APR 2 8 1982

Decision

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BEFORE THE PUBLIC UTILITIES COMMISSION OF THE STATE OF CALIFORNIA

In the Matter of the Application of San Diego Gas & Electric Company for ) Authority to Increase its Electric Rates and Charges, to Establish an Annual Energy Rate and to Make Certain Other Rate Changes in Accordance with the Energy Cost Adjustment Clause as Modified by Decision 92496.

Application 60865 (Filed September 4, 1981; amended November 6, 1981)

(Appearances attached as Appendix A)

## INTERIM OPINION

#### PROCEDURAL HISTORY

San Diego Gas & Electric Company (SDG&E) filed this application on September 4, 1981, seeking a rate decision by the November 1 revision date established for SDG&E. This application is SDG&E's first Energy Cost Adjustment Clause (ECAC) reasonableness review filing under the procedures established by Decision (D.) 92496 issued in Order Instituting Investigation (OII) 56. When it became apparent that hearings would not be held by the revision date, SDG&E filed an amended application on November 6, 1981, ten days in advance of the November 16, 1981 hearing date. As authority to file such an amendment, SDG&E cites D.93628 issued in Pacific Gas & Electric Company's (PG&E's) ECAC reasonableness application which encouraged PG&E and the other utilities to amend their applications if hearings would not be held by the revision date.

In the amended application, SDG&E asked the Commission to adopt a January 1, 1982 implementation date for the Annual Energy Rate (AER) and to determine that rate on a ten-month (January 1, 1982 through October 31, 1982) basis At the November 16 hearing, the moon commission staff (staff) disclosed that its review of the recently filed amendment would not be completed until the latter half of more December 1981. Further hearings were held on December 22 and 230 1981.

set in this application for the purpose of establishing an attainable implementation date for the AER and allowing SDG&E to forgo its consome March 1, 1982 ECAC revision date filing. SDG&E proposed to consider the effect of the March filing in the further hearings by requesting the Commission to implement an AER without any increase in total electric rates. This petition was granted by the administrative law judge (ALJ) on January 24, 1982. On February 22, 1982. a further hearing was held in which both SDG&E and staff presented AER proposals based on the period April 17, 1982 through October 31, 1982. In addition, both SDG&E and staff proposed that ECAC rates be decreased so the AER could be implemented with no change in total electric rates.

The application was submitted on February 22, 1982, pending receipt of concurrent briefs on March 8, 1982, Briefs, were filed by SDG&E, staff, and the Cityxof San Diego (San Diego) We are now prepared to issue acceptance for a local constance.

Ey today's decision we will establish at AER for SDG4E to allow macovery of costs associated with the aboversesses associated with the aboversesses associated.

D.92496 declared the Commission's intention to review on an annual basis the reasonableness of each utility's fuel-related expenses booked in the ECAC balancing account. The record period for the annual ECAC balancing account reasonableness review is presented typically the 12 months ending as of the preceding revision date composition. Since SDG&E originally filed this application to meet its

ಇಲ್ಲಿ ಎಲ್ಡಲ್ಲು 88%.0 ಕಿಂ REA ಡೂ ಕಿಂ ಶದಲಾಗ್ಯಾಚಿರುತರು ನಿನಲಿಲಾ ಅತಿರಿC8 ಇದುಂದಲ್ಲಿಗಾರು ಅದೆರದಂದ ದಾಳಲಾ ಇಲ್ಲರು 11% ಗೆರುಗೆಳು (ದೆಳಿಸ್√ಳಿ) ಇಲಂದೆ ಶರುಕಳುಮಿಸ್ November 1981, revision date, the record period for review owned protein normally cover the 12 months ending June 30, 1991. However pothis other reasonableness review scrutinizes; SDG&E; scoperations and texpenses mmoo from January 1, 1980 through June 30, 1981 This unusual of 8 month 113 period was addressed to reflect the fact that the Commission had mose previously authorized SDG&E to delay filing of its report on the reasonableness of its fuel-related expenses for approximately six so months so that it would coincide with the November ECAC reasonableness March 1, 1982 ECAC revision date filter. SDG%E proposes policial water The state of the Market of the stated and the problem of the second of t \_\_\_\_"We\_consider, that and appropriate balance of wish is a modern of the and incentive is created by permitting the Trainclusion of 98% of otherwise recoverable fuel cores of the expenses in ECAC, with the gremaining 2% of suchia of suchia of suchia expenses to be estimated on a forward looking and and and a basis-once-each year in the course of each utility's annual review of the reasonableness alsaogorg REA of fuel expenses..."

See a second constant and second The decision established the AER which incorporated the following of control of the decision established the AER which incorporated the following of the control of the decision of the control of the co Olectric retes.

Von value of the charges and forgatmilar sexpenses stands the case to see by

3. Carrying costs of fuel oil incinventory bunks of beasquag By today's decision we will establish an AER for SDG&E to allow recovery of costs associated with the above-referenced elements. no worspokers confront rates are as follows:

an annual, basis them was ababeacs of each utilizer of the functions bolizog broder off Base Rate parons EcAC Rate of a Total Rate Domestic Lifeline capacidates on a decopos 420000 DADE Lauras of tack Domestic Nonlifeline participation to as which address 1121635 Listing Nondomestie cor reem or noiteoralges arange to the Malanipino EwoCS sonis

SDG&E seeks establishment of an AER of 0.453 cents per kilowatt hour (¢/kWh) which will cover seven months commencing

## $\lambda,\ raket$ Undistributed Rational Kinga Instance

April 1, 1982 and which will generate estimated revenues of \$24.96 million. Furthermore, SDG&E proposes, and staff concurs, that base rates and ECAC rates should be decreased so that the AER can be implemented with no change in total electric rates. Accordingly, SDG&E requests%the%following%rateorevisionsto %2 instead of just fossil fuels and nuclear expense is appropriate.

3. Revision dates for SDG4D BOAG proceedures as set forch in tawakkep will not be chanced

Proposed Base Rate Proposed ECAC Proposed Proposed AER Rate Reduction Base Rate Decrease ECAC Rate Total Rate  $\overline{(a)+(c)+(e)}$ 

AER rates will be unaffected. Domestic 8.980 Lifeline 1110, 453, 577 0, 303, 5074, 6775, 501, 0, 150 org 3.850 not be subject to the newly instituted allerations of

Nonlifeline 0:45355 70.303509M 44.67732155A 0.71509V0A 7.505 12.635

4 ನಿರ್ಮ 3 SDG002 ಗ್ರಾಯಿಕೆ ಸಂಕ ಕೆಟ್ಟಿಂ ನಿರ್ವಹಿಸ್ತಿಗಳು ರತಿನಾಣಕ್ಕಳ ೩, 1983 ಕಂ ಸಂಗಾರಂ ಕರಿಂ ಸಹಿನ ನಿರ್ವಹಿಸಿ ನಿರ್ವ Nondomestic new ABR retes are set on a about the

Souther staff proposes an AER of 0559816/kWhiwhich will also cover the seven-month periods commencing Aprilo1: 1982 and which will generate estimated revenues; of \$321961 milldon: Staff&s recommended rate re--ofsingondes or visions are as follows:

A recalculation of energy expenses made by SDG&B ds e result <del>(fwx/s</del>nuary low Sulfur Fuel Oll (LSFO) costs remained to contain the same of the same shan

Proposed Proposed ni boproposed Proposed Tobas fas AER Rate as 18 Ba'se Rate as ECAC Rate .? Total Rate the existing ECAC procedures of two lesses on Domestic Lifelinesup Octo 9800 yours 4.6770022 To 932705dd 8.980 is appropriate. 12.635

As with SDG&E's proposal, adoption of the staff recommendation would result in no change to SDG&E's total electric rate.

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## A. Undisputed Ratemaking Issues

The staff and SDG&E concurred on the following issues and

- recommendations:
  1. The net-to-gross multiplier developed by the staff is appropriate:
  1. The net-to-gross multiplier developed by the staff is appropriate:

  1. The net-to-gross multiplier developed by the staff is appropriate:
  - 12 25 0 dise of all energy costs in calculating the lame of ast 2% of cenergy: costsqueedwingtherAERcrategor 20002 . winha instead of just fossil fuels and nuclear expense is appropriate.
- 3. Revision dates for SDG&E ECAC proceedings as set forth in D192496 will not be changed as a result of the April 1 revision date used for setting the AER in this case.
  - 4. The differential in rates between lifeline and nonlifeline residential rates is to be maintained through ECAC rates only; base and AER rates will be unaffected.
    - pittetmoC 5. The revenues collected under the AER will | oallolld not be subject to the newly instituted Electric in a moc Revenues Adjustment Mechanism (ERAM) ...
- January 1, 1983 to revise the AER as long as new AER rates are set on or about the November 1, 1982 revision date and provide for inclusion of the rate of return authorized Spot to the live of for SDG&ES in the 1983 attrition allowances com-moves of the
  - were submarted by SDG&Est Section calculated by SDG&Est Section sec is appropriate. vistone are ar follows:
    - A recalculation of energy expenses made by SDG&E as a result of January Low Sulfur Fuel Oil (LSFO) costs being 62 cents lower than forecasted is appropriate. Proposed
  - 9. Inclusion in the ECAC balancing account under the existing ECAC procedures of two losses on the sale of LSFO in January and February: 1982; proposed is appropriate.
- 10. SDG&E's proposal to calculate rates by setting 210221 ECAC rates at the difference between current total rates and the sum of the adopted AER pidcomponed saural removes of rate, and other base, rate, after reduction for fuel

would result in no change to 3DGAE's total placeric rate.

Oil in inventory is appropriate. This results in no net change in total rates ration and sollo at broper and spain appropriate.

ll. Calculation of the AER on the basis of acommont seven

a\_ SDG&E(soperations) and expenses for the period

January 1980 through June 30, 1981 were reasonable. Louis

SDG&E testified that its\_strategy\_for\_resource\_utili-red ration is aimed at achieving the lowest\_cost\_fuel mix\_possible\_mediate pursuing this strategy, SDG&E is seeking\_in\_a\_separate\_proceeding\_load to include San Onofre Nuclear Generating\_Station\_Unit\_2\_in\_lits\_resource mix. Nuclear energy represents the lowest\_cost\_energy\_available to SDG&E. SDG&E purchases economy energy\_if\_the\_cost\_of\_that\_energy\_iss\_less than the incremental generating\_costs\_on\_its\_system\_of\_Inwaddition.

SDG&E constantly tries to contract\_for\_more\_firm\_purchased\_energy\_land\_to increase the amount of energy\_purchased\_under\_existing\_contracts\_load\_contracts\_

SDG&E's stated policy is to make maximum possible use but of natural gas, which has historically been less expensive thanvo sent residual fuel oil. Although oil supply considerations caused SDG&E to reject certain proffered gas supplies during nonparity periods; to did not reject any natural gas while parity, was and effect were vices.

SDG&E maintains that the excellent powers plant cheat rate achieved by its own generating units is another indicator of the draw efficiency of its operations. SDG&E notes that the staff engineers agree that SDG&E's recorded energy costs have been reasonable. In fact, SDG&E's fuel oil prices have been shown to compare very favorably with the fuel oil prices of the other California utilities. SDG&E

Oil in inventory is appropriated. This results in no net change in total

concludes that the record is clear that its policies and actions, given system constraints; produced the lowest posstble cost energy mix.

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within the total historical perspective will show that the recording perspective will show that the recording perspective will show that the recording period actions have been fully reasonable and appropriateous

Refinery Incorporated (HIRI) and Tesoro Alaska petroleum company no (Tesoro) go back as far as 1974. These-contracts were entered into at a time when the major concern of allacalifornia utilities was to obtain a reliable supply of fuel oil.

During the period 1977 through 1980 SDG&E s minimum fuel contract volumes were consistently less than the forecast oil burn. The staff engineer, who reviewed only from 1980 forward, reached the same conclusion. It is clear, therefore, that on a forward-looking basis, SDG&E s minimum contract volumes were not excessive. Only hindsight reveals that excesses did develop.

hindsight reveals that excesses did develop.

The excess fuel off situation which occurred during the record period in this proceeding had several causes. Warmer than average weather has been a principal cause of the excess. The period from 1977 through 1981 has been warmer than average, and the winter of 1980-8b was the second warmest winter in history. If average weather had existed, causing high-priority customers to use more of the gas that eventually was consumed in the power plants, the excess very well may not have occurred. A second reason for increased gas supplies was the Natural Gas Policy Act of 1978 (NGPA). The improvements in supply resulting from the NGPA created a firm supply of gas by 1980 which substantially exceeded past forecasts. Finally, conservation and the effect of increasing prices operated to reduce the requirement for fuel oil. The oil past for fuel oil and the requirement

agree that SDG4B's recorded anargy costs have been responsale. In fact, SDG4B's fuel oil prices have been shown to compare very feverably with the fuel oil prices of the otion California unilities. SDG48

Special responses to the above factors were made, under its policy to use all alternatives available to reduce oil supply of as long as an economic benefit to the electric ratepayer would result.

The first of these responses was to negotiate contract reductions and underlifts with both suppliers. SDG&E's contract with HIRI as ... of January 1, 1980, called for a minimum volume of 14,000 barrels per day (bbl./day). SDG&E reduced this minimum daily take to 10,000 bbl./day by arranging an underlift of 4,000 bbl./day for the period September 1981 through December 1981. An additional underlift of 6,000 bbl./day, reducing minimum contract takes to 8,000 bbl./day runs from January 1, 1982 through April 30, 1982. As of May 1, 1982 the minimum contract requirement from HIRI will remain at 8,000 bbl./day The sum of these contract reducwith no further underlift required. tions, from 14,000 bbl./day minimum to 8,000 bbl./day minimum, is block of process and power of process are process. a permanent contract reduction of 43%. This amount will be further ... reduced in 1986 when the HIRI contract minimum drops to 6,000 bbl /day. SDG&E submits that this is substantial evidence of aggressive actions to reduce contract quantities. SDGEE's minimum contract supply from Tesoro stood at a contract supply from the soro supply from th 16,000 bbl./day as of January 1, 1980. A contract reduction to 15,000 bbl./day occurred on January 1, 1981. In addition, several underlifts were made. Beginning January 1, 1981, an underlift of 3,000 bbl./day was negotiated through May of 1981 and later extended at the same level through September 1981. A reduction of 2,000 bbl./day The total was obtained for the period October through December 1981. underlifts achieved by SDG&E with both suppliers, some of which were made at no charge and others as a part of contract renegotiations, involved a total volume of approximately one and one-half million barrels at a cost of only about \$1.50 per barrel. When compared to the contract, a revised cost bacis for the cil supplied has been negotated.

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S6.00 per barrel underlift adopted for Southern California Edison Company (Edison) in D.93640 of October 20, 1981, covering substantially the same period, SDG&E sees its results as excellent. SDG&E has calculated that the supply reductions it obtained had a net benefit to its electric ratepayers of \$60.8 million in lower fuel costs. These reductions represent the maximum possible that its suppliers could achieve.

In addition to contract reductions and underlifts. SDG&E has pursued fuel oil sales to the fullest extent possible. During the record period, SDG&E sold 1,215,000 barrels of oil; and every transaction was made at a net benefit to the electric ratepayer. The total net benefit from SDG&E's fuel oil sales amounts to \$11,700,000.

Finally, in an effort to make maximum use of the additional volumes of natural gas which became available, SDG&B has held oil in its inventory above the amount allowed in rate base.

This practice has no costs for the ratepayer, although the stockholder must bear the carrying costs of the additional stored oil. While the record contains references to other options which SDG&B explored to reduce fuel oil volume, these have been the options which produced the greatest results in SDG&B's opinion.

Looking to the future, SDG&E asserts that its renegotiation of the HIRI contract has produced an outstanding new
contract. As previously mentioned, SDG&E was successful in
obtaining a 43% reduction in the minimum contract supply for the near
term. A further reduction to 6,000 bbl./day, or SDG&E's requirements
Ievel if it is lower, will begin in mid-1986. The new contract will
include the flexibility to receive up to 14,000 bbl./day should
conditions require it. Thus, SDG&E has ensured that it will not have
an oil excess after 1983.

In addition to the reduced volumes under the new HIRI contract, a revised cost basis for the oil supplied has been negotiated. The contract now calls for a "deemed crude slate" to be used to

determine the base cost of the residual oil supplied to SDG&E. The immediate effect of this new cost basis for the oil has been a reduction of approximately \$2.50 per barrel. Thus, SDG&E's oil costs, which have been shown already to be clearly reasonable, are assuredly so for the future. SDG&E has calculated the benefit from the reduced volumes and revised cost basis to be \$80 million in lower fuel costs than would have resulted under the prior contract.

Finally, SDG&E calls attention to an element in its supply agreement which provides for the contract price of of to be compared to SDG&E's cost of gas (Schedule G-61 from SoCal) oafter mid-1986. the G-61 cost of gas is less than the contract formula price of correct SDG&E:will be required to take only minimum contract Volumes from 0.218 HIRI. if they are offered at the lower gas price? Strange the chooses of the choo not to offer oil at the lower gas price as DG&E will be free to of a late to offer of the late the lower gas price as the late of the late to-the spot market if of locan be obtained there for less than the mitte Contract price. Conly if HIRI refuses to provide oil fat the Hower of the gas price and the spot market price is greater than the contract and price, would SDG&E order its ominimum cvolumes of of atothe contract tage rate Stathe record should be chear that the reduced volumes and lower me price formula that have been negotiated into the new contract with " HIRI are the minimum benefits which will accrue under that new contract. If this the future fithe G-6I frate to SDG&E Sis Clower athan the scontract of price, badditional bsavings will decruer one netamines sool also lie bas

contract: Current expectations are that the contract level will be an negotiated downward from 15,000 bbl./day to 12,500 bbl./day - a reduction of 2,500 bbl./day - by rolling barrels into future years. This reduction will be at no cost to the ratepayer and will not cause future volumes of oil supply to exceed expected requirements. The benefit which will accrue to the ratepayer if this negotiation is successful amounts to \$19 million in lower fuel costs.

SDG&E maintains that it has responded aggressively to see a constant of second of second of second of second of the changing circumstances, including weather and gas supply, by the changing circumstances, including weather and gas supply, by making significant reductions in its oil supply contracts at minimal cost to the ratepayers. SDG&E's actions to improve oil contract flexibility and price have assured that the threat of an excess oil supply situation after 1983 is negated. SDG&E submits that its actions the cost of the contract supply situation after 1983 is negated. SDG&E submits that its actions the cost of the contract shape accorded to the contract shape accorded to the contract shape accorded excellent results.

c. SDG&E's estimates of underlift charges and oil sale
losses for the forecast period are reasonable and
should continue to be recovered through its ECAC means.

grand For the forecast period LSDG&Ebestimates its underlift C2 charges to total \$2,035,000 and its losses on fuel oil sales to equal = \$15,000,000 \_\_\_\_\_\_SDG&E\_maintains that the staff afterpindependent work review, has adopted these costs, thowever, during the Rebruary 22, IRIE 1982 hearing, staff applied only 7/12ths of its previously adopted for estimate on the basis that the AER is now proposed to cover tags even - or rather than the originally contemplated 12-month period. SDG&E holds that this position distinappropriate . Tuel toil sales have always been to cap estimated to occur in the latter, portion of the AER period light to occur amount of oil to be sold has not decreased; and SDG&E projects that to a it will, in fact, have to esell more to the destimate of the floss peritor barrelathat will begincurred from this sale has been moonfirmed by IRIE consultants retained by SDG&E 305SDG&E submits that sits underlift scharge and oil sale loss estimates are reasonable and should be cadopted. course and the loss of the specific sale loss. and underlift expenses through the ECAC balancing account rather sthans

negotiated downward from 15,000 bbl./day to 12,500 bbl./day = a reduction of 2,500 bbl./day = by rolling barrels into future years. This reduction will be at no cost to the rategayer and will not cause

<sup>\$15/</sup>bbl. x l million bbls. = \$15 million bols. or out of which with another the second will account to \$19 million in lower the cores.

recthrough the AER.of These reasons revolves around the facts that the level estimate, of volumes; to be sold can be significantly affected by such factors-as weather; natural.gas availability; and purchase power book availability. To Introduction adoption of the specific amount for under-\_\_\_lifts and\_\_sales lossescouldoweaken SDG&E:symegotiatingoposition; asd it seeks to dispose of this oil to The annual review in the ECAC doldw procedure ensures that only reasonable costs will be passed on torgue the Fratepayer and that no party will receive as windfall. Treatment of oil-sale-Tosses and under Mifts in the AER will be more appropriate once the current situation, in which SDG&E and the cother autilities once as they have in the past, occur approximated past of the past of the past occur approximately and the past of the past occur. .crasigdwwwsDG&EjsOproposeddfwelvoilainventory-levelsigfluacz lilw are reasonable for the forecast period. SDG&E proposes to carry an inventory of 3,220,000 barrels during the forecast AER period. The level of inventory proposed by SDG&E fully recognizes the requirements of its system and the costs of disposing of excess fuel oil While a strict-requirements level of oil in inventory might be closer to 2,500,000 barrels, the analysis employed by SDG&E calls for an additional 720,000 barrels to be held in inventory in order to achieve the economic optimization of the fuel mix. Economic optimization refers to the decision to make full use of all lower cost sources of energy before using residual fuel to generate electricity. In addition SDG&E's analysis considers the cost of disposing of excess volumes of oilus Storage costs are weapproximatelys \$8x00x permbarrels gwhile 5 the Sonly vothers option still available: to SDG&E is to sell oiltat approximately mat \$15:00 acbarrelo lossing Given, these choices, mitois clearly mreasonable to propose storage of excess, volumes wof, oilato the vextento possibles ronnsm is middo as as off an benear Inncontrastato SDG&Ed seproposal wither staffbhas msuggested nothat only 1,500,000 barrels of cresidual fuel oils need to be carried inconventory.

SDG&E criticizes the staff proposal as based on the assertion that a proper

level of oil inventory for ratemaking purposes can be entirely different than appropertional levels and that there is matherefore, more need to consider SDG&E's supply contracts in The Commission's preferred approach would consider such factors as abnormal weather, yeas availability, and contract provisions, among other things. The staff proposal, which is based on recorded burn information and does not consider to current operational realities, is, in SDG&E's eyes; clearly inadequate.

considers the factors deemed important by the Commission. It estimates that abnormal weather conditions in the form of a cool or coldiwinter will, as they have in the past, occur approximately 20% of the time and all will result in no P-5 gas being available to SDGEE Sopower plants.

For reliability purposes, the level of inventory entering the winter should be 2.8 to 2.9 million barrels. With this level of oil in inventory at the beginning of the winter period, requirements in a cool or cold winter could reduce inventory to minimum levels by the end con cold winter could reduce inventory to minimum levels by the end con february. SDGEE claims even the staff witness agreed that its proposed winter level of oil in inventory was appropriate. SDGEE maintains that it demonstrated that it was impossible to take this reliability requirement into account and still achieve staff's recommended inventory level without incurring an unreasonable level of expense.

operations from January 13:1980 to June 30:2198121 Based upon 14:25 analysis operations that SDG&E: has not conducted its operations in an optimal manner over the spast review period so While staff is the solutions of commending the disallowance of any specific sums entered in the SCAC account as a result of SDG&E: substandard performance, staff does

and conducted its operations in an optimal

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recommend that the Commission place SDG&B Ton motice that continued Tell results similar to those to the space period will result in the nature of a disallowance of a sportion of the requested energy expense in the next Annual Review ECACO The Chasis for this recommoda mendation its the extremely wide variability the tween SDG&B is resource a mix forecasts and fueboil supply contracts and SDG&B is actual force requirements. The continuing Targe discrepancy imposes additional and costs on the ratepayer and SDG&B as a whole. A SDG&B should be for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance in this area for the strongly encouraged to improve sits openformance and so are possible and sits in the payers of specific so are strongly penalty sis approposed areas of apped SabCS. Sababases where

heavily dependent on residual fuel well-known point that SDGAPTIS delivered heavily dependent on residual fuel will for electric generation, and accounting for over 50% of its generation during the review period was beginning January by 1980 as Therefore astaff finds with doubly important that SDGAP takes the opportunity to burn cheaper natural gas in place of fuel will whenever possible of However, the record in this case and demonstrates that SDGAP's will supply contracts and dis method of the forecasting natural gas availability have operated to Timit the use of matural gas by SDGAP and to prematurely increase ECAC water 2000 In support of its conclusion, staff presented a historical perspective of SDGAP's energy operations arose also a SABCS to same page of a weak

refineries, Tesoro in Alaska and HIRI in Hawaii. These purchases are made under long-term contracts which originated in the early 1970s. At that time a fear of disruption of the world oil supply led many are to conclude that long-term supply contracts were essential for utilities. SDG&E entered into the two supply contracts for large volumes of LSFO. However, in the intervening years, SDG&E has rarely required as much we are extended as much we have a contracts of the contracts

LSFO\_as\_it\_chas\_had\_to\_purchase.cundensthese\_contracts#rand#it Shas#coox found itself in apposition where it that shad to eself cfuel lowly often a at-a loss, or reject; available chatural gaswin forder stocavoid fover- al flowing its storage capabilities to The point (of chactic SDG&D sustained) just over seven/million/dollars/cin/oil/sale/losses/during the crecord/ period. SDG&E estimated that sifesit had not succeeded in megotiating. its most recent contract, reductions, with rits; suppliers, it would have spent \$99 million moregin 1982 and 1983 con fuel oddicasta result of 200 the long-term contract deliveries of tolling This provides as one videar of of the magnitude of oversupply which was built into these long-terms of supply contracts. SDG&E began to negotiate contract volume reductions with HIRIgin 1976, and with Tesorowing 1979 and Additional creductions are continually being discussed between SDG&E and dits suppliers lands several, have, been implemented, its to to to tot row and printed of the several contractions. The second of the second ductions, have not been sufficient to co eliminate the surplus of oily in SDG&E sytanks oc SDG&E acknowledges soft that its oil supply situation is not soptimal and that the large or to volumes, of oil under contract have prevented the burning of additional available natural gas of As matural gas distible significantly cheaper than LSFO, every barrel of oil burned in place of available gas means additional, and, unnecessary, costs, to the SDG&E, ratepayers to Incestaff 's view, the management of SDG&E's oil contracts; vis-a-vis-the available natural gas is the key issue in the reasonableness meview of past refinories, Tesoro in Alaska and HIRI in Hawgii. Theorems, or Tesoro . 1995 - 1200 - SFurthermore, SDG&Eds, repeated, underestimation coffinatural gas availability; has served; to exacerbate; the consequences of anima of already troublesome oils oversupply situation as SDG&E claims that ditso policy is to reduce the percentage of residual oil indits fuel mixOCS whenever possible since LSFO is one of the most expensive fuels for of electric generation.

ಪ್ರಕರ್ಷ ಕನ್ನಡಿದ್ದರೆ ಅಥಲು ಇಂದಿಸಿದ್ದ ಸಿಕಿಂ ಗೆರುಬಂಗಿಕ ಗಾಗಲ However, staff finds that a pattern of fossil fuel uses emerges from the record which indicates that SDG&E consistently 2000 5 underestimates the amount of natural gas available to it, with the result that SDG&E can include within its projected resource mix more of the "excess oil" which would otherwise have been displaced by TERW natural gas if SDG&E were not bound by its long-term contracts and successions SDG&E-concedes that its natural gas forecasts have been consistently se low for the last four or five years. Part of this must be attributed of to the fact that unexpectedly large volumes of natural gas have order appeared on the market as gas decontrol begins to make itself felt. On the other hand, SDG&E indicates that it has not felt certain enough of the forecasts of additional natural gas to rely on them and that our thus ended up with surplus LSFO when the forecasts turned out to ocotoo be correct. Staff concludes that there is a serious problem the the reliability of SDG&E's gas availability forecasts. one at .isoe mora

It appears to staff that SDG&E manages, its fuel mix cost to accommodate the excessive amounts of fuel oil under contract, and rather than to maximize the burn of cheaper gas even when forecasts are not an issue and SDG&E knows more gas is available.

The winters of 1979-80 and 1980-81 are filluminatings: 388 in this regard. While SDG&E's total generation of electricity was comparable in both these four-month winter periods (November to periods), in 1980-81 there was approximately 500 gigawath hours of additional purchased power available to SDG&E, which it accepted however, to make room for this additional power, SDG&E did not reduced its LSFO generation in spite of the fact that oil is supposed to be the swing fuel. Instead, SDG&E rejected natural gas, and reduced its gas burn from the level of the previous winter and actually burned more fuel oil than in the 1979-80 period: In effect (SSDG&E) rejected gas in order to burn more oil to avoid an overflow situation

while it did not conclude a sale of excess oil during the winter,

even though oil prices were high at that point. Natural gas was used as the swing fuel to relieve SDG&E's excess fuel oil situation with a corresponding additional cost to the ratepayer.

of daw More confounding to staff is SDG&E's claim that it has a not rejected gas during the record period. Staff sees this as misleading. To What SDG&E-has done is to not reject gas offered by its supplier supplier Southern California Gas Company (Socal) when parity is in effect groce Parity is an allocation system for natural gas whereby each low rol wol priority-customer is offered gas in accordance with previous levels of of purchases. However, when gas is plentiful, parity is suspended; and all customers may purchase as much or as little as they require no During times of plentiful gas, while parity has been suspended, SDG&E has taken far less gas than was available to it. From June through October 1980 and January through July 1981, nearly two-thirds of the entire record period, SDG&E took less natural gas than was available from SoCal. If one calculated the number of equivalent barrels of gas refused by SDG&E during 1980 and 1981 using information provided by SDG&E and its response to San Diego's data request and the information in the record, it becomes apparent that SDG&E refused 2,972,000 equivalent barrels with a resulting additional cost to the ratepayer of \$56,468,000.2 Staff asserts that the oversupply of oil resulting from the oil contracts has seriously compromised SDG&E's ability to provide electricity at the lowest cost available.

The other corollary to SDG&E's use of natural gas as a swing fuel is SDG&E's consistent underforecasting of the available able natural gas. It difficult to discover the exact set or bologous as it difficult to discover the exact set or bologous as it of the start set of set or bologous as it of the set of set

<sup>2/</sup> This figure of \$56,468,000 is derived by using the current \$19 (\$46-\$27) price differential between residual of F and natural gas as a rough approximation. The state of the current side of the current si

reason for SDG&E's gas forecasting errors to SDG&E asserted that it as additional nonprice conservation was roughly four times as large acts factor; in forecast, errors, of sales, as was weather, yet, could not to or justify how the nonprice conservation sayings figure was actually 201 derived. In fact, weather is the variable most often blamed by SDG&E for forecast errors, as-weather does indeed affect the amount of patural gas available for electric generation of SDG&E claims that to rensure sufficient\_resources to generate electricity it uses "average" weather to forecast both gas needs in its service territory and gas availage bility from other territories. SDG&E has recently switched asserbed from.a.30-year.average.to/a-ten-year-average.asathe.pasta30.years 30. have been much colder than recent experience of However, even with dos the most recent adoption of a sten-year cycle for the average coSDG&Es could only point to one year sowinter (78-79) when "average" weather, was experienced out of the entire 74-81 period as Staff does not find; it reassuring that SDG&E considers the 78-79 winter average when it as is the coldest of eight consecutive winters weather forecasting the cannot be the only villain, however, or sooner or later the foregasts would, "average" outcif, SDG&E, is using a true average of weather, is to statistics. More disturbing is the fact that SDG&E has in the past of relied on SoCal forecasts, which have been consistently low and that SDG&E\_did\_not\_feel\_confident\_in using\_forecasts\_of\_higher\_gas\_availability when they reached them independently sames as Choca shove who ha

SDG&E underestimates\_its\_gas\_use\_in the\_resource\_mix, and\_thus\_has\_over to include other generation\_calmost\_always\_oil\_a\_To\_the\_extent\_that\_called\_ca

at all possible avoid raising already high utility rates any sooners than absolutely necessary in Accordingly, staff urges the Commission bas to try to break the pattern which has been established in SDG&Example resource mix forecasts and to insist on improved accuracy. Work White out SDG&E claims to have made improvements to its gas availa-- bility-forecast-over-alperfod-of time from-1978-onwards- However, -oh this is less than reassuring when it is noted that even the most sop recent forecast suffers from the same chronic allment of underestimated gas takes and overestimated of IT needs. SDG&E forecast a sharp to hor decrease in the ECAC ballancing account overcollection as a mresult. Lic of fuel expense increases primarily of larelated Thowevery the revised tables submitted with the most recent hearings indicated that the over forecast was wrong once again, and that the balancing account over and collection was \$12,0337800 more than SDG&E predicted it would be aton the end of December 19812 - SDG&E confirmed that once again there has been more gas than was forecast to be available cas well as a milder winter-and-additional-purchased-power "" Most-disturbing to staff dist the fact that SDG&E felt there were vatoleast forme indications wante of a milder-than average winter but had not incorporated them into ow its foredastingen E09002 ರಚನರ ಪರಾಣಿ ಅಗರ ೧೭ ಇಂಬೆರ್ಬಲಾಗುವಿ ಅರಾಗ '.ಇರಾಖಿರಾಟಕಾರರ asaa bas wal Therotheraside of the coinain space softe source mixalist involves disposal of the oil provided under the Tong-termocontracts Co in the event SDG&E attempts-toouseqthe-availableogas.Yothisois.Yof-lid course, accravated when gas availability is underestimated; but even at SDG&E's forecast resource mix the problem is serious as SDG&E has "implemented significant contract reductions with its suppliers of but still finds itself in a position where it is contracted to accept 20,500 barrelsfor Isrofarday, and forecasts and average burn for the year of-only-17,000 bbist/day: And-as-indicated; that forecast of or Logitanceds mayowellabehoverstated. Apointing to the factathetesis . Lio raised rated. It goes without daying that the Commission ehould if

problem is still a major one-day of or the bluch of and constant of constants. The soil sposal problem is still a major one-day of or the bluch of constants.

be remedied by further contract reductions operation solutions which all do not involve or best atta closs be SDG&E claims that the collections to be used for generation. Afthey are included means of mitigating of a loss, not a means of providing a benefit to the providing a benefit at a loss, not a means of providing a benefit mattach dollar of our sales of providing a benefit mattach dollar of our sales of a loss, not a means of providing a benefit mattach dollar of our sales of a loss of a dollar of energy expense which would not have been expended at all of the oil contracts were not excessive; and gas could be troot burned without displacing with a more distressing is the possibility as that if SDG&E cannot arrange a sufficient number of sales of oil or our refuse, gas and burn oils area, not every aid of bealess of oils or our refuse, gas and burn oils area, not every aid of bealesses of SDG&E.

not penalize SDG&E, at this time; but its should encourage SDG&Escar aced to continue; its efforts to improve forecasting and reduces a aced oil oversupply and indicate to SDG&E the seriousness of this example at problem by stating its willingness; to impose a penalty indicate to future annual review ECAC proceedings if SDG&E is unable to

solve the excess oil and gas refusal problems in the very near future. This situation has continued for years; now that SDG&E agrees that it has a need to reduce oil contract volumes and take all available gas, it should act to do so with all possible speed.

TODE: Staff s recommendation to include underlifts and oil

One of the essential issues in orthis cased is whether and a or not the Commission will afollow the direction of D092496 and include in the AFR all forecast sunder Difts and oils alectosses for the AFR 1919 period, or accept SDG&E's suggestion to delay such threatment out this was time. SDG&E has been unable to provide any justification toodifferen tiate its position from that of the vother Delectric and combined for the utilities which have already been required to adopt an AER structured val as the Commission specified in D.92496. Staff submits that thevo high issue is, simply, does the Commission wish to apply the decision as issued, or does it wish to completely diluterits indentive effection of fuel management? The should be moted that SDG&B's underlifts are son of contract reductions, negotiated far invadvance and are known precisely. No unfairness can arise from the use of such accertain number 204SDG&B5 complains that the uncertainties attendant to their darge excess off & inventory, make, such treatment unfair, while readmitting that the coscol incentive of the AER rate will operate a SDG&E suggests that either 4 55 windfall profit or an unanticipated loss to SDG&D as a result of this of provision is unfair to Staff (submits that the dissue was central? to see the OII 56 decision, and has already been decided by the Commission and If SDG&E is penalized by this provision, that would indicate that entering the disincentive of the AER procedure is working because SDG&E has been unable to keep ats excess oil inventory from growing. "If the Jon Commission has indicated through Di92496 that an incentive penalty of is required to put pressure on the utilities to manage their fuely 110 inventories better the AER must include underlifts and oil sale losses; future annual review ECAC proceedings if 600000 is unable to

But the second of the

and it should, be implemented on the contention of staff; that, as specific and its fuel inventory management practices were just what they commission had in mind when the AER incentives, were developed, and they should be allowed to operate with the goal of forcing SDG&E toward less wasteful oil procurement and resource management.

The conformal purposes, of calculating SDG&E's AER mistaff's now of proposed level of fuel oil allowed in inventory of the conformal and the conformal of the conformal conforma

A reasonable level of fuel in inventory must be based 5 on SDG&E's requirements for that fuel , not upon an external parameter such as deliveries from a long-term contract supplier. For that reason, staff contends that SDG&E's proposed level of fuel in inventory for of the AER is grossly excessive as it is based upon the presumption that all the oil that will be delivered under present contracts can reasonably be burned or stored, regardless of the requirements for such oil in of light of the other components of the resource mix. SDG&E has admitted that it has not even calculated an inventory level based upon its of forecast requirements for fuel oils lits entire presentation of of the a reasonable level of fuel oil in inventory is based upon accommodating the level of oil supplies to be received in the coming year. has been while this may be understandable from the point of view that SDG&E does not wish to carry the costs of storing excess of a itself, staff believes it is time to stop forcing the ratepayers to subsidize the storage of oil SDG&E does not need a SDG&E has requested approximately 2.5 million barrels of LSFO as an inventory for the year, which corresponds to 140 days burn at the forecast water of our use, which, staff argues, is probably too high a burn estimate. avol-5 SDG&F admits that lifthere were no constraints from lits long term - contracts it would keep less oil on hand he However, SDG&E was unable to provide such a theoretical requirements level of inventory. It is scarcely believable that SDG&E would operate without even considering

the question -- an indication of how completely SDG&E's fuel management is dominated by oil supply contracts which are farmin excess of lits are reall needs. The provided and contracts which are farming excess of lits are saled as the contract of the con

months before the winter heating season in case of a cold winter, year however, SDG&E concedes that full tanks are not needed the restrof so the year, and that for purposes of setting a volume of fuel oil in inventory the Commission need only consider an average volume, not a maximum seem year years as as local to level elegant A

Accordingly, staff performed the calculation that SDG&E omitted. The staff witness averaged SDG&E's actual fuel oil usage of for the last four years to determine what reasonable average of fuel. In inventory would be required to maintain the level of oil use. To be conservative the staff witness adjusted the inventory level to take into account that three of the last four years have been warmer than "average" according to consensus of its resulting to addition produces an average inventory level of its million barrels for both residual and diesel fuel oil. This level of inventory and translates to a 54-day burn at SDG&E's forecast rate of oil burn and staff determined that SDG&E has not experienced a cold snap longer than that period of time since weather records have been kept. As a result, staff's recommended level of inventory should provide enough fuel to bridge SDG&E across any cold spell which would temporarily dry up supplies of natural gas for generation to oppose the actions.

precedent for future SDG&E ECAC proceedings of If the Commission about the oil contracts to dictate the "reasonable" level of oil to in inventory, ratepayers will be paying for the storage of too much collision years to come. Staff seeks to have the Commission confirm to that it intended in OTI, 56 to permit a reasonable level of oil vozq of the storage of the storage of the storage of the confirm of that it intended in OTI, 56 to permit a reasonable level of oil vozq of the storage of the storag

## d. The staff's proposed amount of oal sale Leaded recovered through the ARR is reasonable.

in inventory based upon the actual requirements of SDG&E for an inventory to ensure adequate service, notato soak upotheoresults of past errors in oil progurement.

the Commission also grappled with the problem of anyoil inventory was which was bloated by excess oil made available by natural gastincreases. The Commission clearly indicated that with respect to the short term costs associated with reducing oil inventory to accommodate lower out costs resources. "CMA correctly perceives that we intend to share the costs between the utility and ratepayers." The Commission proceeded to set a level of inventory related to requirements out of permitted of Edison to treat oil in inventory in excess of that level during the first year of the AER as underlifted oil wat \$6 per barrel factors as SDG&E is not forced to setly the following to age above so

the level recommended by staff. It could keep it, hold ito temporarily while sales are investigated, or burn it for becommy energy sales. The Commission is not forcing a sale of this oil. As carrying costs for oil in storage for SDG&E approximate \$8 per barrel as taff would suggest a sharing of the cost between the ratepayers and the share holders, such as allowing \$4 per barrel for each barrel of excess oil over the allowed inventory, thereby placing half the burden on at the shareholders and half on the ratepayers. This would be included in the AER calculation just as would the cost of additional underlifts. This one-time adjustment would not inflict upon the shareholders allowed the cost of the excess oil and would give SDG&E an additional periods of time in which to bring the inventory under control of Staff submits it is an equitable procedure, bearing in mind that SDG&E has not made the transition to an AER in any previous proceeding.

and this sum, while not as well substantisted in fact as the strains of a servication.

# d. The staff's proposed amount of oil sale losses recoverable through the AER is reasonable.

just seven months is in staff's view extraordinarily high and not supported adequately by SDG&E's witnesses or the facts in the record. As counsel for San Diego determined on cross—examination, SDG&E has never sustained such a large number of oil sale losses in a single year. Furthermore, SDG&E's method of calculating the amount of the losses is simplistic and speculative, hardly the rigorous examination the Commission should require before handing over \$15,000,000 which is not subject to recovery in a balancing account. SDG&E based itso loss calculations on current prices on the East Coast; including the transportation differential? This was done on the assumption of that West Coast alternatives are foreclosed. However, the or coast additional hearing days showed the fallacy of that assumption because SDG&E was able to arrange a West Coast sale of a

that sales should be predicated only on East Coast prices and should suggest a far lower estimate of the losses of the AER is to mach of as a true incentive, SDG&E should not be guaranteed advance recovery of the worst of its losses on sales of the estimates of losses on participantees and should not be guaranteed advance recovery of the worst of its losses on sales of the estimates of losses on participantees and the recovery of the worst of its losses on sales of the estimates of losses on participantees and the record of the control of the control of the estimate available in the record of the sales of the commission wishes to make a blind compromise. At sales on a barrel, and assuming that SDG&E sestimate of one million excess barrels is and assuming that SDG&E sestimate of one million excess barrels is and assuming that SDG&E sestimate of one million excess barrels is a correct, \$8 million is a proper allowance? As counsel for san Diego pointed out SDG&E still stands to make a great deal of money from ods such a provision of sale losses in the AER if it can manage its fuelo so as to burn the off without rejecting other cheaper fuels, of course.

The staff witness allowed \$8,750,000 for off sale losses, and this sum, while not as well substantiated in fact as the straight \$8 per barrel loss, is available to the Commission as a compromise.

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The Electric Branch of the staff believes that it was a the Commission's intent to have an annual review of the reasonable of test year level of oil in the forestory and to them determine what carrying costs should be recovered. Staff takes this position because the Commission found in D192496 in OII 56 at opage 44 that is a

"The reasonable test year level of oil in storage, should be examined as a matter of course in the or evaluation of each utility's fuel procurement open strategy and practices in the annual review."

Staff then evaluated what a reasonable average monthly level of fuel oil in inventory should be and reached the conclusion that 0.3 million barrels of distillate fuel and 1.2 million barrels of low sulfur residual fuel oil would provide for approximately a 50 days' burn and that this was a reasonable level of fuel in inventory for ratemaking purposes. San Diego concurs with staff on the inventory issue.

SDG&E paid no attention to D.92496 and simply estimated what its actual monthly inventory might be for March through October 1982. In addition SDG&E used, in its computation, an April 1, 1982 moving average inventory price of \$46.38 that is subject to serious doubt. The use of proper numbers is important in computing the AER as revenues collected under the AER are not subject to refund.

b. The Estimated Fuel Oil Sale Loss Issue

SDG&E's primary proposal is to continue ECAC treatment of underlift payments and gains and losses on the sale of fuel oil until the next annual review is made in connection with SDG&E's scheduled November 1, 1982 revision date. Staff recommends that gains or losses from sales of fuel oil and underlift payments be forecast for the April 1, 1982 through October 31, 1982 period with these estimates used in determining the AER.

Apparently the Commission believes that the inclusion of gains or losses on the sale of fuel oil and underlift payments in the AER creates an incentive for proper fuels management.

The Commission saids we ever found as ever or proper a containing out

It would appear that SDG&E's possibility of a reward occurs if the estimate of fuel oil sale losses and underlift charges, adopted by the Commission for the AER, turns out to be greater than the actual fuel oil sale losses and underlift charges. The possibility of a penalty occurs if the estimate of fuel oil sale losses and underlift charges. The possibility of a penalty occurs if the estimate of fuel oil sale losses and underlift charges, adopted by the Commission for the AER, turns out to be less than the actual fuel oil sale losses and underlift charges. The trouble, of course, with this scenario is that SDG&E has control over what its fuel oil sale losses will be. If the Commission were to adopt staff's estimate of \$8.750,000 for fuel oil sale losses for the forecast period, and losses of that magnitude occurred, by August 1982 SDG&E could then refuse natural gas and hydropower and burn oil for the remainder of the forecast period. It is difficult for San Diego to understand what "incentives for proper fuels management" are created when the "possibility of rewards and losses" are entirely within SDG&E's control.

within SDG&E's control.

The Commission adopted staff's estimate of \$8,750,000

The Commission adopted to the Commission adopted to adopted were booked to by August 1982, is the Commission going to order SDG&E to continue adopted the cont

while we will not disallow ony fuel-related expended indurred by SDG&B during the review period, we wich to state in the persongest recoup that additional loss? The so, is the Commission going to hold SDG&E harmless from the almost inevitable shareholders bactions? 1940 In view of this dilemma, San Diego asks the Commission to reconsider its treatment of fuel oil sale gains and losses noo ont .bomilson od roum omoldong C. <u>Discussion visavace</u> ic poster sids pairub dasysquest aces besegme

Though our action today will have no effect on the current electric rates which SDG&E charges its customers, our resolution of the outstanding issues in SDG&E s annual ECAC reasonableness review should have a significant impact on the future conduct of operations by SDG&E: The outstanding dissues are as follows poous of opivage

- The reasonableness of SDG&E's operations and assumucato Agric expenses from January, 1, 1980, through dang to politions
- June 30, 1981:

  2. The appropriate estimated electric sales and resource mix for the AER forecast period of a cave
- 3. The appropriate level of estimated losses on common orac fuel oil sales for the AER forecast period;
- 4. The appropriate level of fuel oil in inventory for the AER forecast period, and a class holdward.

Based upon our review we will not find that SDG&F's operations and expenses from January 1, 1980 through June 30,71981 were unreasonable. Furthermore, we will adopt SDG&E's estimated electric sales and resource mix for the AER forecast period2/. However, we do find staff sof at presentation; both in general and with respect to the remaining dissues. persuasive. It appears that SDG&E has been unimaginative as well of as unrealistic in formulating and implementing its oil supply and and even assuming gas unavallability, no problemises; even assuming gas unavallability ಲವಗಳ ಇಂದ ನಿರ್ವಹಿಸಿದ್ದ ೧೯೩ ರಣವಾಗಿಗೆಗಳು ಇನಿ ಇಲ್ಲಿಕೆ ಆರುಗುತ್ತಾರದೆಂದರೆ ಅನಿಕಾರದಿಂದ ಗುತ್ತಿರಿಗಳು ರಾಷ್ಟ್ರಿ

<sup>3/</sup> The adopted sales figure is the only relevant datum presented in the records a Based upon the record in A-59786, aSDG&Essageneral as rate case, we believe that the adopted sales estimate is significantly understated; yet it is the only usable information. To adjust for this deficiency in the record evidence, we will reject the applicant-staff stipulation and direct that revenues under the AER be collected subject to the ERAM.

While we will not disallow any fuel-related expenses incurred by SDG&E during the review period, we wish to state in the strongest terms that a "business as usual" approach by SDG&E to its chronic oil oversupply and gas forecasting problems is unacceptable.

Improved performance in resolving the excess oil and gas rejection problems must be realized. The continuing and crushing burdens in imposed upon ratepayers during this period of pervasive economic difficulty may well require radical departures from traditional utility management.

provide SDG&E with the security of knowing that it can continue to provide service to its customers even in the event several highly improbable circumstances occur, the time may have come when ratepayers are unwilling or unable to pay for such high levels of security. The cost of ensuring that SDG&E will be able to continue providing service even in a worst case scenario may have reached unacceptably high levels.

SDG&E requests 3.22 million barrels; fincluding 2.5 million barrels of LSFO corresponding to 140 days burn, as an inventory for the year. Staff counters the an inventory of 1.5 million barrels for both residual and diesel fuel oil, which equals a 54-day burn at SDG&E & forecast rate of oil burn, is more reasonable. We find staff a recommendation reasonable, and we will adopt it and the staff and the staff and staff a recommendation reasonable, and we will adopt it and the staff and the staff and staff and staff and staff as recommendation reasonable.

SDG&E provided insufficient evidence to support its requested inventory level. SDG&E merely asserts that abnormal weather conditions in the form of a cool or cold, winter will occur approximately 20% of the time and will leave no gas available for power-plant use. No credible probability analysis was presented to support the claim that gas would be unavailable to SDG&E 20% of the time of Furthermore, even assuming gas unavailability, no probative evidence was presented to support SDG&E's proposition that it requires 140 days of oil burn to reliably carrypitathrough, such a period of gas unavailability. If finally, there was little or no analysis of the reliability and probability of other options, such as purchased energy; and the event of a worst-case scenario in which no gas is available for five winter months.

By maintming treatment of fivel oil sale lockes in 2010, we

We must agree that SDG&E's requested fuel oil inventory
levels appear to be driven by its oil contract obligations rather
than by reasonable projections of need and reliability. The other
plausible explanation of SDG&E's request involves SDG&E's use of a
deterministic rather than probabilistic analysis of its fuel oil.

requirements. Rather than analyzing the probabilities of various
events occurring and weighing the cost of ensuring against their
occurence; SDG&E appears content tog determine the worst case of
and to request Commission—authorized expenses to allowafor such an
eventuality - regardless of its likelihood of occurrence. There seems
to be no other sound explanation for SDG&E's continuing inaccurate
forecast of gas availability.

In adopting staff's recommended level of fuel oil in inventory, we will also accept staff's suggestion that the cost of each barrel of excess oil over the ablowed inventory be shared between the rate-payers and the shareholders. We will allocate the excess oil burden equally between the ratepayers and the shareholders. And, since SDG&E's carrying costs for oil investorage are about \$8 per barrel, we will allow \$4 per barrel for each barrel of oil in excess of authorized inventory to be placed in the AER.

With respect to the treatment of fuel oil sale losses, we will accept SDG&E's recommendation and continue treatment of such expenses in the ECAC balancing account for now. This action is taken solely to reflect the uncertainty surrounding the issue of SDG&E's scheduled fuel oil deliveries and the prospect that SDG&E may accomplish certain reductions in its current fuel oil contracts. We note that D.82-04-073 issued April 12, 1982 directed SDG&E to show cause why the Commission should not require SDG&E to suspend or reduce deliveries of residual fuel oil scheduled underits existing contracts with HIRI and Tesoro.

By maintaining treatment of fuel oil sale losses in ECAC, we seek to avoid compromising or limiting SDG&E's negotiating posture with HIRI and Tesoro as well as to avoid prejudging the outcome of our order to show cause. While we authorize continued ECAC balancing account treatment of fuel oil sale losses, we will place SDG&E on notice that any request for allowance of such expenses in the November ECAC will be subjected to very rigorous Commission scrutiny. Our decision today should in no way be construed as carte blanche authority for SDG&E to sell fuel oil irrespective of the level of the loss, nor should from be construed as accepting SDG&E's estimate of a SIS/bbl. loss on fuel oil sales as reasonable.

In sum, our calculation of SDC&E's AER for the seven-month period will include the following elements:

- 1. SDG&E's estimates of electric sales and its resource mix projections and estimated costs as some seven-month; AER sforecast operated its
- authorized fuel oilgin inventory of one bas croyed
  - 3. An allowance of \$6,880,000 (\$47bb1, x energy of \$15000 inventory in excess of the adopted reasonable inventory volume of I,5 million barrels; and
- 4. \$2,035,000 in underlift penalties stipulated

abstract the ECAC belancing account for now. Then address is results and the second acting account for new. Then accepts is resulted as the state of belancing and new surrounding and accept all solds and the prospect that SDG&E may accomplish certain reductions in its current fuel oil contracts. We note that D.82-04-073 induct April 12, 1982 directed SDG&E to show cause why the Commission should not require SDG&E to suspend or reduce deliveries of residual fuel oil scheduled under its existing contracts with NIRI and Tesoro.

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A.60865 ALJ/ec./vdl/ks SOCKE to decrease SCAC and base rates so that the AER can be amplied mented with no change in rotel electric retes, the adopted rates

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	18.	Annual Energy Line 16 : Li	Rate (AER)		5,510,18,MM 	kWh
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We wi	ll ac	lopt an AER of	0.439 ∉/kWh	formSDG&E	or total revenue	
			neludes:	R cypically i	3. The AE	

The ALK typically includes:

a. 2x of fuel and purchased energy coses;

b. Gains or losses from sale of fuel oil, underlift payments, and facilities ວິດສ ເວອກູແສດີວີ

c. Carrying costs of fuel oil in inventory.

## A.60865 ALJ/ec/vdl /ks/jn

Since we are adopting the recommendation of both staff and SDG&E to decrease ECAC and base rates so that the AER can be implemented with no change in total electric rates, the adopted rates will be:

	Adopted <u>AER Rate</u>	Adopted	mst Adopted easdor <u>ECAC Rat</u>	ามร	Adopted
Domestics 3	<u> </u>	- base kat	Nactors ECVC KVE	<u>ਵ</u> ਼	Total Rate
Lifeline.	0.439	4.677	250 <b>13-2864</b> 7	2.	<b>8.</b> 980
Domestic Nonlifeline	0.439	4.677	Diesel Oil 8eccupi Oil	.ε	<b>12.</b> 635
Nondomestic	0.439	<u>س</u> ر	Recreations only	ڊ. د.	,

Since April 1, 1982 represents the beginning of the AFR forecast period. and we are already three weeks beyond that date, the adopted rates should become effective immediately. We will so order.

Finally, we will reiterate our encouragement to SDG&E to diligently pursue efforts to improve its gas supply forecasting and to reduce its oil oversupply. While we will forgo imposition of a penalty at this time, the problem is of such a serious nature that SDG&E is placed on notice that we will consider as penalty in future ECAC annual reviews if SDG&E fails to relieve the excess oil and gas rejection, problems in the reasonably meanifuture cosDG&E's ratepayers will not be forced to continue to underwrite the Status quo. Findings of Fact 16. Adjusted for Franchise Fees and

3.012. By Application (A.) 60865 SDGGE requests authority to make changes in its base rates and ECAC billing factors and to include (REA) space various factors.

- A.60865 requests authority to decrease ECAC rates so that the AER can be implemented with no change in total electric rates or total revenue requirement. ANA 25 02 0.435 ac cope active will acope an ARR of 0.435 at 1.5 active properties of the contraction of the contrac
  - 3. The AER typically includes:
    - 2x of fuel and purchased energy costs;
    - Gains or losses from sale of fuel oil, underlift payments, and facilities charges: and
    - c. Carrying costs of fuel oil in inventory.

- 4. The AER forecast period for this application is the account period from April 1, 1982 through october 31, 1982.
- forecast period for purposes of calculating the APR YS based on the available information and is adopted.
- 6. SDG&E's estimate of the resource mix and its constituent costs during the forecast period for purposes of callculating the AER is based on the most recent, reliable information and is adopted.
- 7. 1.5 million barrels of fuel oil\_incinventory is a reasonable level to@bermaintained@forsthe@seven=monthsforecast\_operiod.
- sing.nounderliftspaymentsoof \$2,035,000 duringothe\_seven-month.

  forecastsperiodsaresreasonableuq ods data ystemsoons, and solventmoothese descriptions.
- 9. Due topSDG&Elstongoing negotiations with oil\_suppliers\_and given the pendency of our order to SDG&E to show cause why its fuel oil deliveries should not be suspended, losses on fuel oil sales should continue to be treated in ECAC for now.
- in inventory in excess of the adopted reasonable inventory volumes of 125 million? barrels.
- 11. The adopted AER is 0.439¢/kWh and will generate annual revenues of \$24.2 million; decreases in ECAC and base rates will produce similar reduction in revenues.
- 121 SDG&E's Operations and expenses for the period January 1980 through June 30, 1981 were reasonable.
- 13. In view of the delay beyond the revision date, therevis effective date of this order should be today a consequent.
- 14. The rates and charges authorized by this decision are just and reasonable; the present rates and charges, insofar as they differ from those prescribed by this decision, are for the future unjust and unreasonable.

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Conclusions of Law iggs sand to borned respected REA off ... Takaha (SDG&E should be authorized to change its rates as set forth in the following order; those rates are just and reasonable. Revenues collected under the AER should be subject to the ERAM. evedichèle informetten and le décotéé. Joday's decision should be issued on an interim basis in view of the pending order to show cause in A. 60865. ASS to besed on the most of MITERIM ORDER to besed on ASS. This results of it is condered athat s loud to bloated coulding 8.1 . . T 120 OnCorpafter the effective date of this forder adSan Diego Gas & Electric Company (SDG&E) is authorized to file with this Commission, in conformity with the provisionsoof General Order 96-A, revised tariff schedules reflecting the following rates: | | with which would be 20000 or  $\frac{e / k W h}{k W h}$  and to yeachned with never has Lit 1903 no hand hadrocom od mar historic ECACTRate historic Rate won to those in persect of or ounstand bluede select \_Domestic&pc8 wpils 01439some old4t6779m s as 0003086438 .01 8.980 Lifeline in inventory in excess of the adopted reasonable inventory Domestic 0.439 4-677 .5107.519molifim 12:635 Nonlifeline The adopted AER to 0.4399/kWh and will generate annual Nondomesticat ococ 0.439x02 as secretaes to secretaes 22.22 as secretaes produce similar reduction in revenues. The revised tariff schedules shall be effective not less than five days after filing and shall apply only to service rendered on or after the effective date thereof yakob one to work at .81

2. Revision dates for SDG&E ECAC proceedings as set forth in D. 92496 shall remain unchanged opeans one sees one . . . . ಗೆಗಳು ತಿರುದೆ ಸಂಜರಂಗಾರರಿಸಿತ್ತು ಕೆಗಿತ್ತ ಸಾಗುತ್ತಿಕಾಗಿ ಸರ್ವಿತ ಕೆಗಿತ್ತಿಕ್ಕು ಸಾಗುತ್ತಿಕ್ಕು ತನ್ನ ಕೆಗಿತ್ತು differ from those presertions by this doction, are for the future

3. Revenues collected under the AER shall be subject to the ERAM.

This order is effective today.

Dated April 28, 1982, at San Francisco,
California.

JOHN E. BRYSON
President
RICHARD D. GRAVELLE
LEONARD M. GRIMES, JR.
VICTOR CALVO
PRISCILLA C. GREW
Commissioners

VAS APPROVED BY THE ABOVE COMMISSIONERS TODAY

Joseph E. Bodovirz, Executive Dir

#### APPENDIX A

## List of Appearances

Applicant: <u>William L. Reed</u>, Jeffrey Lee Guttero, and Randall W. Childress, Attorneys at Law, for San Diego Gas & Electric Company.

Interested Parties: John W. Witt, City Attorney, by William S. Shaffran, Deputy City Attorney, for City of San Diego; Daniel E. Gibson and Bernard J. Della Santa, by Bernard J. Della Santa, Attorney at Law, and Richard L. Jensen, for Pacific Gas and Electric Company; Margaret E. Thomas, for Southern California Edison Company; Antone S. Bulich, Jr., Attorney at Law, for California Farm Bureau Federation; and Michel Peter Florio, Attorney at Law, for Toward Utility Rate Normalization.

Commission Staff: Michael B. Day, Attorney at Law.

We must agree that SDG&E's requested fuel oil inventory levels appear to be driven by its oil contract obligations rather than by reasonable projections of need and reliability. The other plausible explanation of SDG&E's request involves SDG&E's use of a deterministic rather than probabilistic analysis of its fuel oil requirements. Rather than analyzing the probabilities of various events occurring and weighing the cost of ensuring against their occurence, SDG&E appears content to determine the worst case and to request Commission—authorized expenses to allow for such an eventuality — regardless of its likelihood of occurrence. There seems to be no other sound explanation for SDG&E's continuing inaccurate forecast of gas availability.

In adopting staff's recommended level of fuel oil in inventor we will also accept staff's suggestion that the cost of each barrel of excess oil over the allowed inventory be shared between the rate-payers and the shareholders. We will allocate the excess oil burden equally between the ratepayers and the shareholders. And, since SDG&E's carrying costs for oil in storage are about \$8 per barrel, we will allow \$4 per barrel for each barrel of oil in excess of authorized inventory to be placed in the AER.

With respect to the treatment of fuel oil sale losses, we will accept SDG&E's recommendation and continue treatment of such expenses in the ECAC balancing account for now. This action is taken solely to reflect the uncertainty surrounding the issue of SDG&E's scheduled fuel oil deliveries and the prospect that SDG&E may accomplish certain reductions in its current fuel oil contracts. We note that D.82-04-073 issued April 12, 1982 directed SDG&E to show cause why the Commission should not require SDG&E to suspend or reduce deliveries of residual fuel oil scheduled under its existing contracts with HIRI and Tesoro.

By maintaining treatment of fuel oil sale losses in ECAC, we seek to avoid compromising or limiting SDG&E's negotiating posture with HIRI and Tesoro as well as to avoid prejudging the outcome of our order to show cause. While we authorize continued ECAC balancing account treatment of fuel oil sale losses, we will place SDG&E on notice that any request for allowance of such expenses in the November ECAC will be subjected to very rigorous Commission scrutiny. Our decision today should in no way be construed as carte blanche authority for SDG&E to sell fuel oil irrespective of the level of the loss, nor should it be construed as accepting SDG&E's estimate of a \$15/bbl. loss on fuel oil sales as reasonable.

In sum, our calculation of SDG&E's AER for the seven-month period will include the following elements:

- SDG&E's estimates of electric sales and its resource mix projections and estimated costs for the seven-month AER forecast period;
- 2. \$8,122,000 for the carrying costs of the authorized fuel oil in inventory of 1.5 million barrels:
- 3. An allowance of \$6,880,000 (\$4/bbl. x 1,720,000 bbls. excess oil) for oil in inventory in excess of the adopted reasonable inventory volume of 1.5 million barrels; and
- 4. \$2,035,000 in underlift penalties stipulated to by staff and SDG&E.

Therefore, the AER adopted for SDG&E will be calculated as follows:

	Item	Cost \$M
Fue	l and Purchased Power Expense	
1.	Nuclear	\$ 2,792.7
2.	Natural Gas	162,548.8
3.	Diesel Oil	337.4
4.	Residual Oil	113,636.9
5.	Purchased Power	69,874.2
6.	NARCO Fuel Service Charge	907.0
7.	Variable Wheeling Expense	503.4
8.	Less Revenue from DWR	(735.1)
9.	Total of Lines 1+2+3+4+5+6+7-8	349,865.3
10.	2% of Line 9	6,997.3
ll.	Carrying Cost of Fuel Inventory	8,122.0
12.	Allowance for Oil in Inventory in Exces Adopted Reasonable Inventory Volume	55 6,880.0
13.	Underlift Penalties	2,035.0
14.	Total of Lines 10+11+12+13	24,034.3
15.	CPUC Jurisdictional Line 14 x 0.993491	23,877.9
16.	Adjusted for Franchise Fees and Uncollectibles (1.0121)	24,166.8
17.	Estimated seven-month sales	5,510.18 MMkWh
18.	Annual Energy Rate (AER) Line 16 : Line 17	0.439¢/kWh

1/1,720,000 excess bbls. x \$4 = \$6,880,000.

We will adopt an AER of 0.439 \$\epsilon/kWh for SDG&E.

Since we are adopting the recommendation of both staff and SDG&E to decrease ECAC and base rates so that the AER can be implemented with no change in total electric rates, the adopted rates will be:

	Adopted AER Rate	¢/kWh Adopted Base Rate	Adopted <u>ECAC Rate</u>	Adopted Total Rate
Domestic Lifeline	0.439	4.677	3.864	<b>8.</b> 980
Domestic Nonlifeline	0.43 <del>9</del> :	4.677	7.519	<b>12.</b> 535
Nondomestic	0.439		6.168	

Since April 1, 1982 represents the beginning of the AER forecast period, and we are already three weeks beyond that date, the adopted rates should become effective immediately. We will so order.

Finally, we will reiterate our encouragement to SDG&E to diligently pursue efforts to improve its gas supply forecasting and to reduce its oil oversupply. While we will forgo imposition of a penalty at this time, the problem is of such a serious nature that SDG&E is placed on notice that we will consider a penalty in future ECAC annual reviews if SDG&E fails to end the excess oil and gas rejection problems in the reasonably near future. SDG&E's ratepayers will not be forced to continue to underwrite the status quo. Findings of Fact

- 1. By Application (A.) 60865 SDG&E requests authority to make changes in its base rates and ECAC billing factors and to include an AER factor.
- 2. A.60865 requests authority to decrease ECAC rates so that the AER can be implemented with no change in total electric rates or total revenue requirement.
  - 3. The AER typically includes:
    - a. 2% of fuel and purchased energy costs;
    - b. Gains or losses from sale of fuel oil, underlift payments, and facilities charges; and
    - c. Carrying costs of fuel oil in inventory.

- 4. The AER forecast period for this application is the seven-month period from April 1, 1982 through October 31, 1982.
- 5. SDG&E's estimate of the electric sales during the forecast period for purposes of calculating the AER is based on the available information and is adopted.
- 6. SDG&E's estimate of the resource mix and its constituent costs during the forecast period for purposes of calculating the AER is based on the most recent, reliable information and is adopted.
- 7. 1.5 million barrels of fuel oil in inventory is a reasonable level to be maintained for the seven-month forecast period.
- 8. Underlift payments of \$2,035,000 during the seven-month forecast period are reasonable.
- 9. Due to SDG&E's ongoing negotiations with oil suppliers and given the pendency of our order to SDG&E to show cause why its fuel oil deliveries should not be suspended, losses on fuel oil sales should continue to be treated in ECAC for now.
- 10. \$6,880,000 is a reasonable amount to allow SDG&E for oil in inventory in excess of the adopted reasonable inventory volumes of 1.5 million barrels.
- 11. The adopted AER is 0.439¢/kWh and will generate annual revenues of \$24.2 million; decreases in ECAC and base rates will produce similar reduction in revenues.
- 12. SDG&E's operations and expenses for the period January 1980 through June 30, 1981 were reasonable.
- 13. In view of the delay beyond the revision date, the effective date of this order should be today.
- 14. The rates and charges authorized by this decision are just and reasonable; the present rates and charges, insofar as they differ from those prescribed by this decision, are for the future unjust and unreasonable.

### Conclusions of Law

- 1. SDG&E should be authorized to change its rates as set forth in the following order; those rates are just and reasonable.
- 2. Revenues collected under the AER should be subject to the ERAM.
- 3. Today's decision should be issued on an interim basis in view of the pending order to show cause in A. 60865.

## TWIECIM ORDER

IT IS ORDERED that:

l. On or after the effective date of this order, San Diego Gas & Electric Company (SDG&E) is authorized to file with this Commission, in conformity with the provisions of General Order 96-A, revised tariff schedules reflecting the following rates:

	<u>¢/kWh</u>			Effective
	AER Rate	Base Rate	ECAC Rate	Rate
Domestic Lifeline	0.439	4.677	3.864	8.980
Domestic Nonlifeline	0.439	4.677	7.519	12.635
Nondomestic	0.439		6.168	

The revised tariff schedules shall be effective not less than five days after filing and shall apply only to service rendered on or after the effective date thereof.

2. Revision dates for SDG&E ECAC proceedings as set forth in D. 92496 shall remain unchanged.