

Decision No. 77975

ORIGINAL

BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of
SOUTHERN CALIFORNIA GAS COMPANY for
Authority: (a) to Increase Its Gas
Rates to Offset Higher Costs
Occasioned by an Increase in the
Rates of the Suppliers of Out-of-
State Gas to the Pacific Lighting
Utility System, (b) to Continue the
Advice Letter Procedure for Tracking
Increases in Purchased Gas Cost
Based on Federal Power Commission
Dockets Nos. RP70-11 and RP70-19,
and (c) for a General Increase in
Its Gas Rates.

Application No. 51567
(Filed December 19, 1969)

Phase I -- Parts (a) and
(b) Of Authority Sought
As Set Forth in Title

Phase II -- Part (c) of
Authority Sought As Set
Forth in Title

(Appearances are listed in Appendix A)

OPINION IN PHASE II

In the Phase II portion of the above-entitled application, Southern California Gas Company (So Cal) seeks authority to establish a general increase in its rates for gas service.

This application and Application No. 51568, filed concurrently by applicant's affiliate, Southern Counties Gas Company of California (SoCounties)^{1/}, were consolidated for purposes of hearing and companion decisions in each of the two phases under which the authorizations sought have been divided. After public hearing held earlier this year in Phase I, the Commission issued on

^{1/} As of July 31, 1970, and pursuant to Decision No. 77010 dated March 31, 1970 in Application No. 51557, the merger between Southern California Gas Company and Southern Counties Gas Company of California has been consummated. Southern California Gas Company, as the surviving corporation, has adopted the effective tariff schedules of Southern Counties Gas Company of California.

April 14, 1970, Decision No. 77101 in Application No. 51567 and Decision No. 77100 in Application No. 51568 in which applicant and SoCounties were granted authority to increase their rates for gas service in order to meet increased purchased gas costs as incurred relative to rate increases placed in effect by El Paso Natural Gas Company (El Paso) and Transwestern Pipeline Company (Transwestern).

Public hearing in Phase II of these applications was held in Los Angeles before Examiner Main during the period April 8 to May 29, 1970. Upon the conclusion of 14 days of public hearing within this period, the matters were submitted subject to the receipt of briefs mailed or filed on June 30, 1970.

Phase I Authority

Pursuant to authority granted in Decision No. 77101, supra, Southern California Gas Company:

(1) increased its rates and charges for natural gas service on April 16, 1970, so as to provide additional annual gross revenues of \$10,392,000, based on test year 1970, to offset the increased cost of gas it purchases from El Paso, the so-called El Paso basic increase in FPC Docket No. RP70-11, and the related effect on the cost of California gas purchased from Pacific Lighting Service Company (PLSC);

(2) further increased its rates on June 16, 1970, to yield \$12,012,000 of additional annual gross revenues based on test year 1970 in order to offset the increased cost of gas purchased from PLSC attributable to the increased cost of gas from Transwestern, the so-called Transwestern basic increase in Docket No. RP70-19, and

to the related effect on the cost of California gas;

(3) has further increased its rates from time-to-time through an advice letter procedure established for the purpose of tracking additional increases in purchased gas cost based on Dockets Nos. RP70-11 and RP70-19 occurring during 1970. The maximum potential annual increase under the tracking authority thus established for these dockets is \$11,385,000;

(4) spread the above basic increases and tracking increases among the various class of service on a uniform average cents per Mcf basis subject however to one-third of the average being allocated to the steam electric and cement plant classification with the remainder compensated for by the firm natural gas service classification.

It was recognized in Phase I that the spread of the above basic increases among classes of service might not be compatible with that which would result from an in-depth study of the rate relationships among the various customer classes. Such study was not undertaken in Phase I because of time limitations imposed by the then imminent basic increases by El Paso and Transwestern.

For purposes of rate spread in Phase II the starting point will be applicant's rates in effect for gas service on December 25, 1969, and the spread will therefore concern both the El Paso and Transwestern basic increases and the general rate increase sought in Phase II.

Phase II Request

Originally applicant sought in Phase II authority to increase its rates by \$21,900,000 annually due to increases in costs other than the increased cost of purchased gas. During the course of hearings in Phase II applicant revised its request for an increase in annual revenues in Phase II downward to \$16,055,000. This revision came about through exclusion of the federal income tax surcharge and applicant's accepting adjustments to its test year 1970 estimated operational results consistent with certain staff estimates. Applicant stresses that these adjustments were accepted in the interests of expediting the proceeding and without acquiescence in their propriety.

As the matter now stands, applicant seeks authorization to make effective basic rates which will produce revenues which exceed those from rates in effect on December 25, 1969, by \$38,459,000 annually. The basic increases but not the tracking increases authorized in Phase I are included in this amount.

Applicant's Position

Applicant states that, in addition to repeated increases in the cost of gas, other costs have recently risen despite its continued efforts to keep them down. Applicant represents that it has improved the efficiency of its operations, but that these improvements are no longer sufficient to offset the higher expenses it is now experiencing related to wages, employee benefits, cost of capital, and other increased costs as a result of inflation. Applicant contends that, even with all increased gas purchased costs

offset, the estimated rate of return for applicant in test year 1970, without the requested general rate increase, would be only 4.49 percent. It is applicant's position that it requires a level of rates which will produce a rate of return of at least 8 percent and, that this is the minimum level of fair rate of return for it.

Record in Phase II

Evidence was presented by the applicant and its affiliates, SoCounties and PLSC, the Commission staff, the City of Los Angeles, the City of Long Beach, San Diego Gas & Electric Company, and others. Applicant and its affiliates and the Commission staff offered evidence relating to all phases of the Pacific Lighting Utility System (the combined system of applicant, SoCounties, and PLSC) operations. The participation of other parties, including the City of San Diego, Southern California Edison Company, Los Angeles Department of Water and Power and California Manufacturers' Association, pertained primarily to rate spread or rate of return.

The record on applicant's general rate proposal shows that there are two principal issues to be resolved. These issues are: (1) What amount of gas service revenues has applicant demonstrated that it reasonably requires; and (2) how shall such revenues be spread among the several classes of customers.

Applicant's Earnings

The rates of return estimated by applicant and by the Commission staff for the test year 1970 are as follows:

<u>Rate Level</u>	<u>Rate of Return</u>	
	<u>Applicant</u> <u>(Ex. #36)</u>	<u>Staff</u> <u>(Ex. #45)</u>
At rates in effect 12/25/69	4.49%	4.79%
At applicant's proposed rates as revised	8.00%	8.37%

The tabulation below compares the estimates of the results of applicant's operation for the test year 1970 as presented by the applicant and the staff. The results shown for applicant reflect its adoption of the test year gas balance sponsored by the staff including staff's estimates of gas sales and gas required for company use and applicant's acceptance of certain other staff estimates.

Accordingly, we find that the estimates of \$370,115,000 for operating revenues, \$283,000 for storage expense and \$5,065,000 for transmission expense, which are not in contention as between applicant and staff, are reasonable and should be adopted.

Summary of Earnings

Test Year 1970

At Rates in Effect December 25, 1969

<u>Item</u>	<u>Applicant</u>	<u>Staff</u>	<u>Adopted Operating Results</u>
	(Dollars in Thousands)		
<u>Operating Revenues</u>			
Gas Sales	\$365,892	\$365,892	-
Other	4,225	4,223	-
Total	370,117	370,115	370,115
<u>Operating Expenses</u>			
Production	221,446	221,647	221,585
Storage	823	823	823
Transmission	5,065	5,065	5,065
Distribution	30,298	29,100	29,699
Customer Accounts	15,608	15,079	15,344
Sales	10,369	10,369	10,369
Administrative and General	25,423	26,100	25,557
Subtotal	310,092	308,243	308,502
Depreciation	18,796	18,561	18,760
Taxes	20,666	21,826	21,114
Total Operating Expenses	349,554	348,630	348,376
Net Revenue	20,563	21,485	21,739
Rate Base	457,799	448,500	452,828
Rate of Return	4.49%	4.79%	4.80%

Production Expenses

The production expenses of the Pacific Lighting Utility System depend in part upon the rate of return component in the cost of service tariff of PLSC under which wholesale natural gas service is provided to SoCal and SoCounties. In Appendix B attached to this decision the operational results of Pacific Lighting Service Company based on test year 1970 which we find reasonable and have adopted for the purposes of this proceeding are set forth.

The staff estimates higher production expenses than the applicant based on a higher derived rate of return for PLSC (4.51 percent by staff vs. 4.19 percent by applicant and its affiliates) which more than offsets applicant and its affiliates higher estimate of PLSC's rate base. Consistent with the staff gas balance and a 4.50 percent rate of return for PLSC, we find that an estimate of \$221,585 for production expenses is reasonable and is adopted as shown in the above tabulated operating results.

Distribution Expenses

Applicant's estimate of distribution expenses for the test year is \$30,298,000; the staff's estimate is \$29,100,000.

Distribution expenses represent two areas of activity, distribution and customer service. The distribution activity covers principally operation and maintenance expenses of the physical distribution system including meters and regulators; the customer service activity covers expenses relating to work done on customers' premises. The labor component in these expenses predominates, accounting for about 75 percent of the total expenses.

Applicant and staff employed basically different methods of estimating distribution expenses. Applicant's witness described SoCal's basic forecasting method as follows:

"Estimates of costs and expenses for the future have been prepared in collaboration with the responsible division and department heads of the various segments of the Company. The Company has, for many years, followed the practice of forecasting into the future operating and maintenance expense, as well as additions to and retirements of plant. The direct costs or controllable expenditures are estimated by each division and are reviewed by the appropriate functional department at Headquarters. The Controllers Department estimates the various accounting reassignments and allocations and, then, consolidates the data into final Company budgets, which are reviewed and approved by the Company's executives ..."

In estimating distribution expenses the staff witness used, in general, a basic method of trending which reflects the history of recorded expenses for the period 1964-1968 with such adjustments as were, in his judgment, fitting. With the trend developed from the 1964-1968 data the staff witness then estimated expenses for the year 1969 using in most instances 10 months recorded data and 2 months estimated. To this 1969 estimate he added the slope of the trend developed for the period 1964-1968 to arrive at his 1970 estimates.

Applicant contends that the staff understates expenses for 1969, thus starting its test year estimate from too low a base, and that the staff's trend applied to that base does not adequately reflect the 1970 wage increase. On the other hand the staff contends that applicant's expense budget approach is designed to provide estimated actual expenditures in 1970 without identifying and adjusting, for rate fixing purposes, abnormal or non-recurring items.

After consideration of the entire record including the need for proper application of either applicant's or staff's basic forecasting method, each of which is reasonably sound, and the lack of a convincing or adequate basis upon which to make selective adjustments within either method, and the recent changes in system operations at the transmission level with attendant effect on allocations of supervision and engineering expenses, the imminent merger of SoCal and SoCounties, the pattern of wage increases through recent years and changes in service programs, we find as reasonable and adopt for the test year an estimate of \$29,699,000 for distribution expenses.

Customer Accounts Expenses

Applicant's estimate of customer accounts expenses for the test year is \$15,608,000, including provision for uncollectibles at December 25, 1969, gas rates; the staff's estimate is \$15,079,000. These expenses include the cost of meter reading, billing and customer accounting activities, collecting, credit investigations and the provision for uncollectible accounts. Directly charged labor is the most significant item of expense in customer accounts expenses, accounting for about 60 percent of the total for such expenses.

The same general issues between applicant and staff that exist for distribution expenses are present in this category of operating expenses. Consistent with our treatment of distribution expenses we find as reasonable and adopt for the test year an estimate of \$15,344,000 for customer accounts expenses.

Administrative and General Expenses

Applicant's estimate of Administrative and General Expenses for the test year is \$26,423,000, including franchise requirements at December 25, 1969, gas rates; the staff's estimate is \$26,100,000. The difference between the estimates is accounted for almost entirely by a reduction of \$332,000 by the staff in the \$813,000 research and development program as estimated by the applicant for the test year. Also requiring consideration, however, in this category of operating expenses is a staff witness's accounting recommendation concerning capitalizing a portion of pensions and benefits. ✓

In their respective estimates of administrative and general expenses both applicant and staff treat pensions and benefits entirely as an expense. To give effect to capitalization of pensions and benefits applicable to construction payroll the staff's estimate of administrative and general expenses for the test year would be reduced by \$758,000. The staff accounting recommendation in this regard is sound and its effect is adopted for rate fixing purposes.

As to applicant's research and development program the record is clear that expenditures for this program have increased markedly year by year since 1967. The largest budgeted expenditure within the program is one for developing a fuel cell (TARGET) and amounts to \$233,000 in the test year. TARGET represents an accelerated effort and the staff considered amortizing its four year cost over a longer period. On an eight year amortization basis a

more equitable distribution in the amount of \$117,000 per year results for rate fixing purposes.

Viewed in the context of the research and development activities required in the gas industry, applicant's research and development program is not unreasonable and applicant appears to be pursuing worthwhile projects. Greater emphasis should be placed, however, on projects having the objective of mitigating air pollution or otherwise protecting the environment and on projects directed toward raising the heat content of natural gas served by applicant to its customers. In this regard we are not unmindful of the environmental considerations associated with TARGET and point out that the amortization of expenditures for this project merely provides a more appropriate spread of its cost for rate fixing purposes.

Our order herein will require the filing of quarterly reports to monitor progress of existing research and development projects and the character of new projects undertaken.

We find reasonable and adopt for the test year an amount of \$25,557,000 for administrative and general expenses.

Depreciation Expense

Applicant's estimate of depreciation expense for the test year is \$18,796,000; the staff's estimate is \$18,561,000. The difference arises from their respective estimates of gas plant.

Consistent with our adopted estimate of gas plant, we find reasonable and adopt for the test year an estimate of \$18,760,000 for depreciation expense.

Taxes

In the area of taxes the difference between the applicant and the staff relates only to income taxes and concerns calculation of the interest deduction and the related taxes paid depending upon the estimated net revenue before income taxes. Thus for the purposes of this proceeding applicant accepted the staff estimates for the test year of taxes other than on income consisting of \$15,229,000 in ad valorem taxes and \$2,201,000 in payroll taxes. However, to be consistent with our adopted estimate of gas plant in service, the staff estimate of ad valorem taxes should be increased to \$15,254,000.

In the calculation of taxes based on income the staff used a year-end composite interest rate for combining short-term and long-term debt to determine the test year interest deduction. Applicant contends that it would be more proper to apply the year-end interest rate for short-term debt to the weighted average short-term debt during the test year and the year-end interest rate for long-term debt to the weighted average long-term debt during the test year. Had this been done the interest deduction used for SoCal would have been approximately \$200,000 lower. The reason for the lower result is that the amount of long-term debt is relatively less at year-end compared to the average amounts of long-term and short-term debt outstanding during the test year and the year-end effective interest rate of 4.932 percent derived for long-term debt is substantially below the 8.5 percent rate derived for short-term debt.

The staff's use of a year-end composite interest rate for combined short-term and long-term debt to determine test year interest deductions for the calculation of taxes based on income is consistent with rate of return studies which involve in effect applying year-end capital cost rates with weighted average capital during the test year, in view of the relationship of such capital to rate base and the fact that the revenue requirement on which rates are to be based is, in part, the product of a rate of return and a weighted average rate base. In concept the staff approach tends to bring income taxes and rate of return, as elements of the total cost of service or revenue requirement into synchronization. Without such an approach, the allowance for income taxes within the revenue requirements for the test year would tend to become excessive the following year.

Based on the revenues and expenses found reasonable and adopted herein, we compute and adopt as reasonable for the test year an amount of \$3,659,000 for income taxes at the rates for gas service in effect December 25, 1969. We further find as reasonable and adopt for the test year an estimate of \$21,114,000 for total taxes.

Rate Base

The components of weighted average depreciated rate base for the test year as presented by the applicant and by the staff are compared below:

Weighted Average Depreciated Rate BaseTest Year 1970

<u>Item</u>	<u>Applicant</u>	<u>Staff</u>	<u>Adopted</u>
(Dollars in Thousands)			
Gas Plant:			
Plant in Service - Beg. of Year	\$669,212	\$667,945	\$669,056
Weighted Average Net Additions	10,203	6,232	9,553
Noninterest Bearing Const. Work in Progress	<u>1,300</u>	<u>1,300</u>	<u>1,300</u>
Total Wtd Avg. Gas Plant	680,715	675,477	679,909
Adjustments:			
Contributions & Cust. Advances for Const.	(15,871)	(15,871)	(15,871)
Dep. Res. Gen. Plant	(210,811)	(210,693)	(210,793)
Other Reserves	<u>(2,867)</u>	<u>(2,867)</u>	<u>(2,867)</u>
Total Adjustments	(229,549)	(229,431)	(229,531)
Working Capital:			
Working Cash Allowance	3,000	(1,183)	(1,183)
Mats. & Supplies	2,678	2,678	2,678
Gas Stored Undergd-Current	<u>955</u>	<u>955</u>	<u>955</u>
Total Working Capital	6,633	2,450	2,450
Total Wtd Avg. Depreciated Rate Base	\$457,799	\$448,496	\$452,828

() = Red Figure

The difference in rate base as estimated by applicant and the staff arises from their respective estimates of gas plant in-service at beginning of year, weighted average net additions, depreciation reserve for gas plant, and working cash allowance.

To develop our adopted estimate for weighted average gas plant, end of year 1969 recorded gas plant and weighted average net plant additions reflecting later plant budget estimates and pensions and benefits costs applicable to construction payroll have been used. We find the weighted average gas plant in the amount of \$679,909,000 thus developed to be reasonable. We also find and adopt as reasonable the amount of \$210,793,000 for the deduction for depreciation, which is consistent with the depreciation expense heretofore found reasonable.

As to working cash, applicant's allowance is based upon judgment without substantial supporting evidence. The staff's allowance also represents judgement but is developed through an analysis of operational cash requirements and deductions for amounts generated from operations and not supplied by investors. In the staff analysis the operational working cash requirement of \$7,943,000 is offset by \$9,126,000 resulting from an excess of credits received over credits extended. A negative working cash allowance in the amount of \$1,183,000 results which represents funds supplied by employees, suppliers, and customers. This amount, not furnished by investors, is treated by the staff as a deduction in determining rate base. Its manner of developing and treating negative working cash allowance is consistent with

Decision No. 67369, dated June 11, 1964, in Case No. 7409 re The Pacific Telephone and Telegraph Company and Decision No. 75873, dated July 1, 1969, in Application No. 49835 of General Telephone Company of California. In Decision No. 67369, the justification for including a negative allowance for working cash in rate base was commented upon as follows: "Where, as in this case, the funds supplied to respondent by others than investors are greater than the amount required by respondent for working cash, and the excess amount is not deducted from rate base, customers would be unreasonably required to pay a return on funds supplied by them to defray reasonable expenses and taxes and to provide a reasonable return on invested funds."

The justification for including a positive allowance for working cash in rate base is to provide the investors a return upon that portion of their invested capital which is necessary in the utility's operations and upon which they would not otherwise receive a return. Applicant has failed to so justify its judgement amount for working cash; its contentions that the staff treatment of Federal Income Tax accruals in the "lead-lag" study is arbitrary and that the compensating bank balances used by the staff in assessing operational cash requirements fails to give reasonable recognition to its open account arrangement with its parent corporation, Pacific Lighting Corporation, remain on this record as merely contentions and appear to lack demonstrable merit.

We find as reasonable and adopt a negative allowance for working cash in rate base of \$1,183,000 as developed by the staff.

The remaining components of the weighted average rate base which we have adopted are at the levels used by both applicant and staff. We find reasonable and adopt a rate base for the test year of \$452,828,000.

Rate of Return

Applicant seeks a rate of return of 8.0 percent on its depreciated rate base and, together with its affiliates, a rate of return of 8.0 percent on the depreciated rate base of the Pacific Lighting Utility System.

In depth presentations on the reasonable level of rate of return were made by applicant and its affiliates, the staff and the City of Los Angeles. The witness for applicant and its affiliates recommended a range in rate of return of 8.0 to 8.25 percent, the staff witness recommended a range of 7.35 to 7.65 percent, and the witness for the City of Los Angeles recommended a rate of return of 7.35 percent.

The witnesses used different year-end 1970 capital ratios in their respective studies. Applicant and its affiliates and the City of Los Angeles employed the composite capital structure of the Pacific Lighting Utility System and, in a modified derivation, applicant and its affiliates attributed the preferred stock of Pacific Lighting Corporation, the parent corporation, to the capital structure of the Pacific Lighting Utility System. The

Commission staff derived the year-end capital ratios for its study from the capital structure of Pacific Lighting Corporation. In tabular form the year-end 1970 capital ratios used in the several studies are:

<u>Item</u>	<u>Year-end 1970 Capital Ratios</u>			
	<u>Applicants</u>		<u>Staff</u>	<u>L.A. City</u>
Long-term Debt	45.6%	45.6%	43.27%	45.6%
Short-term Debt	4.4%	4.4%	2.71%	4.4%
Preferred Stock	2.5%	12.0%*	11.00%	2.5%
Common Equity	<u>47.5%</u>	<u>38.0%</u>	<u>43.02%</u>	<u>47.5%</u>
Total	100.0%	100.0%	100.00%	100.0%

*Includes preferred stock of Pacific Lighting Corporation.

The rate of return witness for applicant and its affiliates calculated at 8.0 percent rate of return the earnings rate which would flow to common stock equity for the Pacific Lighting Utility System. In his calculation he used a year-end composite cost rate of 5.46 percent for debt. The resultant earnings for common stock are 10.78 percent based on the 47.5 percent equity ratio and a preferred stock cost rate of 6 percent. This increases to 12.34 percent on net common equity when the preferred stock of Pacific Lighting Corporation is attributed to the utility system and makes the effective cost rate of preferred stock decrease to 4.83 percent.

His rate of return recommendation takes into account the system's size, capital structure, growth potential, requirements for capital, effects of inflation, interest coverage, and the competition in its service area, as well as special factors, including the growing problem of obtaining additional gas supplies and the deterioration in heating values of its gas supplies generally.

As the principal support for his recommendation, the witness relies upon the test of earnings comparability. For purposes of this test, he used as a primary group 20 large natural gas operating utilities and as a second group, the 20 largest straight electric utilities. For the 5-year average, 1964-1968, the capital ratios for the primary group were approximately 54 percent debt, 6 percent preferred stock, and 40 percent common stock; the straight electric companies' capital ratios averaged about 52 percent debt, 8 percent preferred stock, and 40 percent common stock; the capital ratios of the Pacific Lighting Utility System averaged 43.6 percent debt, 13.6 percent preferred stock including Pacific Lighting Corporation's preferred and 42.8 percent common stock. The average earnings on common stock equity were 12.45 percent for the 20 gas utilities, 13.16 percent for the 20 electric utilities and 10.76 percent for the Pacific Lighting Utility System. The earnings on total capital were 7.63 percent for the 20 gas utilities, 7.68 percent for the 20 electric utilities and 7.10 percent for the Pacific Lighting Utility System. The times interest earned after taxes were 3.27 for the 20 gas utilities, 3.75 for the 20 electric utilities and 3.88 for the Pacific Lighting Utility System.

The staff financial witness does not rely primarily on the comparable earnings approach but uses it as a guide. The companies he used are ten of the largest gas companies and ten of the largest combination gas and electric companies. His recommended range in rate of return from 7.35 percent to 7.65 percent reflects his judgment as to the needs and circumstances of the Pacific Lighting

group of utilities. Based on the capital ratios of Pacific Lighting Corporation, his recommendation provides a range of return on common equity from 10.09 to 10.79 percent.

His recommendation reflects many of the factors considered by the financial witness for applicant and its affiliates. As partially offsetting to the effects of continuing inflation, the staff witness expressed the view that applicant and its affiliates will probably continue to realize gains through purchasing at substantial discounts their bond issues bearing lower coupon rates and disposing of them at par for sinking fund purposes, and observed that efficiencies and substantial operating costs savings are anticipated in time from the imminent merger of applicant and SoCounties.

The rate of return witness for the City of Los Angeles did not use the comparative earnings test and stressed the deficiencies in his opinion of the applicant's evidence. He pointed out in essence that the problem with a comparative earnings test is two-fold in that first, a standard for comparison must be a proper and valid one and, second, valid comparisons must be made. In arriving at a recommended rate of return of 7.35 percent, this witness relied heavily upon this Commission's treatment of rate of return in the following decisions: Decision No. 74917, dated November 6, 1968 in Application No. 49142 of The Pacific Telephone and Telegraph Company; Decision No. 75873, dated July 1, 1969 in Application No. 49835 of General Telephone Company of California; Decision No. 76106, dated August 26, 1969 in Application No. 50363 of

Southern California Edison Company; and Decision No. 76655, dated January 6, 1970 in Application No. 50779 of The Pacific Gas & Electric Company.

His recommendation is intended to reflect a reasonable correlation between this Commission's recent rate of return allowances to the other major California utilities and the rate of return to be found reasonable for applicant and the Pacific Lighting Utility System in these proceedings. In his opinion, proper effect has been given to differences in capital structure, cost of imbedded debt, and risk. Other factors he has taken into consideration are the size, character, history and reputation of applicants, the adequacy of interest coverage, the burden on the consumers, and the return to the stockholder.

In the final analysis, the rate of return determination devolves upon the judgment of the Commission, after weighing the evidence presented by all of the experts who, by their testimony, have sought to advise the Commission, to determine and to set a fair and reasonable rate of return. Upon a full consideration of the record, we find and conclude that a reasonable range for the rate of return for applicant and the Pacific Lighting Utility System at this time is 7.65 to 7.85 percent. Such a range of return, when considered with the cost of debt money of 5.46 percent and preferred stock money of 4.83 percent, should produce returns on common stock equity attributable to the Pacific Lighting Utility System of 11.42 percent to 11.95 percent, based on a capital structure of 50 percent debt, 12 percent preferred stock, and 38 percent common equity.

Authorized Revenue Increase

The adopted test year results at December 25, 1969 gas rates yield applicant a 4.80 percent rate of return. This is less than a fair return. We will authorize applicant to increase its December 25, 1969 gas rates by the amount of \$32,043,000 in the manner hereinafter described, which amount should yield applicant a 7.75 percent rate of return on the adopted rate base of \$452,828,000 for the test year 1970. The adopted results at rates being authorized herein may be summarized as follows:

	<u>Adopted Results At Authorized Rates</u>
Operating Revenues	\$ 402,158,000
Operating Expenses & Taxes	367,061,000
Net Revenue	35,097,000
Rate Base	452,828,000
Rate of Return	7.75%

Rate Spread

For purposes of an overall rate spread we are confronted with the task of allocating revenue requirements of \$397,935,000 (exclusive of Phase I tracking increases) to applicant's various classes of service.

All classes, however, should bear a portion of the total increase with reference to the rates in effect December 25, 1969, but, as anticipated in Phase I, certain classes of service may receive a reduction in rates from those authorized in Phase I corresponding to the El Paso and Transwestern basic increases depending upon the rate spread adopted herein.

A comparison in tabular form of rate spread proposals by applicant and SoCounties and the staff is provided on the following page. The factors considered by applicant and the staff in developing their respective spreads include cost allocation, value of service, competition, rate history, and, in the case of applicant, its contractual obligation not to apply for an increase in rates for Schedule No. G-58 serving Southern California Edison Company and the Los Angeles Department of Water and Power which would exceed on a cents per Mcf basis one-third of the system average increase sought.

To the extent applicant relied on cost of service, its proposed rate spread reflects the results of its new cost allocation method called 'The Base Supply and Load Equation Method'. The staff does not advocate the use of any one cost allocation method and supports the concept of giving consideration to the range of results produced among several allocation methods including the one sponsored by applicant.

As pointed out in Decision No. 75429 in the 1969 rate proceeding of applicant, the outlook does not appear promising for any single cost allocation method or array of such methods to provide results for the Pacific Lighting Utility System which could serve as more than at best an approximate guide within one of the important elements considered in determining reasonable rates for the various classes of service.

COMPARISON OF STAFF AND COMPANY
RECOMMENDED INCREASES
TO CLASSES OF SERVICE

Company and Class of Service	Revenues at 12-25-69	Recommended Increases				Relationship of % Increases			
	Rates	Staff - Exh. 33A (Table 3A)		Company - Exh. 41		To Class	To Average	% Increase	
	M\$	M\$	c/Mcf	%	M\$	c/Mcf	%	Staff	Company
SOUTHERN CALIFORNIA GAS COMPANY									
Firm Natural Gas Service	254,383	20,921	7.65	8.2	29,196	10.68	11.48	1.03	1.09
Gas Engine	1,846	140	3.80	7.6	135	3.67	7.31	0.95	0.69
Regular Interruptible	54,322	4,634	3.37	8.5	5,746	4.18	10.58	1.06	1.00
Steam Electric and Cement Plts	46,191	3,272	2.27	7.1	3,148	2.18	6.81	0.89	0.64
Resale	6,576	248	1.60	3.8	233	1.50	3.54	0.48	0.33
Total	363,318	29,215	5.09	8.0	38,458	6.69	10.58	1.00	1.00
SOUTHERN COUNTIES GAS COMPANY									
General Service	136,114	13,834	9.56	10.2	18,334	12.67	13.47	1.12	1.16
Firm Industrial	7,675	354	2.87	4.6	666	5.40	8.68	0.51	0.75
Subtotal	143,789	14,188	9.04	9.9	19,000	12.10	13.21	1.09	1.14
Gas Engine	797	90	5.47	11.3	95	5.78	11.92	1.24	1.03
Regular Interruptible	19,910	1,689	3.41	8.5	2,305	4.66	11.58	0.93	1.00
Steam Electric Plants	49,247	3,491	2.27	7.1	3,351	2.18	6.80	0.78	0.59
Wholesale	32,453	2,949	3.40	9.1	3,760	4.33	11.59	1.00	1.00
Total	246,196	22,407	5.00	9.1	28,511	6.36	11.58	1.00	1.00

In the base supply and load equation method, the load equation feature adjusts rolled-in or common costs for service interruptibility. This is done by imputing the load equation contribution of interruptible service as an estimated additional or incremental cost charged to firm gas service and credited to interruptible gas service. The end-results of this cost allocation method are markedly influenced by the level of the imputed additional load equation costs. If it were assumed that such costs would have materialized at the level estimated for the system of about \$28,000,000 without the load equation contribution of interruptible service, the imputation made would reflect the cost benefit to the firm service from the interruptibles. What is missing in this consideration, however, is its counterpart: a measure of the cost benefit of firm service to interruptible service, which exists because of firm service and receives over 50 percent of the gas volumes sold in the test year, for the gas supplies and facilities jointly used by all classes of service in warm years, average years and cold years, albeit subject to substantial curtailment in the case of certain very large interruptible customers. This is a serious shortcoming of the base supply and load equation method and serves to point out the difficulties experienced over the years in devising a method of cost allocation which meets satisfactorily the test of an equitable cost apportionment between firm gas service and interruptible gas service where certain measures of cost benefit appear indeterminate and rigorous cost findings probably cannot be made.

We also observe that the base supply and load equation method, as was the case with the independent systems method used by applicant in the 1969 rate proceeding, reflects the system's capability to meet extreme peak-day firm requirements and to meet cold-year firm requirements plus cold-year deliveries to interruptible customers. To the extent these extreme peak-day (based on an occurrence experience of once in 30-odd years) and cold-year conditions are used, allocation results are not responsive to the use made of gas supplies and of system facilities in an average or test year and to the estimated results of operation for such a test year.

As an over-all rate design consideration in their respective proposals, applicant and staff have attempted to make the features of applicant's and SoCounties' rates more nearly alike for comparable classes of service.

The rates authorized herein for the rate schedules applicable to the various customer classes have been developed after considering all of the factors inherent in rate spread, including cost of service, value of service, level of service to interruptible customers, and history of rates.

Firm Natural Gas Service (Schedules G-1 through G-10)

Applicant proposes that \$29,196,000, or 76 percent of its requested increase, be obtained from firm natural gas service customers, who will require approximately 47 percent of the total gas sales in the test year. This is an average increase of 11.48 percent, or 10.68 cents per Mcf of gas estimated to be sold to this class of service. Under both applicant's proposed rates

and the staff recommended rates, the initial block charges of these rate schedules would be increased substantially to cover a larger portion of the fixed costs of serving customers.

In view of the evidence, we will authorize increases in the rates in the firm natural gas service schedules estimated to yield additional annual gross revenues of \$23,635,000, as compared with the rates in these schedules in effect December 25, 1969, based on gas sales in the test year. This is an average increase of 9.29 percent, or 8.65 cents per Mcf and 0.816 cents per thermal unit.

Apart from its requested increase in rates, applicant proposes and the staff supports the following changes concerning the firm natural gas service schedules: (1) eliminate separate "H" rates for heating only, summer-winter rate differentials, and credit for continuous service which is presently reflected in higher initial block and minimum charges for the first 12 months of service; (2) cancel Schedule G-7 now applicable in the Imperial Valley and add the Imperial Valley District to the territorial applicability of Schedule G-6; (3) rezone certain areas in Antelope Valley, Riverside County and San Joaquin Valley to lower rate levels; and (4) establish a new schedule designated G-10, Optional Residential Firm Natural Gas Service. Schedule G-10 is intended to be a lower cost option to residential customers with very small monthly use and to be available as such in areas where Schedules G-1 through G-6 are proposed to apply. About 90,000 customers may find it advantageous to take service under this optional schedule.

We find the proposed modifications, including the cancellation of Schedule G-7 and the establishment of Schedule G-10, to be reasonable and they will be authorized.

Based on a comparison of the authorized rates set forth in Appendix C hereof and of the basic increases in rates placed in effect pursuant to our decision in Phase I, with the rate levels in effect on December 25, 1969, a typical monthly increase for an average household using 100 thermal units of gas a month under Schedule G-1 would be 85 cents at the rates authorized herein or 10 cents above the Phase I rate levels.

Gas Engine Service (Schedules G-45 and G-47)

Applicant proposes to eliminate summer-winter rate differentials, cancel Schedule G-47, transfer Schedule G-47 customers to Schedule G-45, and increase rates so as to yield an annual revenue increase of \$135,000. This is a revenue increase of 7.31 percent from this service category and equates to an average increase of 3.67 cents per Mcf.

Applicant's proposals concerning the summer-winter rate differentials and cancellation of Schedule G-47 are supported by the staff and have not been contested on this record. Such proposals appear reasonable and will be authorized.

We find that an annual increase of \$134,000, representing a 7.26 percent increase in test year revenues from the gas engine class of service is reasonable and will be adopted. This increases the average rate level for gas engine service customers by 3.64 cents per Mcf, making the average level 53.79 cents per Mcf (5.075 cents per thermal unit), based on gas sales in the test year.

Regular Interruptible Service (Schedules G-50, G-52 & G-53 Series)

An annual increase of \$5,746,000 is sought by applicant in rates for the regular interruptible service customers. This is approximately an increase of 10.5 percent for this classification, or an average increase of 4.18 cents per Mcf. This increase applies to 24 percent of the total gas estimated to be sold in the test year and represents approximately 15 percent of the total revenue increase requested of \$38,458,000.

Cancellation of the G-52 Series schedules is proposed by applicant. The schedules in this series are G-52, G-52T and G-52U, and are applicable principally in the Imperial Valley District. There are no customers on Schedule G-52T. Customers presently on Schedules G-52 and G-52U are proposed to be transferred to Schedules G-50 and G-50T, respectively.

The Imperial Valley District is presently excluded from the territorial applicability of Schedule G-53T. Valley Nitrogen, Inc., as one of four customers presently on Schedule G-52U, contends that, if Schedule G-52U is in effect consolidated into Schedule G-50T, the present G-52U customers should have the option of selecting service under Schedule G-53T just as regular interruptible customers elsewhere in applicant's service territory have. Adequate justification was not shown on this record for applicant to continue limiting the territorial applicability of its regular interruptible service schedules remaining after the cancellation, which we will authorize, of the G-52 series schedules.

In view of the evidence, we find that an increase in rates for this classification to yield additional annual gross

A. 51567 - SW/gf */ms *

revenues of \$4,905,000 is reasonable and that applicant's remaining proposals modified to the extent of making its rate schedules for regular interruptible service applicable throughout its service area without exclusions at this time are reasonable and should be adopted. The authorized increases in rate levels set forth in Appendix C hereof reflect for this classification an average increase of 3.57 cents per Mcf, or an 9.03 percent increase, based on the estimated sales of gas to this classification in the test year.

Steam-Electric and Cement Plant Service

This class of service, covering Schedules G-54, G-55, G-56 and G-58, is made up of a very few customers: 5 steam-electric generating plant customers and 3 cement plant customers. The steam plants account for over 90 percent of the volume in this class and are by far the major contributors to both seasonal and peak-day load equation among the classes subject to curtailment. In test year 1970, the level of service is about 71 percent to the steam-electric and cement plant customers excluding special contract deliveries. Including the special contract sales, the level of service increases to about 75 percent.

Applicant proposes essentially a uniform increase in rates, equal to one-third of the average cents per Mcf increase on the system, for gas delivered to its steam-electric and cement plant customers. On this basis, an annual increase of \$3,148,000, equivalent to 2.18 cents per Mcf and representing a 6.81 percent increase, is sought. This increase represents approximately 8 percent of the total revenue increase sought of \$38,458,000 and

applies to 26 percent of the total gas estimated to be sold in the test year.

On this record, we find an increase in rates for Schedules G-54, G-55, G-56, and G-58 to yield additional annual gross revenues of \$3,138,000 to be reasonable. The authorized increases in rate levels set forth in Appendix C hereof reflect, in relation to the rate levels in effect December 25, 1969, for these schedules, an average increase of 2.13 cents per Mcf, or a 6.79 percent increase, based on the estimated sales of gas to this service category in the test year.

This finding should be viewed, however, in the context of our continuing concern that equitable rate levels for steam-electric and cement plant customers are particularly sensitive to changes in the over-all gas supply/requirement relationship and to changes in the costs of applicant's gas supplies.

Resale Service to Long Beach (Schedule G-60)

Applicant's, as well as the staff's, showing in this proceeding indicates that the increase to be authorized in the rates for Schedule G-60 should be less than a system average percentage increase. Applicant, the City of Long Beach, and the staff are in agreement that the commodity rates in Schedule G-60 should be converted to a therm basis and that the conversion should be based on 1,062 btu. Based on this record, we find that an increase in Schedule G-60 rates to yield additional annual gross revenues in the amount of \$231,000 is reasonable, that the monthly demand charge in that schedule should be increased

accordingly and that the commodity charge should be changed only to reflect conversion at 1,062 btu to the per therm basis.

Summary of Authorized Increases

The table below summarizes, by classes of gas customers, the effects of the authorized rate increases (exclusive of tracking increases subsequent to December 25, 1969) specified in Appendix C to this decision, based on the staff estimated 1970 sales of gas adopted herein:

Summary of Authorized Increases Test Year 1970

: Class of Service	: MMcf	: Adopted : : Sales : : Rates	: Adopted : : Revenue : : at 12-25-69 : : Rates	: Authorized		: Avg. Rev. : : Per Mcf : : After : : Increase :
				: Amount	: Per- : Per : : cent : Mcf	
Firm Service	273,380	M\$254,383	M\$23,635	9.29	2.65¢	101.70¢
Gas Engine	3,681	1,846	134	7.26	3.64	53.79
Regular Interr.	137,578	54,322	4,905	9.03	3.57	43.05
Steam Elec. & Cement Plant	144,283	46,191	3,138	6.79	2.18	34.19
Resale	15,515	6,576	231	3.51	1.49	43.87
Subtotal	574,437	363,318	32,043	8.82	5.58	63.83
Special Steam Plant	7,218	2,574	-	-	-	-
Other Gas Revenue	-	4,223	-	-	-	-
Total	581,655	370,115				

Contingent Offset Charges

In Phase I, by Decision No. 77101, applicant was authorized to place into effect in proper sequence rates increased to include as offset charges the April 13, 1970, El Paso basic increase in Docket No. RP70-11 and the June 16, 1970, Transwestern basic increase in Docket No. RP70-19. Such offset charges are collected subject to refund and reduction depending upon the level of just

and reasonable rates the Federal Power Commission ultimately determines for El Paso and Transwestern.

As mentioned previously, the rate spread in Phase II concerns both the El Paso and Transwestern basic increases and the general rate increase sought in Phase II. Neither applicant nor the staff, however, in their respective rate designs segregated increases as between cost of gas increases and other general cost increases.

Under these circumstances we are confronted by the question as to whether there is a more appropriate basis for determining contingent offset charges in view of the record developed in Phase II.

In our view, the contingent offset charges established by our decision in Phase I should not be altered at this time. From a cost behavioral standpoint, reasonable relationships appear to be maintained among the various classes of service by relating cost of gas increases, or decreases, to a uniform cents per Mcf distribution with some adjustment for levels of service to customer classes subject to curtailment. ✓

For similar reasons, we do not deem it appropriate that tracking increases which may be filed under the advice letter procedure established in Phase I, but occurring after our decision herein, be spread to classes of service on a uniform percentage basis. In our opinion, proper rate relationships among the various classes of service are being established by this decision, and from a cost behavioral standpoint, it is not appropriate to spread cost of gas increases on a uniform percentage basis. We will not change the spread authorized in Phase I applicable to tracking increases. ✓

Findings

1. In Phase I, by Decision No. 77101, applicant was authorized to increase its gas rates to offset higher costs occasioned by increases in the rates of El Paso and Transwestern, the so-called basic increases in FPC Docket Nos. RP70-11 and RP70-19. Such increases in rates are expected to yield additional annual gross revenues of \$22,404,000, as compared with applicant's rate levels in effect on December 25, 1969, based on test year 1970.

2. In Phase II, applicant seeks authorization to make effective basic rates which will produce revenues which exceed those from rates in effect on December 25, 1969, by \$38,459,000 annually. The basic increases, but not the tracking increases, authorized in Phase I are included in this amount. Thus, the net increase in gross revenues sought by applicant in Phase II is \$16,055,000.

3. Under the rates and charges for its gas service in effect December 25, 1969, applicant's earnings during the 1970 test year produce a rate of return of 4.80 percent on a rate base of \$452,828,000. The adopted estimates of operating revenues, operating expenses, and rate base, previously discussed herein, yielding this earnings level depend in part on the test year operational results of applicant's affiliate, PLSC. The test year operational results of PLSC, which we find reasonable and adopt, are set forth in Appendix B attached to this decision.

4. A reasonable range for the rate of return for applicant and the Pacific Lighting Utility System in these proceedings is 7.65 to 7.85 percent. Such a range of return should produce

returns on common equity attributable to the Pacific Lighting Utility System of 11.42 percent to 11.95 percent.

5. The level of return to be adopted as reasonable for purposes of authorizing rates herein should be 7.75 percent on applicant's rate base of \$452,828,000 in the test year.

6. Applicant is entitled to increased net revenues in the amount of \$13,358,000, an amount sufficient to raise its 1970 test year rate of return to the 7.75 percent level. An increase of \$32,043,000 in gross revenues, based upon the test year, is justified. Accordingly, applicant should be authorized to increase its December 25, 1969, gas rate levels to the extent indicated in Appendix C hereto (exclusive of subsequent tracking increases) so as to yield additional annual gross revenues in the amount of \$32,043,000 based upon the test year.

7. All classes of service should bear a portion of the required revenue increase of \$32,043,000.

8. The rates authorized by this Commission, as set forth in Appendix C hereto, reflect a fair and reasonable spread of the authorized increase in gross revenues of \$32,043,000 to the various classes of service.

9. Applicant's proposed revisions in the rate form and design of the firm natural gas service schedules, including cancellation of Schedule G-7 and establishment of Schedule G-10, as set forth herein and in greater detail in Exhibit No. 9.1, are reasonable and should be authorized. Similar proposals concerning the schedules for gas engine service appear reasonable and also should be authorized.

10. Applicant's proposal to cancel the G-52 Series schedules for regular interruptible service is reasonable provided that the territorial applicability of its remaining schedules for this class of service is extended to include the Imperial Valley District.

11. Conversion of the commodity rate in Resale Schedule G-60 to a therm basis, based on 1,062 btu, is reasonable.

12. Neither the contingent offset charges nor the spread of the so-called tracking increases established by our decision in Phase I of these proceedings should be altered at this time.

13. The rates authorized by this Commission, as set forth in Appendix C hereto, are fair, just and reasonable.

Based upon a consideration of the record and the foregoing findings, the Commission concludes as follows:

1. The Phase II portion of the application herein should be granted to the extent set forth in the preceding findings and in the following order and in all other respects should be denied.

2. The increases in rates and charges authorized herein are justified.

3. The rates and charges authorized herein are just and reasonable and present rates and charges, insofar as they differ therefrom, are for the future unjust and unreasonable.

4. All motions consistent with these findings and conclusions should be granted and those inconsistent therewith should be denied.

5. For the period 1971-1973 quarterly reports should be filed with the Commission describing new research and development projects applicant will undertake and progress being made on the projects underway.

O R D E R

IT IS ORDERED that:

1. Southern California Gas Company is authorized to file with this Commission, on or after the effective date of this order, revised tariff schedules with changes in rates, charges, and conditions as set forth in Appendix C attached hereto. Such filing shall comply with General Order No. 96-A. The effective date of the revised rate schedules shall be four days after the date of filing. The revised rate schedules shall apply only to service rendered on and after the effective date thereof.

2. Southern California Gas Company shall file with this Commission, within thirty days after each calendar quarter of the years 1971 through 1973, a quarterly report describing new research and development projects in which it plans to participate, and summarizing progress on the projects underway.

3. The Phase II portion of the application herein, in all other respects, is denied.

4. All motions consistent with the findings and conclusions set forth above in this decision are granted and those inconsistent therewith are denied.

The effective date of this order shall be ten days after the date hereof.

Dated at San Francisco, California,
this 24th day of NOVEMBER, 1970.

[Signature]
Chairman
[Signature]
William J. Lyons
[Signature]
James L. Stinson
Commissioners

Appendix A

List of Appearances

FOR APPLICANT

John Ormasa, K. R. Edsall, C. Robert Salter, and Rufus W. McKinney, for Southern California Gas Company, Southern Counties Gas Company of California and Pacific Lighting Service Company.

FOR PROTESTANT

Lorenzo Foster, for Los Angeles Neighborhood Legal Services and Mrs. Shirley Goldinger, for Association of California Consumers.

FOR INTERESTED PARTIES

Chickering & Gregory by Sherman Chickering, C. Hayden Ames and Donald J. Richardson, Jr., for San Diego Gas & Electric Company; Stanley Jewell, Esq., Vice President and General Attorney, for San Diego Gas & Electric Company; Rollin E. Woodbury, Harry W. Sturges, Jr., William E. Marx and William Seaman, for Southern California Edison Company; Roger Arnebergh, City Attorney, by Charles E. Mattson, Deputy City Attorney, for City of Los Angeles; A. H. Driscoll, Assistant City Attorney, and J. O. Russell, for City of Los Angeles, Department of Water & Power; John W. Witt, City Attorney, and Curtis M. Fitzpatrick, Chief Deputy City Attorney, for City of San Diego; Captain James Pleyte, Attorney at law, for Department of Defense and other interested federal agencies; John J. O'Connor, Attorney at law, for City of Glendale; Stuart R. Foutz, Attorney at law, for Southwest Division, Naval Facilities Engineering Command; J. K. Stanners and Charles S. Doskow, for Thatcher Glass Manufacturing Company, division of Dart Industries, Inc.; K. L. Parker, for City of Glendale; Broebeck, Phleger & Harrison by Gordon E. Davis, for California Manufacturers Association; Robert W. Russell, Chief Engineer and General Manager, for Department of Public Utilities & Transportation, City of Los Angeles; J. Randolph Elliott, Attorney at law, for California Portland Cement Company; Henry F. Lippitt, 2d, Attorney at law, for California Gas Producers Association;

APPENDIX A (Cont'd)

List of Appearances

FOR INTERESTED PARTIES (Cont'd)

Louis Possner, Bureau of Franchises and Public Utilities, Edward C. Wright, Long Beach Gas Department, Harold A. Lingle, Deputy City Attorney, L. L. Bendinger and Roy A. Wehe, Consulting Engineer, for City of Long Beach; Knapp, Gill, Hibbert & Stevens by Karl K. Roos, and Arthur H. Sulliger, for Valley Nitrogen Products, Inc.; J. Anthony Bryan, for City of Glendale; Robert F. Smith and Walter C. Leist, for Union Carbide Corporation; H. Gary Jeffries, Deputy City Attorney, for City of Pasadena; Kenneth N. Lounsbery, for City of San Diego; William L. Knecht, for California Farm Bureau Federation.

FOR THE COMMISSION STAFF

Elinore C. Morgan and Gary L. Hall, Counsels; Bruno A. Davis and Raymond E. Heytens.

Appendix B

Pacific Lighting Service Company

SUMMARY OF EARNINGS

Test Year 1970 - Cost of Service Tariff

Item	At	At
	4.50% Rate of Return ^{1/}	7.75% Rate of Return ^{2/}

(Dollars in Thousands)

Operating Revenues

Gas Sales	\$193,249	\$200,012
Other	<u>2,249</u>	<u>2,249</u>
Total	195,498	202,261

Operating Expenses

Production	177,345	177,345
Storage	1,328	1,328
Transmission	3,455	3,455
Distribution	-	-
Customer Accounts	-	-
Sales	-	-
Administrative & Gen.	<u>2,577</u>	<u>2,584</u>
Subtotal	184,705	184,712
Depreciation	3,522	3,522
Taxes	<u>2,747</u>	<u>6,236</u>
Total Oper. Exp.	190,947	194,470

Net Revenue	4,524	7,791
-------------	-------	-------

Rate Base	100,535	100,535
-----------	---------	---------

Rate of Return	4.50%	7.75%
----------------	-------	-------

^{1/} Weighted average rate of return of Southern California Gas Company and Southern Counties Gas Company of California at gas rates in effect 12-25-69.

^{2/} Weighted average rate of return of Southern California Gas Company and Southern Counties Gas Company of California at gas rates authorized by Decision No. 77975 in Application No. 51567 and Decision No. 77976 in Application No. 51568.

APPENDIX C
Page 1 of 15

RATES - SOUTHERN CALIFORNIA GAS COMPANY

TERRITORY - Within former Southern California Gas Company service area.

Applicant's rates, charges, conditions, and rate areas are changed to the level or extent set forth in this appendix.

PART I - RATES AUTHORIZED, EXCLUDING TRACKING
SUBSEQUENT TO DECEMBER 25, 1969

FIRM NATURAL GAS SERVICE

Delete Schedule No. G-7. (Customers transferred to Schedule No. G-6.)

[illegible]

* For "space heating only" customers a monthly minimum charge of twice this amount applies during the November through April billing periods. For the May through October billing periods the rate for the next 28 thermal units will apply also to the first 2 thermal units and, except for closing bills, usage will be accumulated to at least 11 thermal units before billing. The term "space heating only" applies to customers who are using gas primarily for space heating for human comfort, as determined by survey or under the presumption that customers who use less than 11 thermal units per month during each of the regular billing periods ending in August and September are using gas primarily for space heating for human comfort.

Credit for Continuous Service: Delete these rate adjustments.

[illegible]

APPENDIX C
Page 2 of 15

FIRM NATURAL GAS SERVICE - (Continued)

TERRITORY

The following rate areas are rezoned to lower rate levels as indicated:

<u>Rate Area</u>	<u>Rate Zone</u>	
	<u>From</u>	<u>To</u>
11 Lancaster - Palmdale	G-5	G-4
122 Imperial Valley District	G-7	G-6
301 Delano - McFarland	G-5	G-4
401 Earlimart	G-5	G-4
411 Woodlake	G-5	G-4
417 Kingsburg	G-5	G-4

The following rate areas are enlarged as described below:

109 Corona-Le Sierra. This rate area to be expanded northerly to include the adjacent portion of Riverside County bounded on the north by the Santa Ana River from the point of intersection of the center line of the Santa Ana River with the southerly prolongation of Mann Avenue in T-2-S, R-6-W, S.B.B.&M.; southwesterly, along said center line of the Santa Ana River to its intersection with the center line of the A.T. & S.F. Ry. R/W in T-3-S, R-8-W, S.B.B.&M.

115 Palm Springs. This rate area to be expanded southeasterly, to include the adjacent portion of Riverside County encompassed by a boundary beginning at the southwest corner of Section 3, T-5-S, R-5-E, S.B.B.&M; thence southerly along the west line of Section 10 to its southwest corner; thence easterly along the south line of Section 10 to its southeast corner; thence southerly along the west line of Section 14 to its southwest corner; thence easterly along the south line of Section 14 to its southeast corner; thence southerly along the west lines of Sections 24, 25 and 36, and Section 1, T-6-S, R-5-E to the southwest corner of Section 1; thence easterly along the south lines of Section 1 and Sections 6, 5, 4, 3 and 2 of T-6-S, R-6-E to the southeast corner of Section 2; thence southerly along the west lines of Sections 12 and 13 to the southwest corner of Section 13; thence easterly along the south line of Section 13 to its southeast corner; thence northerly along the east line of Section 13 to its northeast corner; thence easterly along the south lines of Sections 7 and 8, T-6-S, R-7-E to the center line of the Coachella Canal; thence northerly, easterly, and northeasterly along said center line to the east line of Section 4; thence north along said east line and the west property line of Madison Avenue to the center line of Southern Pacific Railroad right-of-way in Section 16, T-5-S, R-7-E; thence northwesterly along the center line of the Southern Pacific Railroad right-of-way to its intersection with the east line of the W $\frac{1}{2}$ of Section 10, T-4-S, R-5-E, S.B.B.&M.

APPENDIX C
Page 3 of 15

FIRM NATURAL GAS SERVICE - (Continued)

SPECIAL CONDITIONS

Delete Special Conditions 1, 2, 3 and 5.

Revise Special Condition 4 to the following:

If the owner, lessee or operator of apartments or multiple dwellings served by four or more meters billed separately under this schedule (exclusive of meters supplying gas for space heating only) obligates himself to pay all bills for gas service furnished thereto, then no minimum charge will be made and no bill shall be rendered for gas delivered through any such meter until at least 2 thermal units of gas have been so delivered after commencement of service or since the last billing date, as the case may be. The company shall not be required, under the provisions of this paragraph, to turn off or turn on meters when individual family dwellings are vacated or reoccupied.

OPTIONAL RESIDENTIAL FIRM NATURAL GAS SERVICE

RATES

Per Meter Per Month
G-10

Commodity Charge:

First 2 thermal units or less:

In rate areas where Schedules G-1, G-2, G-3 or G-4 applies \$ 1.80

In rate areas where Schedules G-5 or G-6 applies 2.00

Over 2 thermal units, per thermal unit 11.506¢

Minimum Charge:

The minimum charge is the charge for the first 2 thermal units or less.

APPLICABILITY

Applicable to firm natural gas service for use in family dwelling units.

SPECIAL CONDITIONS

1. A customer may transfer from this schedule to another firm natural gas service schedule at any time but, having done so, may not transfer back to Schedule G-10 for a period of 12 months.

APPENDIX C
Page 4 of 15

SPECIAL RATES FOR AIR CONDITIONING USAGESCHEDULES G-1 THROUGH G-6, G-8 AND G-9

		<u>Per Meter Per Month</u> <u>May through October</u>
First	100 thermal units, per unit	5.846¢
Next	150 thermal units, per unit	5.106
Next	250 thermal units, per unit	4.656
Next	1,500 thermal units, per unit	4.286
Next	8,000 thermal units, per unit	3.946
Over	10,000 thermal units, per unit	3.846

Upon application, customers who have installed and are using gas air conditioning equipment will be billed under the air conditioning rate for monthly consumption up to 53 thermal units per rated full ton of such equipment, provided that the first 2 thermal units of the total monthly consumption shall be billed at the rate applicable to regular usage.

GAS ENGINE NATURAL GAS SERVICE

Delete Schedule No. G-47 (Customers transferred to Schedule No. G-45).

RATESPer Meter Per Month
G-45

Commodity Charge:

First	250 thermal units, per thermal unit	6.508¢
Next	1,750 thermal units, per thermal unit	5.628
Next	8,000 thermal units, per thermal unit	5.028
Over	10,000 thermal units, per thermal unit	4.738

APPLICABILITY

Applicable to firm service for stationary internal combustion engines only.

APPENDIX C
Page 5 of 15

INTERRUPTIBLE NATURAL GAS SERVICE

Delete Schedules Nos. G-52, G-52T and G-52U. (G-52 customers transferred to Schedule G-50 and Schedule G-52U customers transferred to Schedule G-50T. There are no customers on Schedule G-52T.

SCHEDULE NO. G-50RATES

Commodity Charge:

First	2,000 thermal units, per thermal unit	5.4946
Next	8,000 thermal units, per thermal unit	5.064
Next	20,000 thermal units, per thermal unit	4.874
Next	30,000 thermal units, per thermal unit	4.693
Next	40,000 thermal units, per thermal unit	4.513
Next	100,000 thermal units, per thermal unit	4.373
Over	200,000 thermal units, per thermal unit	4.263

Per Meter Per Month
G-50

SPECIAL RATE FOR AIR CONDITIONING USAGE:

First	2,000 thermal units, per thermal unit	4.0906
Next	8,000 thermal units, per thermal unit	3.720
Over	10,000 thermal units, per thermal unit	3.630

Per Meter Per Month
May through October

Upon application, customers who have installed and are using gas air conditioning equipment will be billed under the air conditioning rate for monthly consumption up to 53 thermal units per rated full ton of such equipment.

SCHEDULE NO. G-50TRATES

Commodity Charge:

First	440,000 therms, per therm	4.22766
Next	660,000 therms, per therm	4.0986
Over	1,100,000 therms, per therm	3.9386

Per Meter Per Month
G-50T

For gas served to steam-electric generating plants in the Imperial Valley District, the foregoing rates shall be reduced 0.09 cent per therm in all blocks.

SPECIAL RATE FOR AIR CONDITIONING USAGE:

First	11,000 therms, per therm	3.56264
Over	11,000 therms, per therm	3.4226

Per Meter Per Month
May through October

Upon application, customers who have installed and are using gas air conditioning equipment will be billed for the first portion of total monthly consumption during billing periods ending in the months of May to October, inclusive, up to 55 therms per rated full ton of such equipment.

APPENDIX C
Page 6 of 15

INTERRUPTIBLE NATURAL GAS SERVICE - (Continued)

SCHEDULE NO. G-53

RATES

Per Meter Per Month
G-53

Commodity Charge:

First 50,000 thermal units, per thermal unit
Next 50,000 thermal units, per thermal unit
Next 100,000 thermal units, per thermal unit
Over 200,000 thermal units, per thermal unit

4.794¢
4.483
4.243
4.083

SPECIAL RATE FOR AIR CONDITIONING USAGE:

Per Meter Per Month
May through October

First 2,000 thermal units, per thermal unit
Next 8,000 thermal units, per thermal unit
Over 10,000 thermal units, per thermal unit

4.090¢
3.720
3.630

Upon application, customers who have installed and are using gas air conditioning equipment will be billed under the air conditioning rate for monthly consumption up to 53 thermal units per rated full ton of such equipment.

SCHEDULE NO. G-53T

RATES

Per Meter Per Month
G-53T

Commodity Charge:

First 440,000 therms, per therm
Next 660,000 therms, per therm
Over 1,100,000 therms, per therm

3.8426¢
3.5726
3.4326

SPECIAL RATE FOR AIR CONDITIONING USAGE:

Per Meter Per Month
May through October

First 11,000 therms, per therm
Over 11,000 therms, per therm

3.5627¢
3.4227

Upon application, customers who have installed and are using gas air conditioning equipment will be billed for the first portion of total monthly consumption during billing periods ending in the months of May to October, inclusive, up to 55 therms per rated full ton of such equipment.

UTILITY STEAM-ELECTRIC GENERATING STATION AND CEMENT PLANT RETAIL NATURAL GAS SERVICE

SCHEDULE NO. G-54

RATES

Base Rates Per Mcf
Winter Summer

Commodity Charge:

All gas
First 10 Mcf per month per Mcf of contract volumetric rate
Next 10 Mcf per month per Mcf of contract volumetric rate
Next 10 Mcf per month per Mcf of contract volumetric rate
Excess over above volumes

36.320¢
40.920¢
37.920
34.920
37.420

APPENDIX C
Page 7 of 15

OPTIONAL GUARANTEED LONG-TERM ASSURED ANNUAL SUPPLY NATURAL GAS SERVICE FOR
UTILITY STEAM-ELECTRIC GENERATING STATIONS

SCHEDULE NO. G-55

RATES

Commodity Charge:

Summer Period:

First 5,400,000 therms per month

Effective Rates Per Therm
"A" Rates "S" Rates

3.2643¢ 3.4253¢

Over 5,400,000 therms per month

3.2643 3.3613

Winter Period:

Basic Gas

3.2643¢ 3.4253¢

Excess Gas

3.0593 3.0593

OPTIONAL LONG-TERM INTERRUPTIBLE NATURAL GAS SERVICE TO CEMENT PLANTS

SCHEDULE NO. G-56

RATES

Commodity Charge:

Summer Period: All gas

Effective Rates Per Therm
"A" Rates "S" Rates

3.1193¢ 3.2703¢

Winter Period: Basic gas

3.1193 3.2703

Excess gas

3.0593 3.0593

NATURAL GAS FUEL FOR UTILITY ELECTRIC GENERATION

SCHEDULE NO. G-58

RATES

The rate for all gas supplied under this schedule is 32.243¢ per million Btu.

RESALE NATURAL GAS SERVICE

SCHEDULE NO. G-60

RATES

Deliveries of Contract Demand Gas:

Monthly Demand Charge, per Mcf of daily contract demand

\$3.562

Commodity Charge, per therm

2.9649¢

Deliveries of Additional Peaking Demand Gas

Minimum Annual Charge for additional peaking demand

\$122,500

APPENDIX C
Page 8 of 15

PART II - RATES AUTHORIZED INCLUDING TRACKING INCREASES
THROUGH JULY 2, 1970

FIRM NATURAL GAS SERVICE

Delete Schedule No. G-7. (Customers transferred to Schedule No. G-6.)

RATES	Per Meter Per Month			
	G-1	G-2	G-3	G-4
Commodity Charge:				
First 2 TU or less	\$2.75238*	\$2.75238*	\$2.80238*	\$2.85238*
Next 28 TU, per TU	8.247¢	8.437¢	8.627¢	8.817¢
Next 970 TU, per TU	7.294	7.493	7.684	7.844
Next 2,000 TU, per TU	7.007	7.007	7.007	7.007
Next 17,000 TU, per TU	6.567	6.567	6.567	6.567
Over 20,000 TU, per TU	6.207	6.207	6.207	6.207

	: Per Meter Per Month			
	G-5	G-6	G-8	G-9
First 2 TU or less	\$2.90238*	\$3.00238*	\$4.00238*	\$4.00238*
Next 28 TU, per TU	9.007¢	9.387¢	12.037¢	10.677¢
Next 970 TU, per TU	8.044	8.464	8.657	8.557
Next 2,000 TU, per TU	7.007	7.007	7.007	7.007
Next 17,000 TU, per TU	6.567	6.567	6.567	6.567
Over 20,000 TU, per TU	6.207	6.207	6.207	6.207

* For "space heating only" customers a monthly minimum charge of twice this amount applies during the November through April billing periods. For the May through October billing periods the rate for the next 28 thermal units will apply also to the first 2 thermal units and, except for closing bills, usage will be accumulated to at least 11 thermal units before billing. The term "space heating only" applies to customers who are using gas primarily for space heating for human comfort, as determined by survey or under the presumption that customers who use less than 11 thermal units per month during each of the regular billing periods ending in August and September are using gas primarily for space heating for human comfort.

Credit for Continuous Services: Delete these rate adjustments.

[illegible]

APPENDIX C
Page 9 of 15

FIRM NATURAL GAS SERVICE - (Continued)

TERRITORY

The following rate areas are rezoned to lower rate levels as indicated:

<u>Rate Area</u>	<u>Rate Zone</u>	
	<u>From</u>	<u>To</u>
11 Lancaster - Palmdale	G-5	G-4
122 Imperial Valley District	G-7	G-6
301 Delano - McFarland	G-5	G-4
401 Earlimart	G-5	G-4
411 Woodlake	G-5	G-4
417 Kingsburg	G-5	G-4

The following rate areas are enlarged as described below:

109 Corona-La Sierra. This rate area to be expanded northerly, to include the adjacent portion of Riverside County bounded on the north by the Santa Ana River from the point of intersection of the center line of the Santa Ana River with the southerly prolongation of Mann Avenue in T-2-S, R-6-W, S.B.B.&M. southwesterly, along said center line of the Santa Ana River to its intersection with the center line of the A.T.&S.F. Ry. R/W in T-3-S, R-8-W, S.B.B.&M.

115 Palm Springs. This rate area to be expanded southeasterly, to include the adjacent portion of Riverside County encompassed by a boundary beginning at the southwest corner of Section 3, T-5-S, R-5-E, S.B.B.&M.; thence southerly along the west line of Section 10 to its southwest corner; thence easterly along the south line of Section 10 to its southeast corner; thence southerly along the west line of Section 14 to its southwest corner; thence easterly along the south line of Section 14 to its southeast corner; thence southerly along the west lines of Section 24, 25 and 36, and Section 1, T-6-S, R-5-E to the southwest corner of Section 1; thence easterly along the south lines of Section 1 and Sections 6, 5, 4, 3 and 2 of T-6-S, R-6-E to the southeast corner of Section 2; thence southerly along the west lines of Sections 12 and 13 to the southwest corner of Section 13; thence easterly along the south lines of Section 13 to its southeast corner; thence northerly along the east lines of Section 13 to its northeast corner; thence easterly along the south lines of Sections 7 and 8, T-6-S, R-7-E to the center line of the Coachella Canal; thence northerly, easterly, and northeasterly along said center line to the east line of Section 4; thence north along said east line and the west property line of Madison Avenue to the center line of Southern Pacific Railroad right of way in Section 16, T-5-S, R-7-E; thence northwesterly along the center line of the Southern Pacific Railroad right of way to its intersection with the east line of the W $\frac{1}{2}$ of Section 10, T-4-S, R-5-E, S.B.B.&M.

APPENDIX C
Page 10 of 15

FIRM NATURAL GAS SERVICE - (Continued)

SPECIAL CONDITIONS

Delete Special Conditions 1, 2, 3 and 5.

Revise Special Condition 4 to the following:

If the owner, lessee or operator of apartments or multiple dwellings served by four or more meters billed separately under this schedule (exclusive of meters supplying gas for space heating only) obligates himself to pay all bills for gas service furnished thereto, then no minimum charge will be made and no bill shall be rendered for gas delivered through any such meter until at least 2 thermal units of gas have been so delivered after commencement of service or since the last billing date, as the case may be. The company shall not be required, under the provisions of this paragraph, to turn off or turn on meters when individual family dwellings are vacated or reoccupied.

OPTIONAL RESIDENTIAL FIRM NATURAL GAS SERVICE

RATES

Per Meter Per Month
G-10

Commodity Charge:

First 2 thermal units or less:

In rate areas where Schedules G-1, G-2, G-3 or G-4 applies \$ 1.80238

In rate areas where Schedules G-5 or G-6 applies 2.00238

Over 2 thermal units, per thermal unit 11.625¢

Minimum Charge:

The minimum charge is the charge for the first 2 thermal units or less.

APPLICABILITY

Applicable to firm natural gas service for use in family dwelling units.

APPENDIX C
Page 11 of 15

OPTIONAL RESIDENTIAL FIRM NATURAL GAS SERVICE - (Continued)

SPECIAL CONDITIONS

1. A customer may transfer from this schedule to another firm natural gas service schedule at any time but having done so, may not transfer back to Schedule G-10 for a period of 12 months.
2. Contingent Offset Charges
The rates include offset charges as shown below related to increases and decreases in cost of gas from El Paso Natural Gas Company and Pacific Lighting Service Company (including California gas) as a result of F.P.C. Dockets Nos. RP69-6, RP69-20 and RP70-11 of El Paso Natural Gas Company and RP69-27 and RP70-19 of Transwestern Pipeline Company.

<u>F.P.C. Docket</u>	<u>Offset Charge</u>
RP69-6	0.297¢ per thermal unit
RP69-20	0.125¢ per thermal unit
RP69-27	0.112¢ per thermal unit
RP70-11	0.262¢ per thermal unit
RP70-19	0.268¢ per thermal unit

To the extent that the F.P.C. in these dockets orders reduction in the rates for El Paso or Transwestern gas with the resulting effect on cost of gas from the above noted sources, the offsets will be reduced related to the reduction in cost of gas from these sources.

3. Refunds of Contingent Offset Charges Related to F.P.C. Dockets Nos. RP69-6, RP69-20, RP69-27, RP70-11 and RP70-19

Refunds received from El Paso Natural Gas Company and Pacific Lighting Service Company as related to these dockets will be made to various classes in proportion to the contingent offset charges collected during the periods to which the refunds apply.

APPENDIX C
Page 12 of 15

SPECIAL RATES FOR AIR CONDITIONING USAGE
SCHEDULES G-1 THROUGH G-5, G-8 and G-9

		<u>Per Meter Per Month</u> <u>May through October</u>
First	100 thermal units, per unit	5.965¢
Next	150 thermal units, per unit	5.225
Next	250 thermal units, per unit	4.775
Next	1,500 thermal units, per unit	4.405
Next	8,000 thermal units, per unit	4.065
Over	10,000 thermal units, per unit	3.965

Upon application, customers who have installed and are using gas air conditioning equipment will be billed under the air conditioning rate for monthly consumption up to 53 thermal units per rated full ton of such equipment, provided that the first 2 thermal units of the total monthly consumption shall be billed at the rate applicable to regular usage.

GAS ENGINE NATURAL GAS SERVICE

Delete Schedule No. G-47 (Customers transferred to Schedule No. G-45).

RATES

Commodity Charge:

		<u>Per Meter Per Month</u> <u>G-45</u>
First	250 thermal units, per thermal unit	6.592¢
Next	1,750 thermal units, per thermal unit	5.712
Next	8,000 thermal units, per thermal unit	5.112
Over	10,000 thermal units, per thermal unit	4.822

APPLICABILITY

Applicable to firm service for stationary internal combustion engines only.

APPENDIX C
Page 13 of 15

INTERRUPTIBLE NATURAL GAS SERVICE

Delete Schedules Nos. G-52, G-52T and G-52U. (G-52 customers transferred to Schedule G-50 and G-52U customers transferred to Schedule G-50T or 53T. There are no customers on Schedule G-52T.)

SCHEDULE NO. G-50

RATES

Per Meter Per Month
G-50

Commodity Charge:

First	2,000 thermal units, per thermal unit	5.578¢
Next	8,000 thermal units, per thermal unit	5.148
Next	20,000 thermal units, per thermal unit	4.958
Next	30,000 thermal units, per thermal unit	4.777
Next	40,000 thermal units, per thermal unit	4.597
Next	100,000 thermal units, per thermal unit	4.457
Over	200,000 thermal units, per thermal unit	4.347

Special Rate for Air Conditioning Usage:

May through October:

First	2,000 thermal units, per thermal unit	4.174¢
Next	8,000 thermal units, per thermal unit	3.804
Over	10,000 thermal units, per thermal unit	3.714

Upon application, customers who have installed and are using gas air conditioning equipment will be billed under the air conditioning rate for monthly consumption up to 53 thermal units per rated full ton of such equipment.

SCHEDULE NO. G-50T

RATES

Per Meter Per Month
G-50T

Commodity Charge:

First	440,000 therms, per therm	4.3120¢
Next	660,000 therms, per therm	4.1830
Over	1,100,000 therms, per therm	4.0230

For gas served to steam-electric generating plants in the Imperial Valley District, the foregoing rates shall be reduced 0.09 cent per therm in all blocks.

Special Rate for Air Conditioning Usage:

May through October:

First	11,000 therms, per therm	3.647¢
Over	11,000 therms, per therm	3.507

Upon application customers who have installed and are using gas air conditioning equipment will be billed for the first portion of total monthly consumption during billing periods ending in the month of May to October, inclusive, up to 55 therms per rated full ton of such equipment.

APPENDIX C
Page 14 of 15

INTERRUPTIBLE NATURAL GAS SERVICE - (Continued)

SCHEDULE NO. G-53

RATES

Per Meter Per Month
G-53

Commodity Charge:

First 50,000 thermal units, per thermal unit	4.878¢
Next 50,000 thermal units, per thermal unit	4.567
Next 100,000 thermal units, per thermal unit	4.327
Over 200,000 thermal units, per thermal unit	4.167

Special Rate for Air Conditioning Usage:

May through October:

First 2,000 thermal units, per thermal unit	4.174¢
Next 8,000 thermal units, per thermal unit	3.804
Over 10,000 thermal units, per thermal unit	3.714

Upon application, customers who have installed and are using gas air conditioning equipment will be billed under the air conditioning rate for monthly consumption up to 53 thermal units per rated full ton of such equipment.

SCHEDULE NO. G-53T

RATES

Per Meter Per Month
G-53T

Commodity Charge:

First 440,000 therms, per therm	3.927¢
Next 660,000 therms, per therm	3.657
Over 1,100,000 therms, per therm	3.517

Special Rate for Air Conditioning Usage:

May through October:

First 11,000 therms, per therm	3.6471¢
Over 11,000 therms, per therm	3.5071

Upon application, customers who have installed and are using gas air conditioning equipment will be billed for the first portion of total monthly consumption during billing periods ending in the months of May to October, inclusive, up to 55 therms per rated full ton of such equipment.

UTILITY STEAM-ELECTRIC GENERATING STATION AND CEMENT PLANT RETAIL NATURAL GAS SERVICE

SCHEDULE NO. G-54

RATES

Base Rates per Mcf
Winter Summer

Commodity Charge:

All gas	38.629¢
First 10 Mcf per month per Mcf of contract volumetric rate	41.229¢
Next 10 Mcf per month per Mcf of contract volumetric rate	38.229
Next 10 Mcf per month per Mcf of contract volumetric rate	35.229
Excess over above volumes	37.729

APPENDIX C
Page 15 of 15

OPTIONAL GUARANTEED LONG-TERM ASSURED ANNUAL SUPPLY NATURAL GAS SERVICE FOR
UTILITY STEAM-ELECTRIC GENERATING STATIONS

SCHEDULE NO. G-55

RATES

Commodity Charge:

Summer Period:

First 5,400,000 therms per month

Over 5,400,000 therms per month

Winter Period:

Basic Gas

Excess gas

Effective Rates Per Therm
"A" Rates "S" Rates

3.2923¢	3.4533¢
3.2923	3.3893
3.2923	3.4533
3.0873	3.0873

OPTIONAL LONG-TERM INTERRUPTIBLE NATURAL GAS SERVICE TO CEMENT PLANTS

SCHEDULE NO. G-56

RATES

Commodity Charge:

Summer Period:

All gas

Winter Period:

Basic gas

Excess gas

Effective Rates Per Therm
"A" Rates "S" Rates

3.1473¢	3.2983¢
3.1473	3.2983
3.0873	3.0873

NATURAL GAS FUEL FOR UTILITY ELECTRIC GENERATION

SCHEDULE NO. G-58

RATES

The rate for all gas supplied under this schedule is 32.523¢ per million Btu.

RESALE NATURAL GAS SERVICE

SCHEDULE NO. G-60

RATES

Deliveries of Contract Demand Gas:

Monthly Demand Charge, per Mcf of daily contract demand

\$3.608

Commodity Charge, per therm

3.0351¢

Deliveries of Additional Peaking Demand Gas:

Minimum annual charge for additional peaking demand

\$122,500