference the documents set forth below that have been previously filed with the SEC. These documents contain important information about us.

SEC Filings (File No. 1-1402) Annual Report on Form 10-K Current Reports on Form 8-K

Quarterly Report on Form 10-Q

Period
Year ended December 31, 2014
Filed on January 7, 2015, March 6, 2015,
May 28, 2015, June 1, 2015 and June 18, 2015
Quarter ended March 31, 2015

We are also incorporating by reference additional documents that we file with the SEC pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, after the date of this prospectus and any accompanying prospectus supplement through the completion of the offering. In addition, filings filed by

us pursuant to Sections 13(a), 13(c), 14 or 15(d) of the Securities Exchange Act of 1934, as amended, after the date of the initial registration statement of which this prospectus forms a part and prior to the effectiveness of the registration statement shall be deemed to be incorporated by reference into this prospectus. We are not, however, incorporating by reference any documents or portions thereof or exhibits thereto, whether specifically listed above or filed in the future, that are not deemed "filed" with the SEC or any information furnished pursuant to Items 2.02 or 7.01 of Form 8-K or related exhibits furnished pursuant to Item 9.01 of Form 8-K.

We will provide without charge to each person to whom a copy of this prospectus has been delivered a copy of any and all of these filings. You may request a copy of these filings by writing or telephoning us at Southern California Gas Company, 555 West Fifth Street, Los Angeles, California 90013-1011, Attention: Corporate Secretary, Telephone: (213) 244-1200.

#### PART II.

# INFORMATION NOT REQUIRED IN PROSPECTUS

# Item 14. Other Expenses of Issuance and Distribution.

Securities and Exchange Commission registration fee	\$302	,120
Printing expenses	\$	(1)
Trustee fees and expenses	\$	(1)
Legal fees and expenses	\$	(1)
Accounting fees and expenses	\$	(1)
Blue Sky fees and expenses	\$	(1)
Rating Agency fees	\$	(1)
Miscellaneous	\$	(1)
Total	\$	(1)

1) These fees are calculated based on the securities offered and the number of issuances and accordingly cannot be estimated at this time.

### Item 15. Indemnification of Officers and Directors.

Section 317 of the Corporations Code of the State of California permits a corporation to provide indemnification to its directors and officers under certain circumstances. The Southern California Gas Company Restated Articles of Incorporation and Amended and Restated Bylaws eliminate the liability of directors for monetary damages to the fullest extent permissible under California law and provide that indemnification for liability for monetary damages incurred by directors, officers and other agents of Southern California Gas Company will be allowed, subject to certain limitations, in excess of the indemnification otherwise permitted by Section 317 of the Corporations Code. In addition, Southern California Gas Company has indemnification agreements with its officers and directors that provide for indemnification for monetary damages to the fullest extent permissible under California law. Southern California Gas Company maintains liability insurance and is also insured against loss for which it may be required or permitted by law to indemnify its directors and officers for their related acts.

The directors and officers of Southern California Gas Company are covered by insurance policies indemnifying them against certain liabilities, including certain liabilities arising under the Securities Act, which might be incurred by them in such capacities and against which they cannot be indemnified by Southern California Gas Company.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers or persons controlling the registrant pursuant to the foregoing provisions, the registrant has been informed that in the opinion of the SEC such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

# Item 16. Exhibits.

(a) Exhibits

A list of exhibits filed with this registration statement on Form S-3 is set forth on the Exhibit Index and is incorporated herein by reference.

# Item 17. Undertakings.

- (a) The undersigned Registrant hereby undertakes:
  - (1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:
    - (i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933;
  - (ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement. Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the Commission pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20 percent change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and
  - (iii) To include any material information with respect to the plan of distribution not previously disclosed in the registration statement or any material change to such information in the registration statement;

provided, however, that paragraphs (a)(1)(i), (a)(1)(ii) and (a)(1)(iii) of this section do not apply if the information required to be included in a post-effective amendment by those paragraphs is contained in reports filed with or furnished to the Commission by the Registrant pursuant to section 13 or section 15(d) of the Securities Exchange Act of 1934 that are incorporated by reference in the registration statement, or is contained in a form of prospectus filed pursuant to Rule 424(b) that is part of the registration statement.

- (2) That, for the purpose of determining any liability under the Securities Act of 1933, each such post-effective amendment shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
- (3) To remove from registration by means of a post-effective amendment any of the securities being registered which remain unsold at the termination of the offering.
  - (5) That, for the purpose of determining liability under the Securities Act of 1933 to any purchaser:
  - (A) each prospectus filed by the Registrant pursuant to Rule 424(b)(3) shall be deemed to be part of the registration statement as of the date the filed prospectus was deemed part of and included in the registration statement; and
  - (B) each prospectus required to be filed pursuant to Rule 424(b)(2), (b)(5) or (b)(7) as part of a registration statement in reliance on Rule 430B relating to an offering made pursuant to Rule 415(a)(1)(i), (vii), or (x) for the purpose of providing the information required by section 10(a) of the Securities Act of 1933 shall be deemed to be part of and included in the registration statement as of the earlier of the date such form of prospectus is first used after effectiveness or the date of the first contract of sale of securities in the offering described in the prospectus. As provided in Rule 430B, for liability purposes of the issuer and any person that is at that date an underwriter, such date shall be deemed to be a new effective date of the registration statement relating to the securities in the registration statement to which that prospectus relates, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof. *Provided*, *however*, that no statement made in a registration statement or prospectus that is part of the registration statement or made in a document incorporated or deemed incorporated by reference into the registration statement or prospectus that is part of the registration statement will, as to a purchaser with a time of contract of sale prior to such effective date, supersede or modify any statement that was made in the registration statement or prospectus that was part of the registration statement or made in any such document immediately prior to such effective date.

- (6) That, for the purpose of determining liability of the Registrant under the Securities Act of 1933 to any purchaser in the initial distribution of the securities, the undersigned Registrant undertakes that in a primary offering of securities of the undersigned Registrant pursuant to this registration statement, regardless of the underwriting method used to sell the securities to the purchaser, if the securities are offered or sold to such purchaser by means of any of the following communications, the undersigned Registrant will be a seller to the purchaser and will be considered to offer or sell such securities to such purchaser:
  - (i) Any preliminary prospectus or prospectus of the undersigned Registrant relating to the offering required to be filed pursuant to Rule 424;
  - (ii) Any free writing prospectus relating to the offering prepared by or on behalf of the undersigned Registrant or used or referred to by the undersigned Registrant;
  - (iii) The portion of any other free writing prospectus relating to the offering containing material information about the undersigned Registrant or its securities provided by or on behalf of the undersigned Registrant; and
    - (iv) Any other communication that is an offer in the offering made by the undersigned Registrant to the purchaser.
- (b) The undersigned Registrant hereby undertakes that, for purposes of determining any liability under the Securities Act of 1933, each filing of the Registrant's annual report pursuant to Section 13(a) or Section 15(d) of the Securities Exchange Act of 1934 (and, where applicable, each filing of an employee benefit plan's annual report pursuant to Section 15(d) of the Securities Exchange Act of 1934) that is incorporated by reference in the registration statement shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial *bona fide* offering thereof.
- (h) Insofar as indemnification for liabilities arising under the Securities Act of 1933 may be permitted to directors, officers and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that, in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than for the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

# **SIGNATURES**

Pursuant to the requirements of the Securities Act of 1933, as amended, Southern California Gas Company certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-3 and has duly caused this registration statement to be signed on its behalf by the undersigned, thereunto duly authorized, in the City of Los Angeles, State of California, on the 30th day of July, 2015.

**Chief Executive Officer** 

Southern California Gas Company

### **POWER OF ATTORNEY**

KNOW ALL MEN BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Dennis V. Arriola, Sharon L. Tomkins and Bruce A. Folkmann, and each of them severally, as his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to file and sign any and all amendments to this registration statement, including post-effective amendments and any registration statement for the same offering that is to be effective under Rule 462(b) of the Securities Act, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, full power and authority to do and perform each and every act and thing requisite and necessary to be done in connection therewith as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their substitute or substitutes may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement has been signed below by the following persons in the capacities indicated on the 30th day of July, 2015.

<u>Signature</u>	<u>Title</u>
/s/ Dennis V. Arriola Dennis V. Arriola	President, Chief Executive Officer (Principal Executive Officer) and Director
/s/ Bruce A. Folkmann Bruce A. Folkmann	Vice President, Controller, Chief Financial Officer, Chief Accounting Officer and Treasurer (Principal Financial and Accounting Officer)
/s/ Jessie J. Knight, Jr. Jessie J. Knight, Jr.	Chairman and Director
/s/ Joseph A. Householder Joseph A. Householder	Director
/s/ J. Bret Lane J. Bret Lane	Director
/s/ Martha B. Wyrsch Martha B. Wyrsch	Director

\*\*24.1

# EXHIBIT INDEX

Exhibit No.	Description
*1.1	Form of Underwriting Agreement (Senior Debt Securities).
*1.2	Form of Underwriting Agreement (First Mortgage Bonds).
*1.3	Form of Underwriting Agreement (Preferred Stock).
3.1	Restated Articles of Incorporation of Southern California Gas Company (incorporated by reference from the Form 10-K for the year ended December 31, 1996 (Exhibit 3.01)).
3.2	Amended and Restated Bylaws of Southern California Gas Company effective June 14, 2010 (incorporated by reference from the Form 8-K filed June 17, 2010 (Exhibit 3.1)).
**4.1	Form of Indenture (Senior Debt Securities).
4.2	Form of Senior Debt Security (included in Exhibit 4.1).
4.3	First Mortgage Indenture of Southern California Gas Company to American Trust Company dated October 1, 1940 (incorporated by reference from the Registration Statement No. 2-4504 (Exhibit B-4)).
4.4	Supplemental Indenture of Southern California Gas Company to American Trust Company dated as of August 1, 1955 (incorporated by reference from Registration Statement No. 2-11997 filed by Pacific Lighting Corporation (Exhibit 4.07)).
4.5	Supplemental Indenture of Southern California Gas Company to American Trust Company dated as of December 1, 1956 (incorporated by reference from Sempra Energy's Form 10-K for the year ended December 31, 2006 (Exhibit 4.09)).
4.6	Supplemental Indenture of Southern California Gas Company to Wells Fargo Bank dated as of June 1, 1965 (incorporated by reference from Sempra Energy's Form 10-K for the year ended December 31, 2006 (Exhibit 4.10)).
4.7	Supplemental Indenture of Southern California Gas Company to Wells Fargo Bank, National Association dated as of August 1, 1972 (incorporated by reference from Registration Statement No. 2-59832 (Exhibit 2.19)).
4.8	Supplemental Indenture of Southern California Gas Company to Wells Fargo Bank, National Association dated as of May 1, 1976 (incorporated by reference from Registration Statement No. 2-56034 (Exhibit 2.20)).
4.9	Supplemental Indenture of Southern California Gas Company to Wells Fargo Bank, National Association dated as of September 15, 1981 (incorporated by reference from Registration Statement No. 333-70654 (Exhibit 4.24)).
4.10	Form of First Mortgage Bond (included in Exhibit 4.3).
*4.11	Form of Certificate of Determination for Series Preferred Stock and stock certificate.
**5.1	Opinion of Latham & Watkins LLP.
12.1	Statements regarding the computation of ratio of earnings to fixed charges and the computation of ratio of earnings to combined fixed charges and preferred stock dividends for the years ended December 31, 2014, 2013, 2012, 2011 and 2010 and for the three months ended March 31, 2015 (incorporated by reference from the Form 10-Q, filed on May 5, 2015 (Exhibit 12.3)).
**23.1	Independent Registered Public Accounting Firm's Consent (Deloitte & Touche LLP).
**23.2	Consent of Latham & Watkins LLP (included in Exhibit 5.1).

Power of Attorney (incorporated by reference to the signature page hereto).

Exhibit No. Description

\*\*25.1

Statement of Eligibility on Form T-1 under the Trust Indenture Act of 1939, as amended, of U.S. Bank National Association, as Trustee under the Indenture for Senior Debt Securities and Trustee under the First Mortgage Indenture.

- \* To be filed by amendment or incorporated by reference in connection with the offering of the offered securities.
- \*\* Filed herewith.

# SOUTHERN CALIFORNIA GAS COMPANY

TO

# U.S. BANK NATIONAL ASSOCIATION

Trustee

Senior Indenture

Dated as of \_\_\_\_\_

CERTAIN SECTIONS OF THIS INDENTURE RELATING TO SECTIONS 3.10 THROUGH 3.18, INCLUSIVE, OF THE TRUST INDENTURE ACT OF 1939:

TRUST INDENTURE ACT SECTION	INDENTURE
Section 310 (a)(1)	SECTION 609
(a)(2)	609
(a)(3)	Not Applicable
(a)(4)	Not Applicable
(a)(4) (b)	608
(0)	610
Section 311 (a)	613
(b)	613
(0)	701
Section 312 (a)	701 702
	702 702
(b)	702 702
(c)	702 703
Section 313 (a)	
(b)	703
(c)	703
(d)	703
Section 314 (a)	704
( ) ( )	101
(a)(4)	1005
(b)	Not Applicable
(c)(1)	102
(c)(2)	102
(c)(3)	Not Applicable
(d)	Not Applicable
(e)	102
Section 315 (a)	601
(b)	602
(c)	601
(d)	601
(e)	514
Section 316 (a)	101
(a)(1)(A)	502
	512
(a)(1)(B)	513
(a)(2)	Not Applicable
(b)	508
(c)	104
Section 317 (a)(1)	503
(a)(2)	504
(b)	1003
Section 318 (a)	107
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Note: This reconciliation and tie shall not, for any purpose, be deemed to be a part of this Indenture.

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INDENTURE, dated as of	, between Southern California Gas Company, a corporation duly organized and existing under the laws of the State of
California (herein called the "Corporatio	<u>n</u> "), having its principal office at 555 West Fifth Street, Los Angeles, California 90013-1011, and U.S. Bank National
Association, a national banking associati	on duly organized and existing under the laws of the United States of America, as Trustee (herein called the
" <u>Trustee</u> ").	

### RECITALS OF THE CORPORATION

The Corporation has duly authorized the execution and delivery of this Indenture to provide for the issuance from time to time of its unsecured senior debentures, notes or other evidences of indebtedness (herein called the "Securities"), to be issued in one or more series as in this Indenture provided. All things necessary to make this Indenture a valid agreement of the Corporation, in accordance with its terms, have been done.

# NOW, THEREFORE, THIS INDENTURE WITNESSETH:

For and in consideration of the premises and the purchase of the Securities by the Holders thereof, it is mutually agreed, for the equal and proportionate benefit of all Holders of the Securities or of series thereof, as follows:

### ARTICLE I.

# DEFINITIONS AND OTHER PROVISIONS OF GENERAL APPLICATION

### Section 101. Definitions.

For all purposes of this Indenture, except as otherwise expressly provided or unless the context otherwise requires:

- (1) the terms defined in this Article have the meanings assigned to them in this Article and include the plural as well as the singular;
- (2) all other terms used herein which are defined in the Trust Indenture Act, either directly or by reference therein, have the meanings assigned to them therein;
- (3) all accounting terms not otherwise defined herein have the meanings assigned to them in accordance with generally accepted accounting principles, and, except as otherwise herein expressly provided, the term "generally accepted accounting principles" with respect to any computation required or permitted hereunder shall mean such accounting principles as are generally accepted in the United States of America;
- (4) unless the context otherwise requires, any reference to an "Article" or a "Section" refers to an Article or a Section, as the case may be, of this Indenture; and

- (5) the words "herein," "hereof" and "hereunder" and other words of similar import refer to this Indenture as a whole and not to any particular Article, Section or other subdivision.
- "Act," when used with respect to any Holder, has the meaning specified in Section 104.
- "Affiliate" of any specified Person means any other Person directly or indirectly controlling or controlled by or under direct or indirect common control with such specified Person. For the purposes of this definition, "control" when used with respect to any specified Person means the power to direct the management and policies of such Person, directly or indirectly, whether through the ownership of voting securities, by contract or otherwise; and the terms "controlling" and "controlled" have meanings correlative to the foregoing.
- "<u>Authenticating Agent</u>" means any Person authorized by the Trustee pursuant to Section 614 to act on behalf of the Trustee to authenticate Securities of one or more series.
  - "Board of Directors" means either the board of directors of the Corporation or any duly authorized committee of that board.
- "Board Resolution" means a copy of a resolution certified by the Secretary or an Assistant Secretary of the Corporation to have been duly adopted by the Board of Directors and to be in full force and effect on the date of such certification, and delivered to the Trustee.
- "Business Day," when used with respect to any Place of Payment, means a day other than (i) a Saturday or a Sunday or (ii) a day on which banking institutions in that Place of Payment are authorized or obligated by law or executive order to remain closed.
- "Commission" means the Securities and Exchange Commission, from time to time constituted, created under the Exchange Act, or, if at any time after the execution of this instrument such Commission is not existing and performing the duties now assigned to it under the Trust Indenture Act, then the body performing such duties at such time.
- "Corporation" means the Person named as the "Corporation" in the first paragraph of this instrument until a successor Person shall have become such pursuant to the applicable provisions of this Indenture, and thereafter "Corporation" shall mean such successor Person.
- "Company Order" or "Company Request" means a written order or request signed in the name of the Corporation by its Chairman of the Board, its Chief Executive Officer, its President or a Vice President, and by its Treasurer, an Assistant Treasurer, its Controller or Assistant Controller, its Secretary or an Assistant Secretary, and delivered to the Trustee.
- "Corporate Trust Office" means the office of the Trustee at which at any particular time its corporate trust business shall be principally administered, which office at the date hereof is located at 633 West Fifth Street, 24th Floor, Los Angeles, California 90071, Attn: Global Corporate Trust Services.

"corporation" means a corporation, association, company, joint-stock company or business trust.

- "Covenant Defeasance" has the meaning specified in Section 1303.
- "Defaulted Interest" has the meaning specified in Section 307.
- "Defeasance" has the meaning specified in Section 1302.
- "<u>Depositary</u>" means, with respect to Securities of any series issuable in whole or in part in the form of one or more Global Securities, a clearing agency registered under the Exchange Act that is designated to act as Depositary for such Securities as contemplated by Section 301.
  - "Event of Default" has the meaning specified in Section 501.
  - "Exchange Act" means the Securities Exchange Act of 1934 and any statute successor thereto, in each case as amended from time to time.
  - "Expiration Date" has the meaning specified in Section 104.
- "Global Security" means a Security that evidences all or part of the Securities of any series which is issued to a Depositary or a nominee thereof for such series in accordance with Section 301(17).
  - "Government Obligation" has the meaning specified in Section 1304.
  - "Holder" means a Person in whose name a Security is registered in the Security Register.
- "Indenture" means this instrument as originally executed and as it may from time to time be supplemented or amended by one or more indentures supplemental hereto entered into pursuant to the applicable provisions hereof, including, for all purposes of this instrument and any such supplemental indenture, the provisions of the Trust Indenture Act that are deemed to be a part of and govern this instrument and any such supplemental indenture, respectively. The term "Indenture" shall also include the terms of particular series of Securities established as contemplated by Section 301.
- "interest," when used with respect to an Original Issue Discount Security which by its terms bears interest only after Maturity, means interest payable after Maturity.
  - "Interest Payment Date," when used with respect to any Security, means the Stated Maturity of an installment of interest on such Security.
  - "Investment Company Act" means the Investment Company Act of 1940 and any statute successor thereto, in each case as amended from time to time.
- "Maturity," when used with respect to any Security, means the date on which the principal of such Security or an installment of principal becomes due and payable as therein or herein provided, whether at the Stated Maturity or by declaration of acceleration, call for redemption or otherwise.
  - "Notice of Default" means a written notice of the kind specified in Section 501(4).

"Officers' Certificate" means a certificate signed by either the Chairman of the Board, the Chief Executive Officer, the President, the Vice Chairman of the Board, the President or a Vice President, and also signed by the Treasurer, an Assistant Treasurer, the Controller, an Assistant Controller, the Secretary or an Assistant Secretary, of the Corporation and delivered to the Trustee. One of the officers signing an Officers' Certificate given pursuant to Section 1005 shall be the principal executive, financial or accounting officer of the Corporation.

"Opinion of Counsel" means a written opinion of counsel, who may be counsel for the Corporation, or other counsel who shall be reasonably acceptable to the Trustee.

"Original Issue Discount Security" means any Security which provides for an amount less than the principal amount thereof to be due and payable upon a declaration of acceleration of the Maturity thereof pursuant to Section 502.

"Outstanding," when used with respect to Securities, means, as of the date of determination, all Securities theretofore authenticated and delivered under this Indenture, except:

- (1) Securities theretofore canceled by the Trustee or delivered to the Trustee for cancellation;
- (2) Securities for whose payment or redemption the necessary amount of money or Government Obligations has been theretofore deposited with the Trustee or any Paying Agent (other than the Corporation) in trust or set aside and segregated in trust by the Corporation (if the Corporation shall act as its own Paying Agent) for the Holders of such Securities; <u>provided</u> that, if such Securities are to be redeemed, notice of such redemption has been duly given pursuant to this Indenture or provision therefor satisfactory to the Trustee has been made;
  - (3) Securities as to which Defeasance has been effected pursuant to Section 1302; and
- (4) Securities which have been paid pursuant to Section 306 or in exchange for or in lieu of which other Securities have been authenticated and delivered pursuant to this Indenture, other than any such Securities in respect of which there shall have been presented to the Corporation proof satisfactory to it that such Securities are held by a bona fide purchaser in whose hands such Securities are valid obligations of the Corporation;

provided, however, that in determining whether the Holders of the requisite principal amount of the Outstanding Securities have given, made or taken any request, demand, authorization, direction, notice, consent, waiver or other action hereunder as of any date, (A) the principal amount of an Original Issue Discount Security which shall be deemed to be Outstanding shall be the amount of the principal thereof which would be due and payable as of such date upon acceleration of the Maturity thereof to such date pursuant to Section 502, (B) if, as of such date, the principal amount payable at the Stated Maturity of a Security is not determinable, the principal amount of such Security which shall be deemed to be Outstanding shall be the amount as specified or determined as contemplated by Section 301, (C) the principal amount of a Security denominated in one or more foreign currencies or currency units which shall be deemed

to be Outstanding shall be the U.S. dollar equivalent, determined as of such date in the manner provided as contemplated by Section 301, of the principal amount of such Security (or, in the case of a Security described in Clause (A) or (B) above, of the amount determined as provided in such Clause), and (D) Securities owned by the Corporation or any other obligor upon the Securities or any Affiliate of the Corporation or of any such other obligor, whether of record or beneficially, shall be disregarded and deemed not to be Outstanding, except that, in determining whether the Trustee shall be protected in relying upon any such request, demand, authorization, direction, notice, consent, waiver or other action, only Securities which the Trustee actually knows to be so owned shall be so disregarded. Securities so owned which have been pledged in good faith may be regarded as Outstanding if the pledgee establishes to the satisfaction of the Trustee the pledgee's right so to act with respect to such Securities and that the pledgee is not the Corporation or any other obligor upon the Securities or any Affiliate of the Corporation or of any such other obligor.

"Paying Agent" means any Person authorized by the Corporation to pay the principal of or any premium or interest on any Securities on behalf of the Corporation.

"<u>Periodic Offering</u>" means an offering of Securities of a series from time to time the specific terms of which Securities, including without limitation the rate or rates of interest or formula for determining the rate or rates of interest thereon, if any, the Stated Maturity or Maturities thereof and the redemption provisions, if any, with respect thereto, are to be determined by the Corporation upon the issuance of such Securities.

"Person" means any individual, corporation, partnership, limited liability company or corporation, joint venture, trust, unincorporated organization or government or any agency or political subdivision thereof.

"<u>Place of Payment</u>," when used with respect to the Securities of any series, means the place or places where the principal of and any premium and interest on the Securities of that series are payable as specified as contemplated by Section 301.

"<u>Predecessor Security</u>" of any particular Security means every previous Security evidencing all or a portion of the same debt as that evidenced by such particular Security; and, for the purposes of this definition, any Security authenticated and delivered under Section 306 in exchange for or in lieu of a mutilated, destroyed, lost or stolen Security shall be deemed to evidence the same debt as the mutilated, destroyed, lost or stolen Security.

"Redemption Date," when used with respect to any Security to be redeemed, means the date fixed for such redemption by or pursuant to this Indenture.

"Redemption Price," when used with respect to any Security to be redeemed, means the price at which it is to be redeemed pursuant to this Indenture.

"Regular Record Date" for the interest payable on any Interest Payment Date on the Securities of any series means the date specified for that purpose as contemplated by Section 301.

"Responsible Officer," when used with respect to the Trustee, means the chairman or any vice-chairman of the board of directors, the chairman or any vice-chairman of the executive committee of the board of directors, the chairman of the trust committee, the president, any vice president, the secretary, any assistant secretary, the treasurer, any assistant treasurer, any assistant vice president, any senior trust officer, any trust officer or assistant trust officer, the controller or any assistant controller or any other officer of the Trustee customarily performing functions similar to those performed by any of the above designated officers.

"Securities" has the meaning stated in the first recital of this Indenture and more particularly means any Securities authenticated and delivered under this Indenture.

"Securities Act" means the Securities Act of 1933 and any statute successor thereto, in each case as amended from time to time.

"Security Register" and "Security Registrar" have the respective meanings specified in Section 305.

"Special Record Date" for the payment of any Defaulted Interest means a date fixed by the Trustee pursuant to Section 307(1).

"Stated Maturity," when used with respect to any Security or any installment of principal thereof or interest thereon, means the date specified in such Security as the date on which the principal of such Security or such installment of principal or interest is due and payable, in the case of such principal, as such date may be advanced or extended as provided pursuant to the terms of such Security established pursuant to Section 301.

"<u>Trust Indenture Act</u>" means the Trust Indenture Act of 1939 as in force at the date as of which this instrument was executed; <u>provided</u>, <u>however</u>, that in the event the Trust Indenture Act of 1939 is amended after such date, "Trust Indenture Act" shall mean, to the extent required by any such amendment, the Trust Indenture Act of 1939 as so amended.

"<u>Trustee</u>" means the Person named as the "Trustee" in the first paragraph of this instrument until a successor Trustee shall have become such pursuant to the applicable provisions of this Indenture, and thereafter "Trustee" shall mean or include each Person who is then a Trustee hereunder, and if at any time there is more than one such Person, "Trustee" as used with respect to the Securities of any series shall mean the Trustee with respect to Securities of that series.

"Vice President," when used with respect to the Corporation or the Trustee, means any vice president, whether or not designated by a number or a word or words added before or after the title "vice president."

# Section 102. Compliance Certificates and Opinions.

Upon any application or request by the Corporation to the Trustee to take any action under any provision of this Indenture, the Corporation shall furnish to the Trustee such certificates and opinions as may be required under the Trust Indenture Act. Each such certificate or opinion shall be given in the form of an Officers' Certificate, if to be given by an officer of the Corporation, or an Opinion of Counsel, if to be given by counsel, and shall comply with the requirements of the Trust Indenture Act and any other requirements set forth in this Indenture.

Every certificate or opinion with respect to compliance with a condition or covenant provided for in this Indenture shall include

- (1) a statement that each individual signing such certificate or opinion has read such covenant or condition and the definitions herein relating thereto:
- (2) a brief statement as to the nature and scope of the examination or investigation upon which the statements or opinions contained in such certificate or opinion are based;
- (3) a statement that, in the opinion of each such individual, he or she has made such examination or investigation as is necessary to express an informed opinion as to whether or not such covenant or condition has been complied with; and
  - (4) a statement as to whether, in the opinion of each such individual, such condition or covenant has been complied with.

# Section 103. Form of Documents Delivered to Trustee.

In any case where several matters are required to be certified by, or covered by an opinion of, any specified Person, it is not necessary that all such matters be certified by, or covered by the opinion of, only one such Person, or that they be so certified or covered by only one document, but one such Person may certify or give an opinion with respect to some matters and one or more other such Persons as to other matters, and any such Person may certify or give an opinion as to such matters in one or several documents.

Any certificate or opinion of an officer of the Corporation may be based, insofar as it relates to legal matters, upon a certificate or opinion of, or representations by, counsel, unless such officer knows, or in the exercise of reasonable care should know, that the certificate or opinion or representations with respect to the matters upon which such officer's certificate or opinion is based are erroneous. Any such certificate or opinion of counsel may be based, insofar as it relates to factual matters, upon a certificate or opinion of, or representations by, an officer or officers of the Corporation stating that the information with respect to such factual matters is in the possession of the Corporation, unless such counsel knows, or in the exercise of reasonable care should know, that the certificate or opinion or representations with respect to such matters are erroneous.

Where any Person is required to make, give or execute two or more applications, requests, consents, certificates, statements, opinions or other instruments under this Indenture, they may, but need not, be consolidated and form one instrument.

Whenever, subsequent to the receipt by the Trustee of any Board Resolution, Officers' Certificate, Opinion of Counsel or other document or instrument, a clerical, typographical or other inadvertent or unintentional error or omission shall be discovered therein, a new document or instrument may be substituted therefor in corrected form with the same force and effect as if

originally filed in the corrected form and, irrespective of the date or dates of the actual execution and/or delivery thereof, such substitute document or instrument shall be deemed to have been executed and/or delivered as of the date or dates required with respect to the document or instrument for which it is substituted. Anything in this Indenture to the contrary notwithstanding, if any action has been taken by or at the request of the Corporation in reliance on an error or omission in the original document which has been corrected as aforesaid, the action so taken shall not be invalidated or otherwise rendered ineffective but shall be and remain in full force and effect, except to the extent that such action was a result of willful misconduct or bad faith. Without limiting the generality of the foregoing, any Securities issued under the authority of such defective document or instrument shall nevertheless be the valid obligations of the Corporation entitled to the benefits of this Indenture equally and ratably with all other Outstanding Securities, except as aforesaid.

### Section 104. Acts of Holders; Record Dates.

Any request, demand, authorization, direction, notice, consent, waiver or other action provided or permitted by this Indenture to be given, made or taken by Holders may be embodied in and evidenced by one or more instruments of substantially similar tenor signed by such Holders in person or by agent duly appointed in writing; and, except as herein otherwise expressly provided, such action shall become effective when such instrument or instruments are delivered to the Trustee and, where it is hereby expressly required, to the Corporation. Such instrument or instruments (and the action embodied therein and evidenced thereby) are herein sometimes referred to as the "Act" of the Holders signing such instrument or instruments. Proof of execution of any such instrument or of a writing appointing any such agent shall be sufficient for any purpose of this Indenture and (subject to Section 601) conclusive in favor of the Trustee and the Corporation, if made in the manner provided in this Section.

The fact and date of the execution by any Person of any such instrument or writing may be proved by the affidavit of a witness of such execution or by a certificate of a notary public or other officer authorized by law to take acknowledgments of deeds, certifying that the individual signing such instrument or writing acknowledged to him the execution thereof. Where such execution is by a signer acting in a capacity other than the signer's individual capacity, such certificate or affidavit shall also constitute sufficient proof of the signer's authority. The fact and date of the execution of any such instrument or writing, or the authority of the Person executing the same, may also be proved in any other manner which the Trustee deems sufficient.

The ownership of Securities shall be proved by the Security Register.

Any request, demand, authorization, direction, notice, consent, waiver or other Act of the Holder of any Security shall bind every future Holder of the same Security and the Holder of every Security issued upon the registration of transfer thereof or in exchange therefor or in lieu thereof in respect of anything done, omitted or suffered to be done by the Trustee or the Corporation in reliance thereon, whether or not notation of such action is made upon such Security.

The Corporation may set any day as a record date for the purpose of determining the Holders of Outstanding Securities of any series entitled to give, make or take any request,

demand, authorization, direction, notice, consent, waiver or other action provided or permitted by this Indenture to be given, made or taken by Holders of Securities of such series; provided that the Corporation may not set a record date for, and the provisions of this paragraph shall not apply with respect to, the giving or making of any notice, declaration, request or direction referred to in the next paragraph. If any record date is set pursuant to this paragraph, the Holders of Outstanding Securities of the relevant series on such record date, and no other Holders, shall be entitled to take or revoke the relevant action, whether or not such Holders remain Holders after such record date; provided that no such action shall be effective hereunder unless taken on or prior to the applicable Expiration Date by Holders of the requisite principal amount of Outstanding Securities of such series on such record date. Nothing in this paragraph shall be construed to prevent the Corporation from setting a new record date for any action for which a record date has previously been set pursuant to this paragraph (whereupon the record date previously set shall automatically and with no action by any Person be canceled and of no effect), and nothing in this paragraph shall be construed to render ineffective any action taken by Holders of the requisite principal amount of Outstanding Securities of the relevant series on the date such action is taken. Promptly after any record date is set pursuant to this paragraph, the Corporation, at its own expense, shall cause notice of such record date, the proposed action by Holders and the applicable Expiration Date to be given to the Trustee in writing and to each Holder of Securities of the relevant series in the manner set forth in Section 106.

The Trustee may set any day as a record date for the purpose of determining the Holders of Outstanding Securities of any series entitled to join in the giving or making of (i) any Notice of Default, (ii) any declaration of acceleration referred to in Section 507(2) or (iv) any direction referred to in Section 512, in each case with respect to Securities of such series. If any record date is set pursuant to this paragraph, the Holders of Outstanding Securities of such series on such record date, and no other Holders, shall be entitled to join in such notice, declaration, request or direction or to revoke the same, whether or not such Holders remain Holders after such record date; provided that no such action shall be effective hereunder unless taken on or prior to the applicable Expiration Date by Holders of the requisite principal amount of Outstanding Securities of such series on such record date. Nothing in this paragraph shall be construed to prevent the Trustee from setting a new record date for any action for which a record date has previously been set pursuant to this paragraph (whereupon the record date previously set shall automatically and with no action by any Person be canceled and of no effect), and nothing in this paragraph shall be construed to render ineffective any action taken by Holders of the requisite principal amount of Outstanding Securities of the relevant series on the date such action is taken. Promptly after any record date is set pursuant to this paragraph, the Trustee, at the Corporation's expense, shall cause notice of such record date, the proposed action by Holders and the applicable Expiration Date to be sent to the Corporation in writing and to each Holder of Securities of the relevant series in the manner set forth in Section 106.

With respect to any record date set pursuant to this Section, the party hereto which sets such record date may designate any day as the "Expiration Date" and from time to time may change the Expiration Date to any earlier or later day; <u>provided</u> that no such change shall be effective unless notice of the proposed new Expiration Date is given to the other party hereto in writing, and to each Holder of Securities of the relevant series in the manner set forth in Section 106 on or prior to the existing Expiration Date. If an Expiration Date is not designated with

respect to any record date set pursuant to this Section, the party hereto which set such record date shall be deemed to have initially designated the 180th day after such record date as the Expiration Date with respect thereto, subject to its right to change the Expiration Date as provided in this paragraph. Notwithstanding the foregoing, no Expiration Date shall be later than the 180th day after the applicable record date.

Without limiting the foregoing, a Holder entitled hereunder to take any action hereunder with regard to any particular Security may do so with regard to all or any part of the principal amount of such Security or by one or more duly appointed agents each of which may do so pursuant to such appointment with regard to all or any part of such principal amount.

# Section 105. Notices, Etc., to Trustee and Corporation.

Any request, demand, authorization, direction, notice, consent, waiver or Act of Holders or other document provided or permitted by this Indenture to be made upon, given or furnished to, or filed with,

- (1) the Trustee by any Holder or by the Corporation shall be sufficient for every purpose hereunder if made, given, furnished or filed in writing, which may be made via facsimile or mailed, first class postage prepaid, to or with the Trustee at its Corporate Trust Office, Attention: Global Corporate Trust Services, or
- (2) the Corporation by the Trustee or by any Holder shall be sufficient for every purpose hereunder (unless otherwise herein expressly provided) if made, given, furnished or filed in writing, which may be made via facsimile, or mailed, first-class postage prepaid, to the Corporation addressed to it at the address of its principal office specified in the first paragraph of this instrument, Attention: Treasurer, or at any other address previously furnished in writing to the Trustee by the Corporation with a copy to the General Counsel.

# Section 106. Notice to Holders; Waiver.

Where this Indenture provides for notice to Holders of any event, such notice shall be sufficiently given (unless otherwise herein expressly provided) if in writing and mailed, first-class postage prepaid, to each Holder affected by such event, at his address as it appears in the Security Register, not later than the latest date (if any), and not earlier than the earliest date (if any), prescribed for the giving of such notice. In any case where notice to Holders is given by mail, neither the failure to mail such notice, nor any defect in any notice so mailed, to any particular Holder shall affect the sufficiency of such notice with respect to other Holders. Where this Indenture provides for notice in any manner, such notice may be waived in writing by the Person entitled to receive such notice, either before or after the event, and such waiver shall be the equivalent of such notice. Waivers of notice by Holders shall be filed by such Holders or the Corporation with the Trustee, but such filing shall not be a condition precedent to the validity of any action taken in reliance upon such waiver.

In case by reason of the suspension of regular mail service or by reason of any other cause it shall be impracticable to give such notice by mail, then such notification as shall be made with the approval of the Trustee shall constitute a sufficient notification for every purpose hereunder.

### Section 107. Conflict with Trust Indenture Act.

If any provision hereof limits, qualifies or conflicts with a provision of the Trust Indenture Act which is required under such Act to be a part of and govern this Indenture, the latter provision shall control. If any provision of this Indenture modifies or excludes any provision of the Trust Indenture Act which may be so modified or excluded, the latter provision shall be deemed to apply to this Indenture as so modified or to be excluded, as the case may be.

# Section 108. Effect of Headings and Table of Contents.

The Article and Section headings herein and the Table of Contents are for convenience only and shall not affect the construction hereof.

# Section 109. Successors and Assigns.

All covenants and agreements in this Indenture by the Corporation shall bind its successors and assigns, whether so expressed or not.

### Section 110. Separability Clause.

In case any provision in this Indenture or in the Securities shall be invalid, illegal or unenforceable, the validity, legality and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.

### Section 111. Benefits of Indenture.

Nothing in this Indenture or in the Securities, express or implied, shall give to any Person, other than the parties hereto, their successors hereunder and the Holders, any benefit or any legal or equitable right, remedy or claim under this Indenture.

# Section 112. Governing Law.

This Indenture and the Securities shall be governed by and construed in accordance with the laws of the State of New York, without regard to conflicts of laws principles thereof.

# Section 113. Legal Holidays.

In any case where any Interest Payment Date, Redemption Date or Stated Maturity of any Security shall not be a Business Day at any Place of Payment, then (notwithstanding any other provision of this Indenture or of the Securities (other than a provision of any Security which specifically states that such provision shall apply in lieu of this Section)) payment of interest or principal (and premium, if any) need not be made at such Place of Payment on such date, but may be made on the next succeeding Business Day at such Place of Payment with the same force and effect as if made on the Interest Payment Date or Redemption Date, or at the Stated Maturity.

### ARTICLE II.

### SECURITY FORMS

Section 201. Forms Generally.

The Securities of each series shall be in substantially the form set forth in this Article, or in such other form as shall be established by or pursuant to a Board Resolution, in one or more indentures supplemental hereto or in an Officers' Certificate pursuant to Section 301 hereof, in each case with such appropriate insertions, omissions, substitutions and other variations as are required or permitted by this Indenture, and may have such letters, numbers or other marks of identification and such legends or endorsements placed thereon as may be required to comply with the rules of any securities exchange or Depositary therefor or as may, consistently herewith, be determined by the officers executing such Securities, as evidenced by their execution thereof. If the form of Securities of any series is established by action taken by or pursuant to a Board Resolution, a copy of an appropriate record of such action shall be certified by the Secretary or an Assistant Secretary of the Corporation and delivered to the Trustee at or prior to the delivery of the Company Order contemplated by Section 303 for the authentication and delivery of such Securities.

The definitive Securities shall be printed, lithographed or engraved on steel engraved borders or may be produced in any other manner, all as determined by the officers executing such Securities, as evidenced by their execution of such Securities.

Section 202. Form of Face of Security.

[Insert any legend required by the Internal Revenue Code and the regulations thereunder or by the Depositary.]

# SOUTHERN CALIFORNIA GAS COMPANY

	\$
No	CUSIP No.
Southern California Gas Company, a corporation duly organized and existing under the laws of the State of California (her	rein called the "Corporation"
which term includes any successor Person under the Indenture hereinafter referred to), for value received, hereby promises to pay	-
assigns, the principal sum of Dollars (\$) on [if the Security is to bear interest prior to Maturity and interest payment	periods are not extendable,
insert—, and to pay interest thereon from or from the most recent date to which interest has been paid or duly provided f	or, [insert -semi-annually,
quarterly, monthly or other description of the relevant payment period] on [,,] and in each year (each, an	"Interest Payment Date"),
commencing, and at Maturity at the rate of% per annum, until the principal hereof is paid or made available for payment [if a	applicable, insert—, <u>provided</u>
that any principal hereof or premium, if any, or interest hereon which is not paid when due shall bear interest at the rate of per an	num (to the extent that the
payment of such interest shall be legally enforceable) from the dates such amounts are due until they are paid or made	

available for payment, and such interest shall be payable on demand]. Interest on this Security shall be calculated on the basis of a 360-day year consisting of twelve 30-day months. The interest so payable, and punctually paid or duly provided for, on any Interest Payment Date will, as provided in such Indenture, be paid to the Person in whose name this Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest, which shall be the [\_\_\_\_\_] (whether or not a Business Day), as the case may be, next preceding such Interest Payment Date. Any such interest not so punctually paid or duly provided for on any Interest Payment Date will forthwith cease to be payable to the Holder on such Regular Record Date by virtue of having been such Holder and may either be paid to the Person in whose name this Security (or one or more Predecessor Securities) is registered at the close of business on a Special Record Date for the payment of such Defaulted Interest to be fixed by the Trustee, notice whereof shall be given to Holders of Securities of this series not less than 10 days prior to such Special Record Date, or be paid at any time in any other lawful manner not inconsistent with the requirements of any securities exchange on which the Securities of this series may be listed, and upon such notice as may be required by such exchange, all as more fully provided in said Indenture].

[If the Security is not to bear interest prior to Maturity, insert -The principal of this Security shall not bear interest except in the case of a default in payment of principal upon acceleration, upon redemption or at Stated Maturity and in such case the overdue principal and any overdue premium shall bear interest at the rate of \_\_% per annum (to the extent that the payment of such interest shall be legally enforceable), from the dates such amounts are due until they are paid or made available for payment. Interest on any overdue principal or premium shall be payable on demand. Any such interest on interest shall be legally enforceable), from the date of such demand until the amount so demanded is paid or made available for payment. Interest on any overdue interest shall be payable on demand.]

Payment of the principal of (and premium, if any) and [if applicable, insert—any such] interest on this Security will be made at the office or agency of the Corporation maintained for that purpose in the Borough of Manhattan, The City of New York, in such coin or currency of the United States of America as at the time of payment is legal tender for payment of public and private debts [if applicable, insert—; <u>provided</u>, <u>however</u>, that at the option of the Corporation payment of interest may be made by check mailed to the address of the Person entitled thereto as such address shall appear in the Security Register or by wire transfer at such place and to such account at a banking institution in the United States as may be designated in writing to the Trustee at least fifteen (15) days prior to the date for payment by the Person entitled thereto]. [In the case of a Global Security registered in the name of the Depository Trust Company or its nominee, insert—Notwithstanding the foregoing, so long as the Holder of this Security is the Depositary or its nominee, payment of the principal of (and premium, if any) and [if applicable, insert—any such] interest on this Security will be made by wire transfer of immediately available funds.]

Reference is hereby made to the further provisions of this Security set forth on the reverse hereof, which further provisions shall for all purposes have the same effect as if set forth at this place.

Unless the certificate of authentication hereon has been executed by the Trustee referred to on the reverse hereof by manual signature, this Security shall not be entitled to any benefit under the Indenture or be valid or obligatory for any purpose.

IN WITNESS WHEREOF, the Corporation has caused this instrument to be duly executed.

Dated:

SOUTHERN CALIFORNIA GAS COMPANY

By:

Attest:

Section 203. Form of Reverse of Security.

This Security is one of a duly authorized issue of securities of the Corporation (herein called the "Securities"), issued and to be issued in one or more series under an Indenture, dated as of \_\_\_\_\_, \_\_\_\_ (herein called the "Indenture," which term shall have the meaning assigned to it in such instrument), between the Corporation and U.S. Bank National Association, as Trustee (herein called the "Trustee," which term includes any successor trustee under the Indenture), and reference is hereby made to the Indenture for a statement of the respective rights, limitation of rights, duties and immunities thereunder of the Corporation, the Trustee and the Holders of the Securities and of the terms upon which the Securities are, and are to be, authenticated and delivered. This Security is one of the series designated on the face hereof [if applicable, insert—, limited (subject to exceptions provided in the Indenture) in aggregate principal amount to \$\_\_\_\_].

Year Redemption Price Year Redemption Price

applicable, insert—on or before \_\_\_\_\_ and if redeemed] during the 12-month period beginning of the years indicated,

If applicable, insert—The Securities of this series are subject to redemption upon not less than 30 days' nor more than 60 days' prior written notice by mail, [if applicable, insert—(1) on \_\_\_\_\_ in any year commencing with the year \_\_\_\_\_ and ending with the year \_\_\_\_\_ through operation of the sinking fund for this series at a Redemption Price equal to 100% of the principal amount, and (2)] at any time [if applicable, insert—on or after \_\_\_\_\_,19\_\_], as a whole or in part, at the election of the Corporation, at the following Redemption Prices (expressed as percentages of the principal amount): If redeemed [if

and thereafter at a Redemption Price equal to% of the principal operation of the sinking fund or otherwise)] with accrued interest t such Redemption Date will be payable to the Holders of such Securelevant Regular Record Dates referred to on the face hereof, all as	to the Redemption Date, but interes urities, or one or more Predecessor	t installments whose Stated Maturity is	on or prior to
[If applicable, insert—The Securities of this series are subject mail, (1) on in any year commencing with the year and the Redemption Prices for redemption through operation of the sin and (2) at any time [if applicable, insert—on or after] redemption otherwise than through operation of the sinking fund (content in the	nd ending with the year nking fund (expressed as percentage l, as a whole or in part, at the election	_ through operation of the sinking fund es of the principal amount) set forth in the on of the Corporation, at the Redemption	for this series at ne table below, n Prices for
If redeemed during the 12- month period beginning	of the years indicated,		
Year	Redemption Price for Redemption Through Operation of the Sinking Fund	Redemption Price for Redemption Otherwise Than Through Operation of the Sinking Fund	
and thereafter at a Redemption Price equal to% of the principal	amount together in the case of any	y such redemption (whether through open	pration of the
sinking fund or otherwise) with accrued interest to the Redemptior Date will be payable to the Holders of such Securities, or one or m Record Dates referred to on the face hereof, all as provided in the	n Date, but interest installments who nore Predecessor Securities, of reco	ose Stated Maturity is on or prior to suc	h Redemption
[If applicable, insert—Notwithstanding the foregoing, the C by [if applicable, insert—Clause (2) of] the preceding paragraph as indirectly, of moneys borrowed having an interest cost to the Corp_% per annum.]	s a part of, or in anticipation of, any	refunding operation by the application	, directly or
[If applicable, insert—The sinking fund for this series provious and ending with the year of [if applicable, insert—not less than \$_ of Securities of this series. Securities of this series acquired or redefund payments may be credited against subsequent [if applicable, insert—, in the inverse order in which they become due].]	("mandatory sinking fund") eemed by the Corporation otherwis	and not more than] \$ aggregate e than through [if applicable, insert—m	principal amount andatory] sinking

[If the Security is subject to redemption of any kind, insert—In the event of redemption of this Security in part only, a new Security or Securities of this series and of like tenor for the unredeemed portion hereof will be issued in the name of the Holder hereof upon the cancellation hereof.]

[If the Security is not subject to redemption, insert—The Securities are not subject to redemption prior to the Stated Maturity of the principal thereof.]

[If applicable, insert—The Indenture contains provisions for defeasance at any time of [the entire indebtedness of this Security] [or] [certain restrictive covenants and Events of Default with respect to this Security] [, in each case] upon compliance with certain conditions set forth in the Indenture.]

[If the Security is not an Original Issue Discount Security, insert -If an Event of Default with respect to Securities of this series shall occur and be continuing, the principal of and accrued and unpaid interest on the Securities of this series may be declared due and payable in the manner and with the effect provided in the Indenture.]

[If the Security is an Original Issue Discount Security, insert—If an Event of Default with respect to Securities of this series shall occur and be continuing, an amount of principal of the Securities of this series may be declared due and payable in the manner and with the effect provided in the Indenture. Such amount shall be equal to [insert formula for determining the amount]. Upon payment (i) of the amount of principal so declared due and payable and (ii) of interest on any overdue principal, premium and interest (in each case to the extent that the payment of such interest shall be legally enforceable), all of the Corporation's obligations in respect of the payment of the principal of and premium and interest, if any, on the Securities of this series shall terminate.]

The Indenture permits, with certain exceptions as therein provided, the amendment thereof and the modification of the rights and obligations of the Corporation and the rights of the Holders of the Securities of each series affected under the Indenture at any time by the Corporation and the Trustee with the consent of the Holders of a majority in principal amount of the Securities of each series at the time Outstanding affected thereby. The Indenture contains provisions permitting the Holders of not less than a majority in principal amount of the Securities of any series at the time Outstanding with respect to which a default under the Indenture shall have occurred and be continuing, on behalf of the Holders of all Securities of such series, to waive, with certain exceptions, such past default with respect to such series and its consequences. The Indenture also permits the Holders of not less than a majority in principal amount of the Securities of any series at the time Outstanding, on behalf of the Holders of all Securities of such series, to waive compliance by the Corporation with certain provisions of the Indenture. Any such consent or waiver by the Holder of this Security shall be conclusive and binding upon such Holder and upon all future Holders of this Security and of any Security issued upon the registration of transfer hereof or in exchange therefor or in lieu hereof, whether or not notation of such consent or waiver is made upon this Security.

As provided in and subject to the provisions of the Indenture, the Holder of this Security shall not have the right to institute any proceeding with respect to the Indenture or for the

appointment of a receiver or trustee or for any other remedy thereunder unless such Holder shall have previously given the Trustee written notice of a continuing Event of Default with respect to the Securities of this series, the Holders of not less than 25% in principal amount of the Securities of this series at the time Outstanding shall have made written request to the Trustee to institute proceedings in respect of such Event of Default as Trustee, such Holder or Holders shall have offered the Trustee reasonable indemnity, and the Trustee, for 60 days after its receipt of such notice, shall not have received from the Holders of a majority in principal amount of Securities of this series at the time Outstanding a direction inconsistent with such request, and the Trustee shall have failed to institute any such proceeding, for 60 days after receipt of such notice, request and offer of indemnity. The foregoing shall not apply to any suit instituted by the Holder of this Security for the enforcement of any payment of principal hereof or any premium or interest hereon on or after the respective due dates expressed herein.

No reference herein to the Indenture and no provision of this Security or of the Indenture shall alter or impair the obligation of the Corporation, which is absolute and unconditional, to pay the principal of [and premium, if any,] and interest on this Security at the times, place and rate, and in the coin or currency, herein prescribed.

As provided in the Indenture and subject to certain limitations therein set forth, the transfer of this Security is registrable in the Security Register, upon surrender of this Security for registration of transfer at the office or agency of the Corporation in any place where the principal of and any premium and interest on this Security are payable, duly endorsed by, or accompanied by a written instrument of transfer in form satisfactory to the Corporation and the Security Registrar duly executed by, the Holder hereof or his attorney duly authorized in writing, and thereupon one or more new Securities of this series and of like tenor, of authorized denominations and for the same aggregate principal amount, will be issued to the designated transferee or transferees.

The Securities of this series are issuable only in registered form without coupons in denominations of \$1,000 and any integral multiple thereof. As provided in the Indenture and subject to certain limitations therein set forth, Securities of this series are exchangeable for a like aggregate principal amount of Securities of this series and of like tenor of a different authorized denomination, as requested by the Holder surrendering the same.

No service charge shall be made for any such registration of transfer or exchange, but the Corporation may require payment of a sum sufficient to cover any tax or other governmental charge payable in connection therewith.

Prior to due presentment of this Security for registration of transfer, the Corporation, the Trustee and any agent of the Corporation or the Trustee may treat the Person in whose name this Security is registered as the owner hereof for all purposes, whether or not this Security be overdue, and neither the Corporation, the Trustee nor any such agent shall be affected by notice to the contrary.

This Security shall be governed by and construed in accordance with the laws of the State of New York, without regard to conflict of law principles thereof.

All terms used in this Security which are defined in the Indenture and not defined herein shall have the meanings assigned to them in the Indenture.

Section 204. Form of Legend for Global Securities.

Unless otherwise specified as contemplated by Section 301 for the Securities evidenced thereby, every Global Security authenticated and delivered hereunder shall bear a legend in substantially the following form:

THIS SECURITY IS A GLOBAL SECURITY WITHIN THE MEANING OF THE INDENTURE HEREINAFTER REFERRED TO AND IS REGISTERED IN THE NAME OF A DEPOSITARY OR A NOMINEE THEREOF. THIS SECURITY MAY NOT BE EXCHANGED IN WHOLE OR IN PART FOR A SECURITY REGISTERED, AND NO TRANSFER OF THIS SECURITY IN WHOLE OR IN PART MAY BE REGISTERED, IN THE NAME OF ANY PERSON OTHER THAN SUCH DEPOSITARY OR A NOMINEE THEREOF, EXCEPT IN THE LIMITED CIRCUMSTANCES DESCRIBED IN THE INDENTURE.

Section 205. Form of Trustee's Certificate of Authentication.

The Trustee's certificate of authentication shall be in substantially the following form:

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

U.S. Bank National Association,
As Trustee
Ву:
Authorized Signatory

Dated:

## ARTICLE III.

#### THE SECURITIES

Section 301. Amount Unlimited; Issuable in Series.

The aggregate principal amount of Securities which may be authenticated and delivered under this Indenture is unlimited.

The Securities may be issued in one or more series. There shall be established in or pursuant to a Board Resolution and, subject to Section 303, set forth, or determined in the manner provided, in an Officers' Certificate, or established in one or more indentures supplemental hereto, prior to the issuance of Securities of any series,

- (1) the title of the Securities of the series (which shall distinguish the Securities of the series from Securities of any other series);
- (2) any limit upon the aggregate principal amount of the Securities of the series which may be authenticated and delivered under this Indenture (except for Securities authenticated and delivered upon registration of transfer of, or in exchange for, or in lieu of, other Securities of the series pursuant to Section 304, 305, 306, 906 or 1106 and except for any Securities which, pursuant to Section 303, are deemed never to have been authenticated and delivered hereunder);
- (3) the Person to whom any interest on a Security of the series shall be payable, if other than the Person in whose name that Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest;
- (4) the date or dates on which the principal of any Securities of the series is payable or the method by which such date shall be determined and the right, if any, to shorten or extend the date on which the principal of any Securities of the series is payable and the conditions to any such change;
- (5) the rate or rates at which any Securities of the series shall bear interest, if any, or the method by which such rate or rates shall be determined; the date or dates from which any such interest shall accrue; the Interest Payment Dates on which any such interest shall be payable; the manner (if any) of determination of such Interest Payment Dates; and the Regular Record Date, if any, for any such interest payable on any Interest Payment Date;
  - (6) the right, if any, to extend the interest payment periods and the terms of such extension or extensions;
- (7) the place or places where the principal of and any premium and interest on any Securities of the series shall be payable and whether, if acceptable to the Trustee, any principal of such Securities shall be payable without presentation or surrender thereof;
- (8) the period or periods within which, or the date or dates on which, the price or prices at which and the terms and conditions upon which any Securities of the series may be redeemed, in whole or in part, at the option of the Corporation and, if other than by a Board Resolution, the manner in which any election by the Corporation to redeem the Securities shall be evidenced;
- (9) the obligation, if any, of the Corporation to redeem or purchase any Securities of the series pursuant to any sinking fund, purchase fund or analogous provisions or at the option of the Holder thereof and the period or periods within which, the price or prices at which and the terms and conditions upon which any Securities of the series shall be redeemed or purchased, in whole or in part, pursuant to such obligation;
- (10) if other than denominations of \$1,000 and any integral multiple thereof, the denominations in which any Securities of the series shall be issuable;

- (11) if the amount of principal of or any premium or interest on any Securities of the series may be determined with reference to an index or pursuant to a formula, the manner in which such amounts shall be determined;
- (12) if other than the currency of the United States of America, the currency, currencies or currency units in which the principal of or any premium or interest on any Securities of the series shall be payable and the manner of determining the equivalent thereof in the currency of the United States of America for any purpose, including for purposes of the definition of "Outstanding" in Section 101;
- (13) if the principal of or any premium or interest on any Securities of the series is to be payable, at the election of the Corporation or the Holder thereof, in one or more currencies or currency units other than that or those in which such Securities are stated to be payable, the currency, currencies or currency units in which the principal of or any premium or interest on such Securities as to which such election is made shall be payable, the periods within which and the terms and conditions upon which such election is to be made and the amount so payable (or the manner in which such amount shall be determined);
- (14) if other than the entire principal amount thereof, the portion of the principal amount of any Securities of the series which shall be payable upon declaration of acceleration of the Maturity thereof pursuant to Section 502;
- (15) if the principal amount payable at the Stated Maturity of any Securities of the series will not be determinable as of any one or more dates prior to the Stated Maturity, the amount which shall be deemed to be the principal amount of such Securities as of any such date for any purpose thereunder or hereunder, including the principal amount thereof which shall be due and payable upon any Maturity other than the Stated Maturity or which shall be deemed to be Outstanding as of any date prior to the Stated Maturity (or, in any such case, the manner in which such amount deemed to be the principal amount shall be determined);
  - (16) if either or both of Sections 1302 and 1303 do not apply to any Securities of the series;
- (17) if applicable, that any Securities of the series shall be issuable in whole or in part in the form of one or more Global Securities and, in such case, the respective Depositary or Depositaries for such Global Securities, the form of any legend or legends which shall be borne by any such Global Security in addition to or in lieu of that set forth in Section 204 and any circumstances in addition to or in lieu of those set forth in Clause (2) of the last paragraph of Section 305 in which any such Global Security may be exchanged in whole or in part for Securities registered, and any transfer of such Global Security in whole or in part may be registered, in the name or names of Persons other than the Depositary for such Global Security or a nominee thereof;
- (18) any addition, modification or deletion of any Events of Default or covenants provided with respect to any Securities of the series and any change in the right of the Trustee or the requisite Holders of such Securities to declare the principal amount thereof due and payable pursuant to Section 502;

- (19) any addition to or change in the covenants set forth in Article X which applies to Securities of the series; and
- (20) any other terms of the series.

All Securities of any one series shall be substantially identical except as to denomination and except as may otherwise be provided in or pursuant to the Board Resolution referred to above and (subject to Section 303) set forth, or determined in the manner provided, in the Officers' Certificate referred to above or in any such indenture supplemental hereto.

If any of the terms of the series are established by action taken pursuant to a Board Resolution, a copy of an appropriate record of such action shall be certified by the Secretary or an Assistant Secretary of the Corporation and delivered to the Trustee at or prior to the delivery of the Officers' Certificate setting forth the terms or the manner of determining the terms of the series.

With respect to Securities of a series offered in a Periodic Offering, the Board Resolution (or action taken pursuant thereto), Officers' Certificate or supplemental indenture referred to above may provide general terms or parameters for Securities of such series and provide either that the specific terms of particular Securities of such series shall be specified in a Company Order or that such terms shall be determined by the Corporation in accordance with other procedures specified in a Company Order as contemplated by the third paragraph of Section 303.

Notwithstanding Section 301(2) herein and unless otherwise expressly provided with respect to a series of Securities, a series of Securities may from time to time be "re-opened" and the aggregate principal amount of any such series of Securities may be increased and additional Securities of such series may be issued up to the maximum aggregate principal amount authorized with respect to such series as increased.

#### Section 302. Denominations.

The Securities of each series shall be issuable only in fully registered form without coupons and only in such denominations as shall be specified as contemplated by Section 301. In the absence of any such specified denomination with respect to the Securities of any series, the Securities of such series shall be issuable in denominations of \$1,000 and any integral multiple thereof.

#### Section 303. Execution, Authentication, Delivery and Dating.

The Securities shall be executed on behalf of the Corporation by its Chairman of the Board, its Vice Chairman of the Board, its Chief Executive Officer, its President or one of its Vice Presidents (which may be by facsimile) attested by its Secretary or one of its Assistant Secretaries. The signature of any of these officers on the Securities may be manual or facsimile.

Securities bearing the manual or facsimile signatures of individuals who were at any time the proper officers of the Corporation shall bind the Corporation, notwithstanding that such individuals or any of them have ceased to hold such offices prior to the authentication and delivery of such Securities or did not hold such offices at the date of such Securities.

At any time and from time to time after the execution and delivery of this Indenture, the Corporation may deliver Securities of any series executed by the Corporation to the Trustee for authentication, together with a Company Order for the authentication and delivery of such Securities, and the Trustee in accordance with the Company Order shall authenticate and deliver such Securities, provided, however, that in the case of Securities offered in a Periodic Offering, the Trustee shall authenticate and deliver such Securities from time to time in accordance with such other procedures (including, without limitation, the receipt by the Trustee of electronic instructions from the Corporation or its duly authorized agents, promptly confirmed in writing) acceptable to the Trustee as may be specified by or pursuant to a Company Order delivered to the Trustee prior to the time of the first authentication of Securities of such series. If the form or terms of the Securities of the series have been established by or pursuant to one or more Board Resolutions as permitted by Sections 201 and 301, in authenticating such Securities, and accepting the additional responsibilities under this Indenture in relation to such Securities, the Trustee shall be furnished, and (subject to Section 601) shall be fully protected in relying upon, an Opinion of Counsel stating,

- (1) if the form of such Securities has been established by or pursuant to Board Resolution as permitted by Section 201, that such form has been established in conformity with the provisions of this Indenture;
- (2) if the terms of such Securities have been, or in the case of Securities of a series offered in a Periodic Offering, will be, established by or pursuant to Board Resolution as permitted by Section 301, that such terms have been, or in the case of Securities of a series offered in a Periodic Offering, will be, established in conformity with the provisions of this Indenture, subject, in the case of Securities of a series offered in a Periodic Offering, to any conditions specified in such Opinion of Counsel; and
- (3) that such Securities, when authenticated and delivered by the Trustee and issued by the Corporation in the manner and subject to any conditions specified in such Opinion of Counsel, will constitute valid and legally binding obligations of the Corporation enforceable in accordance with their terms, subject to bankruptcy, insolvency, fraudulent transfer, reorganization, moratorium and similar laws of general applicability relating to or affecting creditors' rights and to general equity principles.

If such form or terms have been so established, the Trustee shall not be required to authenticate such Securities if the issue of such Securities pursuant to this Indenture will affect the Trustee's own rights, duties or immunities under the Securities and this Indenture or otherwise in a manner which is not reasonably acceptable to the Trustee.

Notwithstanding the provisions of Section 301 and of the preceding paragraph, if all Securities of a series are not to be originally issued at one time, it shall not be necessary to deliver the Officers' Certificate otherwise required pursuant to Section 301 or the Company

Order and Opinion of Counsel otherwise required pursuant to such preceding paragraph at or prior to the authentication of each Security of such series if such documents are delivered at or prior to the authentication upon original issuance of the first Security of such series to be issued.

With respect to Securities of a series offered in a Periodic Offering, the Trustee may rely, as to the authorization by the Corporation of any of such Securities, the form and terms thereof and the legality, validity, binding effect and enforceability thereof, upon the Opinion of Counsel and the other documents delivered pursuant to Sections 201 and 301 and this Section, as applicable, in connection with the first authentication of Securities of such series.

Each Security shall be dated the date of its authentication.

No Security shall be entitled to any benefit under this Indenture or be valid or obligatory for any purpose unless there appears on such Security a certificate of authentication substantially in the form provided for herein executed by the Trustee by manual signature of an authorized signatory, and such certificate upon any Security shall be conclusive evidence, and the only evidence, that such Security has been duly authenticated and delivered hereunder. Notwithstanding the foregoing, if any Security shall have been authenticated and delivered hereunder but never issued and sold by the Corporation, and the Corporation shall deliver such Security to the Trustee for cancellation as provided in Section 309, for all purposes of this Indenture such Security shall be deemed never to have been authenticated and delivered hereunder and shall never be entitled to the benefits of this Indenture.

#### Section 304. Temporary Securities.

Pending the preparation of definitive Securities of any series, the Corporation may execute, and upon Company Order the Trustee shall authenticate and deliver, temporary Securities which are printed, lithographed, typewritten, mimeographed or otherwise produced, in any authorized denomination, substantially of the tenor of the definitive Securities in lieu of which they are issued and with such appropriate insertions, omissions, substitutions and other variations as the officers executing such Securities may determine, as evidenced by their execution of such Securities.

If temporary Securities of any series are issued, the Corporation will cause definitive Securities of that series to be prepared without unreasonable delay. After the preparation of definitive Securities of such series, the temporary Securities of such series shall be exchangeable for definitive Securities of such series, upon surrender of the temporary Securities of such series at the office or agency of the Corporation in a Place of Payment for that series, without charge to the Holder. Upon surrender for cancellation of any one or more temporary Securities of any series, the Corporation shall execute and the Trustee shall authenticate and deliver in exchange therefor one or more definitive Securities of the same series, of any authorized denominations and of like tenor and aggregate principal amount. Until so exchanged, the temporary Securities of any series shall in all respects be entitled to the same benefits under this Indenture as definitive Securities of such series and tenor.

### Section 305. Registration, Registration of Transfer and Exchange.

The Corporation shall cause to be kept at the Corporate Trust Office of the Trustee a register (the register maintained in such office or in any other office or agency of the Corporation in a Place of Payment being herein sometimes referred to as the "Security Register") in which, subject to such reasonable regulations as it may prescribe, the Corporation shall provide for the registration of Securities and of transfers of Securities. The Trustee is hereby appointed "Security Registrar" for the purpose of registering Securities and transfers of Securities as herein provided.

Upon surrender for registration of transfer of any Security of a series at the office or agency of the Corporation in a Place of Payment for that series, the Corporation shall execute, and the Trustee shall authenticate and deliver, in the name of the designated transferee or transferees, one or more new Securities of the same series, of any authorized denominations and of like tenor and aggregate principal amount.

At the option of the Holder, Securities of any series may be exchanged for other Securities of the same series, of any authorized denominations and of like tenor and aggregate principal amount, upon surrender of the Securities to be exchanged at such office or agency. Whenever any Securities are so surrendered for exchange, the Corporation shall execute, and the Trustee shall authenticate and deliver, the Securities, which the Holder making the exchange is entitled to receive.

All Securities issued upon any registration of transfer or exchange of Securities shall be the valid obligations of the Corporation evidencing the same debt, and entitled to the same benefits under this Indenture, as the Securities surrendered upon such registration of transfer or exchange.

Every Security presented or surrendered for registration of transfer or for exchange shall (if so required by the Corporation or the Trustee) be duly endorsed, or be accompanied by a written instrument of transfer in form satisfactory to the Corporation and the Security Registrar duly executed, by the Holder thereof or his attorney duly authorized in writing.

No service charge shall be assessed against the Holder for any registration of transfer or exchange of Securities, but the Corporation may require payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in connection with any registration of transfer or exchange of Securities, other than exchanges pursuant to Section 304, 906 or 1106 not involving any transfer.

If the Securities of any series (or of any series and specified tenor) are to be redeemed, the Corporation shall not be required (A) to issue, register the transfer of or exchange any Securities of that series (or of that series and specified tenor, as the case may be) during a period beginning at the opening of business 15 days before the day of the mailing of a notice of redemption of any such Securities selected for redemption and ending at the close of business on the day of such mailing, or (B) to register the transfer of or exchange any Security so selected for redemption in whole or in part, except the unredeemed portion of any Security being redeemed in part.

The provisions of Clauses (1), (2), (3) and (4) below shall apply only to Global Securities:

- (1) Each Global Security authenticated under this Indenture shall be registered in the name of the Depositary designated for such Global Security or a nominee thereof and delivered to such Depositary or a nominee thereof or custodian therefor, and each such Global Security shall constitute a single Security for all purposes of this Indenture.
- (2) Notwithstanding any other provision in this Indenture, no Global Security may be exchanged in whole or in part for Securities registered, and no transfer of a Global Security in whole or in part may be registered, in the name of any Person other than the Depositary for such Global Security or a nominee thereof unless (A) such Depositary has notified the Corporation that it is unwilling or unable to continue as Depositary for such Global Security and a successor Depositary has not been appointed by the Corporation within 90 days of receipt by the Corporation of such notification, (B) if at any time the Depositary ceases to be a clearing agency registered under the Exchange Act at a time when the Depositary is required to be so registered to act as such Depositary and no successor Depositary shall have been appointed by the Corporation within 90 days after it became aware of such cessation, (C) the Corporation, in its sole discretion, executes and delivers to the Trustee a Company Order to the effect that such Global Security, together with all other Global Securities of the same series, shall be exchangeable as described below, (D) an Event of Default has occurred and is continuing with respect to the Securities of such series, or (E) there shall exist such circumstances, if any, in addition to or in lieu of the foregoing as have been specified for this purpose as contemplated by Section 301. If any of the events described in clauses (A) through (E) of the preceding sentence occur, the beneficial owners of interests in the relevant Global Securities will be entitled to exchange those interests for definitive Securities and, without unnecessary delay but in any event not later than the earliest date on which those interests may be so exchanged, the Corporation will deliver to the Trustee definitive Securities in such form and denominations as are required by or pursuant to this Indenture, and of the same series, containing identical terms and in an aggregate principal amount equal to the principal amount of such Global Securities, such Securities to be duly executed by the Corporation. On or after the earliest date on which such beneficial interests may be so exchanged, such Global Securities shall be surrendered from time to time by the Depositary as shall be specified in the Company Order with respect thereto (which the Corporation agrees to deliver), and in accordance with any instructions given to the Trustee and the Depositary (which instructions shall be in writing but need not be contained in or accompanied by an Officers' Certificate or be accompanied by an Opinion of Counsel), as shall be specified in the Company Order with respect thereto to the Trustee, as the Corporation's agent for such purpose, to be exchanged, in whole or in part, for definitive Securities as described above without charge. The Trustee shall authenticate and make available for delivery, in exchange for each portion of such surrendered Global Security, a like aggregate principal amount of definitive Securities of the same series of authorized denominations and of like tenor as the portion of such Global Security to be exchanged. Promptly following any such exchange in part, such Global Security shall be returned by the Trustee to such Depositary or its custodian. If a definitive Security is issued in exchange for any portion of a Global Security after the

close of business at the place where such exchange occurs on or after (i) any Regular Record Date for such Security and before the opening of business at that Place of Payment on the next Interest Payment Date, or (ii) any Special Record Date for such Security and before the opening of business at such Place of Payment on the related proposed date for the payment of Defaulted Interest, as the case may be, interest shall not be payable on such Interest Payment Date or proposed date for payment, as the case may be, in respect of such definitive Security, but shall be payable on such Interest Date or proposed date for payment, as the case may be, only to the Person to whom interest in respect of such portion of such Global Security shall be payable in accordance with the provisions of this Indenture.

- (3) Subject to Clause (2) above, any exchange or transfer of a Global Security for other Securities may be made in whole or in part, and all Securities issued in exchange for or upon transfer of a Global Security or any portion thereof shall be registered in such names as the Depositary for such Global Security shall direct.
- (4) Every Security authenticated and delivered upon registration of transfer of, or in exchange for or in lieu of, a Global Security or any portion thereof, whether pursuant to this Section, Section 304, 306, 906 or 1106 or otherwise, shall be authenticated and delivered in the form of, and shall be, a Global Security, unless such Security is registered in the name of a Person other than the Depositary for such Global Security or a nominee thereof.

Section 306. Mutilated, Destroyed, Lost and Stolen Securities.

If any mutilated Security is surrendered to the Trustee, the Corporation shall execute and the Trustee shall authenticate and deliver in exchange therefor a new Security of the same series and of like tenor and principal amount and bearing a number not contemporaneously outstanding.

If there shall be delivered to the Corporation and the Trustee (i) evidence to their satisfaction of the destruction, loss or theft of any Security and (ii) such security or indemnity as required by them to save each of them and any agent of either of them harmless, then, in the absence of notice to the Corporation or the Trustee that such Security has been acquired by a bona fide purchaser, the Corporation shall execute and the Trustee shall authenticate and deliver, in lieu of any such destroyed, lost or stolen Security, a new Security of the same series and of like tenor and principal amount and bearing a number not contemporaneously outstanding.

In case any such mutilated, destroyed, lost or stolen Security has become or is about to become due and payable, the Corporation in its discretion may, instead of issuing a new Security, pay such Security.

Upon the issuance of any new Security under this Section, the Corporation may require the payment of a sum sufficient to cover any tax or other governmental charge that may be imposed in relation thereto and any other reasonable expenses (including the fees and expenses of the Trustee) connected therewith.

Every new Security of any series issued pursuant to this Section in lieu of any destroyed, lost or stolen Security shall constitute an original additional contractual obligation of the Corporation, whether or not the destroyed, lost or stolen Security shall be at any time enforceable by anyone, and shall be entitled to all the benefits of this Indenture equally and proportionately with any and all other Securities of that series duly issued hereunder.

The provisions of this Section are exclusive and shall preclude (to the extent lawful) all other rights and remedies with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities.

#### Section 307. Payment of Interest; Interest Rights Preserved.

Except as otherwise provided as contemplated by Section 301 with respect to any series of Securities, interest on any Security which is payable, and is punctually paid or duly provided for, on any Interest Payment Date shall be paid to the Person in whose name that Security (or one or more Predecessor Securities) is registered at the close of business on the Regular Record Date for such interest, such payment to be made at the office or agency maintained for such purpose pursuant to Section 1002; provided, however, that, at the option of the Corporation, interest on any series of Securities that bear interest may be paid (i) by check mailed to the address of the Persons entitled thereto as such addresses shall appear on the Security Register or (ii) by wire transfer at such place and to such account at a banking institution in the United States as may be designated in writing to the Trustee at least 15 days prior to the date for payment by the Persons entitled thereto. Any such instructions given pursuant to clause (ii) shall remain in effect until revoked by written notice to the Trustee at least 15 days prior to any payment date by the Person entitled to such payment.

Except as otherwise provided as contemplated by Section 301 with respect to any series of Securities, any interest on any Security of any series which is payable, but is not punctually paid or duly provided for, on any Interest Payment Date (herein called "Defaulted Interest") shall forthwith cease to be payable to the Holder on the relevant Regular Record Date by virtue of having been such Holder, and such Defaulted Interest may be paid by the Corporation, at its election in each case, as provided in Clause (1) or (2) below:

(1) The Corporation may elect to make payment of any Defaulted Interest to the Persons in whose names the Securities of such series (or their respective Predecessor Securities) are registered at the close of business on a Special Record Date for the payment of such Defaulted Interest, which shall be fixed in the following manner. The Corporation shall notify the Trustee in writing of the amount of Defaulted Interest proposed to be paid on each Security of such series and the date of the proposed payment, and at the same time the Corporation shall deposit with the Trustee an amount of money equal to the aggregate amount proposed to be paid in respect of such Defaulted Interest or shall make arrangements satisfactory to the Trustee for such deposit prior to the date of the proposed payment, such money when deposited to be held in trust for the benefit of the Persons entitled to such Defaulted Interest as in this Clause provided. Thereupon the Trustee shall fix a Special Record Date for the payment of such Defaulted Interest which shall be not more than 15 days and not less than 10 days prior to the date of the proposed payment and not less than 10 days after the receipt by the Trustee of the notice of the

proposed payment. The Trustee shall promptly notify the Corporation of such Special Record Date and, in the name and at the expense of the Corporation, shall cause notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor to be given to each Holder of Securities of such series in the manner set forth in Section 106, not less than 10 days prior to such Special Record Date. Notice of the proposed payment of such Defaulted Interest and the Special Record Date therefor having been so mailed, such Defaulted Interest shall be paid to the Persons in whose names the Securities of such series (or their respective Predecessor Securities) are registered at the close of business on such Special Record Date and shall no longer be payable pursuant to the following Clause (2).

(2) The Corporation may make payment of any Defaulted Interest on the Securities of any series in any other lawful manner not inconsistent with the requirements of any securities exchange, if any, on which such Securities may be listed, and upon such notice as may be required by such exchange, if, after notice given by the Corporation to the Trustee of the proposed payment pursuant to this Clause, such manner of payment shall be deemed practicable by the Trustee.

Subject to the foregoing provisions of this Section, each Security delivered under this Indenture upon registration of transfer of or in exchange for or in lieu of any other Security shall carry the rights to interest accrued and unpaid, and to accrue, which were carried by such other Security.

#### Section 308. Persons Deemed Owners.

Prior to due presentment of a Security for registration of transfer, the Corporation, the Trustee and any agent of the Corporation or the Trustee may treat the Person in whose name such Security is registered as the owner of such Security for the purpose of receiving payment of principal of and any premium and (subject to Section 307) any interest on such Security and for all other purposes whatsoever, whether or not such Security be overdue, and neither the Corporation, the Trustee or any agent of the Corporation or the Trustee shall be affected by notice to the contrary.

### Section 309. Cancellation.

All Securities surrendered for payment, redemption, registration of transfer or exchange or for credit against any sinking fund payment shall, if surrendered to any Person other than the Trustee, be delivered to the Trustee and shall be promptly canceled by it. The Corporation may at any time deliver to the Trustee for cancellation any Securities previously authenticated and delivered hereunder which the Corporation may have acquired in any manner whatsoever, and may deliver to the Trustee (or to any other Person for delivery to the Trustee) for cancellation any Securities previously authenticated hereunder which the Corporation has not issued and sold, and all Securities so delivered shall be promptly canceled by the Trustee. No Securities shall be authenticated in lieu of or in exchange for any Securities canceled as provided in this Section, except as expressly permitted by this Indenture. All canceled Securities held by the Trustee shall be disposed of as directed by a Company Order; <u>provided</u>, <u>however</u>, that the Trustee shall not be required to destroy such canceled Securities.

### Section 310. Computation of Interest.

Except as otherwise specified as contemplated by Section 301 for Securities of any series, interest on the Securities of each series shall be computed on the basis of a 360-day year of twelve 30-day months.

#### Section 311. CUSIP Numbers.

The Corporation in issuing the Securities may use "CUSIP" numbers (if then generally in use), and, if so, the Trustee shall use "CUSIP" numbers in notices of redemption as a convenience to Holders; <u>provided</u> that any such notice may state that no representation is made as to the correctness of such numbers either as printed on the Securities or as contained in any notice of a redemption and that reliance may be placed only on the other identification numbers printed on the Securities, and any such redemption shall not be affected by any defect in or omission of such numbers. The Corporation shall promptly notify the Trustee of any change in the "CUSIP" numbers.

#### ARTICLE IV.

## SATISFACTION AND DISCHARGE

## Section 401. Satisfaction and Discharge of Indenture.

This Indenture shall upon Company Request cease to be of further effect with respect to any series of Securities specified in such Company Request (except as to those surviving rights and obligations specified below), and the Trustee, at the expense of the Corporation, shall execute proper instruments acknowledging satisfaction and discharge of this Indenture as to such series, when

#### (1) either

- (A) all Securities of such series theretofore authenticated and delivered (other than (i) Securities of such series which have been destroyed, lost or stolen and which have been replaced or paid as provided in Section 306 and (ii) Securities of such series for whose payment money has theretofore been deposited in trust or segregated and held in trust by the Corporation and thereafter repaid to the Corporation or discharged from such trust, as provided in Section 1003) have been delivered to the Trustee for cancellation; or
  - (B) all such Securities of such series not theretofore delivered to the Trustee for cancellation
    - (i) have become due and payable, or
    - (ii) will become due and payable at their Stated Maturity within one year, or

(iii) are to be called for redemption within one year under arrangements satisfactory to the Trustee for the giving of notice of redemption by the Trustee in the name, and at the expense, of the Corporation,

and the Corporation, in the case of (B) above, has deposited or caused to be deposited with the Trustee as trust funds in trust for the purpose money in an amount sufficient to pay and discharge, and which shall be applied by the Trustee to pay and discharge, the entire indebtedness on such Securities not theretofore delivered to the Trustee for cancellation, for principal and any premium and interest to the date of such deposit (in the case of Securities which have become due and payable) or to the Stated Maturity or Redemption Date, as the case may be;

- (2) the Corporation has paid or caused to be paid all other sums payable hereunder by the Corporation; and
- (3) the Corporation has delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent herein provided for relating to the satisfaction and discharge of this Indenture as to such series have been complied with.

Notwithstanding the satisfaction and discharge of this Indenture with respect to any series of Securities, the obligations of the Corporation to the Trustee under Section 607, the obligations of the Corporation to any Authenticating Agent under Section 614 and, if money shall have been deposited with the Trustee pursuant to subclause (B) of Clause (1) of this Section, the obligations of the Corporation and the Trustee with respect to the Securities of such series under Sections 304, 305, 306, 402, 1002, 1003 and 1306 shall survive such satisfaction and discharge.

Section 402. <u>Application of Trust Money</u>.

Subject to the provisions of the last paragraph of Section 1003, all money deposited with the Trustee pursuant to Section 401 shall be held in trust and applied by it, in accordance with the provisions of the Securities and this Indenture, to the payment, either directly or through any Paying Agent (other than the Corporation acting as its own Paying Agent) as the Trustee may determine, to the Persons entitled thereto, of the principal and any premium and interest for whose payment such money has been deposited with the Trustee.

ARTICLE V.

**REMEDIES** 

Section 501. Events of Default.

"Event of Default," wherever used herein with respect to Securities of any series, means any one of the following events (whatever the reason for such Event of Default and whether it shall be voluntary or involuntary or be effected by operation of law or pursuant to any judgment, decree or order of any court or any order, rule or regulation of any administrative or

governmental body), unless it is specifically deleted or modified in the Board Resolution or Officers' Certificate delivered to the Trustee prior to the issuance of such series of Securities or supplemental indenture under which such series of Securities is issued or has been deleted or modified in an indenture supplemental hereto:

- (1) default in the payment of any interest upon any Security of that series when it becomes due and payable, and continuance of such default for a period of 30 days; <u>provided</u>, <u>however</u>, that if the Corporation is permitted by the terms of the Securities of such series to defer the payment in question, the date on which such payment is due and payable shall be the date on which the Corporation is required to make payment following such deferral, if such deferral has been elected pursuant to the terms of the Securities; or
  - (2) default in the payment of the principal of or any premium on any Security of that series at its Maturity; or
  - (3) default in the making of any sinking fund payment, when and as due by the terms of a Security of that series; or
- (4) default in the performance, or breach, of any covenant or warranty of the Corporation in this Indenture (other than a covenant or warranty a default in whose performance or whose breach is elsewhere in this Section specifically dealt with or which has expressly been included in this Indenture solely for the benefit of a series of Securities other than that series) or the Securities of that series, and continuance of such default or breach for a period of 60 days after there has been given, by registered or certified mail, to the Corporation by the Trustee or to the Corporation and the Trustee by the Holders of at least 25% in principal amount of the Outstanding Securities of that series a written notice specifying such default or breach and requiring it to be remedied and stating that such notice is a "Notice of Default" hereunder; or
- (5) the entry by a court having jurisdiction in the premises of (A) a decree or order for relief in respect of the Corporation in an involuntary case or proceeding under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law or (B) a decree or order adjudging the Corporation a bankrupt or insolvent, or approving as properly filed a petition seeking reorganization, arrangement, adjustment or composition of or in respect of the Corporation under any applicable federal or state law, or appointing a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of the Corporation or of any substantial part of its property, or ordering the winding-up or liquidation of its affairs, and the continuance of any such decree or order for relief or any such other decree or order unstayed and in effect for a period of 90 consecutive days; or
- (6) the commencement by the Corporation of a voluntary case or proceeding under any applicable federal or state bankruptcy, insolvency, reorganization or other similar law or of any other case or proceeding to be adjudicated a bankrupt or insolvent, or the consent by the Corporation to the entry of a decree or order for relief in respect of the Corporation in an involuntary case or proceeding under any applicable federal or state

bankruptcy, insolvency, reorganization or other similar law or to the commencement of any bankruptcy or insolvency case or proceeding against the Corporation, or the filing by the Corporation of a petition or answer or consent seeking reorganization or relief under any applicable federal or state law, or the consent by the Corporation to the filing of such petition or to the appointment of or taking possession by a custodian, receiver, liquidator, assignee, trustee, sequestrator or other similar official of the Corporation or of any substantial part of its property, or the making by the Corporation of an assignment for the benefit of creditors, or the admission by the Corporation in writing of its inability to pay its debts generally as they become due, or the authorization of any such action by the Board of Directors of the Corporation; or

(7) any other Event of Default provided with respect to Securities of that series.

#### Section 502. Acceleration of Maturity; Rescission and Annulment.

If an Event of Default with respect to Securities of any series at the time Outstanding occurs and is continuing, then in every such case the Trustee or the Holders of not less than 25% in principal amount of the Outstanding Securities of that series may declare the principal amount of all the Securities of that series (or, if any Securities of that series are Original Issue Discount Securities, such portion of the principal amount of such Securities as may be specified by the terms thereof) and accrued and unpaid interest, if any, thereon to be due and payable immediately, by a notice in writing to the Corporation (and to the Trustee if given by Holders), and upon any such declaration such principal amount (or specified amount) and accrued and unpaid interest shall become immediately due and payable.

At any time after such a declaration of acceleration with respect to Securities of any series has been made and before a judgment or decree for payment of the money due has been obtained by the Trustee as hereinafter in this Article provided, the Event of Default giving rise to such declaration of acceleration shall, without further act, be deemed to have been waived, and such declaration and its consequences shall, without further act, be deemed to have been rescinded and annulled, if

- (1) the Corporation has paid or deposited with the Trustee a sum sufficient to pay
  - (A) all overdue interest on all Securities of that series which has become due otherwise than by such declaration of acceleration,
- (B) the principal of (and premium, if any, on) any Securities of that series which have become due otherwise than by such declaration of acceleration and, to the extent permitted by law, any interest thereon at the rate or rates prescribed therefor in such Securities or, if no such rate or rates are so provided, at the rate or respective rates, as the case may be, of interest borne by such Securities,
- (C) to the extent that payment of such interest is lawful, interest upon overdue interest which has become due otherwise than by such declaration of

acceleration at the rate or rates prescribed therefor in such Securities or, if no such rate or rates are so provided, at the rate or respective rates, as the case may be, of interest borne by such Securities, and

(D) all sums paid or advanced by the Trustee hereunder and the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel and any other amounts due the Trustee under Section 607;

and

(2) all Events of Default with respect to Securities of that series, other than the non-payment of the principal of or accrued and unpaid interest on Securities of that series which have become due solely by such declaration of acceleration, have been cured or waived as provided in Section 513.

No such rescission shall affect any subsequent default or impair any right consequent thereon.

#### Section 503. Collection of Indebtedness and Suits for Enforcement by Trustee.

The Corporation covenants that if

- (1) default is made in the payment of any interest on any Security when such interest becomes due and payable and such default continues for a period of 30 days,
  - (2) default is made in the payment of the principal of (or premium, if any, on) any Security at the Maturity thereof, or
  - (3) default is made in the deposit of any mandatory sinking fund payment applicable to any Security when due,

the Corporation will, upon demand of the Trustee, pay to it, for the benefit of the Holders of such Securities, the whole amount then due and payable on such Securities for principal and any premium and interest and, to the extent that payment of such interest shall be legally enforceable, interest on any overdue principal and premium and on any overdue interest, at the rate or rates prescribed therefor in such Securities or, if no such rate or rates are so provided, at the rate or respective rates, as the case may be, of interest borne by such Securities, and, in addition thereto, such further amount as shall be sufficient to cover the costs and expenses of collection, including the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, and any other amounts due the Trustee under Section 607.

If the Corporation fails to pay the money it is required to pay the Trustee pursuant to the preceding paragraph forthwith upon demand of the Trustee, the Trustee, in its own name and as trustee of an express trust, may institute a judicial proceeding for the collection of the money so due and unpaid, and may prosecute such proceeding to judgment or final decree, and may enforce the same against the Corporation or any other obligor upon such Securities endorsed thereon and collect the moneys adjudged or decreed to be payable in the manner provided by law out of the property of the Corporation or any other obligor upon such Securities, wherever situated.

If an Event of Default with respect to Securities of any series occurs and is continuing, the Trustee may in its discretion proceed to protect and enforce its rights and the rights of the Holders of Securities of such series by such appropriate judicial proceedings as the Trustee shall deem most effectual to protect and enforce any such rights, whether for the specific enforcement of any covenant or agreement in this Indenture or in aid of the exercise of any power granted herein, or to enforce any other proper remedy.

#### Section 504. Trustee May File Proofs of Claim.

In case of any judicial proceeding relative to the Corporation (or any other obligor upon the Securities), its property or its creditors, the Trustee (irrespective of whether the principal of such Securities shall then be due and payable as therein expressed or by declaration of acceleration or otherwise and irrespective of whether the Trustee shall have made any demand on the Corporation for the payment of overdue principal, premium, if any, or interest) shall be entitled and empowered, by intervention in such proceeding or otherwise, to take any and all actions authorized under the Trust Indenture Act in order to have claims of the Holders and the Trustee allowed in any such proceeding. In case of the pendency of any receivership, insolvency, liquidation, bankruptcy, reorganization adjustment, composition or other similar judicial proceeding relative to the Corporation, the Trustee (irrespective of whether the principal of such Securities shall then be due and payable as therein expressed or by declaration of acceleration or otherwise and irrespective of whether the Trustee shall have made any demand on the Corporation for the payment of overdue principal, premium, if any, or interest) shall be authorized to file and prove a claim for the whole amount of principal (and premium, if any) and interest owing and unpaid in respect of the Securities of such series and to file such other papers or documents as may be necessary or advisable in order to have the claims of the Trustee (including any claim for the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel) and of the Holders of such Securities allowed in such judicial proceeding, to collect and receive any moneys or other property payable or deliverable on any such claims and to distribute the same; and any custodian, receiver, assignee, trustee, liquidator, sequestrator or other similar official in any such judicial proceeding is hereby authorized by each Holder to make such payments to the Trustee and, in the event that the Trustee shall consent to the making of such payments directly to the Holders, to pay to the Trustee any amount due it for the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, and any other amounts due the Trustee under Section 607.

No provision of this Indenture shall be deemed to authorize the Trustee to authorize or consent to or accept or adopt on behalf of any Holder any plan of reorganization, arrangement, adjustment or composition affecting the Securities or the rights of any Holder thereof or to authorize the Trustee to vote in respect of the claim of any Holder in any such proceeding; <u>provided</u>, <u>however</u>, that the Trustee may, on behalf of the Holders, vote for the election of a trustee in bankruptcy or similar official and be a member of a creditors' or other similar committee.

### Section 505. Trustee May Enforce Claims Without Possession of Securities.

All rights of action and claims under this Indenture or the Securities may be prosecuted and enforced by the Trustee without the possession of any of the Securities or the production thereof in any proceeding relating thereto, and any such proceeding instituted by the Trustee shall be brought in its own name as trustee of an express trust, and any recovery of judgment shall, after provision for the payment of the reasonable compensation, expenses, disbursements and advances of the Trustee, its agents and counsel, be for the ratable benefit of the Holders of the Securities in respect of which such judgment has been recovered.

## Section 506. Application of Money Collected.

Any money collected by the Trustee pursuant to this Article shall be applied in the following order, at the date or dates fixed by the Trustee and, in case of the distribution of such money on account of principal or any premium or interest, upon presentation of the Securities and the notation thereon of the payment if only partially paid and upon surrender thereof if fully paid:

First: To the payment of all amounts due the Trustee under Section 607;

<u>Second</u>: To the payment of the amounts then due and unpaid for principal of and any premium and interest on the Securities in respect of which or for the benefit of which such money has been collected, ratably, without preference or priority of any kind, according to the aggregate amounts due and payable on such Securities for principal and any premium and interest; and

Third: To the payment of the balance, if any, to the Corporation or any other Person or Persons legally entitled thereto.

#### Section 507. Limitation on Suits.

No Holder of any Security of any series shall have any right to institute any proceeding, judicial or otherwise, with respect to this Indenture, or for the appointment of a receiver or trustee, or for any other remedy hereunder, unless

- (1) such Holder has previously given written notice to the Trustee of a continuing Event of Default with respect to the Securities of that series;
- (2) the Holders of not less than 25% in principal amount of the Outstanding Securities of that series shall have made written request to the Trustee to institute proceedings in respect of such Event of Default in its own name as Trustee hereunder;
- (3) such Holder or Holders have offered to the Trustee reasonable indemnity against the costs, expenses and liabilities to be incurred in compliance with such request;
  - (4) the Trustee for 60 days after its receipt of such notice, request and offer of indemnity has failed to institute any such proceeding; and

(5) no direction inconsistent with such written request has been given to the Trustee during such 60-day period by the Holders of a majority in principal amount of the Outstanding Securities of that series;

it being understood and intended that no one or more of such Holders shall have any right in any manner whatever by virtue of, or by availing of, any provision of this Indenture to affect, disturb or prejudice the rights of any other of such Holders, or to obtain or to seek to obtain priority or preference over any other of such Holders or to enforce any right under this Indenture, except in the manner herein provided and for the equal and ratable benefit of all of such Holders.

## Section 508. <u>Unconditional Right of Holders to Receive Principal</u>, <u>Premium and Interest</u>.

Notwithstanding any other provision in this Indenture, the Holder of any Security shall have the right, which is absolute and unconditional, to receive payment of the principal of and any premium and (subject to Section 307) interest on such Security on the respective Stated Maturities expressed in such Security (or, in the case of redemption, on the Redemption Date) and to institute suit for the enforcement of any such payment, and such rights shall not be impaired without the consent of such Holder.

# Section 509. Restoration of Rights and Remedies.

If the Trustee or any Holder has instituted any proceeding to enforce any right or remedy under this Indenture and such proceeding has been discontinued or abandoned for any reason, or has been determined adversely to the Trustee or to such Holder, then and in every such case, subject to any determination in such proceeding, the Corporation, the Trustee and the Holders shall be restored severally and respectively to their former positions hereunder and thereafter all rights and remedies of the Trustee and the Holders shall continue as though no such proceeding had been instituted.

## Section 510. Rights and Remedies Cumulative.

Except as otherwise provided with respect to the replacement or payment of mutilated, destroyed, lost or stolen Securities in the last paragraph of Section 306, no right or remedy herein conferred upon or reserved to the Trustee or to the Holders is intended to be exclusive of any other right or remedy, and every right and remedy shall, to the extent permitted by law, be cumulative and in addition to every other right and remedy given hereunder or now or hereafter existing at law or in equity or otherwise. The assertion or employment of any right or remedy hereunder, or otherwise, shall not prevent the concurrent assertion or employment of any other appropriate right or remedy.

## Section 511. Delay or Omission Not Waiver.

No delay or omission of the Trustee or of any Holder of any Securities to exercise any right or remedy accruing upon any Event of Default shall, to the extent permitted by law, impair any such right or remedy or constitute a waiver of any such Event of Default or an acquiescence therein.

Every right and remedy given by this Article or by law to the Trustee or to the Holders may, to the extent permitted by law, be exercised from time to time, and as often as may be deemed expedient, by the Trustee or by the Holders, as the case may be.

#### Section 512. Control By Holders.

The Holders of a majority in principal amount of the Outstanding Securities of any series shall have the right to direct the time, method and place of conducting any proceeding for any remedy available to the Trustee, or exercising any trust or power conferred on the Trustee, with respect to the Securities of such series; provided that

- (1) such direction shall not be in conflict with any rule of law or with this Indenture,
- (2) subject to Section 601, the Trustee may take any other action deemed proper by the Trustee which is not inconsistent with such direction, and
- (3) such direction is not unduly prejudicial to the rights of other Holders of Securities of that series not joining in that action.

#### Section 513. Waiver of Past Defaults.

The Holders of not less than a majority in principal amount of the Outstanding Securities of any series with respect to which any default under this Indenture shall have occurred and be continuing may, on behalf of the Holders of all Securities of such series, waive such past default under this Indenture with respect to such Securities and its consequences, except a default

- (1) in the payment of the principal of or any premium or interest on any Security of such series, or
- (2) in respect of a covenant or provision hereof which under Article IX cannot be modified or amended without the consent of the Holder of each Outstanding Security of such series affected.

Upon any such waiver, such default shall cease to exist and be deemed not to have occurred, and any Event of Default arising therefrom shall be deemed to have been cured and not to have occurred, for every purpose of this Indenture; but no such waiver shall extend to any subsequent or other default or impair any right consequent thereon.

### Section 514. Undertaking for Costs.

All parties to this Indenture agree, and each Holder of any Security by his acceptance thereof shall be deemed to have agreed, that any court may in its discretion require, in any suit for the enforcement of any right or remedy under this Indenture, or in any suit against the Trustee for any action taken or omitted by it as Trustee, the filing by any party litigant in such suit of an undertaking to pay the costs of such suit, and that such court may in its discretion assess reasonable costs, including reasonable attorneys' fees and disbursements, against any party litigant in such suit having due regard to the merits and good faith of the claims or defenses made

by such party litigant, but the provisions of this Section 514 shall not apply to any suit instituted by the Trustee, to any suit instituted by any Holder, or group of Holders, holding in the aggregate more than 10% in principal amount of Outstanding Securities of any series, or to any suit instituted by any Holder for the enforcement of the payment of the principal of (or premium, if any) or interest, if any, on any Security on or after the respective Stated Maturities expressed in such Security (or, in the case of redemption, on or after the Redemption Date).

#### Section 515. Waiver of Stay or Extension Laws.

The Corporation covenants (to the extent that it may lawfully do so) that it will not at any time insist upon, or plead, or in any manner whatsoever claim or take the benefit or advantage of, any stay or extension law or any usury law or any other law wherever enacted, now or at any time hereafter in force, which would prohibit or forgive the Corporation from paying all or any portion of the principal of or premium, if any, or interest on any Securities as contemplated herein or therein or which may affect the covenants or the performance of this Indenture; and the Corporation (to the extent that it may lawfully do so) hereby expressly waives all benefit or advantage of any such law and covenants that it will not hinder, delay or impede the execution of any power herein granted to the Trustee, but will suffer and permit the execution of every such power as though no such law had been enacted.

#### ARTICLE VI.

#### THE TRUSTEE

## Section 601. Certain Duties and Responsibilities.

The duties and responsibilities of the Trustee shall be as provided by the Trust Indenture Act. Notwithstanding the foregoing, no provision of this Indenture shall require the Trustee to expend or risk its own funds or otherwise incur any financial liability in the performance of any of its duties hereunder, or in the exercise of any of its rights or powers, if it shall have reasonable grounds for believing that repayment of such funds or adequate indemnity against such risk or liability is not reasonably assured to it. The permissive right of the Trustee to do things enumerated in this Indenture shall not be construed as a duty to do such things and in no event shall the Trustee be liable for the consequences of any act or omission except to the extent of the Trustee's negligence, negligent failure to act or willful misconduct. Whether or not therein expressly so provided, every provision of this Indenture relating to the conduct or affecting the liability of or affording protection to the Trustee shall be subject to the provisions of this Section.

## Section 602. Notice of Defaults.

If a default occurs hereunder with respect to Securities of any series, the Trustee shall give the Holders of Securities of such series notice of such default as and to the extent provided by the Trust Indenture Act; <u>provided</u>, <u>however</u>, that in the case of any default of the character specified in Section 501(4) with respect to Securities of such series, no such notice to Holders shall be given until at least 30 days after the occurrence thereof. For the purpose of this Section, the term "default" means any event which is, or after notice or lapse of time or both would become, an Event of Default with respect to Securities of such series.

#### Section 603. Certain Rights of Trustee.

Subject to the provisions of Section 601:

- (1) the Trustee may rely and shall be protected in acting or refraining from acting upon any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture, note, other evidence of indebtedness or other paper or document (whether in its original or facsimile form) believed by it to be genuine and to have been signed or presented by the proper party or parties;
- (2) any request or direction of the Corporation mentioned herein shall be sufficiently evidenced by a Company Request or Company Order or as otherwise expressly provided herein, and any resolution of the Board of Directors shall be sufficiently evidenced by a Board Resolution;
- (3) whenever in the administration of this Indenture the Trustee shall deem it desirable that a matter be proved or established prior to taking, suffering or omitting any action hereunder, the Trustee (unless other evidence be herein specifically prescribed) may, in the absence of bad faith on its part, rely upon an Officers' Certificate;
- (4) the Trustee may consult with counsel of its selection and the advice of such counsel or any Opinion of Counsel shall be full and complete authorization and protection in respect of any action taken, suffered or omitted by it hereunder in good faith and in reliance thereon;
- (5) prior to the occurrence of an Event of Default, the Trustee shall undertake to perform only such duties as are specifically set forth in this Indenture; and in case an Event of Default has occurred and is continuing with respect to the Securities of any series, the Trustee shall be under no obligation to exercise any of the rights or powers vested in it by this Indenture with respect to the Securities of such series, whether at the request or direction of any of the Holders thereof or pursuant to any other provision in this Indenture, unless such Holders shall have offered to the Trustee reasonable security or indemnity against the costs, expenses and liabilities which might be incurred by it in compliance with such request or direction;
- (6) the Trustee shall not be bound to make any investigation into the facts or matters stated in any resolution, certificate, statement, instrument, opinion, report, notice, request, direction, consent, order, bond, debenture, note, other evidence of indebtedness or other paper or document, but the Trustee, in its discretion, may make such further inquiry or investigation into such facts or matters as it may see fit, and, if the Trustee shall determine to make such further inquiry or investigation, it shall be entitled, at reasonable times previously notified to the Corporation, to examine the relevant books, records and premises of the Corporation, personally or by agent or attorney;
- (7) the Trustee may execute any of the trusts or powers hereunder or perform any duties hereunder either directly or by or through agents or attorneys and the Trustee shall not be responsible for any misconduct or negligence on the part of any agent or attorney appointed with due care by it hereunder; and

(8) the Trustee shall not be deemed to have notice of any Default or Event of Default unless a Responsible Officer of the Trustee has actual knowledge thereof or unless written notice of any event which is in fact such a default is received by the Trustee at the Corporate Trust Office of the Trustee, and such notice references the Securities and this Indenture.

## Section 604. Not Responsible for Recitals or Issuance of Securities.

The recitals contained herein and in the Securities, except the Trustee's certificates of authentication, shall be taken as the statements of the Corporation, and neither the Trustee nor any Authenticating Agent assumes any responsibility for their correctness. The Trustee makes no representations as to the validity or sufficiency of this Indenture or of the Securities. Neither the Trustee nor any Authenticating Agent shall be accountable for the use or application by the Corporation of Securities or the proceeds thereof.

## Section 605. May Hold Securities.

The Trustee, any Authenticating Agent, any Paying Agent, any Security Registrar or any other agent of the Corporation, in its individual or any other capacity, may become the owner or pledgee of Securities and, subject to Sections 608 and 613, may otherwise deal with the Corporation with the same rights it would have if it were not Trustee, Authenticating Agent, Paying Agent, Security Registrar or such other agent.

#### Section 606. Money Held in Trust.

Money held by the Trustee in trust hereunder need not be segregated from other funds except to the extent required by law. The Trustee shall be under no liability for interest on any money received by it hereunder except as otherwise agreed in writing with the Corporation.

## Section 607. Compensation and Reimbursement.

## The Corporation agrees

- (1) to pay to the Trustee from time to time such compensation as shall be agreed to in writing between the Corporation and the Trustee for all services rendered by it hereunder (which compensation shall not be limited by any provision of law in regard to the compensation of a trustee of an express trust);
- (2) except as otherwise expressly provided herein, to reimburse the Trustee upon its request for all reasonable expenses, disbursements and advances incurred or made by the Trustee in accordance with any provision of this Indenture (including the reasonable compensation and the expenses and disbursements of its agents and counsel), except any such expense, disbursement or advance as may be attributable to its negligence, willful misconduct or bad faith; and
- (3) to indemnify the Trustee for, and to hold it harmless against, any and all loss, liability, damage, claim or expense, including taxes (other than taxes based on the income of the Trustee) incurred without negligence, willful misconduct or bad faith on its

part, arising out of or in connection with the acceptance or administration of the trust or trusts hereunder, including the costs and expenses of defending itself against any claim or liability in connection with the exercise or performance of any of its powers or duties hereunder.

The Trustee shall have a first priority lien prior to the Securities upon all property and funds held by it hereunder for any amount owing it or any predecessor Trustee pursuant to this Section 607, except with respect to funds held in trust for the benefit of the Holders of Securities.

Without limiting any rights available to the Trustee under applicable law, when the Trustee incurs expenses or renders services in connection with an Event of Default specified in Section 501(6) or Section 501(7), the expenses (including the reasonable charges and expenses of its counsel) and the compensation for the services are intended to constitute expenses of administration under any applicable federal or state bankruptcy, insolvency or other similar law.

The provisions of this Section shall survive the termination of this Indenture.

## Section 608. Conflicting Interests.

If the Trustee has or shall acquire a conflicting interest within the meaning of the Trust Indenture Act, the Trustee shall either eliminate such interest or resign, to the extent and in the manner provided by, and subject to the provisions of, the Trust Indenture Act and this Indenture. To the extent permitted by such Act, the Trustee shall not be deemed to have a conflicting interest by virtue of being a trustee under this Indenture with respect to Securities of more than one series

# Section 609. Corporate Trustee Required; Eligibility.

There shall at all times be a Trustee hereunder with respect to the of each series, which may be Trustee hereunder for Securities of one or more other series. Each Trustee shall be a Person that is eligible pursuant to the Trust Indenture Act to act as such and has a combined capital and surplus of at least \$50,000,000. If any such Person publishes reports of condition at least annually, pursuant to law or to the requirements of its supervising or examining authority, then for the purposes of this Section and to the extent permitted by the Trust Indenture Act, the combined capital and surplus of such Person shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition so published. If at any time the Trustee with respect to the Securities of any series shall cease to be eligible in accordance with the provisions of this Section, it shall resign immediately in the manner and with the effect hereinafter specified in this Article.

## Section 610. Resignation and Removal; Appointment of Successor.

No resignation or removal of the Trustee and no appointment of a successor Trustee pursuant to this Article shall become effective until the acceptance of appointment by the successor Trustee in accordance with the applicable requirements of Section 611.

The Trustee may resign at any time with respect to the Securities of one or more series by giving written notice thereof to the Corporation. If the instrument of acceptance by a successor

Trustee required by Section 611 shall not have been delivered to the Trustee within 30 days after the giving of such notice of resignation, the resigning Trustee may petition, at the expense of the Corporation, any court of competent jurisdiction for the appointment of a successor Trustee with respect to the Securities of such series.

The Trustee may be removed at any time with respect to the Securities of any series by Act of the Holders of a majority in principal amount of the Outstanding Securities of such series, delivered to the Trustee and the Corporation.

If at any time:

- (1) the Trustee shall fail to comply with Section 608 after written request therefor by the Corporation or by any Holder who has been a bona fide Holder of a Security for at least six months, or
- (2) the Trustee shall cease to be eligible under Section 609 and shall fail to resign after written request therefor by the Corporation or by any such Holder, or
- (3) the Trustee shall become incapable of acting or shall be adjudged a bankrupt or insolvent or a receiver of the Trustee or of its property shall be appointed or any public officer shall take charge or control of the Trustee or of its property or affairs for the purpose of rehabilitation, conservation or liquidation, then, in any such case, (A) the Corporation by a Board Resolution may remove the Trustee with respect to all Securities, or (B) subject to Section 514, any Holder who has been a bona fide Holder of a Security for at least six months may, on behalf of himself and all others similarly situated, petition any court of competent jurisdiction for the removal of the Trustee with respect to all Securities and the appointment of a successor Trustee or Trustees.

If the Trustee shall resign, be removed or become incapable of acting, or if a vacancy shall occur in the office of Trustee for any cause, with respect to the Securities of one or more series, the Corporation, by Board Resolution, shall promptly appoint a successor Trustee or Trustees with respect to the Securities of that or those series (it being understood that any such successor Trustee may be appointed with respect to the Securities of one or more or all of such series and that at any time there shall be only one Trustee with respect to the Securities of any particular series) and shall comply with the applicable requirements of Section 611. If, within one year after such resignation, removal or incapability, or the occurrence of such vacancy, a successor Trustee with respect to the Securities of any series shall be appointed by Act of the Holders of a majority in principal amount of the Outstanding Securities of such series delivered to the Corporation and the retiring Trustee, the successor Trustee so appointed shall, forthwith upon its acceptance of such appointment in accordance with the applicable requirements of Section 611, become the successor Trustee with respect to the Securities of such series and to that extent supersede the successor Trustee appointed by the Corporation. If no successor Trustee with respect to the Securities of any series shall have been so appointed by the Corporation or the Holders and accepted appointment in the manner required by Section 611, any Holder who has been a bona fide Holder of a Security of such series for at least six months may, on behalf of himself and all others similarly situated, petition any court of competent jurisdiction for the appointment of a successor Trustee with respect to the Securities of such series.

The Corporation shall give notice of each resignation and each removal of the Trustee with respect to the Securities of any series and each appointment of a successor Trustee with respect to the Securities of any series to all Holders of Securities of such series in the manner provided in Section 106. Each notice shall include the name of the successor Trustee with respect to the Securities of such series and the address of its Corporate Trust Office.

## Section 611. Acceptance of Appointment by Successor.

In case of the appointment hereunder of a successor Trustee with respect to all Securities, every such successor Trustee so appointed shall execute, acknowledge and deliver to the Corporation and to the retiring Trustee an instrument accepting such appointment, and thereupon the resignation or removal of the retiring Trustee shall become effective and such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee; but, on the request of the Corporation or the successor Trustee, such retiring Trustee shall, upon payment of its charges, execute and deliver an instrument transferring to such successor Trustee all the rights, powers and trusts of the retiring Trustee and shall duly assign, transfer and deliver to such successor Trustee all property and money held by such retiring Trustee hereunder (subject to the lien provided for in Section 607).

In case of the appointment hereunder of a successor Trustee with respect to the Securities of one or more (but not all) series, the Corporation, the retiring Trustee and each successor Trustee with respect to the Securities of one or more series shall execute and deliver an indenture supplemental hereto wherein each successor Trustee shall accept such appointment and which (1) shall contain such provisions as shall be necessary or desirable to transfer and confirm to, and to vest in, each successor Trustee all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates, (2) if the retiring Trustee is not retiring with respect to all Securities, shall contain such provisions as shall be deemed necessary or desirable to confirm that all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series as to which the retiring Trustee is not retiring shall continue to be vested in the retiring Trustee, and (3) shall add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, it being understood that nothing herein or in such supplemental indenture shall constitute such Trustees co-trustees of the same trust and that each such Trustee shall be trustee of a trust or trusts hereunder separate and apart from any trust or trusts hereunder administered by any other such Trustee; and upon the execution and delivery of such supplemental indenture the resignation or removal of the retiring Trustee shall become effective to the extent provided therein and each such successor Trustee, without any further act, deed or conveyance, shall become vested with all the rights, powers, trusts and duties of the retiring Trustee with respect to the Securities of that or those series to which the appointment of such successor Trustee relates; but, on request

Upon request of any such successor Trustee, the Corporation shall execute any and all instruments for more fully and certainly vesting in and confirming to such successor Trustee all such rights, powers and trusts referred to in the first or second preceding paragraph, as the case may be.

No successor Trustee shall accept its appointment unless at the time of such acceptance such successor Trustee shall be qualified and eligible under this Article.

#### Section 612. Merger, Conversion, Consolidation or Succession to Business.

Any corporation into which the Trustee may be merged or converted or with which it may be consolidated, or any corporation resulting from any merger, conversion or consolidation to which the Trustee shall be a party, or any corporation succeeding to all or substantially all the corporate trust business of the Trustee, shall be the successor of the Trustee hereunder, provided that such corporation shall be otherwise qualified and eligible under this Article, without the execution or filing of any paper or any further act on the part of any of the parties hereto. In case any Securities shall have been authenticated, but not delivered, by the Trustee then in office, any successor by merger, conversion or consolidation to such authenticating Trustee may adopt such authentication and deliver the Securities so authenticated with the same effect as if such successor Trustee had itself authenticated such Securities.

# Section 613. Preferential Collection of Claims Against Corporation.

If and when the Trustee shall be or become a creditor of the Corporation (or any other obligor upon the Securities), the Trustee shall be subject to the provisions of the Trust Indenture Act regarding the collection of claims against the Corporation (or any such other obligor).

## Section 614. Appointment of Authenticating Agent.

The Trustee may appoint an Authenticating Agent or Agents acceptable to the Corporation with respect to one or more series of Securities which shall be authorized to act on behalf of the Trustee to authenticate Securities of such series issued upon exchange, registration of transfer or partial redemption thereof or pursuant to Section 306, and Securities so authenticated shall be entitled to the benefits of this Indenture and shall be valid and obligatory for all purposes as if authenticated by the Trustee hereunder. Wherever reference is made in this Indenture to the authentication and delivery of Securities by the Trustee or the Trustee's certificate of authentication, such reference shall be deemed to include authentication and delivery on behalf of the Trustee by an Authenticating Agent and a certificate of authentication executed on behalf of the Trustee by an Authenticating Agent. Each Authenticating Agent shall be acceptable to the Corporation and shall at all times be a corporation organized and doing business under the laws of the United States of America, any State thereof or the District of Columbia, authorized under such laws to act as Authenticating Agent, having a combined capital and surplus of not less than \$50,000,000 and subject to supervision or examination by federal or state authority. If such Authenticating Agent publishes reports of condition at least annually, pursuant to law or to the requirements of said supervising or examining authority, then for the purposes of this Section, the combined capital and surplus of such Authenticating Agent shall be deemed to be its combined capital and surplus as set forth in its most recent report of condition

so published. If at any time an Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section, such Authenticating Agent shall resign immediately in the manner and with the effect specified in this Section.

Any corporation into which an Authenticating Agent may be merged or converted or with which it may be consolidated, or any corporation resulting from any merger, conversion or consolidation to which such Authenticating Agent shall be a party, or any corporation succeeding to all or substantially all the corporate agency or corporate trust business of an Authenticating Agent, shall continue to be an Authenticating Agent, provided that such corporation shall be otherwise eligible under this Section, without the execution or filing of any paper or any further act on the part of the Trustee or the Authenticating Agent.

An Authenticating Agent may resign at any time by giving written notice thereof to the Trustee and to the Corporation. The Trustee may at any time terminate the agency of an Authenticating Agent by giving written notice thereof to such Authenticating Agent and to the Corporation. Upon receiving such a notice of resignation or upon such a termination, or in case at any time such Authenticating Agent shall cease to be eligible in accordance with the provisions of this Section, the Trustee may appoint a successor Authenticating Agent which shall be acceptable to the Corporation and shall give notice of such appointment in the manner provided in Section 106 to all Holders of Securities of the series with respect to which such Authenticating Agent will serve. Any successor Authenticating Agent upon acceptance of its appointment hereunder shall become vested with all the rights, powers and duties of its predecessor hereunder, with like effect as if originally named as an Authenticating Agent. No successor Authenticating Agent shall be appointed unless eligible under the provisions of this Section.

The Corporation agrees to pay to each Authenticating Agent from time to time reasonable compensation for its services under this Section.

If an appointment with respect to one or more series is made pursuant to this Section, the Securities of such series may have endorsed thereon, in addition to the Trustee's certificate of authentication, an alternative certificate of authentication in the following form:

This is one of the Securities of the series designated therein referred to in the within-mentioned Indenture.

	Bank National Association, rustee
By:	
	As Authenticating Agent
By:	
	Authorized Signatory

### Section 615. Trustee's Application for Instructions from the Corporation.

Any application by the Trustee for written instructions from the Corporation may, at the option of the Trustee, set forth in writing any action proposed to be taken or omitted by the Trustee under this Indenture and the date on and/or after which such action shall be taken or such omission shall be effective. The Trustee shall not be liable to the Corporation for any action taken by, or omission of, the Trustee in accordance with a proposal included in such application on or after the date specified in such application (which date shall not be less than three Business Days after the date any officer of the Corporation actually receives such application, unless any such officer shall have consented in writing to any earlier date) unless prior to taking any such action (or the effective date in the case of an omission), the Trustee shall have received written instructions in response to such application specifying the action to be taken or omitted.

#### ARTICLE VII.

#### HOLDERS' LISTS AND REPORTS BY TRUSTEE AND CORPORATION

### Section 701. Corporation to Furnish Trustee Names and Addresses of Holders.

The Corporation will furnish or cause to be furnished to the Trustee

- (1) 15 days after each Regular Record Date, a list, in such form as the Trustee may reasonably require, of the names and addresses of the Holders of Securities of each series as of such Regular Record Date, and
- (2) at such other times as the Trustee may request in writing, within 30 days after the receipt by the Corporation of any such request, a list of similar form and content as of a date not more than 15 days prior to the time such list is furnished;

excluding from any such list names and addresses received by the Trustee in its capacity as Security Registrar.

## Section 702. Preservation of Information; Communications to Holders.

The Trustee shall preserve, in as current a form as is reasonably practicable, the names and addresses of Holders contained in the most recent list furnished to the Trustee as provided in Section 701 and the names and addresses of Holders received by the Trustee in its capacity as Security Registrar. The Trustee may destroy any list furnished to it as provided in Section 701 upon receipt of a new list so furnished.

The rights of Holders to communicate with other Holders with respect to their rights under this Indenture or under the Securities, and the corresponding rights and privileges of the Trustee, shall be as provided by the Trust Indenture Act.

Every Holder of Securities, by receiving and holding the same, agrees with the Corporation and the Trustee that neither the Corporation nor the Trustee nor any agent of either of them shall be held accountable by reason of any disclosure of information as to names and addresses of Holders made pursuant to the Trust Indenture Act.

#### Section 703. Reports by Trustee.

The Trustee shall transmit to Holders such reports concerning the Trustee and its actions under this Indenture as may be required pursuant to the Trust Indenture Act at the times and in the manner provided pursuant thereto. If required by Section 313(a) of the Trust Indenture Act, the Trustee shall, within 60 days after each May 15 following the date of this Indenture, deliver to Holders a brief report, dated as of such May 15, which complies with the provisions of such Section 313(a).

A copy of each such report shall, at the time of such transmission to Holders, be filed by the Trustee with each stock exchange upon which any Securities are listed, with the Commission and with the Corporation. The Corporation will promptly notify the Trustee when any Securities are listed on any stock exchange or any delisting thereof.

## Section 704. Reports by Corporation.

The Corporation, pursuant to Section 314(a) of the Trust Indenture Act, shall:

- (1) file with the Trustee, within 15 days after it is required to file the same with the Commission, copies of the annual reports and of the information, documents and other reports (or copies of such portions of any of the foregoing as the Commission may from time to time by rules and regulations prescribe) which it may be required to file with the Commission pursuant to Section 13 or Section 15(d) of the Exchange Act; or, if it is not required to file information, documents or reports pursuant to either of said Sections, then it shall file with the Trustee and the Commission, in accordance with rules and regulations prescribed from time to time by the Commission, such of the supplementary and periodic information, documents and reports which may be required pursuant to Section 13 of the Exchange Act in respect of a security listed and registered on a national securities exchange as may be prescribed from time to time in such rules and regulations;
- (2) file with the Trustee and the Commission, in accordance with rules and regulations prescribed from time to time by the Commission, such additional information, documents and reports with respect to compliance by it with the conditions and covenants of this Indenture as may be required from time to time by such rules and regulations; and
- (3) transmit within 30 days after the filing thereof with the Trustee, in the manner and to the extent provided in Section 313(c) of the Trust Indenture Act, such summaries of any information, documents and reports required to be filed by it pursuant to paragraphs (1) and (2) of this Section as may be required by rules and regulations prescribed from time to time by the Commission.

#### ARTICLE VIII.

# CONSOLIDATION, MERGER, CONVEYANCE OR TRANSFER

## Section 801. Corporation May Consolidate, Etc., on Certain Terms.

Nothing contained in this Indenture or in any of the Securities shall prevent any consolidation or merger of the Corporation with or into any other Person or Persons (whether or not affiliated with the Corporation), or successive consolidations or mergers in which the Corporation or its successor or successors shall be a party or parties, or shall prevent any sale, transfer, lease or other conveyance of the properties and assets of the Corporation as an entirety or substantially as an entirety to any other Person (whether or not affiliated with the Corporation) lawfully entitled to acquire the same; <u>provided</u>, <u>however</u>, that the Corporation shall not, in any transaction or series of transactions, consolidate or merge with or into any Person or sell, transfer, lease or otherwise convey the properties and assets of the Corporation as an entirety or substantially as an entirety to any other Persons, unless:

- (i) either (A) the Corporation shall be the continuing Person (in the case of a merger) or (B) the successor Person formed by such consolidation or into which the Corporation is merged or which acquires by sale, transfer, lease or other conveyance the properties and assets of the Corporation as an entirety or substantially as an entirety, is a corporation organized and existing under the laws of the United States of America, any State thereof or the District of Columbia and shall expressly assume, by an indenture (or indentures, if at such time there shall be more than one Trustee) supplemental hereto, executed by such successor corporation, the Trustee and the Corporation, in form and substance satisfactory to the Trustee, the due and punctual payment of the principal of and premium, if any, and interest on all of the Outstanding Securities and the due and punctual performance and observance of every obligation in this Indenture and the Outstanding Securities on the part of the Corporation to be performed or observed;
- (ii) immediately after giving effect to such transaction, no Event of Default and no event which, after notice or lapse of time or both, would become an Event of Default, has or shall have occurred and be continuing; and
- (iii) the Corporation shall deliver to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that such consolidation, merger, sale, transfer, lease or other conveyance and, if a supplemental indenture is required in connection with such transaction, such supplemental indenture comply with this Article and that all conditions precedent herein provided for relating to such transaction have been complied with.

#### Section 802. Successor Substituted.

Upon any consolidation of the Corporation with, or merger of the Corporation into, any other Person or any sale, transfer, lease or other conveyance of the properties and assets of the Corporation as an entirety or substantially as an entirety in accordance with Section 801, the successor Person formed by such consolidation or into which the Corporation is merged or to which such sale, transfer, lease or other conveyance is made shall succeed to, and be substituted

for, and may exercise every right and power of, the Corporation under this Indenture with the same effect as if such successor Person had been named as the Corporation herein, and thereafter, except in the case of a lease, the predecessor Person shall be relieved of all obligations and covenants under this Indenture and the Securities.

#### ARTICLE IX.

#### SUPPLEMENTAL INDENTURES

## Section 901. Supplemental Indentures Without Consent of Holders.

Without the consent of any Holders, the Corporation, when authorized by a Board Resolution, and the Trustee, at any time and from time to time, may enter into one or more indentures supplemental hereto, in form reasonably satisfactory to the Trustee, for any of the following purposes:

- (1) to evidence the succession of another Person to the Corporation and the assumption by any such successor of the covenants of the Corporation herein and in the Securities; or
- (2) to add to the covenants of the Corporation for the benefit of the Holders of all or any series of Securities (and if such covenants are to be for the benefit of less than all series of Securities, stating that such covenants are expressly being included solely for the benefit of such series) or to surrender any right or power herein conferred upon the Corporation; or
- (3) to add any additional Events of Default for the benefit of the Holders of all or any series of Securities (and if such additional Events of Default are to be for the benefit of less than all series of Securities, stating that such additional Events of Default are expressly being included solely for the benefit of such series); or
- (4) to add to or change any of the provisions of this Indenture to such extent as shall be necessary to permit or facilitate the issuance of Securities in bearer form, registrable or not registrable as to principal, and with or without interest coupons, or to facilitate the issuance of Securities in uncertificated form; or
- (5) to change or eliminate any of the provisions of this Indenture in respect of one or more series of Securities, <u>provided</u> that any such change or elimination (A) shall neither (i) apply to any Security entitled to the benefit of such provision nor (ii) modify the rights of the Holder of any such Security with respect to such provision, or (B) add any new provision to this Indenture, <u>provided</u> that any such addition does not apply to any Security of any series created prior to the execution of such supplemental indenture or (C) shall become effective only when there is no such Security Outstanding; or
  - (6) to secure the Securities; or
  - (7) to establish the form or terms of Securities of any series as permitted by Sections 201 and 301; or

- (8) to evidence and provide for the acceptance of appointment hereunder by a successor Trustee with respect to the Securities of one or more series and to add to or change any of the provisions of this Indenture as shall be necessary to provide for or facilitate the administration of the trusts hereunder by more than one Trustee, pursuant to the requirements of Section 611; or
- (9) to cure any ambiguity, to correct or supplement any provision herein which may be defective or inconsistent with any other provision herein, or to make any other provisions with respect to matters or questions arising under this Indenture; <u>provided</u> that such action pursuant to this Clause (9) shall not adversely affect the interests of the Holders of Securities of any series in any material respect.

#### Section 902. Supplemental Indentures With Consent of Holders.

With the consent of the Holders of not less than a majority in principal amount of the Outstanding Securities of each series affected by such supplemental indenture, by Act of said Holders delivered to the Corporation and the Trustee, the Corporation, when authorized by a Board Resolution, and the Trustee may enter into an indenture or indentures supplemental hereto for the purpose of adding any provisions to or changing in any manner or eliminating any of the provisions of this Indenture or of any supplemental indenture, or modifying in any manner the rights of the Holders of Securities of such series under this Indenture; <u>provided</u>, <u>however</u>, that no such supplemental indenture shall, without the consent of the Holder of each Outstanding Security affected thereby,

- (1) change the Stated Maturity of the principal of, or premium, if any, or any installment of principal of or premium, if any, or interest on, any Security, or reduce the principal amount thereof or the rate of interest thereon or any premium payable upon the redemption thereof, or reduce the amount of the principal of an Original Issue Discount Security or any other Security which would be due and payable upon a declaration of acceleration of the Maturity thereof pursuant to Section 502 or change any place of payment where or the coin or currency in which any Security or any premium or interest thereon is payable, or impair the right to institute suit for the enforcement of any such payment on or after the Stated Maturity thereof (or, in the case of redemption, on or after the Redemption Date), or
- (2) reduce the percentage in principal amount of the Outstanding Securities of any series, the consent of whose Holders is required for any such supplemental indenture, or the consent of whose Holders is required for any waiver (of compliance with certain provisions of this Indenture or certain defaults hereunder and their consequences) provided for in this Indenture, or
- (3) modify any of the provisions of this Section, Section 513 or Section 1006, except to increase any such percentage or to provide that certain other provisions of this Indenture cannot be modified or waived without the consent of the Holder of each Outstanding Security affected thereby; provided, however, that this clause (3) shall not be deemed to require the consent of any Holder with respect to changes in the references to

"the Trustee" and concomitant changes in this Section and Section 1006, or the deletion of this proviso, in accordance with the requirements of Sections 611 and 901(8).

A supplemental indenture which changes or eliminates any covenant or other provision of this Indenture which has expressly been included solely for the benefit of one or more particular series of Securities, or which modifies the rights of the Holders of Securities of such series with respect to such covenant or other provision, shall be deemed not to affect the rights under this Indenture of the Holders of Securities of any other series.

It shall not be necessary for any Act of Holders under this Section to approve the particular form of any proposed supplemental indenture, but it shall be sufficient if such Act shall approve the substance thereof.

# Section 903. Execution of Supplemental Indentures.

In executing, or accepting the additional trusts created by, any supplemental indenture permitted by this Article or the modifications thereby of the trusts created by this Indenture, the Trustee shall be entitled to receive, and (subject to Section 315(a) through 315(d) of the Trust Indenture Act) shall be fully protected in relying upon, an Opinion of Counsel and an Officers' Certificate, each stating that the execution of such supplemental indenture is authorized or permitted by this Indenture. The Trustee may, but shall not be obligated to, enter into any such supplemental indenture which affects the Trustee's own rights, duties or immunities under this Indenture or otherwise.

## Section 904. Effect of Supplemental Indentures.

Upon the execution of any supplemental indenture under this Article, this Indenture shall be modified in accordance therewith, and such supplemental indenture shall form a part of this Indenture for all purposes; and every Holder of Securities theretofore or thereafter authenticated and delivered hereunder shall be bound thereby.

## Section 905. Conformity with Trust Indenture Act.

Every supplemental indenture executed pursuant to this Article shall conform to the requirements of the Trust Indenture Act as then in effect.

## Section 906. Reference in Securities to Supplemental Indentures.

Securities of any series authenticated and delivered after the execution of any supplemental indenture pursuant to this Article may, and shall if required by the Trustee, bear a notation in form approved by the Trustee as to any matter provided for in such supplemental indenture. If the Corporation shall so determine, new Securities of any series so modified as to conform, in the opinion of the Trustee and the Corporation, to any such supplemental indenture may be prepared and executed by the Corporation and authenticated and delivered by the Trustee in exchange for Outstanding Securities of such series.

#### ARTICLE X.

#### **COVENANTS**

## Section 1001. Payment of Principal, Premium and Interest.

The Corporation covenants and agrees for the benefit of each series of Securities that it will duly and punctually pay the principal of and any premium and interest on the Securities of that series in accordance with the terms of the Securities and this Indenture.

# Section 1002. Maintenance of Office or Agency.

The Corporation will maintain in each Place of Payment for any series of Securities an office or agency where Securities of that series may be presented or surrendered for payment, where Securities of that series may be surrendered for registration of transfer or exchange and where notices and demands to or upon the Corporation in respect of the Securities of that series and this Indenture may be served. The Corporation will give prompt written notice to the Trustee of the location, and any change in the location, of such office or agency. If at any time the Corporation shall fail to maintain any such required office or agency or shall fail to furnish the Trustee with the address thereof, such presentations, surrenders, notices and demands may be made or served at the Corporate Trust Office of the Trustee, and the Corporation hereby appoints the Trustee as its agent to receive all such presentations, surrenders, notices and demands.

The Corporation may also from time to time designate one or more other offices or agencies where the Securities of one or more series may be presented or surrendered for any or all such purposes and may from time to time rescind such designations; <u>provided</u>, <u>however</u>, that no such designation or rescission shall in any manner relieve the Corporation of its obligation to maintain an office or agency in each Place of Payment for Securities of any series for such purposes. The Corporation will give prompt written notice to the Trustee of any such designation or rescission and of any change in the location of any such other office or agency.

Unless otherwise provided in or pursuant to Section 301 of this Indenture, the Corporation hereby designates as a Place of Payment for each series of Securities the Borough of Manhattan, The City of New York, and initially appoints the office of U.S. Bank National Association in the Borough of Manhattan, The City of New York, as its office or agency in that Place of Payment for such purpose.

## Section 1003. Money for Securities Payments to Be Held in Trust.

If the Corporation shall at any time act as its own Paying Agent with respect to any series of Securities, it will, on or before each due date of the principal of or any premium or interest on any of the Securities of that series, segregate and hold in trust for the benefit of the Persons entitled thereto a sum sufficient to pay the principal and any premium and interest so becoming due until such sums shall be paid to such Persons or otherwise disposed of as herein provided and will promptly notify the Trustee of its action or failure so to act.

Whenever the Corporation shall have one or more Paying Agents for any series of Securities, it will, on or prior to each due date of the principal of or any premium or interest on

any Securities of that series, deposit with a Paying Agent a sum sufficient to pay such amount, such sum to be held as provided by the Trust Indenture Act, and (unless such Paying Agent is the Trustee) the Corporation will promptly notify the Trustee of its action or failure so to act.

The Corporation will cause each Paying Agent for any series of Securities other than the Trustee to execute and deliver to the Trustee an instrument in which such Paying Agent shall agree with the Trustee, subject to the provisions of this Section, that such Paying Agent will (1) comply with the provisions of the Trust Indenture Act applicable to it as a Paying Agent and (2) during the continuance of any default by the Corporation (or any other obligor upon the Securities of that series) in the making of any payment in respect of the Securities of that series, upon the written request of the Trustee, forthwith pay to the Trustee all sums held in trust by such Paying Agent for payment in respect of the Securities of that series.

The Corporation may at any time, for the purpose of obtaining the satisfaction and discharge of this Indenture or for any other purpose, pay, or by Company Order direct any Paying Agent to pay, to the Trustee all sums held in trust hereunder by the Corporation or such Paying Agent, such sums to be held by the Trustee upon the same trusts as those upon which such sums were held by the Corporation or such Paying Agent; and, upon such payment by any Paying Agent to the Trustee, such Paying Agent shall be released from all further liability with respect to such money.

Any money deposited with the Trustee or any Paying Agent, or then held by the Corporation, in trust for the payment of the principal of or any premium or interest on any Security of any series and remaining unclaimed for two years after such principal, premium or interest has become due and payable shall be paid to the Corporation on Company Request, or (if then held by the Corporation) shall be discharged from such trust; and the Holder of such Security shall thereafter, as an unsecured general creditor, look only to the Corporation for payment thereof, and all liability of the Trustee or such Paying Agent with respect to such trust money, and all liability of the Corporation as trustee thereof, shall thereupon cease; provided, however, that the Trustee or such Paying Agent, before being required to make any such repayment, may at the expense of the Corporation cause to be published once, in a newspaper published in the English language, customarily published on each Business Day and of general circulation in the Borough of Manhattan, The City of New York, New York, notice that such money remains unclaimed and that, after a date specified therein, which shall not be less than 30 days from the date of such publication, any unclaimed balance of such money then remaining will be repaid to the Corporation.

Section 1004. Corporate Existence.

Subject to Article VIII, the Corporation will do or cause to be done all things necessary to preserve and keep in full force and effect its corporate existence, rights (charter and statutory) and franchises.

Section 1005. Statement by Officers as to Default.

The Corporation will deliver to the Trustee, on or before \_\_\_\_\_ of each calendar year or on or before such other day in each calendar year as the Corporation and the Trustee may

from time to time agree upon, an Officers' Certificate, stating whether or not to the knowledge of the signers thereof the Corporation is in default in the performance and observance of any of the terms, provisions and conditions of this Indenture (without regard to any period of grace or requirement of notice provided hereunder) and, if the Corporation shall be in default, specifying all such defaults and the nature and status thereof of which they may have knowledge.

#### Section 1006. Waiver of Certain Covenants.

Except as otherwise specified as contemplated by Section 301 for Securities of such series, the Corporation may, with respect to the Securities of any series, omit in any particular instance to comply with any term, provision or condition set forth in any covenant provided pursuant to Section 301(19) or 9.01(2) for the benefit of the Holders of such series if before the time for such compliance the Holders of not less than a majority in principal amount of the Outstanding Securities of such series shall, by Act of such Holders, either waive such compliance in such instance or generally waive compliance with such term, provision or condition, but no such waiver shall extend to or affect such term, provision or condition except to the extent so expressly waived, and, until such waiver shall become effective, the obligations of the Corporation and the duties of the Trustee in respect of any such term, provision or condition shall remain in full force and effect.

#### ARTICLE XI.

#### REDEMPTION OF SECURITIES

#### Section 1101. Applicability of Article.

Securities of any series which are redeemable before their Stated Maturity shall be redeemable in accordance with their terms and (except as otherwise specified as contemplated by Section 301 for such Securities) in accordance with this Article.

#### Section 1102. Election to Redeem; Notice to Trustee.

The election of the Corporation to redeem any Securities shall be evidenced by a Board Resolution or in another manner specified as contemplated by Section 301 for such Securities. In case of any redemption at the election of the Corporation, the Corporation shall, at least 45 days prior to the Redemption Date fixed by the Corporation (unless a shorter notice shall be satisfactory to the Trustee in its sole and absolute discretion), notify the Trustee of such Redemption Date, of the principal amount of Securities of such series to be redeemed and, if applicable, of the tenor of the Securities to be redeemed. In the case of any redemption of Securities (A) prior to the expiration of any restriction on such redemption provided in the terms of such Securities or elsewhere in this Indenture, or (B) pursuant to an election of the Corporation which is subject to a condition specified in the terms of such Securities or elsewhere in this Indenture, the Corporation shall furnish the Trustee with an Officers' Certificate evidencing compliance with such restriction or condition.

#### Section 1103. Selection by Trustee of Securities to Be Redeemed.

If less than all the Securities of any series are to be redeemed (unless all the Securities of such series and of a specified tenor are to be redeemed or unless such redemption affects only a single Security), the particular Securities to be redeemed shall be selected not more than 60 days prior to the Redemption Date by the Trustee, from the Outstanding Securities of such series not previously called for redemption, by lot and which may provide for the selection for redemption of a portion of the principal amount of any Security of such series; provided that the unredeemed portion of the principal amount of any Security shall be in an authorized denomination (which shall not be less than the minimum authorized denomination) for such Security. If less than all the Securities of such series and of a specified tenor are to be redeemed (unless such redemption affects only a single Security), the particular Securities to be redeemed shall be selected not more than 60 days prior to the Redemption Date by the Trustee, from the Outstanding Securities of such series and specified tenor not previously called for redemption in accordance with the preceding sentence.

The Trustee shall promptly notify the Corporation in writing of the Securities selected for redemption as aforesaid and, in the case of any Securities selected for partial redemption as aforesaid, the principal amount thereof to be redeemed.

The provisions of the two preceding paragraphs shall not apply with respect to any redemption affecting only a single Security, whether such Security is to be redeemed in whole or in part. In the case of any such redemption in part, the unredeemed portion of the principal amount of the Security shall be in an authorized denomination (which shall not be less than the minimum authorized denomination) for such Security.

For all purposes of this Indenture, unless the context otherwise requires, all provisions relating to the redemption of Securities shall relate, in the case of any Securities redeemed or to be redeemed only in part, to the portion of the principal amount of such Securities which has been or is to be redeemed.

#### Section 1104. Notice of Redemption.

Notice of redemption shall be given by first-class mail, postage prepaid, mailed not less than 30 nor more than 60 days prior to the Redemption Date, to each Holder of Securities to be redeemed, at his address appearing in the Security Register.

All notices of redemption shall state:

- (1) the Redemption Date;
- (2) the Redemption Price;
- (3) if less than all the Outstanding Securities of any series and of a specified tenor consisting of more than a single Security are to be redeemed, the identification (and, in the case of partial redemption of any such Securities, the principal amounts) of the particular Securities to be redeemed and, if less than all the Outstanding Securities of any series and of a specified tenor consisting of a single Security are to be redeemed, the principal amount of the particular Security to be redeemed;

- (4) that on the Redemption Date the Redemption Price, together with accrued interest, if any, to the Redemption Date, will become due and payable upon each such Security to be redeemed and, if applicable, that interest thereon will cease to accrue on and after said date;
- (5) the place or places where each such Security is to be surrendered for payment of the Redemption Price and accrued interest, if any, unless it shall have been specified as contemplated by Section 301 with respect to such Securities that such surrender shall not be required;
  - (6) that the redemption is for a sinking fund, if such is the case;
  - (7) the CUSIP number of such Securities, if any, or any other numbers used by the Depositary to identify such securities; and
  - (8) such other matters as the Corporation shall deem desirable or appropriate.

Notice of redemption of Securities to be redeemed at the election of the Corporation shall be given by the Corporation or, at the Corporation's request, by the Trustee in the name and at the expense of the Corporation. Any such notice of redemption shall be irrevocable.

On or prior to any Redemption Date, the Corporation shall deposit, with respect to the Securities of any series called for redemption pursuant to this Section 1104, with the Trustee or with a Paying Agent an amount of money in the applicable currency sufficient to pay the Redemption Price of, and any accrued interest on, all such Securities or portion thereof which are to be redeemed on that date.

#### Section 1105. Securities Payable on Redemption Date.

Notice of redemption having been given as aforesaid, the Securities or portions thereof so to be redeemed shall, on the Redemption Date, become due and payable at the Redemption Price therein specified, and from and after such date (unless the Corporation shall default in the payment of the Redemption Price and accrued interest, if any) such Securities or portions thereof, if interest-bearing, shall cease to bear interest. Upon surrender of any such Security for redemption in accordance with said notice, such Security or portion thereof shall be paid by the Corporation at the Redemption Price, together with accrued interest, if any, to the Redemption Date; <u>provided</u>, <u>however</u>, that no such surrender shall be a condition to such payment if so specified as contemplated by Section 301 with respect to such Security, and provided further that, unless otherwise specified as contemplated by Section 301, installments of interest whose Stated Maturity is on or prior to the Redemption Date will be payable to the Holders of such Securities, or one or more Predecessor Securities, registered as such at the close of business on the relevant Regular Record Dates according to their terms and the provisions of Section 307.

If any Security called for redemption shall not be so paid upon surrender thereof for redemption, the principal and any premium shall, until paid, bear interest from the Redemption Date at the rate prescribed therefor in the Security or, if no rate is prescribed therefor in the Security, at the rate of interest, if any, borne by such Security.

#### Section 1106. Securities Redeemed in Part.

Any Security which is to be redeemed only in part shall be surrendered at a Place of Payment therefor (with, if the Corporation or the Trustee so requires, due endorsement by, or a written instrument of transfer in form satisfactory to the Corporation and the Trustee duly executed by, the Holder thereof or his attorney duly authorized in writing), and the Corporation shall execute, and the Trustee shall authenticate and deliver to the Holder of such Security without service charge, a new Security or Securities of the same series and of like tenor, of any authorized denomination as requested by such Holder, in aggregate principal amount equal to and in exchange for the unredeemed portion of the principal of the Security so surrendered.

#### ARTICLE XII.

#### SINKING FUNDS

#### Section 1201. Applicability of Article.

The provisions of this Article shall be applicable to any sinking fund for the retirement of Securities of any series except as otherwise specified as contemplated by Section 301 for such Securities.

The minimum amount of any sinking fund payment provided for by the terms of any Securities is herein referred to as a "mandatory sinking fund payment," and any payment in excess of such minimum amount provided for by the terms of such Securities is herein referred to as an "optional sinking fund payment." If provided for by the terms of any Securities, the cash amount of any sinking fund payment may be subject to reduction as provided in Section 1202. Each sinking fund payment shall be applied to the redemption of Securities as provided for by the terms of such Securities.

#### Section 1202. Satisfaction of Sinking Fund Payments with Securities.

The Corporation (1) may deliver Outstanding Securities of a series (other than any previously called for redemption) and (2) may apply as a credit Securities of a series which have been redeemed either at the election of the Corporation pursuant to the terms of such Securities or through the application of permitted optional sinking fund payments pursuant to the terms of such Securities, in each case in satisfaction of all or any part of any sinking fund payment with respect to any Securities of such series required to be made pursuant to the terms of such Securities as and to the extent provided for by the terms of such Securities; <u>provided</u> that the Securities to be so credited have not been previously so credited. The Securities to be so credited shall be received and credited for such purpose by the Trustee at the Redemption Price, as specified in the Securities so to be redeemed, for redemption through operation of the sinking fund and the amount of such sinking fund payment shall be reduced accordingly.

#### Section 1203. Redemption of Securities for Sinking Fund.

Not less than 45 days prior to each sinking fund payment date for any Securities, the Corporation will deliver to the Trustee an Officers' Certificate specifying the amount of the next ensuing sinking fund payment for such Securities pursuant to the terms of such Securities, the portion thereof, if any, which is to be satisfied by payment of cash and the portion thereof, if any, which is to be satisfied by delivering and crediting Securities pursuant to Section 1202 and stating the basis for such credit and that such Securities have not been previously so credited and will also deliver to the Trustee any Securities to be so delivered. Not less than 30 days prior to each such sinking fund payment date, the Trustee shall select the Securities to be redeemed upon such sinking fund payment date in the manner specified in Section 1103 and cause notice of the redemption thereof to be given in the name of and at the expense of the Corporation in the manner provided in Section 11.04. Such notice having been duly given, the redemption of such Securities shall be made upon the terms and in the manner stated in Sections 1105 and 1106.

#### ARTICLE XIII.

#### DEFEASANCE AND COVENANT DEFEASANCE

#### Section 1301. Applicability of Article.

Unless, pursuant to Section 301, provision is made that either or both of (A) defeasance of any Securities or any series of Securities under Section 1302 and (B) covenant defeasance of any Securities or any series of Securities under Section 1303 shall not apply to such Securities of a series, then the provisions of either or both of Sections 1302 and Section 1303, as the case may be, together with Sections 1304 and 1305, shall be applicable to the Outstanding Securities of such series upon compliance with the conditions set forth below in this Article. Unless otherwise specified pursuant to Section 301, defeasance under Section 1302 and covenant defeasance under Section 1303 may be effected only with respect to all, and not less than all, the Securities of any series. To the extent that the Corporation is permitted, pursuant to Section 301, to defer interest payments, change the time for interest payments, or change the Stated Maturity of the Securities of any series or any installment of principal thereof, any such right shall terminate upon defeasance or covenant defeasance of the Securities of that series as described below or upon satisfaction and discharge with respect to the Securities of that series pursuant to Section 401.

#### Section 1302. Defeasance and Discharge.

On and after the date the conditions set forth in Section 1304 are satisfied, the Corporation may cause itself to be discharged from its obligations with respect to any Securities or any series of Securities (hereinafter called "Defeasance"). For this purpose, such Defeasance means that the Corporation shall be deemed to have paid and discharged the entire indebtedness represented by such Securities and to have satisfied all its other obligations under such Securities and this Indenture insofar as such Securities are concerned (and the Trustee, at the expense of the Corporation, shall execute proper instruments acknowledging the same), subject to the following which shall survive until otherwise terminated or discharged hereunder: (1) the rights of Holders of such Securities to receive, solely from the trust fund described in Section 1304 and as more fully set forth in such Section, payments in respect of the principal of and any premium and

interest on such Securities when payments are due, (2) the Corporation's and Trustee's obligations with respect to such Securities under Sections 304, 305, 306, 1002, 1003 and 1306 and with respect to the Trustee under Section 607, (3) the rights, powers, trusts, duties and immunities of the Trustee hereunder, and (4) this Article. Subject to compliance with this Article, Defeasance with respect to any Securities or any series of Securities by the Corporation is permitted under this Section 1302 notwithstanding the prior exercise by the Corporation of its rights under Section 1303 with respect to such Securities. Following a Defeasance, payment of such Securities may not be accelerated because of an Event of Default.

#### Section 1303. Covenant Defeasance.

On and after the date the conditions set forth in Section 1304 are satisfied, the Corporation may cause itself to be released from its obligations under any covenants provided pursuant to Section 301(19) or 901(2) with respect to any Securities or any series of Securities for the benefit of the Holders of such Securities and the occurrence of any event specified in Sections 501(4) (with respect to any such covenants provided pursuant to Section 301(19), 901(2) or 501(8)) shall be deemed not to be or result in an Event of Default with respect to such Securities as provided in this Section (hereinafter called "Covenant Defeasance"). For this purpose, such Covenant Defeasance means that, with respect to such Securities, the Corporation may omit to comply with and shall have no liability in respect of any term, condition or limitation set forth in any covenants added for the benefit of the Securities of such series pursuant to any such specified Section (to the extent so specified in the case of Section 501(4)), whether directly or indirectly by reason of any reference elsewhere herein to any such Section or by reason of any reference in any such Section to any other provision herein or in any other document, but the remainder of this Indenture and such Securities shall be unaffected thereby. Following a Covenant Defeasance, payment of the Securities may not be accelerated by reference to the covenant described in the description of Covenant Defeasance above.

#### Section 1304. Conditions to Defeasance or Covenant Defeasance.

The following shall be the conditions to the application of Section 1302 or Section 1303 to any Securities or any series of Securities, as the case may be:

(1) The Corporation shall irrevocably have deposited or caused to be deposited with the Trustee as trust funds in trust for the purpose of making the following payments, specifically pledged as security for, and dedicated solely to, the benefit of the Holders of such Securities, (A) money in U.S. dollars in an amount, or (B) Government Obligations which through the scheduled payment of principal and interest in respect thereof in accordance with their terms will provide, not later than one day before the due date of any payment due in respect of such Securities, money in an amount, or (C) a combination thereof, in each case sufficient, without consideration of any reinvestments of such principal and interest, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, to pay and discharge, and which shall be applied by the Trustee to pay and discharge, the principal of and any premium and interest on such Securities on the respective Stated Maturities or on any Redemption Date established pursuant to Clause (3) below, in accordance with the terms of this Indenture and such Securities, and any

mandatory sinking fund payments or analogous payments applicable to such Securities when such payments are due and payable in accordance with the terms of this Indenture and of such Securities. As used herein, "Government Obligation" means (x) any security which is (i) a direct obligation of the United States of America or the government which issued the foreign currency in which such Securities are payable, for the payment of which its full faith and credit is pledged or (ii) an obligation of a Person controlled or supervised by and acting as an agency or instrumentality of the United States of America or such government which issued the foreign currency in which such Securities are payable, the timely payment of which is unconditionally guaranteed as a full faith and credit obligation by the United States of America or such other government, which, in either case (i) or (ii), is not callable or redeemable at the option of the issuer thereof, and (y) any depositary receipt issued by a bank (as defined in Section 3(a)(2) of the Securities Act) as custodian with respect to any Government Obligation which is specified in clause (x) above and held by such bank for the account of the holder of such depositary receipt, or with respect to any specific payment of principal of or interest on any Government Obligation which is so specified and held, provided that (except as required by law) such custodian is not authorized to make any deduction from the amount payable to the holder of such depositary receipt from any amount received by the custodian in respect of the Government Obligation or the specific payment of principal or interest evidenced by such depositary receipt.

- (2) No event which is, or after notice or lapse of time or both would become, an Event of Default with respect to such Securities shall have occurred and be continuing at the time of such deposit or, with regard to any such event specified in Sections 501(6) and (7), at any time on or prior to the 90th day after the date of such deposit (it being understood that this condition shall not be deemed satisfied until after such 90th day).
- (3) If the monies or Government Obligations or combination thereof deposited pursuant to Clause (1) above are sufficient to pay the principal of and premium, if any, and interest, if any, on such Securities provided such Securities are to be redeemed prior to Stated Maturity (other than from mandatory sinking fund payments or analogous payments), notice of such redemption shall have been duly given pursuant to this Indenture or irrevocable instructions to redeem such Securities on such Redemption Date and to provide notice of such redemption to Holders satisfactory to the Trustee shall have been made.
- (4) In the case of Defeasance pursuant to Section 1302, the Corporation shall have delivered to the Trustee an opinion of independent counsel stating that (x) the Corporation has received from, or there has been published by, the Internal Revenue Service a ruling, or (y) since the date of this Indenture there has been a change in applicable federal income tax law, in either case to the effect that, and based thereon such opinion of independent counsel shall confirm that, the Holders of such Outstanding Securities will not recognize income, gain or loss for federal income tax purposes as a result of such Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Defeasance had not occurred; or, in the case of Covenant Defeasance pursuant to Section 1303, the Corporation shall have delivered to the Trustee an opinion of independent

counsel to the effect that the Holders of such Outstanding Securities will not recognize income, gain or loss for federal income tax purposes as a result of such Covenant Defeasance and will be subject to federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such Covenant Defeasance had not occurred.

(5) The Corporation shall have delivered to the Trustee an Officers' Certificate and an Opinion of Counsel, each stating that all conditions precedent with respect to such Defeasance or Covenant Defeasance have been complied with.

Section 1305. Deposited Money and Government Obligations to Be Held in Trust; Miscellaneous Provisions.

Subject to the provisions of the last paragraph of Section 1003, all money and Government Obligations (including the proceeds thereof) deposited with the Trustee pursuant to Section 1304 in respect of any Securities shall be held in trust and applied by the Trustee, in accordance with the provisions of such Securities and this Indenture, to the payment, either directly or through any such Paying Agent (other than the Corporation acting as its own Paying Agent) as the Trustee may determine, to the Holders of such Securities, of all sums due and to become due thereon in respect of principal and any premium and interest, but money so held in trust need not be segregated from other funds except to the extent required by law.

The Corporation shall pay and indemnify the Trustee against any tax, fee or other charge imposed on or assessed against the Government Obligations deposited pursuant to Section 1304 or the principal and interest received in respect thereof other than any such tax, fee or other charge which by law is for the account of the Holders of Outstanding Securities.

Anything in this Article to the contrary notwithstanding, the Trustee shall deliver or pay to the Corporation from time to time upon Company Request any money or Government Obligations held by it as provided in Section 1304 with respect to any Securities which, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the Trustee, are in excess of the amount thereof which would then be required to be deposited to effect the Defeasance or Covenant Defeasance, as the case may be, with respect to such Securities.

#### Section 1306. Reinstatement.

If the Trustee or any Paying Agent is unable to apply any moneys or Government Obligations deposited pursuant to Section 401 or 1304 to pay any principal of or premium, if any, or interest, if any, on the Securities of any series by reason of any legal proceeding or any order or judgment of any court or governmental authority enjoining, restraining or otherwise prohibiting such application, then the Corporation's obligations under this Indenture and the Securities of such series shall be revived and reinstated as though no such deposit had occurred, until such time as the Trustee or Paying Agent is permitted to apply all such moneys and Government Obligations to pay the principal of and premium, if any, and interest, if any, on the Securities of such series as contemplated by Section 402 or 1305, as the case may be, <u>provided</u>, <u>however</u>, that if the Corporation makes any payment of the principal of or premium, if any, or

interest, if any, on the Securities of such series following the reinstatement of its obligations as aforesaid, the Corporation shall be subrogated to the rights of the Holders of such Securities to receive such payment from the funds held by the Trustee or Paying Agent, but shall not be entitled to enforce or to receive any payments arising out of, or based upon, such right of subrogation until the principal of, and premium, if any, and interest, if any, on all Securities of that series shall have been paid in full.

#### ARTICLE XIV.

## IMMUNITY OF INCORPORATORS, STOCKHOLDERS, OFFICERS AND DIRECTORS

Section 1401. <u>Indenture and Securities Solely Corporate Obligations</u>.

No recourse for the payment of the principal of or any premium or interest on any Security, or for any claim based thereon or otherwise in respect thereof, and no recourse under or upon any obligation, covenant or agreement of the Corporation in this Indenture or in any supplemental indenture, or in any Security, or because of the creation of any indebtedness represented thereby, shall be had against any incorporator, stockholder, officer or director, as such, past, present or future, of the Corporation or of any successor corporation, either directly or through the Corporation or any successor corporation, whether by virtue of any constitution, statute or rule of law, or by the enforcement of any assessment or penalty or otherwise; it being expressly understood that all such liability is hereby expressly waived and released as a condition of, and as a consideration for, the execution of this Indenture and the issue of the Securities.

This instrument may be executed in any number of counterparts, each of which shall together constitute but one and the same instrument.	so executed shall be deemed to be an original, but all such counterparts
In Witness Whereof, the parties hereto have caused this Indenture to be duly exc	ecuted and attested, each as of the day and year first above written.
	SOUTHERN CALIFORNIA GAS COMPANY
	Ву
Attest:	
	U.S. Bank National Association, as Trustee
	By A. J. C. C.
	Authorized Signatory

#### LATHAM & WATKINS LLP

July 30, 2015

Southern California Gas Company 555 West Fifth Street Los Angeles, CA 90013

Re: Registration Statement on Form S-3 of Southern California Gas Company

Ladies and Gentlemen:

12670 High Bluff Drive

San Diego, California 92130 Tel: +1.858.523.5400 Fax: +1.858.523.5450

www.lw.com

FIRM / AFFILIATE OFFICES Milan Abu Dhabi Barcelona Moscow Beijing Munich Boston Brussels New Jersey New York Century City Orange County Chicago Paris Riyadh Dubai

Düsseldorf Rome San Diego San Francisco Frankfurt Hamburg Hong Kong Shanghai Silicon Valley Houston London Singapore Los Angeles

Madrid Washington, D.C.

We have acted as special counsel to Southern California Gas Company, a California corporation (the "Company"), in connection with its filing on the date hereof with the Securities and Exchange Commission (the "Commission") of a registration statement on Form S-3 (as amended, the "Registration Statement"), including a base prospectus (the "Base Prospectus"), which provides that it will be supplemented by one or more prospectus supplements (each such prospectus supplement, together with the Base Prospectus, a "Prospectus"), under the Securities Act of 1933, as amended (the "Act"), relating to the registration for issue and sale by the Company of up to \$2,600,000,000 aggregate offering price of (i) one or more series of senior unsecured debt securities (the "Notes") under an indenture between the Company and U.S. Bank National Association, as trustee (in such capacity, together with its successors, the "Notes Trustee"), a form of which is included as Exhibit 4.1 to the Registration Statement, and one or more supplements thereto (collectively, the "Notes Indenture"), (ii) one or more series of first mortgage bonds (the "First Mortgage Bonds") under a First Mortgage Indenture, dated October 1, 1940, between the Company and U.S. Bank National Association, as successor trustee (in such capacity, together with its successors, the "Bond Trustee"), which is included as Exhibits 4.3 through 4.9 of the Registration Statement, as amended to the date hereof, and as further supplemented by one or more supplements thereto (collectively, the "Bond Indenture"), and (iii) shares of series preferred stock (the "Series Preferred Stock"). The Notes, First Mortgage Bonds and Series Preferred Stock, plus any additional Notes, First Mortgage Bonds and Series Preferred Stock that may be registered pursuant to any subsequent registration statement that the Company may hereafter file with the Commission pursuant to Rule 462(b) under the Act in connection with the offering by the Company contemplated by the Registration Statement, are referred to herein collectively as the "Securities,"

July 30, 2015 Page 2

#### LATHAM&WATKINS LLP

This opinion is being furnished in connection with the requirements of Item 601(b)(5) of Regulation S-K under the Act, and no opinion is expressed herein as to any matter pertaining to the contents of the Registration Statement or related applicable Prospectus, other than as expressly stated herein with respect to the issue of the Securities.

As such counsel, we have examined such matters of fact and questions of law as we have considered appropriate for purposes of this letter. With your consent, we have relied upon certificates and other assurances of officers of the Company and others as to factual matters without having independently verified such factual matters. We are opining herein (i) with respect to paragraph 1, as to the internal laws of the State of New York, (ii) with respect to paragraphs 2 and 3, as to the internal laws of the State of California (which is the law the Company has indicated will govern the First Mortgage Bonds, as will be provided in the applicable supplemental indenture pertaining to the applicable series of First Mortgage Bonds), and we express no opinion with respect to the applicability thereto, or the effect thereon, of the laws of any other jurisdiction or as to any matters of municipal law or the laws of any local agencies within any state.

Subject to the foregoing and the other matters set forth herein, it is our opinion that, as of the date hereof:

- 1. When the Notes Indenture has been duly authorized, executed and delivered by all necessary corporate action of the Company and the Notes Trustee, and when the specific terms of the Notes have been duly established in accordance with the terms of the Notes Indenture and authorized by all necessary corporate action of the Company, and such Notes have been duly executed, authenticated, issued and delivered against payment therefor in accordance with the terms of the Notes Indenture and in the manner contemplated by the applicable Prospectus and by such corporate action, such Notes will be the legally valid and binding obligations of the Company, enforceable against the Company in accordance with their terms.
- 2. When the supplemental indenture pertaining to the applicable series of First Mortgage Bonds has been duly authorized, executed and delivered by all necessary corporate action of the Company and the Bond Trustee, and when the specific terms of such series of First Mortgage Bonds have been duly established in accordance with the terms of the Bond Indenture and applicable law and authorized by all necessary corporate action of the Company and the Bond Trustee, and such series of First Mortgage Bonds have been duly executed, authenticated, issued and delivered against payment therefor in accordance with the terms of the Bond Indenture and in the manner contemplated by the applicable Prospectus and by such corporate action, such series of First Mortgage Bonds will be the legally valid and binding obligations of the Company, enforceable against the Company in accordance with their terms.
- 3. When a series of Series Preferred Stock has been duly established in accordance with the terms of the Company's Restated Articles of Incorporation and authorized by all necessary corporate action of the Company, upon issuance, delivery and payment therefor in the manner contemplated by the applicable Prospectus and by such corporate action, and in total amounts and numbers of shares that do not exceed the respective total amounts and numbers of

July 30, 2015 Page 3

#### LATHAM&WATKINS LLP

shares (a) available under the articles of incorporation, and (b) authorized by the board of directors in connection with the offering contemplated by the applicable Prospectus, such shares of such series of Series Preferred Stock will be validly issued, fully paid and nonassessable. In rendering the foregoing opinion, we have assumed that the Company will comply with all applicable notice requirements regarding uncertificated shares provided in the general corporation law of the State of California.

Our opinions are subject to: (i) the effect of bankruptcy, insolvency, reorganization, preference, fraudulent transfer, moratorium or other similar laws relating to or affecting the rights and remedies of creditors; (ii) the effect of general principles of equity, whether considered in a proceeding in equity or at law (including the possible unavailability of specific performance or injunctive relief), concepts of materiality, reasonableness, good faith and fair dealing, and the discretion of the court before which a proceeding is brought; (iii) the invalidity under certain circumstances under law or court decisions of provisions providing for the indemnification of or contribution to a party with respect to a liability where such indemnification or contribution is contrary to public policy; and (iv) we express no opinion as to (a) any provision for liquidated damages, default interest, late charges, monetary penalties, make-whole premiums or other economic remedies to the extent such provisions are deemed to constitute a penalty, (b) consents to, or restrictions upon, governing law, jurisdiction, venue, arbitration, remedies, or judicial relief, (c) waivers of rights or defenses, (d) any provision requiring the payment of attorneys' fees, where such payment is contrary to law or public policy, (e) any provision permitting, upon acceleration of the Notes or the First Mortgage Bonds, collection of that portion of the stated principal amount thereof which might be determined to constitute unearned interest thereon, (f) the creation, validity, attachment, perfection, or priority of any lien or security interest, (g) advance waivers of claims, defenses, rights granted by law, or notice, opportunity for hearing, evidentiary requirements, statutes of limitation, trial by jury or at law, or other procedural rights, (h) waivers of broadly or vaguely stated rights, (i) provisions for exclusivity, election or cumulation of rights or remedies, (j) provisions authorizing or validating conclusive or discretionary determinations, (k) grants of setoff rights, (1) proxies, powers and trusts, (m) provisions prohibiting, restricting, or requiring consent to assignment or transfer of any right or property, (n) any provision to the extent it requires that a claim with respect to a security denominated in other than U.S. dollars (or a judgment in respect of such a claim) be converted into U.S. dollars at a rate of exchange at a particular date, to the extent applicable law otherwise provides, and (o) the severability, if invalid, of provisions to the foregoing effect. In addition, we have not been requested to express and, with your consent, do not render any opinion herein with respect to the creation, validity, perfection or priority of any security interest.

With your consent, we have assumed (a) that each of the Notes Indenture, the Bond Indenture, the Notes and the First Mortgage Bonds (collectively, the "*Documents*") will have been duly authorized, executed and delivered by the parties thereto, (b) that each of the Documents constitutes or will constitute legally valid and binding obligations of the parties thereto other than the Company, enforceable against each of them in accordance with their respective terms, and (c) that the status of each of the Documents as legally valid and binding obligations of the parties will not be affected by any failures to obtain required consents,

July 30, 2015 Page 4

#### LATHAM & WATKINS LLP

approvals or authorizations from, or to make required registrations, declarations or filings with, governmental authorities.

This opinion is for your benefit in connection with the Registration Statement and may be relied upon by you and by persons entitled to rely upon it pursuant to the applicable provisions of the Act. We consent to your filing this opinion as an exhibit to the Registration Statement and to the reference to our firm contained in the Prospectus under the heading "Legal Matters." We further consent to the incorporation by reference of this letter and consent into any registration statement or post-effective amendment to the Registration Statement filed pursuant to Rule 462(b) under the Act with respect to any of the Securities. In giving such consent, we do not thereby admit that we are in the category of persons whose consent is required under Section 7 of the Act or the rules and regulations of the Commission thereunder.

Very truly yours,

/s/ Latham & Watkins LLP



Deloitte & Touche LLP Suite 700 655 W Broadway San Diego, CA 92101-8590 USA

Tel: +1 619 232 6500 Fax: +1 619 237 6802 www.deloitte.com

#### CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

Delatte & Touche LLP

We consent to the incorporation by reference in this Registration Statement on Form S-3 of our reports dated February 26, 2015, relating to the consolidated financial statements of Southern California Gas Company (the "Company"), and the effectiveness of the Company's internal control over financial reporting, appearing in the Annual Report on Form 10-K of Southern California Gas Company for the year ended December 31, 2014, and to the reference to us under the heading "Experts" in the Prospectus, which is part of this Registration Statement.

July 29, 2015

Member of Deloitte Touche Tohmatsu Limited

#### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

#### FORM T-1

## STATEMENT OF ELIGIBILITY UNDER THE TRUST INDENTURE ACT OF 1939 OF A CORPORATION DESIGNATED TO ACT AS TRUSTEE

Check if an Application to Determine Eligibility of a Trustee Pursuant to Section 305(b)(2)

### U.S. BANK NATIONAL ASSOCIATION

(Exact name of Trustee as specified in its charter)

31-0841368
I.R.S. Employer Identification No.

800 Nicollet Mall Minneapolis, Minnesota (Address of principal executive offices)

55402 (Zip Code)

Fonda Hall
U.S. Bank National Association
633 W. Fifth Street, 24<sup>th</sup> Floor
Los Angeles, CA 90071
(213) 615-6023
(Name, address and telephone number of agent for service)

## **Southern California Gas Company**

(Issuer with respect to the Securities)

California (State or other jurisdiction of incorporation or organization) 95-1240705 (I.R.S. Employer Identification No.)

555 West Fifth Street Los Angeles, California (Address of Principal Executive Offices)

90013-1011 (Zip Code)

Senior Unsecured Debt Securities First Mortgage Bonds (Title of the Indenture Securities)

#### FORM T-1

- **Item 1. GENERAL INFORMATION.** Furnish the following information as to the Trustee.
  - a) Name and address of each examining or supervising authority to which it is subject.

Comptroller of the Currency Washington, D.C.

b) Whether it is authorized to exercise corporate trust powers.

Yes

Item 2. AFFILIATIONS WITH OBLIGOR. If the obligor is an affiliate of the Trustee, describe each such affiliation.

None

- **Items 3-15** Items 3-15 are not applicable because to the best of the Trustee's knowledge, the obligor is not in default under any Indenture for which the Trustee acts as Trustee.
- **Item 16.** LIST OF EXHIBITS: List below all exhibits filed as a part of this statement of eligibility and qualification.
  - 1. A copy of the Articles of Association of the Trustee.\*
  - 2. A copy of the certificate of authority of the Trustee to commence business, attached as Exhibit 2.
  - 3. A copy of the certificate of authority of the Trustee to exercise corporate trust powers, attached as Exhibit 3.
  - 4. A copy of the existing bylaws of the Trustee.\*\*
  - 5. A copy of each Indenture referred to in Item 4. Not applicable.
  - 6. The consent of the Trustee required by Section 321(b) of the Trust Indenture Act of 1939, attached as Exhibit 6.
  - 7. Report of Condition of the Trustee as of March 31, 2015 published pursuant to law or the requirements of its supervising or examining authority, attached as Exhibit 7.
- \* Incorporated by reference to Exhibit 25.1 to Amendment No. 2 to registration statement on S-4, Registration Number 333-128217 filed on November 15, 2005.
- \*\* Incorporated by reference to Exhibit 25.1 to registration statement on form S-3ASR, Registration Number 333-199863 filed on November 5, 2014.

#### **SIGNATURE**

Pursuant to the requirements of the Trust Indenture Act of 1939, as amended, the Trustee, U.S. BANK NATIONAL ASSOCIATION, a national banking association organized and existing under the laws of the United States of America, has duly caused this statement of eligibility and qualification to be signed on its behalf by the undersigned, thereunto duly authorized, all in the Los Angeles, State of California on the 30th of July, 2015.

By: /s/ Fonda Hall

Fonda Hall Vice President



Washington, DC 20219

#### CERTIFICATE OF CORPORATE EXISTENCE

- I, Thomas J. Curry, Comptroller of the Currency, do hereby certify that:
- 1. The Comptroller of the Currency, pursuant to Revised Statutes 324, et seq, as amended, and 12 USC 1, et seq, as amended, has possession, custody, and control of all records pertaining to the chartering, regulation, and supervision of all national banking associations.
- 2. "U.S. Bank National Association," Cincinnati, Ohio (Charter No. 24), is a national banking association formed under the laws of the United States and is authorized thereunder to transact the business of banking on the date of this certificate.

IN TESTIMONY WHEREOF, today,
January 21, 2015, I have hereunto
subscribed my name and caused my seal
of office to be affixed to these presents at
the U.S. Department of the Treasury, in
the City of Washington, District of
Columbia.



Comptroller of the Currency



Washington, DC 20219

#### **CERTIFICATION OF FIDUCIARY POWERS**

- I, Thomas J. Curry, Comptroller of the Currency, do hereby certify that:
- 1. The Office of the Comptroller of the Currency, pursuant to Revised Statutes 324, et seq, as amended, and 12 USC 1, et seq, as amended, has possession, custody, and control of all records pertaining to the chartering, regulation. and supervision of all national banking associations.
- 2. "U.S. Bank National Association," Cincinnati, Ohio (Charter No. 24), was granted, under the hand and seal of the Comptroller, the right to act in all fiduciary capacities authorized under the provisions of the Act of Congress approved September 28, 1962, 76 Stat. 668, 12 USC 92a, and that the authority so granted remains in full force and effect on the date of this certificate.

IN TESTIMONY WHEREOF, today,
January 21, 2015, I have hereunto
subscribed my name and caused my seal of
office to be affixed to these presents at the
U.S. Department of the Treasury, in the City
of Washington, District of Columbia.



Comptroller of the Currency

#### Exhibit 6

#### CONSENT

In accordance with Section 321(b) of the Trust Indenture Act of 1939, the undersigned, U.S. BANK NATIONAL ASSOCIATION hereby consents that reports of examination of the undersigned by Federal, State, Territorial or District authorities may be furnished by such authorities to the Securities and Exchange Commission upon its request therefor.

Dated: July 30, 2015

By: /s/ Fonda Hall

Fonda Hall Vice President

# Exhibit 7 U.S. Bank National Association Statement of Financial Condition As of 3/31/2015

(\$000's)

	3/31/2015
Assets	
Cash and Balances Due From	\$ 14,048,386
Depository Institutions	
Securities	101,980,067
Federal Funds	48,958
Loans & Lease Financing Receivables	248,152,881
Fixed Assets	4,794,618
Intangible Assets	12,898,132
Other Assets	23,440,131
Total Assets	\$405,363,173
Liabilities	
Deposits	\$297,444,787
Fed Funds	1,856,185
Treasury Demand Notes	0
Trading Liabilities	1,179,175
Other Borrowed Money	46,898,693
Acceptances	0
Subordinated Notes and Debentures	3,650,000
Other Liabilities	12,682,543
Total Liabilities	\$363,711,383
Equity	
Common and Preferred Stock	18,200
Surplus	14,266,400
Undivided Profits	26,511,651
Minority Interest in Subsidiaries	855,539
Total Equity Capital	\$ 41,651,790
Total Liabilities and Equity Capital	\$405,363,173

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#`T\#6@-F`W(#?@.*`Y8#H@.N`[H# MQP/3`^`#[`/Y!`8$$P0@!"T$.P1(!%4$8P1Q!'X$C`2:!*@$M@3$!-,$X03P
M!/X%#044%]@8&!A8&)P8W!D@& M609J!GL&C`:=!J\&P`;1!N,&]0<'!QD'*P<]!T\'80=T!X8'F0>L![\'T@?E M!_@("P@?"#
((1@A:"&X(@@B6"*H(O@C2".<(\land PD0"24).@E/"60)>0F/":0)
MN@G/">4)\PH1"B<*/0I4"FH*@0J8"JX*Q0K<"O,+"PLB"SD+40MI"X`+F`NP M"\@+X0OY#!(,*@Q##%P,=0R.#*<,P`S9#/,-
#0TF#4`-6@UT#8X-J0W##=X- M^`X3#BX.20YD#G\.FPZV#M(.[@\)#R4/00]>#WH/E@^S#\\/[!`)$"800Q!A M$'X0FQ"Y$-
<0]1$3$3$13Q%M$8P1JA')$>@2!Q(F$D429!*$$J,2PQ+C$P,3 M(Q-#$V,3@Q.D$\43Y10&%"<4211J%
(L4K13.%/`5$A4T%585>!6;%;T5X!8# M%B86219L%H\6LA;6%OH7'1=!%V47B1>N%](7]Q@;&$`891B*&*\8U1CZ&2`9
M11EK&9$9MQG=&@0:*AI1&G<:GAK%&NP;%!L[&V,;BANR&]H<`APJ'%(<>QRC
M',P<]1T>'4<=:AZ4'KX>Z1\3'SX?:1^4'[\?ZB`5($$@ M;""8(,0@\"$<(4@A=2&A(B>K)]PH#2@_*'$H
MHBC4*08I."EK*9TIT"H"*C4J:"J;*L\K`BLV*VDKG2O1+`4L.2QN+*(LURT,
M+4$M=BVK+>$N%BY,+H(NMR[N+R0O6B^1+\<-]1B)&9T:K1O!'-4=[1\!( M!4A+2)%(UTD=26-)J4GP2C=*?
4K$2PQ+4TN:2^),*DQR3+I-`DU*39--W$XE M3FY.MT\`3TE/DT_=4"=0<5"[40914%&;4>92,5)\4L=3$U-?4ZI3]E1"5(]4
MVU4H5755PE8/5EQ6J5;W5T17DE?@6"]8?5C+61I9:5FX6@=:5EJF6O5;15N5 M6^5<-5R&7-9=)UUX7&EYL7KU?#U]A7[-
@!6!78*I@_&%/8:)A]6))8IQB M\&-#8Y=CZV1`9)1DZ64]99)EYV8]9I)FZ&<]9Y-GZ6@_:)9H[&E#:9II\6I(
M:I]J]VM/:Z=K_VQ7;*]M"&U@;;EN$FYK;L1O'F]X;]%P*W"&<.!Q.G&5&YXS'DJ>8EYYWI& M>J5[!'MC>\)\
(7R!?.%]07VA?@%^8G["?R-_A'_E@$>`J($*@6N!S8(P@I*" M](-7@[J$'82`A..%1X6KA@Z&I+CDTV3MI0@E(J4 M])5?
EAMJ(FHI:C!J-VH^:D5J3'I3BEJ:8:IHNF_:=NI^"H M4JC$J3>IJ:H_ MR#W(O,DZR;G*.,JWRS;+MLPUS+7-
-:6YQ\_GJ>@RZ+SI1NG0ZEOJ\ MY>MPZ\_OLANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T\#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9SN*.ZT[T#AS/!8]ASSLOGANT1[9
MM+6VM[BYNL+#Q,7&Q\C)RM+3U-76U]C9VN'BX^3EYN?HZ>KQ\O/T]?;W^/GZ
M!`<\%!`0``0)W``\$"`Q\$\$!2\$Q!A)!40=A<1,B,H\$(\%\$*1H;'!"2,S4O`58G+1 M"A8D-.\$E\\1<8\&1HF)R@I*C4V-1.5
S@Y.D-$149'2$E*4U155E=865IC9&5F9VAI M:G-T=79W>'EZ@H.$A8:'B(F*DI.4E9:7F)F:HJ.DI::GJ*FJLK.TM;:WN+FZ
MPL/$Q<;'R,G*TM/4U=;7V-G:XN/DY>;GZ.GJ\O/T]?;W^/GZ_]H`#`,!``(1
M`Q\$'/P\#]_{****}\&M'ND5MS\#;G@'@\_6G444`\%\%4K\_`,26\&E:C!:75Y;V]Q=*6~MA25PAE`95.W/4Y91@<\_,*V\_`."E7QN\7\_LZ?
LMW_C#P1?:'8ZYI=]:HO]JZ M7>:E#.DL@B:-8;7]XSG>-IX4$98@9(`/;O%/B6T\'>';S5;]S'96$1GGD`R(
N[2TMK2\_@O\_\#R75Q)'=2\&!9DLO,82Q3\$2J\ MJ.01\ P8\ HRU\ Q\_\ '!*[]OGXT?\%/X?\_\$GP[H\_@ZTL[\_X=>\&?[7@T\&UT"+2H=7]]
MNY&1K-+1#B""VFMD`.2"'9G"X.:!V/TG^!7[4'AGXY>)O%6AZ1J<>I:EX0U* M73[Z6&!TM6D#M^[BD;B5HUVJY3.&
()P&7/F/BW_@H=X0\&_\%(](^"5U>^(F MU/5-`61A%I[2:7:W7=SB7=E/="5_*MK9D`%O(S;HMS* M5)==H%C]4OV]?
^"@/@S]C*W\*Z5K/B"/3/$?B^_Q96Z6INYA9VY66\G,8_A6 M+"#NSS1JO)R/H&\U.WT^Q-S--
"`J[M[,%7';D\`/V0/"GAWPQ)=>`KM_#4UW96?B&*\N;3PIL@29Q0RQ@`CPEB5 MHYXHV^>,!MZE6&
[H23NP`5CZ1HKFO!?Q@\,_$G4)(/#FM:9X@2"-GGN--NH[ MJ"W*R&/RW=&(5]RN-
IY_=OZ5TM`!1110`4444`%%%%`!6)K/CNUV:[]BO(; MJ))(XGAG6,R).SR,A10N6RF%9B1M"ODG`;&?
\3OB=\^`#:*UD3PYKNOK>2QV MT2:7$DLGFO*J`/O95C0!BYD=@H5&R?VX?VW]+\'?!N[O_!MSINL>++:
MV.H:9X>OR;=_$T$D+^0P.0ZV;RC+2\(PMI$;Y2Q`!J?\%-/C+\.O@_\`L]Z? M\0/'4#ZEX9T&[-
S;7MGY=X;2YDAD@MY8K=OW=S(TDJH@D_=H[K(V`E?.7[6] MW\4?
VIO^";^E7'A+5?'NNWVMFPGUC1[:\AL]5O+9X_,>Q6[@BC47RN)C.(@B%X4G.UBIKVKPI^W'XG^*5O\+/C?
ILWA:S^'/C[29;O1[;7 MM870YM%U)('MY-(,K$6[I<73121GB4I!\\Y7:M`['*7M_P""=3\\'P1\1_#[ MPY/XH\\%5K;\(-
*N]2L&GO+>SEMHP;J[O-&"!9(H)I)D#NSR+*R`+MY/W/\)O M#GA!K_Q'XMT>PT>75]3:TM-9G%HNFW30[(KB+
[3C\&3\%930\$*PR\%CP-N\&?""M[8?[36G_`+"O@W6\#X4\1^(]-A\&6^)SK\#:W`T\&IQS6,J;M1-FD5N5M2\_FI'\#-M/P[Q/.-BW6W6W8W8]]
PCVOY1^V'^UA^TO\`"!5\3S:1KK^%O$>G>&KS^U](M1(C0O;3(9;R MXCVPI=F.Y(_#7C;Q9^R\-M;\'?$^Q\#Z[X-\0VM_
MM9[&>P\8(U[+#'MG##R[.874V!@$@!2HP2?F;_@MI\2M;;]E7XM?"_P7JWB6 M2TT_6H-0U[6=>
Y8MRK^[6%N''': MN8^&O@[X7_M1?L&:>/=.N[[5]3U:WM)K=S%'%<+9W<=R=L(MH3? M1KN\S<=H+DJ#0-
=ST[_@DU\$O#O@W]CZ_P#'GB.RM+T>-]*_X1[[+I,)%U:: MZ22 M62VDNXF6Y,!^2.(P6ABB9QNC-N6P3NK\M/\`@F+'\"?
C1^RP/A = K/Q! \\ 0'X@M^&$^U7TMIJS1P:K = W$O\#NBZ5X*O + \&\_M-5GM0EA\%(]K\%/=N`@R;1;M!;:)HXV''.XD; \\ `?YA\\ Y^*?MBZ5X*O + \&\_M-5GM0EA\%(]K\%/=N`@R;1;M!;:)HXV''.XD; \\ `?YA\\ Y^*?MBZ5X*O + &\_M-5GM0EA\%(]K\%/=N`@R;1;M!;:)HXV''.XD; \\ `?YA\\ Y^*?MBZ5X*O + &\_M-5GM0EA\%(]K\%/=N`@R;1;MIXV''.XD; \\ `?YA\\ Y^*?MBZ5X*O + &\_M-5GM0EA\%(]K\%/=N`W_* + &\_M-5GM0EA\%()K\%/=N`W_* + &
A!\4/AS\,_"[?![XJ77PET:2VM_%^@>&WLYM;@A MTE-\LMI!=K;!UB8W,4D:S(8<,8V8!'%>G?
#W]K+Q!)^UM\1_@=X\T%O#7A:[ M6^TZ76='>?5K&]NY]+6[FD661W2U6.UA51;L"0TQ"[>17TOHGC_1OBEH&HZI MX-
\7Z1JT5IJZ:0YAA26VTUH@RK;I!RYD@@\V18\AFFE4L-HV`$?/'_!/C]M/ MX=?`3X\0:0UG_`&>NMZH^+B"[C12T1B:*]WM/
M'^{.YF.T`"OLWX1?M$WOQ3^*OBGPK=>!\_\%?A.X')^5)+<:S`BV^{IP3}[OL\UI\ M+$SI(\#Y7;0M+'\_AW\,1;^+?B)+$
M-!?:RWA2W\2K<>=8Z/"L9N%:\,DID2=T9'?JASN0A2BL`S[BHK@O@I\0?$OC M^?
6U\0Z!+X>DT6[^PHNW?;ZEF**3[3;RY/F0G>0#A3G.B?&#]HCXW_``P^*^M_%;Q'`)8-=O=*6ZL+&W9IV@:2)'''6
M*Q1RPPO$C[&,04$'YC[QJGC/P1^T3^UC8W^F:KXQ'PO\(K91RP)ITRZ?%J4=
MW < 3"RCCD4K = /> / + L = @I*"")4 / (2ZWQ! \wedge *TG[0'PS \backslash 7: \_XD \backslash 52 \wedge \%? A + XQMI[\%] + XQMI[\%
MO$L'BI+VWTI+AVM3836D*GR9EBF0F,Y1F4[G!5=P,R+7Q+X5\_;"^&7A+7M7^{A}+7M7
M(NGZWX0\4R)I=UXAT%+O1]3U;5E\6:+KNK>!A%HFE%(YRS1I&&CNIV2*=UN M&4CS`\*"D_.?6]-\$/COX!?!6]\&?
PBLKG4O#7@G5V?4[^'P[9_:;BWFMK=HK M/["(OG:E<^?'Y\TGE;;:0@*&D./G3]H']O[Q7^T;^R7X2^#-[\-(;*?QD3X M&77-
'BCU""S\O4K:&8VULYC=666W(CX18P,A"J*2#1<_;FD^%FM?`7P1)\/- M/\0:]XO\3'PY?
^&;"VT\NGDGO4N+RXAE=P4GF9!)'(Y(616!&/D^=OV\?VX M/$_[0]SX0^&6D00WLNOQ:)+C)&-2U6RO4MK.ZA8<-
'+&DC)"I"1PXY.6 M:OU/\+_L-?"OPA\+/A'QE:P#SK>7D2VMM-&_#_A^?5]/GMM9\265W&B:88I)I M+=$A5?\`2I7+6_D)M26-
G"OP2`$S]'-&^$OQ5BTC4]?U#4_#VA>+/B)J5[I\ M%KXGFMKR\B\.BWW22V[1^7(1%#$DK)F1B)2C,&+/7Q-_P2M\.^+_`-
KS]AS] MHKP3K.L:EX&\$Z-X6E70OL.DI:Z+!ES=7""(DM*CBTPRO(/+65P/OC'Z3_M- M?&37_A?\=]:\2WOP[@E\-
[*KWCL3C`KU[XD_LQ^'T_8SO/VC/@/>ZWX:U[1+>[ MO]6B;49I+R2Q=4-[I]Z^7%S<6JNK0M(A5X%3@.`Y[?\`X*%?
LK:7^U3^QMXF M\4_#?QM%X36?$>E75KJS:#)W53LCMPA$C8+ M&$GG*K0.Y\VZGH_A?_@C#-
```

```
JOQ`\;:QKWQ%\"?'N_ODDU&Z:*[NK6YFL1*C3[ M5WW#7D:%FP4"O&!O";2?,_V??%_BG]N[X]>.OB)\
(K*^\\'^!_#_A:W/B*W:V MGNH=8NK15=[!H8F,=S)(ZW`GC9Y"8KJ-LLSD+Z'_`,%YOA_JWQP^$G@OX=^%
MK + Q'J_AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: V = MIWV > *WDE4; FNK@!V'' \setminus (M^4 \setminus M^2)^* CWC3]A/]G/XG\& = /$VB02/ = -WC3/AGP.W_``F'B;Q + : VLEQ!: 
I%O86IFLUU>>216N;O(WXB"@>9-(FX+& MK#Y0:`2NC](OV7?&7@C]H/XD6OA7XD>$M#T+X@_#'+](HKCP-`MM`T
M%O81'9DNI62)"%E4@!AT'@K]F[QI^T1\4X/BQXX\52:5\)O`=XVH># MO"=C"D,?B2"WF#?
VC>QQEPP:."W%NBXVQQHI"AF#>"_\$F]!OOVK?#'BWXR- M=Q:A\5H/$$,=MJ>IZ[_9\J0\>BQWDUY&$V1O\%"
(TC18BIBA$8R6>OK_]F=-* M_:)^'GAOXK:7I^@OJNJZ5):W%OH=P_D1I'),&2&1V#2K.S`QXC5%8"0C<@!! M,LZ+_P`%!X?
AI^V'X9^!4GP]DT\#_`(3\#P]-K.@SIXT_1YKO:PMDDP'''DW-(Z@L1 MT'7?L!?MQ:M^U=\*XKB\\''0>#]=T?
7;CPSJ\BPZA'=0:++!!',NV:,;9(MA: M/>H\\U=HR/FH\\G**1,[1NQNQSCI10(;<7,=I'OED2)"0NYV\&2<\<\I.*\.
M_{P\#@K<\_AW3\_V;\_'NOZ7XY\backslash +>''O'\%AX]@C>6*] \\ \label{eq:main} \\ EE*L^VVL("RG?LMMI4+(20:.M1^\$&M7G[\%W["PXMM)OO\%\&N?")) \\ \\ +(20:.M1^\$&M7G[\%W["PXMM)OO\%\&N?") \\ +(20:.M1^\$&M7G[\%W["PXMM)OO\%\&N?")) \\ +(20:.M1^\$&M7G[\%W["PXMM]OO\%\&N?") \\ +(20:.M1^\$&M7G[\%W["PXMM]OO\%\&N]) \\ +(20:.M1^*&M7G[\%W["PXMM]OO\%\&N]) \\ +(20:.M1^*&M7G[\%W["PXMM]OO\%\&N]) \\ +(20:.M1^*&M7G[\%W["PXMM]OO\%\&N]) \\ +(20:.M1^*&M7G[\%W["PXMM]OO\%\%N]) \\ +(20:.M1^*&M7G[\%W["PXMM]OO\%\%N
&'XBSV/CS4]!9K>X\5:U:17-O)J-M807#!61 M8BY*J0^QCM&6`&K^S+\`+F[^%'C#XO\`P8\/Z'_:OC6"6'3O#FLZ#/M?
\!Z=X_\+ZKJ MNC^"H=2T];FTN],DMUETJRU*[FRWGOOF8+;R#$3EL95&KGOV@/`OQ4_9)^*G
MB:/X9>'O"\'A\^);37[:QN)KEK#^T;BV@,&+<21M#;Q7<=Q*L$0VF2:5Y-[> M6:`/F>3_`(*7?M$?\$OM<\2+XD\-
%M1^)'B'5O$=_K&OV`N9;Z[BEAT]/DM9 MD\NW62"0+&%W'UOQ'X[_P"$[\4VT?CB
MRUN)HUU#3[B6VW>8[PKMV3\8T*QL#(#=2!>K$?D5\6/\"D6J?MB\+]&NOB)# M':G0],NI-+AT25HX7O;N\-Y>&)"K_,
[ERF]9!%*D8!58B:_5?XM?M>>&_P!I M_P`<1_"_PIJ7C>VM]4\.1:;XGT[3O#JZK#8O`L=Q'(]U%)LAD6"U9P`Q!4D`
M;CR#..;_`&$O^"F=[\7I/$7PX^)'Q`;P7\>+?Q'/HOAFXU(0PV6J7,+HOV,J MF5,6(HDC,H#&5I2I+9%>Q_M)?LM?"[]KT>+?
%'B>UEO/&D>KJ/#.HV6G7-OK M-G)IUL1%97J/AIXC?-*A09CE0'E0K%(OV5?V!?''?[-GAC2;R'0[GQU;^)/$%
MKXDTV] \ 4/8ZEJM_J[R6 \land VZC: W7RX$2V\%W+)EF\&[\#ELXSZG \land Q_A'J\$\_C.P \land G_A'J\$\_C.P \land 
WZ3&WC>W/D0NPLE#W%Q=6LK2K*!( M#N;A37S)\3OB!\0-
<^%OBBPU3PW\4M6\,>+/%MC:7EI%"GEPK'A60@;@>Q^8WP+\3_&S]DK7 M]=UKQ;\.=,\92_"#6G6675[:6WFM;F?
31IVFX\O]UX+K$L#G(2$;V,E MO,V6!$:_0WB[_@JQ\`E^*>KWFI^+;."71WNM#FBM;"Y?5XEL?/N)TEC/$<4:
MID2;=WF,F",BO&?`WP?^'7Q9_9Y_9P\)3^-?!GB/1/"-H+;Q?>:Q:;(E@0BZ
MBTZ:YEN(WMY_M7V6/RRKN3YI'ED\@'P=^V!_P6)_:.OOC/J.I6GBJ+PYH#ZZ
MT^BZ3X=CFN;"X\$,A7)93","0W"L6+.00T8)\8_;2 M_P"":/Q'TK]K_4=<\'^$+(^!_B\#XDO(O!5E\#-10.00T8))
MM+B2X\V*,AY.#F:,RK&2'D M0$Y&=Q(?@S%^SC^V!X#Y8]7T"]U1I[.2]U,VSSKI+(S[T2XOPV M!
(7W)L`R_\%"O@MXM_9D_X*!6?@'X5>*=2\$^$/CMI&GOJUSH]OL82X5Y%D8J2TP5Y"#S][6OPMT+]E+XY>#?
&&E:U!IGA/7_! M^D?#>&QBN)([K1A=+-+9W\-L5$U/2+:T40ZK::9!)/:W-L-5>:XM(K$QF66>1(%S*YP0IE543YQ] M*?
_?RK- M%*BX@VR(Z2,&7O=(L+NWL M1;6=J6N#=+;2,/E"-)=RF)P@#JOS')O#9UK5M*.I:MY5[]@\RS)2XCBQ+),9+R?
R%D'F??RVR4F@ M5C]5/AA\1['XL>"[;7-.BO(+:YDEB\JZA,,T3Q2M$ZLAY!#HP_"BH/AI\4O"
MGQ&T#2KCPSK&EZA::KID.L626TREY;.;/E3[/O!'(.&(Y((Z@T4"*7QO\#^( M_'/@K4;7PUXDE\-
ZI)9S1V=TELEPL,S(55WB?Y954G.PE/-9NWAO;C3M&U&QADC73H&B@\VR3>,1N$!?#93SI!
ML7^+]B/C;XO\5^$M.,VAZ7;W%FJ(T]X;E%:T_?PJS,CC&Q8GEF1>'(OWIAGM[>%5^V MM*K*K>80I'W3(0-H-'9V?BV?
Q+\8+3X^>.]"\5>";;P9IEIKKZ%K.NQZ]HD, M%Y9J;:>RC>")HKF,7@40%GVL0N%'S'1^.G_!8^_`&=_@K;>(-'T&T\1^']5
M\17L)UA=2W6NDPV4-K+90MYT/[]9//A43(Q\U1YBE7D&/$_VI]4\3_L]_'7X M^\-_%-TVN?#U?
AK#HW@VS18;BRN[N[:&YM+80."^;1VFED9PR1P[QN&2M4/& M_P#P4E^#_A3_`()_>`O"_AKP);_$>[O-`O\`2+?48=-
AMY["YAATJW-[*&D* MI,LRQ*=B.6,<15EVL2#L?GM\,O&V@Z-XRU37O%/A'XHZQ8)JF06?ASPK-,
(8I'N(RJSW`M<^2=KR*SL3\A>O-?"?[(WCW]I[PSXH/A3P MY_8*2^(;G6-$CM=S37+2)(D37;O(Z6D,YM[@?,XS),/X(UW?
7_C#_@C]JGQ. M^&_PE\#^%+OP\%.@:S?ZM\7O'AO#.(+VYA:>6SME"`71""0$I&8PR1@YVMM
M!MH]._9T_P""B_@G2V^(WBJZ\$4[A]W>/O&?@2U7PIK%YJ=CXA\#0Z4UV)9U$D.GP"U=I+L
MR1_,&>&X!96_A`*KW7\;OVK/V6?A[X/_`&@+B^^%.I6FBZ'\++W2M4ETB&T_ MM"XU#5UU2T@NHI-
H0);;C$@;8=S6_P!P`EJF^*W[8]A\.O'7A#XJZ-^S[X3T MSQOXOM9]4GUFXNC+)'(=]M&AAN&V6(_^ M"F/Q@\/?
#O1_`VH((+Q?%=YK5X;2>\.F3V\%M#<6,RR;(GFAMW5_-C9HO-"! M3)(NY(T5Y7C1Y%41*,LM+^PI^T?
XE_:1\;3?"S6AJ/P]U6#PK8:IX5CL7?1- M-U>*YBNPDJP0(JB,!(/*ER0KRCY'->R?`O\`9ZUWP#^T7H_Q'UBXFMO&7A_X
M:6>D>)]%NY(+G4->$:*UXDC``;XVG0PRQ3$%<10']QJ!'@7PB_X)I>#?'_@3
MQ)XT\)Z1XP^'GB'5/$FH37<%_=Q:C)IVI*$O&5W\G'DRLB6THPD:&.4;GWX/ MLWC?_@G?
\#;K]AKP_P#""]6[\4V(U2\U:75=`OXX)KR_DDFBN&>XVR+-<*)Y
MF19<@R1QKO4[#7N7@KP#J/@3XA:%%X>N++3/A_%I5MIUKIEQ&B6=I?0S2S02 M[D`4_;(;B+&`<,LH)WL`?FJQ_:
(^&O[)/[-VH^#]\\7WJ>$K76I_$5CJ4&BM M?VNK:6]Q"6MXV(5327?8`?6_AW]G%OA;\%_@IX.AN+S5M/\
M'VI:1&MVZ.YN8[=+B&.X90/D=S)$S?,<9(.0N6\WU[]G31_%?[4?B;XHZC9: ME)8>&/#UAX?
T#2I;JW$.K2748N/,N;1T4M)')/MC$DF"RLH&<5X+\&O^#BCX M4>.-!T.SU_2?$NDO=7DDMPL-BMT-
M571W)"AMBL!9GS_\9_\`@BO8?"CX':CJ$<>M^/FC\77&IZ'9O/%ID:QWEK'] MLBFG$I,BGR%@1I%CDWCKM;)R/^"=?
[(7BC3_`!/\>?@SH5OXR\*6]Q-;+_PD M&G:A:J-+GD-P%GB,S\86V322QH5_?1A6+E'!KZ<\.:WXO\'/_!(S3_%O@CQ+
MI7Q`\7-;7?B"S\4WX6"VU2YNM33R[R03X8*+1WQN0$QKU4XK&_X)_P"H_%RS
M^+.O_P#"6:]!>:AJ4\6A75I&8ITLYK;3)2DB7(M0>/)[3Q`FM0:MI3W\8DDT%[;3XHM M6LFAG2(J7CC@61)?F7R0P*N?
\$_\`P)\1_A=??M+_`!%^/NOZCHNIZA;V M>EVVL^3+J*P6WG3-!+I^P&18H;G>(U5!DA6W?*&/S;\4OVO?BW\4OVT_&OPQ
M^`6I:+]DL-1T\#[38W,-WJ%K&;>&XO+IY@=Q$DB,\K!8TC$O8Y(,_9[]EC]G M3PS\'OAQX:CTR6#5Y-&TA=)TZ_$,
<8@L!-)/\#!\$L9*!\$65\$W*3O\$:\$D]:*\D M_P'''':7[*/Q6_9T^"V@^'_"Q'3Q;;Z-JNJ75O?VTD@_M:PN"\#:HT>U?!O[;_Q9T^"U]
ML_@!^TSIUA\)/A-9>-?'O[0.C7$^H1C[5'IFMV^FVY*3W+190.O[B)&5=VR? M+G:$%`T?/7[!/[,'PQ^*?
[+>B?"CQUHT6B_$J2*\3Q3:W'B"6ZU:\M[PR6XE]
MA, ;; H(WFFMMZR[`S*0`V[>?./@/=/@7X=_X)HWFM/-/`3/,/&4GB[7]"L]-MT?
2(8;X7TT<2J]O$401"W\N##!E=&17'S28/NO\`P3I^*?BJP^-GBCX<^.?A MG':^-M0\2WFO^)?B!+I&-+OK6.[*K!;RJ$VPQNL*)
(TCE?*01ROMCMU9,J?D$9#* MHH&6_P#@CE\*]"_9_P#^"3WQ>^)_A_2)?$>J^);G6M:C\.ZO<_:4N?[,$_V:
MT$K`>;\&'\#.SE,\%I')7.:^G_@U\3[;Q)^RW\*O'4]M)I]E<>!;?Q/:UN+@`*\#N!VX\&!GY:_80_;3\!:U\./BI\*/V?[0>/O\#O@/Q-?]
MW/AWP9$?B_P#" MK0_@_HGBC3/A1;^`-/E\*>(Y/%B3RZCI[,JP3Z7#.5CBFGD=5S,I8K;%7`5V MW4"9W?
```

```
C7]DK3_#MK^T_J&_4-"D\9W%GIWAZ_MMUH;6&]C5KA(I)EVJ?M#WA, MKKA?.8MD`&NR^#'[$*>%O^"L-
SXP^,/@OP9\']"B^)&K6=K?QW MVVVELX19*(5CA1[EH6B5H+5K@RG,*RXB!P`Y`U/K#2/AU>^'O&?]MWE@^K>'
MM3T2?3K)(UC%WH*PVZ$16\HPJ(1$?D4A3*@957#,W!_M'?%/5O@SX+U?XWZ5 M-
I/Q`A^'NA7,]]I&C6(\RZU"!D%X8I_,'R%)#+YR26*I+;JK/++!-'*S')1C<*5 M^\HK#+[X?WJZG%*J7,>HZE?W=S"]Q<&%!,8Y
M?M<`5E92PD@8*ZEU`/E/3OV'O$_QC_X*]?!^R@U7X@6.FVWP?OK/5RD^J1I#
MK'E+/(WVFWC"&-8FF14+,8A&!QO2O*_V_?%OPX^#\B6'@J#XV:O\3]7T.Q-Q
MI,$+P0:7H4\DBLT6^%4N[B='BDF1Y)$,3"/Y9"&%<]X!\$^-O!OB;P]\*?#_
M`(KM=5T#6O%>D>`M9U!)6LGU>>)OM$`MU@9)$CE2U2VD69&9B`S;7^[ZYX(_ MX)MRZ'\4_"7C+4O$?
A72O@OH^I7/A>YU;4M):.]\.RQM/#>SF#RI88F.HL4$ M]RYCQ):$9!.09\_:)X;\._LT?&+2OB]X_P#&?A^_TSXDSV]]'I?
@FTO;7^R= MUP91=MO16$3?8V=A&!(6RJ_(6SRF@^*_`OQC_P""@/@GPU\$M#N]'LO%5Q9F M]?7-
M8Q6 \land GW8 @ G*`J':\&=\$,:PLP''\&'' \ MXDP3C(\%]''K \land TI \land S-KO[) \\ 7[(-I \land 2IM(\land (1F \land 'VI6WAY + 36)A;Z2ENC;Y;JY\$\& \ M\&'P[\_:MSPAC(AB)A;Z2ENC;Y;JY\$\& \ M\&'P[\_:MSPAC(AB)A;Z2ENC;Y;JY$\& \ M\&'P[\_:MSPAC(AB)
[\1^+/V=Y_"'C;Q]K> MDQ3W5WI5KI(LHDBL;L-!J$1YA\0OC=\,OV&OC?\` M'>YL]"T+3O"WQ)T=_#?VV.R*6-
MJ=HQBN$G@9/*\E&O@KE7VF:*5-FZ4,05S M%^\W[97Q<^)G[$?QQ^+&H1:%=^(+?
4 [/P9I\$5GK5M9:=:Z?:2"6\_CNVGD"@(M]Q+`SH!)MEC*8W;J]*_:5 \land \$OBSQK \land SS \land 3\_BA\#-XGT3XI:;INM6GA \land Y \land 7]IJA \land 3\_BA\#-XGT3XI:;INM6GA \land Y \land 7\_BA \land 3\_BA \land 3\_BA\#-XGT3XI:;INM6GA \land Y \land 7\_BA \land 3\_BA \land 3\_BA
M$UI8&TC,>F6\D4*JF^18"#&)'`>3#AR^,_\`:JNY_B3^R+X!T*?P7J=]\0/$
M5C#XYMM%T#3I6TB*\DN;2*VCU2.%%9X7MV"R"7*861Y%.Q#65^U\;O#O['W M[\`X'^+4-S>F7QGXAT6XO?
#&G175KIUC!'(1=R65O(J&SF9);T>!T M%`CZW_X)>>./C9XB_9@\#I\7?"XTWQ$-/NO[9EF$5K.DZS1"VVPQJ$(EA:65 MR-
NQ@%QS@%?07@'Q&VJ:/:P7-U#>WB6T3R3Q)M6;<@;=CG:2#G!QUZ8Q10(U
MM9T:V\0:>]K=H9()"I90Q7)4AAT/J!QT-?.7[5/[).@VD-G\0M(O[K1O%W@K M5)]>TC4&D'EZ=]H54O(R!AFMY`"[1_-
F0\*V0E?2]>);\ MJQTYXGM\#:10*0]M+\&JS1EL@JV]5DCD7YD<`\_,`\%H`^9/VIOV:\_@WX<^(\GQ\%\ MU"UT2S)
<>++F"XL;NXO)HK=[I7C$,>Q',4SRW447[D(S,^XDXW-7@7_!67]G M;Q9\5?"?P2^-?P@%W>Z+X-
GDUG5VFEEM+K5]/>>TG%W*7*X3(9G7;NQ,Y51@ MM7T1XC_8;\(V^I:;X/\`'>D1^/=$\*&SU+P;%>1@2W-
W8V+1FT97D(N'.]KH MRLR%I9&')7FZ9#%=V\@EMDM\
MM;3!E@P?]9+L1F`0A2`=S\Y/^"EW[(_P,^#FK1:]\$[K28_B+>^/;&?PSIOA
MRZO+G;643VWPWDECU_P`^K07%M%+_I+Z>EZB`G:Q.R$/+\LR3>855G`' MJ7@S]MWP%^R9^T9\8[KX-Z?
JGC#X0Q:;/XFUG39-;GCMM&U^!U^TQVJR8V0R MM,%,B$I--<>6"4"B@?D+_P`%@?\`@F1K/C+X?
^&M>T6\M)OB1;V+OK']L^79 M6FH(^T*EOL>:\;_`."%7[2>A?L^_%?QCHWQ1T^73/&E
MQ#-811ZHL4"::C21I'/%^C)X;O]`LKB1;&PDD2:74GD1@"9Y!=*"Q`!:-5&TY%8/_``40 M_9P^&?BC_@G?
HUIKFCV6B6.M66E:,9X[HOKEMI\DT:V44<_ERR7,ZQJK-$X* MRF%RTBA%:@+]#>\)>*/A+\8!XMT!H=+U"#PEI-
[%KVOZIHZP0S3W20O`MN_E MB4F-CYK2(N4$<3Y^96.1+7,V%0/9ALD2!AN?M(_LR>//@+IGQ&^%GA_P`"Z]XK
MUVR\/+XTTOQ-INAI.`L"P\MQG;'&*S?V3_A.WPF M_9=TCXF^(O"B_"W6[O4/[>\-:EJ)F'AI5NTFL"D5NZ_%+X>_#
[]BN[^%3:9X5\.Z;X^@U7P^RVDE_%:2Z'J%[#=FXU%HD0RW M4C.'BD1R`%2$`@MN/F?
[87_!27X&_#+PYXC^%OA5+KXN6?CV]U<.EA/:VUOH MWVQWCEB2:6&
(R3/,]O,KM]HXA5S@8S\T_#G]BOQM^V9\5_&VHS0:/(NA0W4> MLZUJ6J)8ZAI-_;02P^4C/ODF:6:6#=*3MAC78263`]#^&?
\`P2#LM'GU'QE\ M1_&=]XXLM!TK[=XKT:PL?[/N+?2X[2*]MHEFD4$O),&C+QIL-NA56)XH"W'_`!?H.C3OJKZ!*?
LFEZ8RPSB)IXR5C`4Z;`I9 MY'8K+&`U>[N=<^"F@_"+X@W>EW7A#PE!<7 M$$+6@L61KRV5F53-(C2`&:,NTENS-
M8Y.'\1_P!M+2_'?C[P;\'/#SZ6_C&^ MTC5_$N^]AMM0'A[7;,RBREG"@K#]IF"RET8,#,A)&]0P)^1K_M<>#I?@Q^WO
M:Z7\+]2LO!_B[QK\.O$$!O+FQ-U=Z1-'=V#6^H)Y:-*MM+(TQ8DA2UNW96SR
MW_#4'P1_:$^'>K>%+*;PM;Z7X!T1=6\7>)9M.ED.EPWMW`UU?A"VZ";S+?>X M/S?OXFP0A#4_V1?
CMK_[./[37CWPO\89;?Q=\78]$DGT?R4F;3Y)1:P));17 M*X=,TMV
MM_">F06<50&WDQJL3JVK^&KU[=3/;Q^;B:UBBL75V@>)RKKM.Y5`^DO@C^V+X M;^)7_!0?
XD?"6_O_``CXB71-,MO$=M);::TL$NG^1&'AN)G5E%U;YMY`=WSQ MW&TC,0<^*?M(?`/X??LK?
L@^%_&MWIFFVP^&]Q93>%/%$&HWECJ6KK=W,TDE ME`D<3W%M#-<72(L)!4++*.(U&?L/]D;]EWX4V?
AZ^\8>'/#FD6GB#QM`D^M: MSI4MS;R:^K,98KF0EE8M*I5VSSEBIR!0!]#6D,4%NBP)&D04;1&`%QCC&.V,
M45'IFE6\BV8M[2&."\,SA$&\%!9BS"NQ)_&B@18JGXAFOK?0+Z33(8+G4DMY M&M(9Y#\%+*\%.Q68\E5+8!
(!P*N44`>'6O[.'B>#Q'<^*=5\2:1J7B2WLY+?3 M;Q=.^RMI\30,#$[!G\T"9C,'*@ABPP5("^!>&]1TKXQ?%U]0LKS3M4^)FCJW
MAF] \lor \land *-6NKJST: W*P7UQ? > W,\$,[SOM6*V,J \land > P\&\#N; R@X'' \land 9)'(KR7P\% \land S1XA \land '7AG4-;NW \land \%:CPAGA \land AGA-;NW \land AG
M\1+O[4]WJ\D:"VGR:J'PT<_$V.>RM;?0XX[:WT\SC:*>XU"V>-1Y$%HD$:B0#YYKJ.+YOG->7
M^{.}/B=X)_{89B}^{(4>H^{.}!+_{,4}V_{B}[Q99:5'J4=O\$))[]^{E}@B\$;;HT*V4\$4.\%^{M}>:W=B<9(]]_{9[^{A}QKX6TKQI::-B^{.})}
ITWC+P/K5UX?@MM(TJ9!8Z8NHW6FPQ0 M(!DQM'&))%4A0ZQNZX1,:'C+X5^"/C;X-\6^"+6YFUOPE)X6.E7TUL2UU:-*
MVZWBVQ@,;EG*RJI12!?5Y&!*2$PS*\/'&I_M5^;\=_C[-_P`( M?\./@#K\,$'ACPP\6I0ZAJ2Q1007K?
9QEAMN!"D<:D!=R@*H%:'CSX5_&C]D MKX7>'](^%WC6PO1X_EL_$TMA=3SZB=._LM8X;V&UEN&_>6G-
LZ13.C.QD4-C M"UQGPX^&OPV_9T_X)(^/_"_Q`AL_%)TGQ5#?W%M;;Q]CGGM&U%KB"2-8B6>[
MMX)'(5%`+*B*5V[D"C[(\0?M,\$=?_;N\1>&4U6/1?%7BGP4LVDS:A?FWBFC MBAEAMY1`RJJ7"SWT\11R6/F@!>&
['2+WQQ_M:GAG4[Z"+Q/;6NAV2^2DT5M`^UT@BD@3%N_)EC33W%TDJL[#ODL?- MO^"?W["NI^)?CMXO^$.K6-
IJVF^{-(A_6[W3-5EAM['42PNDB$0W''9]\&1'M^Z9\&+.SNI*@4''/;=0^-'P8TK_@J\#X\&\9>;H0?)
Q]H@\>OJW]GQ+%%IEQHL%L( M[Z0;WC?$=RZ1,JB1[Q,,QW5\E_LB_P#!23X;?LP>"?%&A^.O!7BCQE9ZO,\7
M]EW>IQZGI_C#3$U246UR$G4D>1&A5+?>(QFX#M=\-Z9/J9^W#SO[)LKE`CO,)=DOG36"S1Q(2L3]JD
M=BJSN]N9I(\%0/NEC4CJ\_H?C'\_@EOKO)`P2+\_`\&E\_AGXGTAIOB/HUYJ.FZ+J\&\ MC6033[G4+PR07(\land RI\&5:8A[02`OMQ,RIANG)]))
(@X97W\#GOVW?C\#X<\_:4T\_X:?\%'P3\#\ M=4\'T>@>(89])O8M\&\%E=:@D4\$5MINDPF, \\ \land 5.!+:\&?=RB"-\%51N8GZD \\ \land +OPZ \\ \land (BP)
M5>!OB;\&/B=X1\0>)M>'AWPK;Z]J^K^+O*@TLW^K76R$WENX5D+AKF/Y3LLY
M$A=PBAFH$>O1^!O%&G_M$:%X\^+EGIDNKV7B(P>'M/M(RS^#KG5X8X!JUQMD M<2P&
[M[:V6&1SY8P^2&4+RO[0>D6?[7?[&OCU/A_;:QXQM!XLT_1O&.G7FMR M:)'XCOK9K=+B[L[J/B&Z61HG+#?
%)':C.UOF'6^'XHOC!\']9U>7P_K6MII7 MBF#3OBKH$UT[1ZWJ45O:$W%H9FS]G:06[-"C".3RT"'`+MY-_P`$W?#?PR^) M'[6?
Q7\)?#^P\5O\(O!UW;:9'9:V6FT2_%PDEG=P69*[0L4CI(DFX2NL[&_#FEZC+J=K8P1`I#-)))(^T]0-TC8&M=%1 M0!X-H?
[#>B>"?@;!X5_M'60%DUC!(GVO6)81<:B[_>DG:)(Q)-AI/WC?,6E9 MF)8[J_.?_@G1\3?&'P/MOVA_A`/"NL>&?#VD^-
-1U2RUX/\`:+"*TF#1E?M$ M(\T*5D@EAN(EF8.FW;A/E_8C5].&K:=+;EWB\P8#KC*GJ",\=:Y73/@7X.\%
```

```
M_":Z\):7X6TBS\./8RVLFFV%E'#'/&RD.NU0`6;)Y/))SF@=SY"^WQX/[90 M[3^F>&OA#K-SH_@'X)ZE;:+XSO/L\AN[TQ)*;>P1V"E81Y3&9F+8D\H(/$=[!!]OBNM*MQ-+/#'`6VI+)8S MB+:BINGD>0L2FZO4OV$? V0/'7P1^('QA\0W-Z^F6_CSQ5<:OIOVN[BO)3;NT M[$21PJL:$RR`KDLR)E?#B%M-\$6-R4L;9OLAMI1),KE9"D,\:^265`YWAB>^@,EG=(1)/;"RF)QL MS)MY&"?3/^"A7[>WAGX>_$W3? @)>>"OB)IMJ^@WCW>D:#:OJ=_JL5\LFG^3I M\D'_@E)XM\9^)?C3JBZ7XM\9:>UII.D MQL]S!)Y"O<+9B:.,HC1@E#*"T;'? M(6)A0/H>.\-Z#:7 MVE>);72_&-AHFIW5WJL,5S!YUM+;;A?^>2J^;;Q&.-8XPZR8*JV4ZS]H+]E/ MX9_$#_@H_P"+? `@TB;3->UJ/3=2M)(-/C_M2_M+>&UNI+T7EXS&[,P2>T\BV M`:,1*0C9_X1B*32O![:K9K,^IP6 MD45O+J5I-(HDBN&BN;NWC9`R-MW?PG,O`$FI0>*[3 M4?"6J1ZN5AO/"&J6<5S;/IUO;^4<-=[I,1QX8R0H!NW<=!K-WH_[9WQ.^&WQM"M-+\->(?$^A6LVB^)/"%WKJWCZ3!]N"[+N.V<*]^C[8Y(9U:&+[1<$>84&^ MI_P2]O/BK^UQ8ZUJ'QJ^\%Y\-X_"NL(OAFSGGQ>-:26ZM.7.-QE%Q';.TK;9 M^X?*,YZO]BC_@E39_\`!.SXT:YJOA?5/$'B32?%UY'@ZA=12G35>Y>XN/,4 M1*\KL^&6>1W902F``&8$>+?L#_#+XB?#;]M/XT"^\%>)?!'@&PNK?4'M]2NC
```

M=#Q)>O>6CVABN'+L+>W\$5VD5O\$JQQ1L`?F?(\_16U^`7A#3;>]@L=!TS3+34Y MEN+VVL;:.VBO9E8,LL@0`LX\*@ABI; (L]QLW!`[@;FVJQ49/"@`5U5%`'C?Q-\_9'T'Q\_\`M.^" MOB(^E6(U3PR);\*]\

MZ9?/IL+Q6IDLGN&M8W1HW,4:\$%WV.X"]#O;UKV&B@#!U7X<:+X@\-7.F7VDZ

 $M9 < 6MZA6 > \&6W62.0F + ROF \&!N`C \land 3G \land 'CI7.?LS?`JQ_9W \land \$VF > \%K--Z:*LMI\# M?))'D*2``), 8]N@Z5Z\#10!S \land C_\#\#1-`NO6 > FV = OJ > H[VN;A8_AWTS.(PQ + 9Z \%88AC')`KH***`"BBB@`HHHH`****`/__9`end$ 

```
begin 644 g72125html_page2.jpg M_]C_X``02D9)1@`!`0$!+`$L``#_X@Q824-#7U!23T9)3$4``0$```Q(3&EN
M;P(0``!M;G1R4D="(%A96B`'S@`"``D`!@`Q``!A8W-P35-&5`````!)14,@ M0``9&5S8P```````2D!
M \otimes Z^{-}(4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (4) + (
#`T\#6@-F`W(#?@.*`Y8#H@.N`[H# MQP/3`^`#[`/Y!`8$$P0@!"T$.P1(!%4$8P1Q!'X$C`2:!*@$M@3$!-,$X03P
M!/X%#044%]@8&!A8&)P8W!D@& M609J!GL&C`:=!J\&P`;1!N,&]0<'!QD'*P<]!T\'80=T!X8'F0>L![\'T@?E M!_@("P@?"#
((1@A:"&X(@@B6"*H(O@C2".<(\land PD0"24).@E/"60)>0F/":0)
MN@G/">4)\PH1"B<*/0I4"FH*@0J8"JX*Q0K<"O,+"PLB"SD+40MI"X`+F`NP M"\@+X0OY#!(,*@Q##%P,=0R.#*<,P`S9#/,-
#0TF#4`-6@UT#8X-J0W##=X- M^`X3#BX.20YD#G\.FPZV#M(.[@\)#R4/00]>#WH/E@^S#\\/[!`)$"800Q!A M$'X0FQ"Y$-
<0]1$3$3$13Q%M$8P1JA')$>@2!Q(F$D429!*$$J,2PQ+C$P,3 M(Q-#$V,3@Q.D$\43Y10&%"<4211J%
(L4K13.%/`5$A4T%585>!6;%;T5X!8# M%B86219L%H\6LA;6%OH7'1=!%V47B1>N%](7]Q@;&$`891B*&*\8U1CZ&2`9
M11EK&9$9MQG=&@0:*AI1&G<:GAK%&NP;%!L[&V,;BANR&]H<`APJ'%(<>QRC
M',P<]1T>'4<=:AZ4'KX>Z1\3'SX?:1^4'[\?ZB`5($$@ M;""8(,0@\"$<(4@A=2&A(B>K)]PH#2@_*'$H
MHBC4*08I."EK*9TIT"H"*C4J:"J;*L\K`BLV*VDKG2O1+`4L.2QN+*(LURT,
M+4$M=BVK+>$N%BY,+H(NMR[N+R0O6B^1+\<-]1B)&9T:K1O!'-4=[1\!( M!4A+2)%(UTD=26-)J4GP2C=*?
4K$2PQ+4TN:2^),*DQR3+I-`DU*39--W$XE M3FY.MT\`3TE/DT_=4"=0<5"[40914%&;4>92,5)\4L=3$U-?4ZI3]E1"5(]4
MVU4H5755PE8/5EQ6J5;W5T17DE?@6"]8?5C+61I9:5FX6@=:5EJF6O5;15N5 M6^5<-5R&7-9=)UUX7&EYL7KU?#U]A7[-
@!6!78*I@_&%/8:)A]6))8IQB M\&-#8Y=CZV1`9)1DZ64]99)EYV8]9I)FZ&<]9Y-GZ6@_:)9H[&E#:9II\6I(
M:I]J]VM/:Z=K_VQ7;*]M"&U@;;EN$FYK;L1O'F]X;]%P*W"&<.!Q.G&5&YXS'DJ>8EYYWI& M>J5[!'MC>\)\
(7R!?.%]07VA?@%^8G["?R-_A'_E@$>`J($*@6N!S8(P@I*" M](-7@[J$'82`A..%1X6KA@Z&I+CDTV3MI0@E(J4 M])5?
EAMJ(FHI:C!J-VH^:D5J3'I3BEJ:8:IHNF_:=NI^"H M4JC$J3>IJ:H_ MR#W(O,DZR;G*.,JWRS;+MLPUS+7-
-:6YQ\_GJ>@RZ+SI1NG0ZEOJ\ MY>MPZ\_OLANT1[9SN*.ZT[T\#OS/!8\.7Q7J\#A(6\&AXB)BI*3E)66EYB9FJ*CI*6FIZBIJK*SLOGANT1[9SN*.ZT[T\#OS/!8].
MM+6VM[BYNL+#Q,7&Q\C)RM+3U-76U]C9VN'BX^3EYN?HZ>KQ\O/T]?;W^/GZ
\label{eq:mbar} $M_0'P$``P$!`0$!`0`!`0`````$"'P0%!@<("0H+_\0`M1$``@$"!`0#
M!`<\%!`0``0)W``\$"`Q\$\$!2\$Q!A)!40=A<1,B,H\$(\%\$*1H;'!"2,S4O`58G+1 M"A8D-.\$E\\1<8\&1HF)R@I*C4V-1.5
S@Y.D-$149'2$E*4U155E=865IC9&5F9VAI M:G-T=79W>'EZ@H.$A8:'B(F*DI.4E9:7F)F:HJ.DI::GJ*FJLK.TM;:WN+FZ
MPL/$Q<;'R,G*TM/4U=;7V-G:XN/DY>;GZ.GJ\O/T]?;W^/GZ_]H`#`,!``(1
M`Q\$'/P\#]_****`"BB@G`R>`*`"BJVIWAMM(N+B)HB8X6D1F/R'''D@D^E?)W[\ M'?\\`P5W^!?
[3OC'QCX135;;_`(27P5+)',4!CBU$(N6,(?#$`@KD@#@>M%@/ MK'3]8M=6,PMIXIC;N8Y`C9V,.QKEK?X[^&[GXUW?
@!=1M_\`A);&QBU"6T+@ M2"*0D*P!Z@[3R.X-?C3^Q_\`\%#_`(]_`C_@J3XN\-^)/#'BS6_!GB^5[NTT M6W03RZ3;RRHMO?
A';(A/F*K`,OWLCI7%_%K2/VA?%'_!=:[^(GA;[1+IVG:S M9V5U?!B-,@TIV>.92'*,T"^5.-Z@J)(SM8G!+L!^T?QT_;(\%?
`+XL^!?!6N M:Q:VWB'Q[=R6^G6;$&254C9R>HQR`HSU+`#FK_[47[4_A3]D[X2R>+O%.HV] MGI[2Q6UNTC86:65@J+GT)
(YK\*OVR/A?\3/VZ?C9JGQBO/$>A>'O'OA!;%?`MGA>+4XIK[Q!"T\3VU\KY6,Q.LC+NC``>$!P#N->2_M0?
M=>*_P#@J7^U'X)^ M$'B;Q_I&AZ-9S"TM-1TZ&XELGU"6)'$'E;C]RXW1AQD=P2JK@L.Q_39:Z[;2
MZ"FHR7%LML81*\PD'E*,9)W=,>]5_!7C73/B)X9M=9T>ZBOM,O06@N(F#1S* M&*
[E(R",@\U^!'Q5_P""D'[2VO\`[#^D_"VT^'6K:3%I]TWAG5O$-S>(;#4_ MLK-:RQ12.%:-7:/`8-]X-@\XKZ-
 _90_X+L_"S]C7_@G]X9T+7-,N-"\7:-`F MEMH$$LEU)8W(5M[R+,_FK&&VG))R&R,]*+"/U_HKYO\`^"8GQ]\0?M!_LKV/
MC;QEXAT#6M5\03S:B+C2)3_9L%H[GR$CWA67:@`;<`=X8]*]P^'_`,5/#OQ5
MM+FZ\-:SINO65I*8'NM/NH[F#S!PR!T)&Y2"".H-(#H****`"BBB@`HHHH`1
MW$:%CP%&37+:1\6_"_C@7%CIFNZ7>7QM_,:T6X43HK+D%D)W`'/<5Y\?\`
M@J%\$_V7/'NG^%_B'XRM?"NN:J\@M;6\B?=*B.R>:=H.V,LIPS8!Q7Y=_%G6 MO@[H_P"V;\2?BS#XLO?%NG>,;&4IJNB-
MR:/JB\&2*V`N45`;\&8[E:\%X9>\#@@UG:WX"[U[10\&&A?!SXE^!Y]\%\ M97.NZ?/\#=7\\>`\_9-9L62,MY=R')WPK+`J[Q]TQMN.
LOG1#SXUEC=ED5U/&6Q\5?!/PI\$OB;\RU'+\1/B)XCT?Q=HGB"?S--3YQ M#ILEM+(&M(R=LCO=!#)G:?G)YY-._8-
^*6BZOX,\4_!V;P1X=\1:AX[U.RU+ M3-:U.>*P6S^P^9,]O<2NZC[/(@P0K*P)8@L<"EHH<1PO<-\D."0V6X.,9K!_
M9[_:,D_9HTSXB^'-7\":1XL\,_$&**VO+*5V7R&M+I;B,QRJ"YB!4;ER`R$9 M(P#72_L/^-?".B?
M(>+_{1}9XZ^{5}XD\&ZEIE[*;0[<2+X;>X))JXA5R3LB M+8'#'X!-(>R/NC]@CQ?
\,O'O[3WACP3%XF^(&G:EXKO'OM3BU35XI=(_M&> M(R/<6CJ[VTFVZ=FA4*6W'!Y%=5\?_P!@'X7?
M>^,_'OBZ%;32=2GTWRCXBU. M[-P+;4D=PKS1HV)!':6LKRE@_L+2-8XHBQ4B6>YC)`^^K2C(SQ7=:W^TL?
A1^UOXDM]2O9/B#IW MBCPNFE>*=>T#3(X=1@:>.-I7*`F%Y89-J2-\OFX(9ADT[]R;=CVWP/X[\=_L M;?LY?#F31K?
*N8M6:+<\,L?"1R/@#.0 MK,>.37P/H_QI\-?$+X)2_$"S^*?B.\\32V&KZ?K,*K#::=J5GI]@XAM?L3G_
M77ARR<6ZV$]S;L0G^M3:L2L7:.=SPRBAB]3]Z_V.OVK)/VN_!FJ^($\'^(O! MMEIU_)I:VNN1"&]:>
(D2Y0$C8/EVL#SD^E>OU^6_P\_X+=>)-'U+3O@^/AR_ MAKXMZIX?2^\+6/B.^4:=K5PQVI:+,M7MEN=0T:W?
S(]*8C'D[^K'C<<]"Q7^')30'HE%%%(`KS/M]J']K7P;^QY\-M1\7^.KJ]TWP[I,*SW-Y':O,JAGV!5"@EGW%?E'.#FO1[Z^
'9MQQL`4*S$DD#`;L*:`^?/V\OB=^S%^WK)X!^*][::=J^C:[9ZIIV MCZKXBM;BTL;>XAB4-
=W^{**}/.>WC.\$51M3S>I'S\$_)G@[X\#V?[+O[:'P^\4>\#_M``M>V_P?U[2D\.ZWJFE7L3:)XX_T7[1/<2)'']-^)WB+P3HWA2PFU[2;?MINNER]+MARCENTER + MARCENTER + 
6- M7DN)O%USYZBX#\8VWRH;3*QQ*I\((= M!U+Q\)%
(DG2[,RS7\R;X$N+=0"R\&2)B".F\&YZ9KK/C+\$_"O[=O[04'AW]EOP]
M)K]^{\ VCZ+=WNI"Z"PS:AY4\\ T@EV'Y5;RFB0^{\ UEJFH}_*RG3RM+?@+XMDT;QEX:U;P]JRAF>UOX"CLHX)\&?
^"@4W@KXD?"V]^(OQ(N(_#MI=76C:KHZ6UQI5G/L1+R)U.)8[BZ M+J.);*:VTO6%L;G1$:X/V:*\4G. M?/\`-
RFW)&/6A+4'*Z-#]A[X%:'X*_X+;^,O"L-CI&E>%/#LOB11H]PQN$O- M,6SN!]DB#9+DPG().=H)SQ7G/_!4M[?X8ZQ\`=(\+:?
I_A6'1/ASI^K)'8R@ M7\-W:[C0#?$26+6>IPR06<4%L;AM_E+%;JLK%A]XMDBBP:WNSUSX=&P_X*:_\`
M!)_Q+K7B^TMKKQI\/9;N]%RMH+<75Q:0K,)_,4<27$(:.8TC_A&+SPYH&E1Q63:'>I/OE**
MHCE)/WHXE1`>X!I]"508\\_9B\&7QT_;R\-GC+XZ_#[20!AN;?5;6QU?P].\ M=MIVH+<10&T#Q-\K1>6,,[8/[T$$,,CWOX;?
```

```
M!?"[1OAO#K^A>%?#T"?#^PN M]0?4M1+WVJ>#=8#F.*QNED7$\+22>7!.S`+&I&`RJ1^?/AWPE\8O@/X2\2:M
MHUOXS\-:1<6R6.MSVB2P(UN['8)BO_+-F!VO]W/>OJSX0_`WP3^RS^RCH?QR ML/C+X4\1W7B/1(H?
$W@2^0RS:U%*M,U/3]/TG3+/46;38DA8&"W-RH\J`;B!AF+;V) M.2V3^N7[*7_!57]H/]L7PWH3?#_P]X'=4W3W.FP.Y2*_6=
M`N8U*.L@"<,,YP:\9=6\"-[8\$M9\9?#G7_A?H7AW7;\*UT&]34ETKP]8P.J
MW2:Q/\#)N']HQI,L''0QYP\backslash)9APM<1\backslash''\_CIX=\_X)/\_`!ZC\wedge(?PO\backslash8WOB3X;\wedge.?
M%Y\'^)I=9C)NU\H12F]MW;#2Q2.+DF0@C"`=Z9)_0UI$-S;Z7;I>3)<7:Q@3 M2HFQ7?')`[#/058KY4_82^+7[0?Q/^-
'C^#XDV'A-/AWH4R6WAS6+"%XI_$* ML/,6Y1%+%-9L)[-W> M>/3=1A;Y6,3+
(R.KJR'>>>130'HV=YKZK&H)GO8;BVN%PN_P`RVCA$8R>01VR#D?LK?\%<6^`' MPI\'>!O%/A32?
&_@SPWK#32:0;6*"UFLB_FL-F"))FGV.&?.WR$QU-?/W[7O MQXT']H3XAZ?
JOA[PE8>$H+'38[">*V0+]OD1WQ.ZC[KF,QH1W\O/>ALN,==3 M[%_8B_:"\,?`K_@F8FH:+H=AXJUY?
&LL/CO2H+]+36+K3?LY:Q:,DAGA6<$E M5!PV">U<%^R-\`OB?XV^-/C7XGWNH^,?!?
C&T@NM:TK7(&BGMY+B-!)8O`/Q0\/:[+IL&LP:1?07D]A<*&BO8UD!,14_>#
M`8_&OT5\"_M2^&=13QIK>"OA^\`:9[E_"&OWS+,9I@9)K!#&I\BS;:B MEWS(ZGRT`4G`M=Q25MC<^,WQ-
U'P)\*_$_Q`^%'B'5](^&7CRUSINA:D6TS3 MTNTD24W=K`/G9#,))50LD*DG`!?%/C?5G\2:U::C._B:ZW#6[NTD
M2TU"5GVO*+@J$($R3["TK]@;7]CJ;]H$XO?![QCX_P#$OAR$N-4-OK.E>`;K M3$?>'I;1[?"1W`0A-R@Q,!N50J[5&5R?
D'_@K!XYD^%6N>.?".@_$^W\3:+X MEU9(AHD5X730HUQ--;Q1X(6+SR%^8AAY*CGDTVA1>MCRCQ7_`,$F_B/X`MKO
M4=9O_!]AX3M+[['+XA.L+)9C_2ULRPV99LR,IP!G;@GJ*]-\:?\`!#GQS\)A
MXENK'XB:4E_X9E#.\,%Q:/)9&*YD>57SDOY=ODQJ3P^"1W\6UWXO_&OPQ\S#
MX+AFTZ;0_A_X;GF70+YK1;5M0N)YUN&N"&(:Y.Z%`'(95\L#.:SK[_@HY\=9 M--US3=2\;:Q?
6^NWXU.\CNXUDDBF#.S>62,Q(WF.&08!5L$8Q0K%>\SMO`/P MO^.O[.=CX;TGP'<)KTG[0?A^#4;>*W@-Y-/;B9E,;)
("8V61!NZS1N59,C@88,....*^\OAY_P4(\93RZ3 MXX\5_!;6S91:%9Z!H>HZ3;R:?I-I:1*UJK>:8RPA=I!O17$;,H.,U'XT_P"# M??
M`C5RJJ6ZC/'->0^$?B5XW_9>^(^L+X6\3:MX7UZT6YTB[N](O&A:6(/MDCW# MDH60'GK@5Q5Q<-
=33S7/FW$DS[I'8[RY)R22&_G-K;2V]['!)J,<=S'PES;R0[1(,[HI9`''' M*XCXM?MK>#?&O[&>I>$/$/P\M_#VG6FC2Z?
X*M]"T2:>R>=9DD^T-?7#%Y0M MS&`SC`=785\\?M(_L^_#_P"`FA>!_$7@KXAV^M1:CH6EZE?06]QNNI+J9G:\
MML1_+'Y"\6A1R,YS@Y->S_M,\+E\;_MZ:\\3_"OBJTG\$5I:Z;JR\7]L&T'3
MU@B2ZLY+56\63Y'W1HIW\%\,FJN18_0;]B[_@LQ\8=;_9#\!#\$OACI?CJ\\0
M:S/X%U"RM6EA;3);8(8I\C*K$8"3@\`IUK]7NBVLVH6J65[)&&F@23 MS!$V.5W=\>M?
@Y_P0Y_X*6^'OV4/A+^T_>VWAI=0\'>!]1_X3&R@LP8YGL)[ MMK<)&K9"E$9",]N#7[.?
L9_M9:%^VW^SWH7Q\\.:;KNDZ3KZ,\%OJ]H;>X`# M$9QDAE.,A@<$4A-69\^_\%DO^":>N_M[_`K4%\-
_$#7?''NMZ1$;FVL8[LP:9 MJ(5?FCNMN&*X&0<_*>U?BI_P4''^$NN:EXE^&'AOP5)HFC:5X$\.6&@:_!;;I
M":>'=4+,TYN)F8&5"[,WG-P!)M![5^U?_!6/]ES]HK]IO1-)T#X5_$BV\&^ M#-3O$MO$B6\074%M'&'>-LM:M?
6*VFC>)I].O+7_A&M1$AD>6YM,%[A751&"F\?O-P!Z@!$EY^T1\&O!G M[0OQMO-
2\":7X@L/%UBUKX=N((UDMM!U`2H7FACX3R&*N5QDA=H[FOFKXD:C MI/B7XE:W>>'=+?
1M&OKZ:;3M.,AF:S@9B8XMV/F(!`SWQ7U[\/O#G[-GP,\: M^.=/\(/AW6KA]:\\$:+K'A)S)
(T\%K=7"6\V]`I8;@Y*D\!`ZXR17H\`P1S_
M`&8/AK\:OC%\8/&EYI6IZAX)T23^R/#MK.`UQ"MV9G\PGH)4M89:Q<1RV'A:QM6N+BUTTHQ:]NF4'R,L`$0
M_,P.X@#&>$^)/P_E\`)HL5UJ\5Y<:K8+?W=FKOYNGLS$".8'`WX`;'4`BOU7 M_8L\)^%/"OPN\'?
%WP!IDOAI/'6@WDNMV37,MS%_:FCZG'=".-I"S%I;+<&! M."%/`YKXW_:*_8+\:>+_`(A?
%KXAW4FA>&/!NB>)ETVUOM0=L:@\TK1PI`B* M69A$@D?Y<*#FBPE+74S?#W[97Q-TC]EWP19:)\9;
<7>@75U8V^A;3!>Z#:QA M3%(TS`)*I.3&,LT9SC%97[-/C7PIX8U/7/$,'PVN_BQX\L+4ZDEQJMR]]8Z: MX8-->3VJHOF*&?
[TCE58C(/6O3X@?'?39K7Q!IVK:9;N_C>1"FHP><2'81N MFZ(.I#.JH!P2*]?\9_M+^#?V!?
AW\28+BQCCLOAM]CCTBWF@\S'4[R%?/M!\% M.1A]\\4T"\>7&QV\0R.3\@YKX\-\._P\#P7.UGQ\\6X]\>\"OA6;1M=U\>U:SU:
[UJ!; MNXU".-UFLE$:':'LV\U8Y?O,A7=G&*;LB5=['Z9_"7XL:+\3(?ASKE[-IVGK MX]T>T:
[\-.0FBV]A*K+';V\1&WRDD1@RXRK%22#@UWNK>(K64>/YOMUDNM:? M8/HJ1PKMEMW6=[RWB5!D_O!$-@ZL!
[BOYX/&G[5?QKT_0=6\(ZKXI\2:3I?B M"]GU.]T@3?9XGFN"SRLJ#B-'+$E5POM75_";]OK]H#P=X2U/4=(\7ZI<:=!;
MVMO-/5XDT_3M!\*WEY!HR:SJ4\^`:FOQPW26R!+>-0P8DS'<0%80.1Q78>&O M^"W7B#XE?M:_#[Q[\6/#&AZ]I_A?
6;+5;H6-HJ78E@M?LS2P,WW6DPLCIG:7 MC4C;S7@'[>?[3=I\UK\>7\66::H+\%-'L-.B34&7S?,@@2.5PJLP422!WQG)+
MDGDFDVBHIFUX>_8F\,:E^RKHWQ$'Q,T2/4K]-0EN]$;9YMG/;;3#:[=^YI+E M6)4D+C81@]1Z+^WA\+?'''PH^,U[X?
T+X:36UAKR>'[234+6-DBLYOL=E/-#: M[?E-Q.796+9'S\?$@>)M!;10&IN+MX9;D1RZ]_\%B=4\2VWQ`\9GPOI$:>"+233]
(U'Q'%J<4USK7V M-ECLI)8UYBD62%AE0&;:I)QQ1T"^IZ%_P34^'_@+]E']M?QEHOBW0O%<'@S6 M_AJ?
$>N^&M82.5X[>*XWRVURA4;_`"PJ.`,$D'KG%?OA\`?BUX0^-GP=\.^) M_`EW9W?A+6;&.XTJ2VC\J(P$?
*%3`V@#C;@8Z8K^7%ZT\D%C=>0H>2@
M^&/AA:V5IX*L8=VG+:73743JYW%Q(S,6+$Y)SWH9+/%/^"LOQM^./PC_`&9M M=NO@CX'N/$_B*,1`-
'&T[^26(F9(T(/RKSU!.>.E?@IXF_:0^/GPY_:)L/B# M\2_!?AVTU[Q-
X5_L[33K,26,&G1R(5@U$JY;;/&T60\@.2A!K^FWXR_%>W^$ M7@^34'M;F_O)CY-E:0QLQN9R/D0L!A%+8!8\#-?@]\;_`([:-
 ^{V7\,''}Q9^{M+'A+X}CQ_{P'''}$EUX;N-)\\0W4MA=Z1H^{'87},$>0UQ+&SX4(''&V^*,YR::$CQ7~MX[?!KX;ZC^{T-1}]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(''',YR::$CQ7~MX[?!KX;ZC^{T-1}]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(''',YR::$CQ7~MX[]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(''',YR::$CQ7~MX[]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(''',YR::$CQ7~MX[]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(''',YR::$CQ7~MX[]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(''',YR::$CQ7~MX[]) \\0W4MA=Z1H^{'87},$>0UQ+&SX4(
X%\2_%3XD:9XI^%M_I"^&'U[PY"S%=0M]*AEC>5U7!C6:XC! M=!A@C<`#CL/V`?VF?!/PKT#QAX>^$XU35=:TO^Q?
&MGHNHX5_$=U;6[Q:Q86 MY&,AXYI6C7!.$.,\5\\`WPCXU_;4_X)V17WA;PY9C0M&U.SM=,FU6QCT;4=
MOCL[.]N;A[:$<3*WF2`$+5\'_A[\+HM)\(M6.F>(-6UJX/B34PU[\%UCXK>'[&VUK2QJL:Z?:7;QVD=N]M!)+@)=20J[A9<,
< @'[V*\wedge'OA3\wedge`M;?Q+\wedge P;XG_:`\TWME<>-M1-U!I=\46W73(X\&B22\wedge F*@\wedge?*M\R_;]_X)]W/[*\wedge'A74[+4KW6TU_1[+4-W6TU_1]+4-W6TU_1]+AW6TU_1]
9ENXV0PW%W#]HB9-Y+NDD>2W_!-;X+?#3]F.W^)GPO\`%=_J2?VM
M;Z`V)//T^ZN62:65XG8!F$:BW5NP:4YY!%&M@2BG9GDG[6W_``4_U#]K[]DS
MP;X"\2>$K9O%_A:6WGG\2H55[M(DF128P,9>*2!6)ZBW7VQXC\$?VD->_9[L M_$$?AR'2TE\2:?
\`V=/J$]J&N[9"=Q$$N0T);&"R88KD9P:](\!?L%6GQSUG M5]&^'OQ*\-^(?$EI<:;8Z?IUR'L'UF:YBD:=8F?('DF/:
<]=XKT[]F__`()= M6GB.\\;^'O&=ZDGQ''\#Z=IWB?^P-.O4`GTMVMI;@/(Z[!(T$ZE03@$-DU.MR MKQ2L?.OP;T'QU\8-
3EM-!.E062H4N[W4HH(-.M@PP1+<2+B/=C`!;<3TY.:J M_%?2?$OP%\5:AX330L\/[&4/[:7QXN='U;4Y]"\,Z'I-
WKFJW5NADN98H(PP@M MQC#3.[(H'7#$U!^U=^QGKW[-_P`9O%NEZ1'J7B#PQX%/%/[`?
```

```
[+O@/0_@KJ%Y9:/X=\2Z@]YXNT?YK[7 MI#!;2FZG9-RQHH*J(P<)Y>#\P-?$[3/"&@KXO
MN[C65^PO;V5O#$LUO$!@RR[VD(#[@D42A<;VHL+FZE?]E_\`8+\>?LD_MQ:1 MJ7BV/0];\+?"G5+?Q)KEK#?
H]J8H['^T`_E.<,IC`7.#N8;1DD54\.6^C:5^ MT2/&VKW5UX3T7XDW^H^(]/UGQ3X1AO-&U42F8R6OE#=*K^9O$0`5TPK-
@FM' M]G[0/&OP!_8^^,>M^,B+K4/$,=MX5TW4;R[_`+1M[;3;62)KR:*-6W31I_HT M0$?9SR`IJ_\`#SXNZG\*_P!E/Q!X@O-
5\-^./"-[>W>J^'M5.IR(-*U2!PT= MG'ILV9+57,Q7>&.4R.<9IB9ZM P1R 8ZT#]M@?M'V-KX@NM"\(^/#:>#;6]N
M@TEWL#K.^#(2WF21Q<*QZY]*_:G]@;]ACPS_`,$]OV?[+X>^%-6\0ZQI=K*T M_GZO=^?)N;DA!@!$]%'2ORE_8@_X)6?
&3X[?\$S/@YIGP\\9Z?\`#>\N_$,_ MQ`U?7IYGDN+B4_N[*,1)\Q95#MN8[3N(]:_:CX7:-KGAWX=:+8>)M5@US7[2
MSCBO]0AM_L\=Y,%`:18\G:"><4FQ,W9(UF0JZJRGJ",@U^3?_!=?]H;P'<_%
M_P"'GPUU'PWIMOHWC#4YM'U'QA#;QPW&AZE@?9&,NW=MCF:*5E;Y7C+=17ZR MUY?^T5\'?AA8?#[Q-XG\=^&?
#%_IMO9&?4I]1L4E5TC7Y2Y*GH`!GJ!["A"/ MQ(^*/Q5\#_LQ?$W4?
&_C>\\6^*O&G@*%/#EY#XK<&WU/6`S1B72EC8""&"-' M?MG^*M9^)?@KQGX0^%GBF"ZN?#GVBTF@33+J8,;
M69P5`DM]Z.,`O$_P^\&:;9V^LOX;BUKQ M!J/B"]N)39:!:R^?9WLBN'>.ZG#1A+>-5S7V9
MX8\+^+/VO\`@G_'=SQMJ>H_&+5(]0T?2=*1)#H']GM':V\GZ=YF?+GE?]Y* M6)6.,'C!\%?/?AGX\Q_L1_L(_\*_\:?!G3=?
U+Q>;[4M)\23`+Y8N[1K8VMS$ MZ"1'B&9%5ST(*]0U>76?@[]HG]DW]E%[BXM9;;X7>.].BUE8)YTN4MDDF\F*
M_B`;?:RF0;`Z88]^*+E6.E_;8_X)D'X:_M++\OA['K7C#5-4Q'9337%E'%J M5_'$&O;6)0R[C#+N0,/E<@@9-?,][XS\6:+X$-
`U(,EIK, MH22.-&N`"(Q$[K(0P&_!^<&O9?C7XC?XC?LXZ1`OBK0_&FGZG=W5]<:7+H]I M:747B$+&Y@:YC/FF(Q7$NU6?
$DEMP6Z4K#O;1GQ1\*_C-X@^"7CNP\5>#-5G MT#Q)I<;4CXCUF2_GM_LTUS] MND6:6'DF-V!&4_V2>PXZ5]
<_'+]F_P""WB_XN_&*'X?:!X4U73/#7AQ-0A^S M:^UO)I\D=M:O?7%M;CY;A8G-PVP'&`_'RBO/U\)>&M-_9;\&^,\\2Z%8Z[-J
MFL>#9Y]0L6OOMEDD4P1'_4F-G=#(/F4S1GG%%AW1Y;X._9\U/Q;\,CXN MGN;G4UN+\V<6E:5;R7^HW+AU#O-
L!$$;%MJR/G>Y``K]3?V:;#X+?L47^OZ[ MH5QK-IK=SH967P9%#+#XET#3X&AFG>ZAD`^TW<,P2="WRO'N0=#7SE\` P!L
M3X-_LE^-O#_BK1_'/BG5DCT&;1]:T""R$\33V)=V>A>.?^"GT.A_"GXA_#'P!IVC6N@^,M?NM1CU"V2X,"F["QRW'
MDR$BW#*SYA08#.3DX6N1\1?\$S=7\,_M06'PX\!?$?2-=O\`59+:REU*TNC" M%LYK%+JZO&VD#['$C.K$MR48$9XKC]`\'?
`7Q5\R7X6@L=0\0Q?&6XFOX-2L MTR$>=YHDT_#'$2V\SS-YSN#$=>WVKX-_8"C_`&4_A=%97_AB_NSX=FFE\5>*
MG9`+W51%B/2$8DR1Z3Y4X62YV!6>52=JX8%KAML?-]IXT\._%WX->%;3Q=X4 M\:^+?"WP,N;K0I=3\)2-:6>L:+),[M,PR?
L]R&;S-S`B1,!ONYKGOA)^QYHG M[7W[7GAGX1?#:'4=1CO=5^V7NHW;KML-&"1R#<(CL,BQ,V]QSO``[T[Q9^VG
M;W7PMU3PQXY\)ZGJ.KZ5K"?\(K>6\]S'&)+!7<3Z=>3P@?;4PT81LG&W'>ON'
M_@GG_P`\$YOCE \land SQ \land Q\#XHUSX = \land \%/MWQ9 \land) FR. \land G-Y! `\_A > R0). MGAV4K7PS9:9 \land) KFSM = +T\#3Y]; 1IM/@M\%\$ = +T\#3Y = +T\%3Y = +T\#3Y = +T\#3Y = +T\%3Y = +
M,3>2J$*QC!+$-\Q;)K[)KSO]E;Q%X]\2_`GPY-\3M$@T+QT+&)=8M[>5)8#/
MMPS(RDCDC)`P`3@<5Z)4LD*S/%_@S2?'^@W&EZWIUIJNFW<;Q36UU$)(ID=&
M1U93P049E(/4,:TZ*`/AK_@K[IOAS]E_]A"[L_`FD:#X,UVZ,.E>'K^TL5MD MTN8+MA`F1?W'145C\O."0I)'Y]^!?VYM5\$?
L4Z-XY\9^!;R'7/",;>`/%>G MW9>TNKRUFBCB_M%;EHB2SD0*5WY3[.FW@D']U_$7@[2?%\<2:MIEAJ:0.)(U
MNK=9E1AT8!@0"/6OSL X.#/@#XM :J^%WA[X<>!/#7C34[VYF\Z1O#\`>U1V M.Z(7J\#[/NA))SE6V,`<5286/B XL^`I/VK?
V0;?6-;%MK$_C7Q!IS^#+K5( MI?.N["W065Q-)'&"?](N)I8K;:@D0/N8@*37QK^W'\)_BU\(KG5OA9-XLUCQ
M1X3^'CG1FM+59&L;&U28S0KYY4++`LC'#'&)`W`-?'3K*\TK[+.\UHRR2-`T??LRR^- MOC_X'\>ZU?
KH^K^(OVH);+1]*LKN]=]$L-(@G,L\%U/%_J;DL@58\!F+LP'. M*;U&M-3X3^-
'B7X36OAOPA<>`+/7=,\2:=H&G&^G,FT1:O&SFYE8D'>K?N]I M7:`5/'>M+XY_L\^-
[GX;>'/B3JFJ>\%]0LO\%WA \land 3Q*)]/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[86F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[86F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'A\#M="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`\wedge M^-])/D2WE017BVKQ2+'AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[80F\_"GQ3X!M\_`AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[6F_"GQ3X!M\_"AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[6F_"GQ3X!M\_"AWM="1U;;RP7DXP:^KO\%/[+OPO^(G[6F_"
K2]T318=#U\36&EZ MK:1/"<.TB;V$\\>`F0H#@]>GSQ^T9^SM\)?A1\/O#JZ%X[\73W`ANK?Q)%J
M6FO;"PU6(.!:6L#X,RB10LDJ_(FX'))Q4V*31Y-#\SE\0O"WPH\/_$5=\N(\/ M#WC)-2M=.08KM5DNH[9\`+P$\`Y"A7((;
[PW < 5E:1 \ "?\$\&K_`N[\land (42VS > \& = /MU > +0R[W:\&2.ZEC > 508L[E4I\&WS8P2N*\land F+7\_`()R\land +\_CY \setminus +\_`(1CX = \land *)[GP]]] = (AB) + (AB)
M#XGT4:BLGB"\-O::5K$M[!I]W`B`1--"'DBBW-M:2*6-'QD[E/`:E8?,(=1^(/B?4='\26>J6<>F6,*XAN;%EU>^>G>NH
M_{98^{\circ}}7Q6^{\circ}_{LT^{\circ}}[3PA!I1^{\circ}\&F>(K'4M0U74HXHA9ZFZ26UHVYCD\$QN[\%1D+M@\$XK3\_94\_8-M_98^{\circ})]
TKXN^&-6NM=U+7H=1TG0Y_$LN@V6F#[9J6G12(3]FE,OA%H'["?Q=TKP!X=N?#*>![O2O$EG%KUC;ZA>33-*8A:
MW=N[-'<2'S)9(T.2(B,X(%-)B;U/"_@-X2TCP?\`"_Q/IVA^%)=>\.:5IEE; M_$_3;C4(]+\1S7DKHSW9D>,[=-CE.T>4X[._%+?%
M.@^{+}H-.\\+G^{S}M)\&L/-INHP7\%L-\\\\\\L(,[YEV,T@8;2;?TVTV7]H:Q^{\&}7QI\\\\\\2ZM=\\\\\\\\*)=4^{+}OB\#Q'X4?P9:6LND,]T1>)\&;V-O*(A)
(#01MYD4(4DJIQN"JM?1G_!,+ M_@G#X,\:?M(>#KGXW:WH'BGQS?9BT/P-I%Q#
MFW5MJ$4\D$K(%D9E4#"2!4VCJ@15Z#-9G[+W_!+;XA_LN?MT77Q7G^*,_C[2
M]9L&TR_M;^`V]V4=E(88)CV18(1%P%7A5!R3]U4F(****0!1110`4@4!B<#) MZGUI:*`/CC_@I5_P2X_X>0?$?
P:FJZQ'HWA3PV2VII(GVI]5C8\P1QG`BX', MH8-R`,C-?FQ_P7)_8)'[)'C[X<67P(TO6-$>[:WM[:STR*2:76+R#+P(8XQM
M=EQNWR*0&ZFOWNK%U7X=:)KGC+3O$%[IEG=:QI$;Q65U+$KR6@?[VPD94GH< M=J=P/YPOVQ_"/[00[`.M^%?
BO\9[/P_XPU#QA87EMI#_`&9K*\\.7UR8[F2Y M0A`$N$DZ<$9W8P#7R9\T=XWU[XO_``K\'>(-1\/>(FL],BN-,3Q1JD01=3+2
MF5HAM^1G1V?YQ\S`Y89YK^FC_@J;_P`$\M-_X**_"70/"=Y!9Q-#K=O--J"-,-]X; M-
O#YMQ:W4"EE88&YC)@JQY)#D\D"@:9^*FD?\%6M! 9U^"GP8\)?#CPK)XDT
\label{eq:map-identity} M3P=I\&_Q"/\$MN\:_VQ)J,\&H,\$>/AHEEMHBH[JQ![TGQ7\_`."OK?\%3]F3Q3X;L
MM*U2Y\5:WXDM];U:74+=;K1[RU@DGNO]0N2I^T7#*2Y"^4D6<,#7ZS_LF?\`M!$'PS8?\$@&^"_C73K!?%WC&S?
5]3U$6X%Q8:G(`\S\M^Y(C4X(#!#ZFO/O M^""/_!&63]FOX9_%>_\`BSI-E>ZOXPNKCPQ%921K-
"-.B)5IEW`_ZYCD>BH, M]:-1W1^9W[-?_!0;XY_%_P"%MQ\)_AG\,_#^L:B=(EL[*YT33WCNM)TY;>6.
MX$6"2'D$IW2%B2/EQ3?^";7_``3PF_X*"_$.Q\%^)OB9#X$M?L<^\9PHY-?K1_P2[_X(II_P3B_X*!?$+Q/9ZQ)K'@[4
M-\&5/\#(E\#":R\$LN98I2/E++C`/=2\#P17T_:?\\$X_`GAS]MJP^-^@6SZ\#KRZ?/M8ZC:63F\&SU!I,8F>\$?
(9.H+8!/US0*_8_.S_`()I_L6?$?\`X)^?MV>#_AQJ M'PNL?#^A7;71O?&FGI]N'B>*-96C,MX^#!N&S-LB]`-
Q.*_02\\`X)/_\``5T M#]H+0OBCX8\+Q\$?&?A\Y-Q;W.E2-\%;L'9O.5H,\^7B17<':!USVKZ-N;&"]> M\%IH8Y6MY/-
B+J"8WP1N'H<$C/N:EHN(****0!1110`4444`%%%%`!1110`44 E44`%5], X|3_`+
```

[\_`/H1HHH`L4444`%%%%\\`!1110`4444`?\_V3\\_` end