ANALYSIS OF SELECTED FINANCIAL ASPECTS OF THE ELECTRIC UTILITY INDUSTRY

prepared by

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The NRRI is making this report available to those concerned with state utility regulatory issues since the subject matter presented here is believed to be of timely interest to regulatory agencies and to others concerned with utilities regulation.

PREFACE

This study presents three separate reports on several aspects of electric utility finances. They are not intended to tell an integrated story but rather to shed additional light on three major themes in the general area of utility finance - capital needs of the industry; regulation in a period of sustained inflation; and comparative returns and risk in the regulated and non-regulated sectors.

Recent increases in energy costs and the reported decline in the financial position of electric utilities have led some analysts to predict future capital shortages in this industry. Such claims are typically based on various analyses of future plant requirements by the electric industry, analyses of the total supply of investible funds, and predictions concerning the future competitive position of the electric industry in capital markets. Since capital shortages have the potential of disrupting the provision of electric services and regulators must pass on proposed investment decisions, understanding the basis for these predictions has important implications for regulation. Part I treats this subject.

At the same time, there exists substantial evidence that a portion of commission regulation has in the past decade become a matter of accounting for inflation. The regulatory response in the face of an inflationary environment has centered on a whole series of devices and practices designed to give financial relief to the power sector. <u>Part II</u> considers this issue in narrative fashion.

Company requests for rate increases and the efforts of consumer groups toward "holding the line" on utility prices have been combined to place deliberations of public utility commissions increasingly in the limelight. The close scrutiny resulting from such pressures has still further enhanced the need of regulatory bodies for accurate, useful financial data on utilities to enable them to carry out their regulatory mandates. A definite need exists for accurate and current information comparing the rates of return for the regulated and non-regulated sectors. <u>Part III</u> helps provide that information.

PART I - AN ANALYSIS OF SELECTED STUDIES OF CAPITAL NEEDS IN THE ELECTRIC UTILITY INDUSTRY*

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*This report was prepared for The National Regulatory Research Institute at The Ohio State University. The views expressed are those of the author, Dr. Warren E. Farb, Consulting Economist, and do not necessarily reflect those of the Institute.

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EXECUTIVE SUMMARY

This report examines selected forecasts of the capital needs of the U.S. electric utilities industry during the next decade. It aims at providing a better understanding of these forecasts, and draws upon them to arrive at its own assessment of the electric utilities industry's probable capital needs between now and 1990.

Five recent studies, selected not only for their timeliness, but because they incorporate a range of methodologies and reflect a variety of institutional perspectives, are examined extensively: <u>Electrical</u> <u>World's</u> (EW) September 1978 annual forecast; an unpublished forecast by Data Resources, Inc. (DRI), based on their long-term trend macroeconomic forecast prepared during the winter of 1979; Bankers Trust Company's (BTC) <u>U.S. Energy and Capital: A Forecast 1979-82</u> (1978); an estimate developed in a forthcoming book by Martin Baughman, Paul Joskow, and Dilip Kamat (BJK), <u>Electric Power in the United States:</u> <u>Models and Policy Analysis</u>; and the U.S. Department of Energy's 1978 projection of electric utility capital need which is included in the Energy Information Administration's <u>Annual Report to Congress</u>, Vol. II. A number of earlier studies are also reviewed briefly and compared with the EW, DRI, BTC, BJK, and DOE forecasts.

EW's forecast is essentially judgmental, while the others are based on econometric models of differing size and complexity; the most complex being DOE's Mid-range Energy Forecasting System. Of all the forecasts included in this analysis, DRI's is the most independent of its assumptions, since it is based on simultaneous macroeconomic and energy-sector models. Preliminary results are thus allowed to feed back on the overall conditions which produce them. In contrast, BJK's model is based on assumed external economic conditions, though it determines demand internally and uses cost factors and construction lags rather than assumptions to project the distribution of plant type. DOE's model is the most detailed, even though it currently relies on assumed macroeconomic conditions. In addition, DOE's model is probably the most responsive to factors affecting supply and demand for energy products of all types. Throughout the 1979 to 1990 period, because of lags between initial planning and completion, all of the forecasts are heavily influenced by announced plans, work in progress, and the assumed rates of postponement and cancellation.

Perhaps the most striking conclusion of this analysis is that the estimates of capital need are relatively independent of the estimation procedure. EW, DRI, BJK, and the DOE all produce remarkably similar results. The variations that do exist seem to be primarily a result of differences in assumptions. Among the most important of these assumptions are the rate of increase in electric sales and peak demand, the mix of plant type and assumed reserve margins.

The following table summarizes the aggregate forecast of capital needs for each of these studies:

SUMMARY OF FORECASTS OF CAPITAL NEEDS OF ELECTRIC UTILITIES

FORECAST	TIME PERIOD OF FORECAST	CAPITAL NEEDS (billions of 1979 \$)
Baughman, et. al.	, 1979-1990	453
Bankers Trust Company	1979-1982	114
Department of Energy	1979-1985	229
Data Resources, Inc.	1979-1990	451
Electrical World	1979-1990	582

I. INTRODUCTION

This report examines selected forecasts of the capital needs of the U.S. electric utilities industry during the next decade. It aims at providing a better understanding of these forecasts, and draws upon them to arrive at its own assessment of the electric utilities industry's probable capital need between now and 1990.

The electric utilities sector is comprised of both investor- and publicly-owned companies. The latter account for about 25% of industry sales. They also tend to rely more heavily than investor-owned utilities on hydroelectric generation, and are therefore less burdened by the increasing cost of alternative energy sources. Also, because of their access to the public bond market, their financing costs are lower. Despite these differences in the financial characteristics of investorand publicly-owned electric utilities, however, this report treats their capital needs in the aggregate. The primary concern here is not the cost of capital, but how much will be needed, and by implication (but not considered in this report) whether U.S. and foreign capital markets will be able to meet the demand.

If electric utilities could finance their needs entirely from internal sources, they would make few demands on national or international capital markets. In fact, however, in recent years they have relied increasingly on external financing.¹ In the 1970's, investor-owned utilities met 40-50 percent of their capital requirements externally. By 1972, the share of external financing had increased to 61 percent, and by 1974, to 71 percent.

The surge in external financing in 1974 seems to have been something of an aberration, resulting from the cumulative impact of inflation, high

interest rates, and reductions in the rate of growth of demand for electricity. In 1976, however, after significant rate hikes, interest rate reductions, and curtailed plant construction had improved electric utilities' financial condition, the industry's external financing share was still 57 percent. In the current inflationary environment, this heavy reliance on outside capital is likely to continue, especially if electricity demand returns to pre-1974 growth rates. Inflation tends to reduce utilities' capacity to generate investment capital internally as costs increase more rapidly than rates.

Through the 1970's and into the early part of this decade, the capital requirements of the electric utilities increased dramatically relative to the rest of the economy. In 1970, capital outlays for investorowned utilities amounted to 6.4 percent of all non-financial business outlays. By 1971, the figure had reached 10 percent, and Hass estimated (in a study published in 1974) that it would average about 10.5 percent through 1985.² A more recent study by Bankers Trust Company (1978) tends to sustain Hass' leveling projection. It also indicates a sharp drop in the electric portion of total energy industry capital demand (see Table 1). If there has been a leveling tendency in electricity's share of the business market, it is probably the result of increased energy prices, slowdowns in the growth of the peak demand, reduced sales growth, regulation, and uncertainties about nuclear power. However, the apparent drop in electricity's share of the energy industries' total capital demand reflects the increased capital needs of the oil and gas sector following the 1973 OPEC embargo rather than a scaling back of electric capital demand.

ELECT	FRIC UT	ILITY	(AMOUNT	AND SHARE	
OF	CREDIT	AND	CAPITAL	MARKET,	
	1	972 1	to 1977	-	

Capital and Credit Market (billions of dollars)	974 1975	1976 ,	1977
<pre>(billions of dollars) Electric Utility External 8.8 10.3 14 Financing Energy Industry 11.3 13.3 20 Business Market 83 106 100</pre>	nang-sharan at <u>heory</u> at <u>heory</u> athe	, ,	
Financing Energy Industry 11.3 13.3 20 Business Market 83 106 100			
Business Market 83 106 100	1.4 9.7	10.8	10.6
	0.3 17.5	21.5	22.5
Total Market 178 202 189	0 45	77	115
	9. 206	269	338
Electric Utility Share of (percent)			
Energy Industry 77.9 77.4 70	0.9 55.4	50.2	47.0
Business Market 10.6 9.8 14	4.4 21.6	14.0	9.2
Total Market 4.9 5.1 3	7.6 4.7	4.0	3.1

Source: U.S. Energy and Capital: A Forecast 1978-82, Bankers Trust Company, 1978.

In absolute terms, the Bankers Trust findings suggest that electric capital demand overall has tended to increase steadily during the past several years.³ Moreover, a second recent study by <u>Electrical World</u> indicates that absolute increases in electric power system capital expenditures may have been even larger than Bankers Trust believes.⁴ Table 2 shows total U.S. electric power system capital expenditures as a share of total business expenditures for new plant and equipment.

Differences of opinion or method of counting the industry's past capital requirements complicate efforts to project such requirements through 1990. Surprisingly, however as we will see, there is substantial agreement on this issue among recent forecasts. The degree of consensus is especially interesting in view of the contingencies likely to affect electric utilities' capital investment over the next decade. First and foremost of these contingencies is the condition of the overall economy, and particularly the inflation rate. Inflation exerts a powerful influence on capital needs, not only because it tends to increase the utilities' dependency on external financing, but also because it affects economic growth and the growth in electricity demand.

In addition, environmental regulations continue to exert an uncertain influence on the amount of capital necessary to meet generation, transmission and distribution goals. Forecasts in the early 1970's, even if they assumed that anti-pollution restrictions would be imposed on the utilities, could only guess at the timing and cost of implementation. Recent studies are more informed about timing, but cost questions have yet to be answered with assurance.

TOTAL ELECTRIC POWER SYSTEM CAPITAL EXPENDITURES AS A SHARE OF TOTAL BUSINESS EXPENDITURES FOR NEW PLANT AND EQUIPMENT, 1967 to 1977

YEAR	ELECTRIC POWER CAPITAL EXPENDITURES	TOTAL BUSINESS NEW PLANT & EQUIP.	PERCENT ELECTRIC
1967	\$ 7.9	\$ 65.6	12.1%
1968	9.3	67.8	13.7
1969	10.7	75.6	14.2
1970	12.8	79.7	16.0
1971	15.1	81.2	18.6
1972	16.7	88.4	18.9
1973	18.7	99.7	18.8
1974	20.6	112.4	18.3
1975	20.2	112.8	17.9
1976	25.2	120.5	20.9
1977	27.7	135.8	20.4
1978	30.3	152.9	19.8

(dollars in billions)

Source: <u>Electrical World</u>, September 15, 1978 and <u>Business Conditions</u> <u>Digest</u>, February 1979. Energy prices and the effectiveness of the national energy conservation program are also powerful contingent influences on capital need. However, the mix of conventional and nuclear generating facilities may be even more important. As a rule, nuclear plants cost more than conventional ones, and take longer to bring "on line." For technical and political reasons, they are also most subject to postponements and cancellations in construction. While cancellations often reduce capital requirements, the effects of postponements are harder to anticipate. In the short term, decisions to extend construction schedules probably decrease capital requirements. However, continued delays may increase interest costs; single-shift construction may be less efficient; lower productivity may result from uncertain work schedules; and escalator clauses may apply over longer periods.

Finally, uncertainty about regional reserve requirements also increases the difficulty of forecasting electric utility capital needs. Assumptions about probable or "optimal" reserve margins are fundamental to all projections of peak generating capacity and therefore to estimates of capital needed for new generating facilities. Narrower reserve margins mean smaller capital requirements.

Several contingent factors--especially plant mix, energy prices, and inflation--have had a more profound influence on electric utility capital needs than could have been anticipated even a few years ago. In effect, the oil embargo and its aftermath, public ambivalence toward nuclear power, and nagging inflation constitute a water-shed between forecasts of the early 1970's and those of the past twelve or eighteen months. The most recent forecasts also reflect greater certainty about the timing

of regulatory implementation; they are based on more up-to-date information on utility companies' construction plans; and they take account of the slower growth in electricity demand during the last half-decade.

For these reasons, recent forecasts of electric utility capital need are examined more extensively in the following pages than several well-known earlier studies, which are also reviewed. These recent studies have been selected not only because of their timeliness, but also because they incorporate a range of methodologies and reflect a variety of institutional perspectives. Of the five studies in this group, Electrical World's (EW) annual forecast is probably the most widely known and used in the industry. EW's projections, which extend through 1995, are not based on a formal econometric model. Hence, in a technical sense, they are more "subjective" than other estimates considered here. In contrast, the Data Resources, Inc. (DRI) forecast is based on the integration of simultaneous macroeconomic and energy sector models. DRI updates its projections several times each year. The forecast considered here is based on their longterm trend macroeconomic forecast prepared during the winter of 1979.⁵ Bankers Trust Company's (BTC) U.S. Energy and Capital: A Forecast 1979-82 (1978) is included as a representative banking industry perspective on electric utility capital requirements. A fourth estimate, drawn from a forthcoming book by Martin Baughman, Paul Jaskow, and Dilip Kamat (BJK), is the only recent "academic" forecast examined.⁶ A federal persepective is provided by the Department of Energy's annual projection of electric utility capital need.⁷ DOE's findings are based on a sophisticated linear programming model--formerly called the Project Independence Evaluation System (PIES), now called the Mid-range Energy Forecasting System (MEFS)-which has been the controversial basis of much of the Department's analysis.

Three important, but dated, additional studies are also reviewed briefly below and compared with the EW, DRI, BTC, BJK and DOE forecasts: <u>Financing the Energy Industry (1974)</u>, by Jerome Hass, Edward Mitchell, and Bernell Stone; <u>Economic and Financial Impacts of Federal Air and</u> <u>Water Pollution Control on the Electric Utility Industry</u> (1976), by Temple, Barker, and Sloane, Inc.; and the Federal Power Commission's National Power Survey, <u>The Financial Outlook for the Electric Power</u> <u>Industry (1974)</u>.

II. FORECASTS OF CAPITAL NEEDS

A. Electrical World, 29th Annual Electric Industry Forecast

The annual forecast prepared by the staff of <u>Electrical World</u> is among the most widely used forecasts of the electric utility industry. The most recent <u>EW</u> forecast was published September 15, 1978, and makes projections to 1995. It begins with a projection of overall economic growth and works toward the implications for the electric utility sector. For the 1980 to 1990 period, real economic growth is expected to average about 3.4 percent per year, with more rapid growth during the early 1980's, slowing to about 3% in the second half of the decade. This relatively modest projection assumes that accelerating wages, continued sluggish productivity growth, troubles with the dollar, and increasing energy prices will keep inflation rates high in the near term. In fact, recent developments suggest that the EW estimate of 6.3 percent inflation for the 1977 to 1981 period may prove conservative. For the 1982 to 1990 period, EW anticipates an average 5 percent inflation rate.⁸

EW's macroeconomic projections assume that current Administration efforts will have little short-term impact on inflation, and that persistent inflation combined with increasing real energy prices which drain purchasing power from other sectors will slow overall expansion. EW's general outlook also takes account of the implications for slower growth of an expected one percent increase in the working age population over the forecast period, down from two percent in 1967 to 1978. This reduction is important because new labor force entrants tend to be the principal purchasers of durable goods. In addition, EW notes that aging of the U.S. population at large implies an increase in the age groups that have already made major expenditures and are unlikely to reenter the market.

In translating economic growth into increased electric utility sales, EW breaks sales into four categories--residential, industrial, commercial, and other. Sales and peak demand are then estimated independently by region. Total sales are expected to grow at an average annual rate of 4.0 percent over the 1979 to 1990 period. In 1978, growth was less than 2.5 percent which EW believes artificially depressed the forecast base. EW assumes that the lost sales will be made up by a 4.4 percent increase in sales in 1979 despite their projection of slower economic growth in 1979 than in 1978.

Table 3 summarizes EW's electricity sales growth forecast. Growth in industrial use of electricity is projected to average 3.9 percent over the 1979 to 1990 period, a sharp downward shift from previous EW forecasts. This change is the result of slower-than-expected growth in the late 70's, a downward revision of expectations about industrial production in the second half of the 1980's, and an upward revision in estimates of the potential gains from conservation and improved energy management.

ELECTRICAL WORLD FORECAST OF ANNUAL GROWTH IN ELECTRIC UTILITY SALES (billions of KWH) 1979 to 1990

YEAR	RESIDENTIAL	INDUSTRIAL	COMMERCIAL	OTHER	TOTAL
1979	4.4%	4.2%	5.0%	3.6%	4.3%
1980	4.4	3.6	3.0	3.4	3.8
1981	5.0	4.2	5.0	3.4	4.6
1982	4.7	3.8	5.5	3.4	4.5
1983	4.5	3.5	5.0	3.4	4.3
1984	4.4	3.8	4.5	3.4	4.2
1985	4.0	3.9	4.2	3.3	4.0
1986	3.6	3.9	4.0	3.4	3.8
1987	3.7	3.9	3.9	3.5	3.8
1988	3.4	4.0	3.9	3.4	3.7
1989	3.3	4.0	3.8	3.4	3.7
1990	3.3	4.0	3.8	3.4	3.7
1979- 1990	4.0	3.9	4.2	3.4	4.0

Source: Electrical World, September 15, 1978

In determining capital needs, EW considers changes in peak demand and the gross peak margin to be more important than, and independent of, total sales increases. It reports that as a result of surprisingly slow peak demand growth in 1978, an unusually high reserve capacity margin, and continuing load factor deterioration, deferments and cancellations of planned projects are likely in the near term. However, EW is not prepared to view the low growth in 1978 peak as a harbinger of future developments. It forecasts a gradual decline in the gross peak margin from about 38 percent in 1978 to 18 percent in 1990, and anticipates that large capital expenditures for generation will continue to be required to meet the expected growth in peak demand. However, this estimate of peak demand growth and continued deterioration in load factor is based on past trends and judgement and may prove to be mistaken in an environment of rising real energy costs.

Table 4 summarizes EW estimates of capital expenditures for the 1979 to 1990 period. These estimates reflect the current slowdown in nuclear plant construction, although it is assumed that nuclear construction will pick up during the early 1980's. The estimates also reflect the costs of anti-pollution requirements. About one-third of distribution expenditures are expected to go for plant replacement, which makes them extremely sensitive to year-by-year decisions of management. Expenditures for transmission facilities are linked to generation additions and, therefore, reflect those patterns.

B. Data Resources Incorporated

Data Resources, Inc. (DRI) has estimated the capital needs of the electric utility sector as an integral part of their long-term macroeconomic forecast of the U.S. economy. DRI projects the capital needs

ELECTRICAL WORLD FORECAST OF ELECTRIC UTILITY CAPITAL NEEDS, 1979 to 1990

(billions of dollars)

	GENER	ATION		N, DISTRIBU- SCELLANEOUS	TOTAL	
YEAR	FUTURE \$	1979 \$	FUTURE \$	1979 \$	FUTURE \$	1979 \$
1979	23.1	23.1	9.7	9.7	32.8	32.8
1980	26.4	24.8	9.8	9.2	36.0	33.9
1981	28.4	25.1	11.1	9.8	39.4	34.9
1982	28.6	24.1	12.2	10.3	40.9	34.5
1983	29.9	24.0	12.8	10.3	42.7	34.3
1984	36.0	27.5	13.3	10.2	49.2	37.6
1985	48.6	35.4	14.3	10.3	62.9	45.8
1986	65.5	45.4	15.9	11.0	81.3	56.4
1987	78.0	51.5	18.6	12.3	96.6	63.8
1988	87.1	54.8	20.2	12.7	107.3	67.5
1989	94.1	56.4	21.7	13.0	115.7	69.3
1990	100.6	57.4	23.7	13.5	124.3	70.9
1979-19	990 646.3	449.5	183.3	132.4	829.1	581.7

Source: Electrical World, September 15, 1978

of electric utilities based on their forecast of overall economic activity and then modifies these requirements by allowing the energy sector to "feed back" on their macroeconomic forecast. Prior to 1987, however, modeled forecasts of the utilities' needs are determined in conjunction with the announced construction plans of the companies.

The DRI energy forecast discussed here is based on DRI's long-termtrend macroeconomic forecast prepared during the winter of 1979. This forecast indicates that real GNP will grow by about 3.9 percent per year through 1985, with cyclical downturns in 1979 and 1982. For the 1986 to 1990 period, DRI expects real GNP growth to be about 3.1 percent per year. Throughout the 1979 to 1990 period, they foresee an inflation rate fluctuating between 5.4 percent and 7.6 percent--high by historical standards, but relatively stable.

From this macroeconomic base, DRI forecasts energy prices, which are combined with the industrial production index to determine industrial demand for electricity by region of the country. Per capita disposable income, population, and the stock of electrical household goods interact with energy prices to determine regional residential demand for electricity. Commercial electric demand is determined by energy prices and commercial employment by region. Throughout this process the DRI model permits substitution among fuels as various prices change in response to demand. Energy prices fed back into the macroeconomic model allow simultaneous determination of energy prices and relevant economic variables such as industrial production. In contrast, EW seems to rely exclusively on announced plans and judgement in determining demand and the mix of new generating plants.

Once regional demands for electricity are determined by the DRI model, the totals are adjusted to include interdepartmental, own, and railroad use.

Then they are summed. The result is converted to a generation-todemand ratio for each region to reflect existing patterns of transmission. The reserve margin for each region is then derived based on an estimate of peak demand developed from the historic peak load factor in each region.

By relating the capital need to peak demand and assuming a constant load factor, the DRI system implicitly assumes that the mix of base, intermediate, and peak generating plant will remain constant. The calculations of the cost of additional plants are based on this ratio and per kilowatt hour construction costs. In contrast, EW's method of estimating total sales and peak demand growth separately allows their forecast to reflect a changing mix in the type of generating plants built. However, EW's forecast is subject to second guessing regarding the relative growth rates in base, intermediate, and peak demand. The Department of Energy methodology, discussed in Section E employs load duration curves for each region to escape the dilemma of assuming the current relationships (DRI), or the continuation of trends (EW) and thus allows the greatest flexibility in forecasting plant requirements. However, the DOE's load duration curves are greatly influenced by current operations; so in practice their estimates are probably not significantly different from DRI's.

DRI's projections of the electric utilities' capital needs are determined for each region by allowing the electrical system to move toward a subjectively pre-determined regional "target" reserve margin. The "target" reserve margin is based on historical relationships and existing interconnections between companies and regions.

DRI's capital need estimates are by the year the project enters the rate base rather than by actual annual expenditures. Prior to 1987,

therefore, work planned and in progress modifies the model's attempt to move the system toward the target reserve margin since it would be impossible to plan, build, and open a plant in 1987 that is not already somewhere in the planning-construction cycle. Also, projects already fully committed cannot be cancelled even if they will not be needed. The costs of conventional generation facilities are determined by summing the planned increases in rate base across all companies. As in the EW forecast, each electric utility company is considered separately. For nuclear plants, DRI exercises some judgement in extending the reported timetables because of the poor track record of utilities in completing these projects according to plan.

While the DRI methodology can be criticized as being overly tied to past relationships, it does provide a benchmark for gauging alternative assumptions. If it is assumed that the load factor continues its downward trend, the DRI estimates will be low. Alternatively, if the load factor improves, the DRI estimate will be high. Regardless of the actual result, the basis for comparison is a known.

It should be noted that the DRI model assumes a continuation of existing regional generation-to-demand ratios. These ratios may also change over time, affecting the capital needs estimates. It is also likely that revised versions of the DRI model will attempt to estimate the growth in peak demand directly rather than assume a fixed relationship to sales growth. But, this "improvement" may be of limited value since it will necessarily be tied to weather, the rate of technological change, and conservation.

Finally, it is important to remember that the DRI estimates of capital needs are not year-by-year expenditures. They are capital increases

coming on line in a given year. In most jurisdictions, this means that the <u>total</u> cost of a given plant is counted in the year it enters the rate base. Consequently, the DRI capital needs forecast is not comparable to the others which are reported here on a year-by-year basis. An approximate comparison, however, can be made by summing the expenditures over several years. Table 5 shows the capital expenditure estimates of DRI and selected alternative forecasts for 1979 to 1985, 1986 to 1990, and for the entire 1979 to 1990 period.

As is expected from the relatively high, but perhaps realistic, inflation rate incorporated in the DRI forecast, the current dollar estimates appear higher, in comparison with the other projections, than the estimates based on constant dollars. Nevertheless, the DRI forecast of capital requirements tends to be on the low side, primarily because of a relatively low estimate (3.2 percent) of annual growth in electric sales for the forecast period. Moreover, because of the way the DRI model is constructed, the introduction of a business downturn would reduce the demand for electricity and consequently the optimal capital requirements. The reduction in the optimal capital needs would reduce the actual capital needs in the 1986 to 1990 period and would probably result in further delays in the completions and activation of nuclear plants.

C. Bankers Trust Company

In 1978, Bankers Trust Company (BTC) published a "best guess" as to the capital needs of the electric utility industry extending through 1982. This estimate is a part of a planned biennial review of the U.S. demand and supply of energy and the consequent capital needs for the energy industry as a whole.⁹

DRI AND SELECTED ALTERNATIVE FORECASTS OF ELECTRIC UTILITY CAPITAL NEEDS, 1979 to 1990 (billions of dollars)

		FUTURE \$			1979 \$	
	1979-1985	1986-1990	1979-1990	1979-1985	1986-1990	1979-1990
DATA RESOURCES INCORPORATED						
Generation	207.5	321.4	528.9	164.3	186.9	351.1
Transmission, Distribution, & Misc.	73.4	_68.1	141.5	60.3	39.8	<u>100.1</u>
TOTAL	280.9	389.5	670.4	224.4	226.5	450.9
ELECTRICAL WORLD						
Generation	221.0	425.3	646.3	184.0	265.5	449.5
Transmission, Distribution, & Misc.	83.2	100.1	183.3	69.9	_62.5	132.4
TOTAL	304.2	525.4	829.6	253.8	327.9	581.7
BOUGHMAN, JOSKOW & KAMAT						
Generation	135.8	216.2	352.0	113.2	132.9	246.1
Transmission, Distribution, & Misc.	125.5	166.3	291.8	104.8	<u>102.0</u>	206.8
TOTAL	261.3	382.5	643.8	218.0	234.9	452.9

Source: Table 4, Table 9 and Data Resources Incorporated

Unlike DRI, EW and other forecasters, BTC assumes certain macroeconomic conditions rather than determining them independently; though it seems likely that their assumptions are influenced by the available economic forecasts including DRI's and EW's. BTC assumes that economic growth, as measured by the rate of increase in real GNP, will range between 3.2 and 4.3 percent and average 3.8 percent between 1978 and 1982.

The relatively narrow range of assumed annual GNP increases seems to indicate that BTC expects the economy to be free of any major cycles over the forecast period. BTC also seems to assume that the domestic inflation rate and the rate of increase in world crude oil prices will be relatively constant at about 6 percent. They expect domestic energy prices to rise somewhat faster, however, because of increases toward world price levels of domestic oil and gas. Domestic crude oil is assumed to equal world prices by 1982, and natural gas is assumed to approach the world price of crude oil by 1982 (on the basis of equivalent BTU content). BTC assumes more rapid price advances for capital goods in the energy sector (6.3 percent) than for the economy as a whole. The 5-percent differential is attributed to high rates of investment in some of the energy industries that force up the cost of materials and skilled labor.

Finally, BTC also assumes that government tax policy will not play a significant role in determining energy use; that there will be adequate available supplies of oil and natural gas; that any shortage of domestic capital will be made up from foreign sources, since rates of return will be high enough to attract the needed capital; and that there will be no significant alteration in government statutes or regulations relating to environmental protection.

On the basis of these assumptions, BTC estimates the amount and type of energy needed by consuming sectors. Table 6 summarizes their estimates of electricity sales growth by sector. In the household and commercial areas, they expect that electricity use will increase at a 4.6 percent average annual rate, although they see total energy use in this sector increasing at less than half the historic rate, largely because of consumer efficiency in response to higher prices. BTC expects efficiency increases to be concentrated in the household sector, but they also think that commercial electricity use will grow at less than its recent historic rate.

TABLE 6

BTC ESTIMATES OF AVERAGE ANNUAL GROWTH OF ELECTRICITY DEMAND BY CONSUMING SECTORS, 1979 to 1982 (percent)

Sector	1979	1980	1981	1982	1979-82
Household & Commercial	4.3	4.2	4.0	5.8	4.6
Industrial	3.1	6.1	5.7	5.4	5.7
Total	3.7	5.2	4.9	5.6	5.2

Source: Bankers Trust Company, 1978

Within the household sector alone, which is not reported separately, BTC expects the growth in electric consumption will be influenced by the makeup of the housing stock. Even though they forecast an average annual rate of more than 2 million new units, they think these houses will be more energy efficient than older units. They see space heating demands for all types of energy moderating as uninsulated older units are replaced with more energy efficient ones. Also, BTC estimates that 3 to 4 million additional existing housing units will be insulated each year, further reducing the growth in energy demand of the housing sector.

BTC estimates that commercial use of all energy will grow at 6.5 percent per year. While this is more than the average rate of increase for the economy as a whole, it is well below historic growth rates for the commercial sector which have ranged up to 9 percent per year. BTC attributes this still relatively high (6.5 percent) projection to continuing increases in services as a share of GNP. Since the conservation potential of this sector is comparable to the household sector, some reduction from the historic growth rate is to be expected. Judging from the estimates shown in Table 6, however, it appears that BTC expects most of the savings to be reflected in reduced growth in demand for non-electric energy sources instead of electricity itself.

BTC's assumption about the sensitivity of energy demand to price is particularly evident in the industrial sector. They see total energy demand by industry increasing by only 2.5 percent per year. Electricity consumption, however, is forecast to increase 5.7 percent per year---a rate comparable to pre-embargo electric demand growth. Even though electricity prices are expected to increase, BTC does not believe that the industrial sector will be able to substitute fuels or significantly improve the efficiency of electricity use. The DRI model, in contrast, specifically allows for fuel substitution in response to fuel price

changes. The major link between DRI's macroeconomic and energy models is the impact of fuel price increases on demand for each type of fuel and the simultaneous impact of changes in energy prices on industrial production. In view of the different time horizons of the two forecasts, this contrast is probably less important than it appears. While it is reasonable to assume that industries will adjust to the increasing real price of energy over time, the process is likely to be an extended one.

Even with the relatively rapid rate of increase in commercial use of electricity, BTC forecasts only a 5.2 percent annual growth in the total demand between 1978 and 1982. This is considerably below the 1970 to 1973 rate of 6.6 percent, but well above the rates assumed by EW and DRI.

BTC does not consider the rate of increase of peak demand growth separately from sales growth. Consequently, even though the BTC analysts foresee some efficiency improvement as a result of price increases, they do not expect this to affect load factors. The mix of base and peak load generating capacity is, therefore, implicitly assumed to be unchanged over the forecast period.

In converting the estimates of increased electric consumption to required additional generation capacity and capital needs, BTC concentrates not only on aggregate demand, but on the electric industry as a primary consumer of fuel. As Table 7 shows, they expect electric utilities' total energy demand to increase at a 4.6 percent average annual rate between 1978 and 1982, with largest increases for coal and nuclear generation.

BTC projects that the electric utility sector will increase its dependence on coal-fired generation, and that by 1982, it will produce

Demand for:	1979	1980	1981	1982	1978-1982
Coal	7.0	5.7	6.2	4.4	5.8
Petroleum	4.7	2.2	2.2	0.0	2.2
Natural Gas	-14.8	-13.0	-15.0	-11.8	-9.6
Nuclear Power	14.8	19.4	16.2	23.3	18.4
Hydro Power	0.0	0.0	0.0	0.0	0.0
Total	4.1	6.0	3.4	5.1	4.6

BTC FORECAST OF GROWTH OF ENERGY FUEL SOURCE DEMAND FOR ELECTRIC GENERATION 1978 to 1982

(percent)

Source: Bankers Trust Company, 1978

half of its total power output with coal. More importantly, in terms of capital demand, BTC contends that, despite cancellations and delays in construction, nuclear facilities will meet 18 percent of the utilities' generation needs by 1982. In 1976, nuclear plants accounted for only about 9 percent of the electric utility industries' energy requirement.

BTC's estimates of the capital needs of the electric utility sector for 1979 to 1982 are summarized in Table 8. These forecasts are based on announced plans, but they also try to allow for slippage in construction schedules, optimism, inconsistency with the industry needs and institutional and other factors. Although Table 8 is constructed to be comparable with the other similar tables in this report, the BTC study provides details which are not presented there. In particular, it includes two categories of capital expenditure not considered separately by the others: flue gas desulfurization; and working capital. In Table 8, the flue gas desulfurization is added to the generation category. The working capital estimates, important to BTC because of their interest in total financial requirements of the industry, are short term and not a direct indication of the industry's need for investment funds. Thus, they are excluded. BTC also breaks down the capital needs estimate into internal and external financing requirements. The industry's external financing needs are projected to be lower during the 1979 to 1982 period than during the 1970's. BTC estimates that only about 4 percent of total capital and credit, and 10 to 11 percent of the share of the capital and credit going to business, will be absorbed by the electric utility industry over the forecast period. In the early 1970's, electric utilities accounted for 5 to 7 percent of the total capital and credit market, and for the 1972 to 1977 period, on average, about 13 percent of the business (see Table 2).

BANKERS TRUST COMPANY FORECAST OF ELECTRIC UTILITY CAPITAL NEEDS 1979 to 1982 (billions of dollars)

GENERATION TRANSMISSION, DISTRI-TOTAL BUTION & MISCELLANEOUS FUTURE \$ 1979 \$ FUTURE \$ 1979 \$ FUTURE \$ 1979.\$ 1979 19.6 19.6 9.8 9.8 27.4 27.3 19.5 18.3 10.5 30.0 28.2 1980 9.9 1981 21.4 18.9 11.1 9.8 32.5 28.8 29.1 1982 23.3 19.4 11.7 9.7 35.0 1979-74.2 1982 81.8 43.1 39.2 124.9 113.5

Source: Bankers Trust Company, 1978

BTC's forecast of \$74 billion in real capital needs for generation between 1979 and 1982 is considerably lower than EW's or DRIs. The discrepancy may stem partly from the proximity of BTC's time horizon and from the presumed impact of energy conservation. More importantly, however, BTC analysts may have been persuaded to stretch out estimated construction schedules because of declining growth in electricity demand in the late 1970's, and because they foresee high reserve margins and increasing reliance on nuclear generation during the forecast period. Historically, nuclear plants have taken longer to bring "on line," and have been more susceptible to construction delays and cancellations than conventional facilities.

Although BTC's projected capital needs for generation is lower than other forecasts, they expect generation expenditures to increase more rapidly than expenditures for transmission and distribution. This is partly because of the high cost of nuclear plant construction, but also because of anticipated construction delays which tend to increase overall production estimates. In contrast, EW assumes continuation of past average trends in construction expenditures for generation. Surprisingly, however, their estimates of transmission and distribution outlays are about the same as those forecast by BTC.

D. Baughman, Joskow and Kamat

In a forthcoming book on the electric utilities industry, Martin Baughman, Paul Joskow and Dilip Kamat (BJK) have three main goals: to forecast the capital needs of the industry over the next twenty-five years and the primary sources of that capital; to demonstrate that a capital shortage for a regulated industry is conceivable; and to examine the

effects on the electric utility industry of several regulatory and tax policy changes.¹⁰ Their capital need forecast covers 1976 to 2000, but only the results for the 1979 to 1990 period are considered here.

BJK have constructed their own model of the U.S. electrical power industry. In developing their base case forecast, they incorporate what they believe to be the best estimates of current trends and expectations for the various macroeconomic, energy supply, capital equipment cost, and regulatory parameters. They make optimistic assumptions about financial conditions to bias the results slightly away from a capital shortage situation. In this way the impact of changes in the regulatory environment on capital availability can be more fully appreciated.¹¹ However, it should be recognized that BJK's estimates of electric utility capital need are somewhat higher than they would have been if financial conditions were assumed to be less favorable to the industry. In fact, BJK's estimates are still relatively conservative, even for projections made in 1976. Between 1975 and 1979, most electric utility analysts have been revising their forecasts of capital needs downward as demand has increased more slowly than expected.

The BJK model does not attempt to forecast basic economic variables for the forecast period. Instead, it assumes that the economy will grow at an average annual rate of 3.8 percent, somewhat higher than the DRI forecast. The inflation rate is assumed to be 5.5 percent per year, which is probably low given today's economy. Other exogenous variables include population, income and value added in manufacturing. This last variable is a measure of industrial production and plays an important role in determining industrial demand for electric power.

In conjunction with assumed primary energy prices, these economic variables determine the price of electric power by region. Once energy prices are determined, the model forecasts total electric demand, which is converted to a peak demand forecast through the use of historical load factors for each region of the country. Unlike the DRI forecast which assumes historic load factors, however, BJK expect load factors to decline slightly throughout the 1980's and then hold constant through the rest of the forecast period by BJK. Their forecasts of peak demand are, therefore, dependent on two key exogenous assumptions--the growth rate of the economy and the load factor. Slower economic growth or cyclical rather than steady growth would result in lower estimates of peak demand. Also, if load factors should improve, lower estimates of peak demand would result. From the peak demand estimates, the model determines the necessary electric generating capacity.

Additions to capacity depend on the lead time required, the cost of alternative types of generation plants, and the reserve margin in each region. BJK assumes that nuclear plants require 10 years, fossil fuel plants 4 years, and gas turbine plants 2.5 years to come "on line." The target reserve margin is set at 20 percent in all regions; but through 1985 the additions to capacity are modified to take into consideration plans already announced. As is true in the other forecasts considered here, the announced nuclear plans are stretched out to allow for construction and regulatory delays.

Table 9 summarizes BJK's base case forecast of the electric power industry's capital expenditures through 1990. BJK differ considerably from other estimates with regard to the composition of the expenditures

TABLE 9

BAUGHMAN, JOSKOW AND KAMAT FORECAST OF CAPITAL NEEDS OF THE ELECTRIC UTILITY SECTOR 1979 to 1990 (billions of dollars)

TRANSMISSION, DISTRIBUTION, GENERATION & MISCELLANEOUS TOTAL 1979 \$ FUTURE \$ FUTURE \$ 1979 \$ 1979 \$ FUTURE \$ 1979 10.5 12.5 12.5 10.5 23.0 23.0 1980 14.9 14.1 13.3 12.6 28.2 26.7 1981 19.7 17.7 16.4 14.7 36.1 32.4 22.4 19.1 18.3 15.6 40.7 1982 34.7 15.5 20.2 1983 19.2 16.3 39.4 31.8 1984 19.9 15.2 20.9 16.0 40.8 31.2 1985 29.2 21.2 23.9 17.3 53.1 38.5 38.7 26.6 27.8 19.1 45.7 1986 66.5 1987 42.6 27.7 31.0 20.2 73.6 47.9 1988 41.5 25.6 32.9 20.3 74.4 45.9 35.1 20.5 1989 43.4 25.4 78.5 45.9 27.7 39.5 21.9 89.5 49.6 1990 50.0 1979-1990 352.0 246.3 291.8 207.0 643.8 453.2

Source: Baughman, Joskow and Kamat, forthcoming

between transmission and generation, and the distribution of these expenditures over time. In the EW and DRI forecasts, nearly 80 percent of all capital expenditures between 1979 and 1990 are for generation. In contrast, BJK expect these expenditures to be about evenly split between generation and transmission, distribution and miscellaneous. Although the disparity is not completely accounted for, BJK point out that they include the costs of any transmission required to tie new generating plant into the transmission grid as a transmission expenditure, while EW and the others follow the more usual convention of counting these as generation expenditures.

Other disparities in the proportion of expenditures for generation may arise from differing assumptions about generation-to-demand ratios for each region. EW and DRI follow historical patterns to determine regional load factors. In the DRI model, these load factors are used to develop estimates of peak demand which are then compared with generation capacity to determine the region's reserve margin. Regions traditionally selling large amounts of power to neighboring areas are, therefore, assigned higher target reserve margins than regions that have a history of purchasing power to meet peaks.

BJK's targeting of all regions to a 20-percent reserve margin after 1985, makes a different pattern of expenditures inevitable. While it is impossible to determine which of the assumptions regarding reserve margins is better, it is clear that a lower target margin reduces capital needs for generation capacity, but possibly increases the capital needs for transmission and distribution facilities. The DRI projections for new plants, therefore, may be somewhat lower because they allow for some

reserve margins to go as low as 15 percent. However, this may not be reflected in the summary tables because of DRI's practice of including costs of tying a plant into the transmission grid as generation expenditures. The relatively high EW forecast also allows reserve margins to fall below 20 percent, on average. The EW forecast, however, is also heavily influenced by its estimates of sales and peak growth in determining capital needs.

E. United States Department of Energy

The Department of Energy's (DOE) forecast of the capital needs of the electric utility industry is included as a part of their annual projections of national supply and demand for energy. Three separate estimates are reported based on alternative assumptions put through the Mid-Range Energy Forecasting System (MEFS), formerly known as the Project Independence Evaluation System (PIES).

MEFS is a comprehensive energy model designed to forecast energy equilibrium conditions in the U.S. economy.¹² Of the models discussed in the report, it is by far the most extensive and complex. Moreover, the electric utility sub-model of MEFS is the most detailed and complex of the various pieces that make up the complete system. MEFS produces "snapshots" of the energy economy on an average day at specified planning horizons. For the 1978 <u>Annual Report</u>, these snapshots were for January 1, 1985 and 1990. The capital needs estimates, however, were only calculated for the 1985 equilibrium. It is expected that the 1979 report will show capital need forecasts for each year through 1990.

MEFS can be thought of as having three basic pieces: a demand model, a supply model, and an equilibrating mechanism that brings the supply

and demand sides together. The equilibrating mechanism, which is the heart of the system, is a static linear programming model which produces optimum supply and equilibrium pieces given forecast demand levels, capacity and cost considerations, and policy decisions such as price regulations that can influence market behavior. For the electric utility sector, MEFS estimates future demand for electricity, capacity additions, capital coefficients, activity levels, and capital requirements in dollars.

The MEFS equilibrating mechanism, or integrating model, determines a partial equilibrium of supply and demand for different fuel types for each of ten DOE regions. The model forecasts energy consumption levels in each of the regions and shows how consumption is distributed among ten fuel products, including electricity. It also identifies the geographic source of these fuels, how they will be transported, and how they will be converted for final consumption. This is done through a series of 300 fuel demand functions that are estimated econometrically, and numerous fuel supply schedules that are estimated by engineeringeconomic models which permit profit maximizing private behavior. The integrating model then finds the least-cost way to satisfy the demands, subject to the costs of transporting and converting raw energy into the energy products demanded, and subject to the other constraints including the linear program. MEFS supplies information about the entire energy sector. In this report, however, only those parts of the model that relate to the capital needs of the electric utility industry are discussed.

To begin the forecasting process, MEFS requires that the equilibrium values of GNP, population, and income for the target years be assumed or supplied from some other source. For the 1977 <u>Annual Report</u>, ten alternative combinations were developed, but only three were used to estimate capital

needs. One of these, the reference case, is based on mid-range supply and reserve, and moderate economic growth assumptions. The "high" case assumes high resource availability, low capital equipment cost inflation and relatively rapid economic growth. The third or "low" case assumes that resources will be scarce, capital cost inflation high, and economic growth slow. All three alternatives assume that the world real price of crude oil will be constant at \$15.32 (although some of the other alternatives allow the price to increase 5 percent per year).

The demand side of MEFS is relatively simple in comparison with the supply side. Demand functions are estimated for 30 separate products in each of the ten regions. These functions are governed by the general level of economic activity, the nature and extent of conservation programs, and numerous other assumptions.¹³ Unlike the DRI model, neither these econometrically-derived demand functions, nor any of the subsequent assumptions or estimates feed back on a macroeconomic model.

Future development of MEFS will include much more detailed demand sectors, particularly for households, that will interact with the rest of the model. Until these new modules are completed, however, the Department of Energy will probably continue to use widely available macroeconomic forecasts (e.g. DRI's) that reflect a consensus view of aggregate demand. Since the models which generate these forecasts incorporate energy sectors, albeit much more aggregated ones than MEFS, it is possible that unknown biases are being introduced into the MEFS forecast.

Table 10 summarizes the three key macroeconomic assumptions for the MEF's "high," "medium," and "low" forecasts. MEFS's reference or "medium" case macroeconomic assumptions are those of the DRI "TRENDLONG,"

TABLE 10

Year	High	Medium	Low
Real Gross National Product	ал (1999 меня) (1999 м.). — 1999 — 1999 м. — 1999 м. — 1999 м.).		a Mina dala - dal kati interiore optime transme
1974-1980	5.5	4.7	4.7
1980-1995	3.4	3.7	3.0
1984-1990	2.9	3.1	2.4
Real Value Added in Manufacturing			
1975-1980	7.9	6.5	6.4
1980-1985	4.3	5.1	4.5
1985-1990	3.8	4.3	3.1
Real Personal Disposable Income			
1975-1980	4.7	3.8	3.9
1980-1985	3.2	3.8	3.1
1985-1990	3.1	3.5	2.9

MACROECONOMIC ASSUMPTIONS OF THE DOE FORECASTS (Average Annual Rate of Growth)

Source: Energy Information Administration, <u>Annual Report to the Congress</u>, Vol. II Appendix, (U.S. Department of Energy, Washington, D.C. September 1978) released in August 1977. According to this forecast, the economy will grow at an average annual rate of about 3.7 percent between 1980 and 1985, and then slow to a 3.1 percent rate during the 1985 to 1990 period. Inflation is expected to average about 5.5 percent through 1983, with the annual rate declining to 4.1 percent by 1990. Energy prices at the wholesale level are expected to increase at an annual average rate of about 7.5 percent, which is roughly consistent with the MEFS assumption of a constant real-world oil price.

The "high" forecast is based on the DRI "CEASPIRIT" of early 1977. The economic strength projected in this forecast assumes a somewhat slower average rate of inflation through 1983 than the "medium" case (about 5.2 percent), and a significantly slower rate of increase in wholesale energy prices (5 percent). This later assumption is inconsistent with the MEFS assumption of constant world oil prices, and therefore causes MEFS to estimate supplies of the various energy products at higher prices than DRI used to determine aggregate demand. Any bias this may introduce into the estimates, however, is at the least partially offset by the assumed larger domestic oil supply.

MEF's "low" estimates are based on the DRI "CYCLELONG" alternative of August 1977. In this simulation, inflation is forecast at a 7-percent annual rate through 1983, increasing to 8 percent during the 1984 to 1990 period. Over the full forecast period of 1978 to 1990, the "low" alternative predicts an average annual rise of more than 12 percent in wholesale energy prices. However, any excess supply of energy resulting from higher prices is offset by assumed lower domestic supplies.

The supply side of MEFS is comprised of a series of independent models which represent the flow of fuels from production through conversion

to final demand. The electric utilities submodel estimates the new generating capacity required to meet the demand for electricity. Subject to price and supply constraints, the model chooses the types and mix of capacity required to meet load demands that is consistent with the overall optimization throughout MEFS.

The results of the MEFS model, therefore, reflect the generating capacity that is "on line," as do the DRI estimates. In contrast to DRI, however, since a primary interest of the DOE is to indicate the impact of energy supply and demand on the capital market, they have adjusted the MEFS results to show capital expenditures made during the forecast period. These initial results from MEFS are reduced by an estimate of capital costs made prior to 1978, and to the extent possible, based on announced plans adjusted for delays and postponements. Through 1984, the capital cost of work in progress on plants not yet in service but under construction is added.

Even after the adjustments for work in progress are made, however, the DOE estimates are still not easily compared with the others included in this report. Because the MEFS model is designed to forecast an equilibrium for a given date, its capital need forecast is not annual. In the case of the <u>Annual Report</u> for 1977, for example, the estimate of capital needs covers the entire period from January 1, 1978 to January 1, 1985.

In determining capital needs, the electric utilities submodel converts demand into base, intermediate, and peak load by using regional load duration curves. Although these curves are determined exogenously, they follow existing load patterns.¹⁴ The model then determines the amount and type

of generating plant needed to meet the three modes of demand within each region. Regions are constrained to build enough capacity to meet their own demand within certain bounds. The upper bounds for 1985 consist of the announced plans of utilities. No region is allowed to build more capacity in 1985 than had entered the planning stage by 1978. By 1990, except for nuclear plant construction, which has a very long planning and building cycle, upper bounds are generated by the model. The lower bounds require that fully committed plans be completed, but allow postponement and cancellation of other projects. The determination of construction needs is also based on the assumption that each region will move toward a 20-percent reserve margin.

MEFS assumes that a broad spectrum of generation equipment will be used, including nuclear and coal, residual oil, simple-cycle turbines, combined-cycle turbines, and hydroelectric. Assumptions about capital and operating costs are established for each equipment type and each set of load factor characteristics. The capital costs vary by region, plant type and target year of operation. In addition, the required expenditure per unit of construction includes the cost of a unit of transmission and distribution equipment. In the case of coal facilities, separate cost assumptions are made by type of coal for plants with and without scrubbers.¹⁵

Table 11 shows the DOE estimates of electric utility capital needs for the period between January 1, 1978 and January 1, 1985. These estimates are based on the MEFS forecast of capacity and equipment requirements for 1985 and 1990. It is assumed that the plant openings are spread evenly over the period 1978 to 1985. Capital expenditures are distributed

equally over a ten-year period for nuclear plants and over a seven-year period for fossil fuel plants. MEFS's capital need estimates are then adjusted to exclude the capital costs incurred prior to January 1978 for plants opening during the forecast period. Conversely, capital costs incurred prior to January 1, 1985 of plants opening between 1985 and 1990, are included in the estimate. Since the 1990 cutoff date is too early to capture all of the capital costs incurred prior to 1985, it is assumed that an equal number of plants will open between 1990 and 1995 as will open between 1985 and 1990. To facilitate comparison, the DOE forecast is juxtaposed in Table 11 with the portions of the EW and BJK projections falling within the MEFS forecast period. It should be noted, however, that since the EW and BJK forecasts do not include 1978, they are biased slightly upward.

F. Other Estimates

The previous sections have presented several estimates developed over the past 3 years of the future capital needs of the United States electric power industry. While these estimates vary, all reflect the impact of increased energy prices following the 1973 OPEC embargo; in particular, reductions in sales and peak demand growth, undesirably high reserve margins, and reduced estimates of physical plant requirements. Because of the higher than anticipated inflation rate since 1973, however, recent forecasts of capital need may not vary much from earlier estimates.

The latest forecasts also account more fully for capital expenditures needed to meet anti-pollution requirements. Earlier forecasts, even if they assumed that clean air and water restrictions would be implemented, could only guess at the timing and cost. It can be argued that the current

forecasts are still only guessing at the costs of anti-pollution equipment. Nonetheless, more cost information is available, and the timing of the standards appears to be settled.

Despite these differences, comparison of the latest forecasts and those of the recent past based on similar methodologies reveals a similarity in capital needs estimates that seems puzzling. The early studies' higher estimates of electric utility growth ought to yield higher estimates of capital need if the cost of capital remained constant. Costs, however, increased rapidly between the early 1970's and the common base year of this report, 1979. Moreover, capital costs to electric utilities were increasing more rapidly than the general inflation rate. Unfortunately, data limitations have made it necessary for the purposes of this report to adjust the results of these studies with general rather than differential inflation rates. Consequently, the estimates summarized in Table 12 understate the capital needs that would have been projected had it been possible to fully adjust for the especially rapid increases in the cost of electric generating equipment.

The results of several of the forecasts from the pre-1976 period are summarized in Table 12.¹⁶

1. Hass

The Hass study covers the 13-year period between 1972 and 1985 rather than the 12-year, 1979 to 1990 period which is the standard for this study. To obtain a 12-year estimate from Hass's research, we might assume that his projected expenditures are spread equally over 13 years. Subtracting one-thirteenth of the total expenditure would leave a 12-year estimate of \$578.7 billion in constant 1979 dollars. Alternatively,

TABLE 11

UNITED STATES DEPARTMENT OF ENERGY FORECASTS OF ELECTRIC UTILITY CAPITAL NEEDS January 1, 1978 to January 1, 1985 (billions of 1979 dollars)

	Generation*	Transmission & Distribution	Total
Medium Case	\$ 168.4	\$ 60.3	\$228.7
Annual average	24.1	8.6	32.7
High Case	168.0	63.7	231.7
Annual average	24.0	9.1	33.1
Low Case	159.8	53.8	213.6
Annual Average	22.8	7.7	34.5
Electrical World, 1979-1984			
Annual Average	24.8	9.9	34.5
Boughman, Joskow & Kamat, 1979-1989			
Annual Average	16.3	14.6	30.0

* Includes conversions to coal and oil/gas interchange, and scrubber retrofit.

Source: Energy Information Administration, <u>Annual Report to Congress</u>, Vol. II (Washington, D.C.: U.S. Department of Energy, April 1978).

TABLE 12

SUMMARY OF FORECASTS OF CAPITAL NEEDS OF THE U.S. ELECTRIC UTILITY SECTOR MADE PRIOR TO 1976

	RATE OF PEAK DEMAND GROWTH (%)	CUMULATIVE ESTIMATE OF CAPITAL NEEDS (Billions of 1979 \$) **
Hass 1972-1985	6.9*	627.4
Temple, Barker & Sloane, Inc. 1979 to 1990 Baseline Forecast	5.3*	543.2
National Power Survey, 1979- 1990		
Baseline	5.8	542.8
Low Growth	3.6	260.3
All Electric	9.4	1,183.0

*Capacity growth rate is used because peak demand is not available.

**Assumes 8 percent inflation in 1979.

Source: Jerome Hass, Edward Mitchell, and Bernice Stone, Financing the Energy Industry, (Cambridge: 1974), Ballinger Publishing Co.

> Temple, Barker and Sloane, Inc., <u>Economic and Financial Impacts</u> of Federal Air and Water Pollution Controls on the Electric <u>Utility Industry</u>, Technical Report prepared for Environmental Protection Agency, Office of Planning and Evaluation, May 1976.

> Federal Power Commission, National Power Survey, <u>The Financial</u> <u>Outlook for The Electric Power Industry: The Report and</u> <u>Recommendations of the Technical Advisory Committee on Finance</u>, U.S. Government Printing Office, December 1974.

subtracting actual 1972 capital expenditures yields a 12-year estimate of \$600 billion. Because of Hass's optimistic expectations about demand growth, these 12-year estimates are much too high for the 1979 to 1990 period. However, they offer a reasonable benchmark for capital needs in any given 12-year period given Hass's growth assumptions. It must also be remembered that whenever there was a choice of alternative plausible assumptions, Hass chose the one that would have the highest implicit or explicit cost in order to "ascertain the extent to which financing problems might seriously threaten the ability of the energy industry to meet the demands placed on it."¹⁷

Hass's methodology involves three distinct steps: estimating production capacity growth and mix; estimating the cost of production capacity and associated transmission and distribution facilities; and combining the first two steps with an expenditure pattern to determine aggregate capital expenditures.

He assumed a decline in the 8.1 percent average annual rate (1950 to 1971) of increase in production capacity to 6.9 percent, and a continuation of the 6.9 percent average annual rate of growth in peak demand.¹⁸ He also assumed that the mix of production capacity would shift toward nuclear generation--that between 1972 and 1990, 40 percent, and after 1990, half, of all new production facilities would be nuclear. These assumptions are not defended on cost or other grounds. However, they are comparable to then-available NPS estimates that by 1980, 22 percent, by 1985, 32 percent, and by 1990, 41 percent of total capacity would be nuclear.

Step two of the Hass forecasting procedure based the estimates of the cost of capacity expansion on 1973 surveys of electric utilities.

These estimates were increased to reflect coal plant desulfurization costs, thermal reduction apparatus for fossil-fired plants, and cooling facilities for nuclear plants. Transmission and distribution expenditures were then calculated as 120 percent of the cost per kilowatt of conventional plant and totalled with generation capacity estimates.

Finally, Hass calculated aggregate capital expenditure based on the number of kilowatts of capacity built, the cost per kilowatt of installed capacity each year, and the expenditure pattern. The number of kilowatts built combined the assumption of capacity growth with replacements based on a 30-year life and the historical growth rate of 7 percent. To reach a final cost estimate, Hass assumed that expenditures would be spread equally over five years. He recognized that the actual outlay period is longer than five years, particularly for nuclear plants, but argued that, "the rate of outlays is much higher in the last years of installing these plants; thus, the five years seems a reasonable estimate when combined with the assumption of equal payments each year."¹⁹

2. Temple, Barker and Sloane

The Temple, Barker and Sloane (TBS) forecast is based on a model initially constructed to provide projections for the Technical Advisory Committee on Finance of the 1973 National Power Survey. The model has three principal components of "modules": environmental, physical and financial. The general economic conditions and any other factors that determine the demand for electricity are considered exogenous to the model. Consumers' peak and average demand, target reserve margins, equipment mix, power drain, and the impact of pollution abatement regulations on generating efficiency are assumed and combined to determine capital needs.

The primary function of the environmental module is to introduce the assumed values of the model's exogenous variables. These include annual sales, peak demand growth, current and future pollution control requirements, operating and equipment costs, and the proportion of new nuclear capacity. TBS assumes an average annual growth rate for both electric sales and peak demand of 5.3 percent over the 1979 to 1990 period. Their estimates of capital needs for the early 1980's, however, are influenced by a forecast of construction starts in the late 1970's that is based on an even higher assumed growth rate (than that projected for 1979 to 1990).

The physical plant and equipment module determines the amount of generation capacity necessary to meet the demand assumptions at any time. In addition to demand level, the capacity calculation depends on desired reserve margins, and on various factors affecting generating efficiency as well as on retirements of old generating units. There is apparently no adjustment built into the model to allow for regional differences. The number of new plants assumed to be in construction at any time depends on the forecast of total additions to capacity, adjusted for the construction lag which differ by type of plant. The average construction lag is, therefore, a function of the assumed future mix of the various types of generating capacity.

The financial module of the TBS model converts physical capital needs to financial needs based on the proportions of conventional and nuclear plants to be built, the cost per unit of each type of asset, and the schedule of payments required by contractors while the plants are under construction.

The TBS model is continually revised, updated and reused. Despite the fact that it is among the most detailed models of the electric power industry available, however, its usefulness as a forecasting tool is limited. Since it is a recursive model, its results are heavily influenced by the initial assumptions. It is, therefore, probably best to think of the TBS procedures as being automatically calculated rather than "modeled."

In addition, the TBS model has no provision for changing relationships among capital expenditures for generating, and transmission and distribution facilities. The study identifies the share of total capital expenditures needed for transmission and distribution, but gives no indication of how capital requirements for these purposes have been determined. Furthermore, the model has limited value in analyzing regional capital needs, since it is unclear how it accounts for regional differences. This is especially troublesome given the shifting population and growing grid systems across the country and the likelihood that reserve margins will vary widely across regions.

3. The National Power Survey

By presenting a range of eight forecasts, three of which are included in Table 12, the <u>1974 National Power Survey</u> (NPS) projections provide a benchmark from which the impact of the slower rate of growth on capital needs can be judged. The alternative NPS forecasts summarized here are their baseline, all-electric, and low-growth projections. In retrospect, the low-growth alternative may have been the most realistic.

All of the NPS forecasts for capital needs of the electric utility sector are based on the TBS model. However, these forecasts differ significantly in their assumptions relating to the growth in peak demand,

the rate of construction cost escalation, and the impact of environmental requirements on capital costs. The NPS projections also tend toward the high side because they are based on expectations of more rapid growth in the 70's than actually occurred.

NPS's baseline forecast incorporates growth rates in peak demand that in 1973 were considered to be moderately high. Today they would be considered far too high. For the 1976 to 1980 period, (the decision period for capital expenditures in the early 80's) NPS assumed that peak demand would grow at an average annual rate of 6.5 percent, declining to 6.0 percent between 1981 to 1985, and 5.5 percent between 1986 and 1990. Construction cost escalation was assumed to follow what was labeled the "high" path, or about double the rate of increase assumed for the GNP deflator. For generating plants this meant a cost escalation of 7.5 percent per year between 1976 and 1980, falling to 5 percent thereafter. Transmission and distribution costs were assumed to increase at an average annual rate of 5 percent throughout the period. Looking back, of course, NPS's "high" construction cost escalation estimates seem rather modešt.

Projected environmental protection costs are a third major source of difference among the NPS alternatives. The baseline assumptions are that these costs, which include cooling towers for fossil and nuclear plants and flue gas desulfurization (scrubbers), will follow a "low" path of increase (i.e., a 5.7-percent annual rate of increase between 1976 and 1980, and a 3-percent rate thereafter).

As in the baseline case, NPS's low-growth alternative also seems to lead to over-estimated near-term capital needs. It assumes an average

annual growth in peak demand between 1976 and 1980 of 5 percent, which would lead to an overstatement of the requirements for the early 80's. However, the assumed growth rate falls to 4 percent between 1981 and 1985, and 3 percent between 1986 and 1990. It is, of course, still too early to know what the actual capital needs will be in the late 80's, but the assumed growth rate for the entire decade of 3.5 percent makes the NPS low-growth alternative a reasonable long-term guide, all other things being equal. The construction cost escalation path assumed for the lowgrowth alternative is the NPS "low" path, which assumes that construction costs in the 1980's will rise at an average annual rate of 3 percent, less than the rate of increase assumed for the GNP deflator. Environmental costs follow the "high" path which assumes an annual rate of increase of about 5 percent, somewhat above the assumed overall inflation rate.

Despite the low-growth alternative's relatively high assumed growth in peak demand for the late 70's, it is interesting to note that its estimate of average annual capital need in the 80's is \$23.6 billion. If it is assumed that the low-growth case generates constant annual capital needs over the 1979 to 1990 period, this \$23.6 billion estimate is about equal to the more recently prepared forecasts for 1979.

The NPS all-electric alternative is considered here for purposes of comparison. It is based on an assumed 8.0 percent annual rate of increase in peak demand through 1980, 10 percent between 1981 and 1985, and 9 percent thereafter. Construction costs increases are assumed to follow the high path, and environmental protection costs, the low path.

To make the NPS forecasts comparable to the others discussed in this report it was necessary to convert NPS's current dollar estimates into

constant 1979 dollars. In all of the other cases, the conversion to 1979 dollars was made easier by the fact that the forecaster had reported the results in constant dollars, so only the base year had to be adjusted. Since some prices were assumed to be rising faster than the GNP deflator and others more slowly, the estimates given in the table should be viewed as only approximations of the NPS result. It was also necessary to adjust the forecast period to make the results comparable. The NPS results for the forecast period of 1980 to 1989 were extrapolated foreward and backward one year to derive the 1979 to 1990 forecast reported. Although NPS did not report annual estimates of electric industry capital needs, which probably increase over time, any bias introduced by extrapolation at one end is probably offset at the other end.

III. CONCLUSIONS

Forecasting the capital needs of the electric utility sector of the United States has become increasingly sophisticated over the decade of the 70's. Pre-1975 forecasts, such as NPS's and TBS's are primarily determined by exogenous assumptions. The most recent forecasts, (e.g.) BJK's or DRI's are still dependent on their assumptions, but they allow far more interaction among variables. The DRI forecast is perhaps the most independent of its assumptions since it is based on a simultaneous model that allows the preliminary results to feed back on the initial conditions. The BJK model, although based on externally assumed economic conditions, determines demand internally and bases the distribution of plant type on cost factors and construction lags rather than the assumed continuation of existing relationships. The DOE model

is the most detailed, even though it currently relies on assumed macroeconomic conditions. It is probably also the most responsive to factors that affect the supply and demand for all types of energy products. Throughout the 1979 to 1990 period, however, because of the lags between initial planning and completion, all of the forecasts are heavily influenced by announced plans, work in progress, and the assumed rates of postponement and cancellation.

Perhaps the most striking conclusion of this analysis is that the estimates of capital need are relatively consistent irrespective of the estimation procedure. The <u>EW</u> subjective forecasts, the DRI simultaneous model, the BJK recursive model and the DOE linear programming model produce remarkably similar results. The variations that do exist seem to be primarily a result of differences in assumptions. Among the most important of these assumptions are the rate of increase in electric sales and peak demand, the mix of plant type, and assumed reserve margins.

A. Sales and Peak Demand

Regardless of whether the overall forecast is subjective or produced by a model, or whether the peak demand is assumed or derived, conclusions about peak demand are crucial to estimating capital needs. In most cases, the rate of growth in peak demand is either assumed or it is derived from an assumption or estimate of electric sales growth.²⁰ In those cases where peak is estimated on the basis of projected sales, the conversion usually depends on an assumption that load factors will continue at historic levels. Of the forecasters discussed in this report, only the <u>Electrical World</u> estimates electric sales and peak demand separately. <u>EW</u>, along with BTC, also predicts a deterioration in the load factor over time.

Even though the more recent forecasts incorporate peak demand growth rates which are significantly below those of earlier forecasts, some of these estimates of peak demand may still be too high. If peak demand grows more slowly than anticipated, the capital needs of the utilities will be reduced and reserve margins will continue to increase. In the short run, this could further delay plants in progress, or even result in some projects being abandoned. In the longer run, projects on the drawing boards might be postponed if not cancelled.

A recent study of the economic impact of alternative energy supply and demand assumptions by the Congressional Research Service of the Library of Congress indicates that 5 percent growth in electric sales and peak demand is the most that can be reasonably expected through 1990.²¹ Estimates of more probable rates of future growth range between 4.1 and 4.3 percent per year, depending on assumptions about conservation, and oil prices, and availability. This conclusion is roughly consistent with the growth in peak demand projected by the more recent forecasts which range between 3 and 5 percent. Despite this general consensus, however, there is still considerable debate over the rate of future demand growth, with one side predicting an increase from the current "depressed" levels back toward 5 percent per year or more, and the other predicting growth rates between 3 and 4 percent. So long as high growth rates are expected, generation capacity will be increased to meet expected demand regardless of today's actual need. In all probability, these plants will then be brought on line regardless of actual demand.

B. Plant Mix

Another major determinant of differences in recent capital needs forecasts is the assumed mix of new generation plant between conventional

and nuclear facilities. Of the studies reported here, the most thorough analysis of plant mix was done by BJK and DOE, although all of the estimates are heavily influenced by announced plans and work in progress. Table 13 summarizes the forecasts of nuclear generation capacity in service for several of the included studies. The breakdown is shown for only one of the older studies (TBS) to provide a means of gauging the impact of the reduced growth rates and skyrocketing nuclear construction costs.

TABLE 13

FORECASTS OF NUCLEAR GENERATION

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FORECAST	1980	1985	1990	1995	2000
BJK	13	17	20	26	31
EW	11	16	20	30	na
DOE (Medium)	na	19	25	na	na
DRI	11	16	20	na	na
TBS	16	22	28	na	na
na: not available					

CAPACITY AS A PERCENT OF TOTAL CAPACITY

Source: See text.

The recent estimates are of actual capacity in service, and therefore do not include nuclear facilities that are under construction, but have been postponed or delayed. The similarity of the estimates through 1985 is a reflection of the reliance placed on announced plans and work in progress in estimating additions to generation capacity. Moreover, since the EW and DRI estimates for 1980 were completed most recently, they therefore reflect the most recent delays, postponements and cancellations.²² The DOE estimates are based on a linear program that is economically indifferent to new coal and new nuclear facilities. The arbitrary selection between these alternatives by the model reflects the difficult real world choice of utility executives. The model, however, unlike the executives, can fall back on announced plans in resolving the dilemma.

In view of the recent nuclear accident at Three Mile Island, all of the projections of future nuclear generation must be reconsidered. All of the plants scheduled to open by 1985 are probably fully committed although unaccounted-for construction problems could delay commissioning. Construction plans for 1990 and later may be more flexible. Some plants may be cancelled completely, while it may be possible to convert others to alternative fuels. If it is proven that the Three Mile Island accident was caused by avoidable human error and that new safeguards can prevent a recurrence, there may be no need to adjust present estimates. Indeed, in response to President Carter's energy message--it is even possible that nuclear generation may be accelerated.

C. Reserve Margins

Other differences among the recent capital needs forecasts reflect different notions about an appropriate target for reserve margins. Only the DRI model allows reserve margins to vary across the regions, and to fall as low as 15 percent.²³ As the capital needs of the electric utilities increase, reserve margin targets of 20 percent or more for all regions may be a luxury that the economy neither needs or can afford. As the

industry adjusts to lower margins, capital needs for generation capacity will decrease, although capital requirements for distribution facilities may rise. These adjustments will be more likely if rising conventional fuel prices force increased construction of nuclear generating capacity, which for environmental and safety reasons is generally located in remote areas.

Reduced reserve margins do not necessarily imply reduced reliability. Even though the current reliability standard of one outage in ten years may seem impractically high, in view of the increasing costs of energy, it may be possible to maintain this standard through interties in and power sharing arrangements. An outage in one region could be covered by excess capacity in another in the same way individual companies and neighboring regions currently share power. There would undoubtedly be some risks to such a system, but these would have to be measured against the benefits of requiring less capital.

Finally, Table 14 summarizes the aggregate forecast of capital needs for each of the more recent studies included in this report and briefly characterizes them. The average annual rate of growth in peak demand is included as a rough guide to the assumptions behind the forecast, but should not be interpreted as the sole determinant of capital needs.

TABLE 14

	CANAL AND	Shandar-Haller - Million and a state of the Million of Security	10.0% https://www.com/1000010.com/arc/arc/arc/arc/arc/arc/arc/arc/arc/arc	aanaa ka ku maa ku m
FORECAST	TIME PERIOD FORECAST	CAPITAL NEED (billions of 1979 dollars)	RATE OF PEAK DEMAND GROWTH (percent)	FORECAST CHARACTERISTICS
BJK	1979-1990	453	4.1*	A
BTC	1979-1982	114	5.2*	В
DOE (referenc	1979-1985 e)	229	4.8*	C
DRI	1979-1990	451	3.2*	D
EW	1979-1990	582	5.0	E

SUMMARY OF FORECASTS OF CAPITAL NEEDS OF ELECTRIC UTILITIES

- A. Analysis of electric sector of the U.S. economy based on assumed macroeconomic trends.
- B. Analysis of energy sector of the U.S. economy given assumed macroeconomic conditions.
- C. Analysis of energy sector of the U.S. economy given alternative DRI macroeconomic conditions.
- D. Analysis of energy sector of the U.S. economy, based on conditions generated by linked macroeconomic model.
- E. Subjective analysis of electric utility sector based on independent estimates of macroeconomic conditions.

*estimates (not given in study)

Source: See text.

FOOTNOTES

- 1. External financing refers to all funding outside of a company's own contribution from earnings.
- 2. Jerome Hass, Edward Mitchell, and Bernell Stone, <u>Financing the</u> <u>Energy Industry</u> (Cambridge, Mass: Ballinger), p. 84.
- 3. Bankers Trust Company, <u>U.S. Energy and Capital: A Forecast 1978-82</u> (1978), p.17.
- 4. McGraw Hill, <u>Electrical World</u>, 29th Annual Electrical Industry Forecast, (September 15, 1978). This conclusion is indicated by a comparison of the data in Table 1 on external financing and the information on external and internal financing shares reported by Bankers Trust in <u>U.S. Energy and Capital</u>, p. 21. As Table 2 suggests, however, since 1972 these expenditures have increased very modestly as a share of total business expenditures for new plant and equipment.
- 5. DRI's forecast, which was made available for the purpose of this study, is not available to the public.
- 6. <u>Electric Power in the United States: Models and Policy Analysis</u> (Cambridge, MIT Press, forthcoming).
- 7. Energy Information Administration, <u>Annual Report to Congress</u> Vol. II (Washington, D.C.: U.S. Department of Energy, April 1978).
- 8. <u>Electrical World</u> predicts that real GNP growth will slow in 1979 from its 1978 pace, but does not anticipate a recession. Most of this slowing is a result of a decline in the rate of growth of consumer spending that is not made up by other sectors.
- 9. A previous study by Bankers Trust modeled the capital needs of energy industries through 1990 to test the assumed capabilities of the capital markets, but did not attempt to forecast conditions as they are likely to be.
- 10. BJK have made available for use in this study a draft of Chapter 9 which discusses financing the future growth of the electric power industry.
- 11. These assumptions include an interest cost of new debt of a 8.5 percent, an allowed rate of return on equity of 14 percent, a maximum proportion of debt allowed in the capital structure of 55 percent, and an interest coverage ratio that does not fall below 2.00.
- 12. See: Federal Energy Administration, <u>Project Independence Evaluation</u> System, Documentation: (Washington, D.C., 1976-1977), 14 Vols.

- 13. For a complete list of all the assumptions going into the DOE estimates, see: Energy Information Administration, <u>Annual Report</u> to Congress, 1977, Volume II, <u>Appendix</u>, <u>Summary Data Inputs</u> and <u>Forecasts for 1985 and 1990</u> (Washington, D.C.: U.S. Department of Energy, September 1978), pp. 9-22.
- 14. For a complete list of assumed load duration curves by region and other data inputs, see Ibid, pp. B70-B93.
- 15. The following capital cost assumptions are national average values which are assumed to be the same as DOE Region V. The estimates are designed to reflect the cost of the average plant of each type delivered on December 31, 1984. These estimates include AFUDC (8%) and labor cost increases of 6.5 percent annually in nominal terms. The values for nuclear plants are national averages and not from DOE Region V.

Nuclear	\$795
Coal with Scrubber	
Bituminous	600
Sub-bituminous	640
Coal without Scrubber	
Bituminous	485
Sub-bituminous	525
Combined cycle	340
Simple cycle	180
011	450
Scrubber retrofit	155

- 16. These results have been adjusted to 1979 dollars using the Gross National Product Implicit Price deflator, and are shown along with an estimate of the overall rate of growth in peak demand over the relevant forecast period in order to provide a basis for comparison. The actual GNP deflator is used for 1975-78. Estimation of the 1979 deflator assumes an 8 percent rate of increase. The inclusion of this estimate of peak demand growth, however, should not be interpreted as an indication that the forecaster based the estimate of capital needs only or primarily on peak demand.
- 17. Hass, <u>op</u>. <u>cit</u>., p. 1.
- At the time, the 1970 National Power Survey (NPS) was forecasting a 6.0 percent rate of growth. A 6.9 percent estimate was generally throught to be high but conceivable.
- 19. Hass, op. cit., p. 118.
- 20. The DOE model achieves this distribution through an assumed load distribution curve based on historical data.
- 21. Alvin Kaufman, Warren Farb and Barbara Daly, <u>Energy and the</u> <u>Economy</u>, Subcommittee on Energy and Power, <u>(Committee on Interstate</u> and Foreign Commerce, U.S. House of Representatives, April 1978).

- 22. In determining the amount of capital needed for these additions to capacity, the forecasts differ because of different assumptions about the construction cost per kilowatt hour.
- 23. Differences in estimates of capital need that arise from divergent reserve margins, however, would become even more significant as the forecast period is extended.

PART II - REGULATORY RESPONSE TO THE INFLATIONARY ENVIRONMENT: SOME COSTS AND GAINS*

*This report was prepared at the National Regulatory Research Institute at The Ohio State University. The views expressed are those of the authors, Dr. Douglas N. Jones, Professor of Regulatory Economics;
W. David Duran, Economist; and Curtis Odle, Economist, and do not necessarily reflect those of the Institute.

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I. INTRODUCTION

With the possible exception of the weapons acquisition process in the national security field, no sector in the U.S. economy has been so often characterized as "inherently cost-plus" as the public utility field; nor is this to be decried. Public utility regulation has historically placed great emphasis on cost, and where all legitimate business expenses are recoverable one-for-one from essentially captive customers this preoccupation is entirely appropriate. For this reason the current renewed attention to costs as exemplified in legislative (e.g., the National Energy Act), regulatory (e.g., time-variant cost determinations), utility (e.g., load management devices), and academic (e.g., marginal costing), activities should be applauded.

Emphasis on rates (or prices) that "track costs" is widely agreed to be the right pursuit. The main alternative--value of service pricing-while having special occasional usefulness in public utility rate design, carries with it special disadvantages in precision and equity. It should be mentioned too that "cost-plus" as used in describing public utility pricing need not be a pejorative term. In an idealized world of commission regulation, the overall revenue requirements for utilities should just cover all allowable costs of doing business, including debt service, and a fair return to useful capital actually (and prospectively) invested in the business. What this requires is a toughminded scrutiny of utility costs (and especially changes in costs) by regulatory commissions as well as a forward-looking analytical capability for judging consumer demand and appropriate utility company responses to meet that demand. It requires an informed balancing of short-term and (at least) near-term interests of ratepayers and shareholders where those interests diverge and are non-coincident. The pejorative use of the term comes when perceptions are that regulatory commissions are

merely a conduit for "passing on" to ratepayers in an uncritical or unexamined way all price increases asserted to be faced by the utilities they regulate.

It is probably true that public attention to the regulated sector is generally related to the state of the national economy. In "good times," by which is meant rising real incomes, declining unemployment, relatively stable price levels, and regular productivity gains, there is understandably less of a focus on this orderly and essential sector. But in "bad times," like the depression of the 1930's and the sustained inflation of the last half of the 1970's, there is great attention to the behavior of the utility field. The regulatory response to this current period of intense and persistent upward pressures on prices is the central subject of this report; the possible regulatory response on the downside of price swings is a secondary subject.

The approach here is to <u>first</u> identify the main mechanisms and practices that commissions (and sometimes legislatures) have devised and adopted in response to a decade of inflation; <u>second</u>, to attempt to describe in a general way the costs and gains of this response; and <u>third</u>, to suggest the outlines of what the regulatory response might be when the economy returns to a period of relative price stability.

II. DEVICES AND PRACTICES

The categorization of particular regulatory devices as occasioning costs or gains to the several parties to the regulatory process is judgmental at best - especially if the element of time is considered. Still more elusive, but less consequential, is a distinction between regulatory "devices" and "practices." But for our purposes the notion of costs (and gains) will be from the vantage point of the ratepayer and the public administrator and will

include both monetary and non-monetary "costs." The <u>devices</u> that are held to have placed the greatest near-term costs on regulation in the sense used here are fuel adjustment clauses and other indexing arrangements (like the New Jersey comprehensive adjustment clause and the New Mexico cost-of-service index provision); construction work in progress; normalization accounting treatment for investment tax credits and accelerated depreciation; reproduction cost new and fair value rate base valuations (over original cost and prudent investment methodologies); and emphasis on rate-of-return on equity over the rate-of-return on rate base standard.

A. <u>Devices</u>

The main <u>devices</u> that can be fairly arrayed on "the cost side" include increased use of future test years in cost-of-service calculations; allowing of pancaking of rate increases; use of interim rates; compressed time limits on commission deliberations; a quest for near-zero regulatory lag; internalizing external costs to the utility; and emphasis on the capital attraction standard (and risk avoidance) in ratemaking. Other lesser devices and practices that now characterize commission regulation will be discussed as well in terms of their contribution to costs and gains in an inflationary environment.

1. Automatic Adjustment Clauses and Fuel Adjustment Clauses (AAC's and FAC's)

Recall that definitionally an AAC is a provision in a utility company's rate schedule which allows a change in a particular cost item to be automatically (i.e., without commission hearings) reflected in the rates charged customers. By far the most common and now most burdensome AAC is that on fuel cost changes, though utility companies continue to propose other AAC's for changes in labor, taxes, interest and other costs of doing business. Cases on the subject date back at least to World War II. Even after that time (and until quite recent years) FAC's were generally limited to industrial rate schedules and did not apply widely to residential consumers. That has now changed and nearly all states have AAC's and FAC's in one form or another with the blessing of the Federal Energy Regulatory Commission (FERC). Some 125 utilities began using FAC's in residential customers tariffs during the mid-1970's with 63 of them starting in 1974 alone. The main purpose of an AAC is to reduce so-called "regulatory lag" during periods when costs are rising rapidly: the main objection is that such arrangements may be incompatible with vigorous and effective rate regulation in the public interest.

For the 25-year period 1948 to 1973 the rate increases granted utilities by state and local jurisdictions totaled \$6 billion. In the first year after the oil embargo (1974) consumers paid \$9.6 billion attributable to general rate increases (\$3.1 B) and the operation of FAC's (\$6.5 billion).¹ FAC revenues in 1973 accounted for \$1.5 billion in revenue.

Table 1 displays the dollar amounts² of general rate case increases granted in the utility industry under state commission regulation for the years 1974 through 1977 together with revenues attributable to the operation of FAC's over that period (for both electric and gas). The importance of FAC charges to utility revenues is indicated in part by the facts that the average shown here is some \$9 billion per year; the FAC amount is 3 times the rate increase amount for the period; and in one period (1976-1977) the amount of general rate increases declined by \$0.7 billion, while FAC amounts increased \$1.4 billion. The cited survey also found that in 15 states FAC charges added more than \$100 million to electric revenues and that FAC's accounted for more than 20 percent of electric receipts in

a dozen states.³ And this was at a time when state commissions were granting (on average for the two-year period 1975-1977) 50 percent of the amounts requested by utilities in rate cases, as against the two-thirds "typically" granted annually in recent years.

TABLE 1

GENERAL RATE INCREASES AND FAC REVENUES IN THE ELECTRIC AND GAS SECTORS, 1974-1977

(In Billions of Dollars)

Year	Revenu	ues Attributable to FAC's	General Rate Increases
1974 1975 1976 1977		\$6.5 8,5 9.6 11.0	\$3.1 4.1 3.1 2.4
٦	otals	\$35.6	\$12.7

Source: Footnote 3

The point here is simply that the proliferation and workings of fuel adjustment clauses in utility tariffs over the past seven years have, in general, yielded the revenue needed by the companies to maintain their financial positions. This was the stated object of FAC's, and despite a rocky road of consumer outcry, quarrels over what should and shouldn't be included in FAC's, the occasional outright "horror story"; on-going difficulties in verification and monitorship; and legitimate questions about the compatibility of automatic adjustment charges with full and open regulatory proceedings of the evidentiary variety, it seems fair to conclude that, in a rough way, FAC's worked for this period.

A related device with similar intent are several indexing schemes that have emerged--the most widely known being the New Mexico Cost-of-Service Index (COSI) now extended into its fourth year of operation.

Recall that this mechanism focuses on returns to equity and (in the case of Public Service of New Mexico) is supposed to result in a 14 percent rate of return on allocated common equity capital (at book value) after payment of all other cost of service. To achieve and maintain this net rate of return, automatic quarterly (now annual) adjustments in all base service rates were made to reach the nearest edge of the allowed range of 1/2 percent either side of 14 percent. Thus a return anywhere between 13.5 and 14.5 percent requires no adjustment in the succeeding period; a return above the upper limit requires a downward per kwh adjustment of rates to the upper limit; a return below requires an upward adjustment to the lower limit (not the middle) of the band. Importantly, fuel costs and purchased gas adjustments operate outside of COSI.

In December 1979, the New Mexico Commission concluded that, on balance, the methodology achieved its two primary objectives--"reduction of capital costs and the enhancement of PNM's ability to attract capital".⁴ Accordingly, while still viewing COSI "as an experiment," the Commission extended it conditional on correcting some of the revealed deficiencies of the plan; e.g., inadequacy of reporting and procedural safeguards, overly burdensome to staff (instead of saving staff time), insufficient regulatory oversight by too frequent adjustments, inappropriate treatment of certain interest income and allocation factors.⁵ A recently published report of The National Regulatory Research Institute concludes:

On balance, it would appear that COSI has provided PNM with a temporary financial advantage that now seems to be past; increased, rather than decreased, regulatory costs; had no real impact on cost control or over-building; and has not resulted in PNM earning its minimum rate of return. It would thus appear that there is no advantage to the adoption of COSI by other jurisdictions.⁶

The most recent notable wrinkle in automatic adjustment clauses is the Michigan Indexing Method introduced in 1979.⁷ The Michigan Public Service Commission order allows a company to make an annual (every February) automatic adjustment of operating and maintenance expenses (other than fuel and purchased power costs) in accordance with changes in the national Consumer Price Index. Qualifying increases would appear as a kWh surcharge on customer bills; increases greater than the CPI would be charged below the line. The idea is that by making automatic revenue adjustments contingent on retail price changes in the economy rather than on utility-incurred costs, there may be external pressures on company management to "out-perform" (or at least perform as well as) the CPI. It is estimated that about two-thirds of utility costs would be recovered under this scheme without the requirement of a rate hearing.

However all this may be, the fact of automatic adjustment clauses with the support they draw from utilities and opposition from ratepayers in the first instance and the switching of positions that describes the stances of the two parties when AAC's are attempted to be made more stringent (like fuel cost disclosure) indicate that at least in the near term, such devices are a blessing to the utilities in periods of sustained inflation.

2. Construction Work in Progress (CWIP) and Normalization Accounting

Historically the "used and useful in doing business" test precluded the allowance of CWIP in the rate base. At least into 1976 the Federal Power Commission and many states disallowed inclusion of CWIP in the rate base of utilities. Instead, allowance for funds used during construction

(AFUDC) was typically the approved method. The AFUDC approach provides a non-cash item of "current income" that the utility adds onto the cost of a facility when it is completed; the CWIP approach allows the company to earn on "the asset" along the way before it is in service.

The argument was that AFUDC was perhaps an acceptable procedure where the overstatement of current income (and hence cash flow) was a relatively small proportion of reported earnings. Once AFUDC came to represent one-third of utility net income, as had happened by 1974, the illiquidity (and other financial) problems for the industry became acute in the face of major, costly, continued construction.

That the FPC and subsequent state commission inclusion of CWIP in rate base makes a great difference is evidenced by (for example) a Library of Congress study that concluded that overall rate levels would rise about 9 percent (by swapping AFUDC for CWIP) and an FPC economic report that estimated the cost for the period 1975 - 1979 to be \$22 billion if all states and the FPC adopted CWIP.⁸

What can be said for our purposes here is that of all the arguments of utility proponents of CWIP (the municipals and cooperatives have generally opposed CWIP), probably the least persuasive is that ratepayers ultimately would pay less under this arrangement. CWIP is, in fact, another regulatory response to inflation of particular helpfulness to the utilities.

3. <u>Normalization and Flow-through; Accelerated Depreciation and</u> <u>Investment Tax Credits</u>

Normalization and flow-through are two typical methods of accounting for the main government subsidy provisions in the Internal Revenue Code now applied to utilities - accelerated depreciation (AD) and the investment tax credit (ITC). Briefly put, under the flow-through method the

benefits of the tax reduction deriving from AD and/or ITC are immediately passed on to the ratepayer in the form of lower rates (since taxes as an operating cost are reduced). Under normalization, the benefits to the utility are an increased cash flow through deferred tax payments while charging the deferred cost to ratepayers.

As to the effect on rates, critics of normalization accounting argue (among other things) that ratepayers are hurt by paying rates that include taxes all year long only to have the utility not pay them at tax time as the utility's tax liability is reduced--or indefinitely deferred. Proponents assert that normalization lowers rates "in the long run." The sums involved are very large. Electric utility industry spokesmen themselves estimate that normalization leaves with utilities an extra \$3 billion annually in "internally generated funds."⁹

The whole question of so-called "phantom taxes" occurring through use of normalization accounting applied to accelerated depreciation and investment tax credits in determining a utility's federal income tax liability is admittedly an extremely complex one. AD and ITC were originated by the Congress as part of a macroeconomic policy to spur the U.S. economy forward. Their application to the public utility sector, where investment decisions are supposed to be made primarily on need (and not on the artificially created opportunity for lower cost money) and where state public utility commissions historically decided on what accounting methods would be allowed utilities under their jurisdiction, was perhaps less well thought out than it might have been. While not quite an "afterthought," it is clear that the Congress' focus was not on this sector.¹⁰ In all events, once the ITC and AD provisions were decided to be applied at all to public utilities and subsequently to apply with the same full force as to the

rest of the private sector, these devices became sources of benefits that investor-owned utilities would understandably be slow to give up.

While it should be mentioned that at this writing the California PUC has so far successfully struck down the combination of normalization with AD and ITC for utilities under its jurisdiction, the issue is in the appeals courts and is being carefully watched by other commissions. Also the National Association of Regulatory Utility Commissioners recently (March 1979) testified against normalization as "bad anti-inflation policy, bad energy policy, and bad regulatory policy."¹¹ Yet, as of 1978, the vast majority of jurisdictions (about 40) permit utilities to keep the tax benefits through normalization.

There seems little argument that these particular accounting and tax features are additional devices made available as a regulatory response to inflation, though their legislative origins were quite different from that.

4. Rate Base Valuations and Rate-of-Return Determinations

The old issue of valuing the rate base of a utility by the Reproduction (or Replacement) Cost New method or the Original-Cost-Plus-Improvements-Minus-Depreciation method is currently relatively quiet; but it should be remembered that in periods of declining prices the utilities generally favor the latter and periods of sharply rising prices generally advocate the former. Actual changes in methods allowed can and do go either way--Ohio, for example, having recently become an Original-Cost state. Still, it is felt by some that the new push for the use of marginal cost, over imbedded cost, in rate design is the current counterpart to the earlier argument.

However this may be, it is clear that where marginal cost is running ahead of average cost for sustained periods and sometimes at an increasing pace, utility revenues presently would be greater and allowable rates of return more likely to be earned if MC pricing was allowed instead of AC pricing. Indeed, a good bit of the argument over whether or not to go to MC pricing centers on the question of what to do about (or how to avoid) excess revenues. For this reason it is sometimes puzzling why the electric utility sector has so far been slow to embrace the marginal cost pricing approach.

If the method of rate base valuation can be properly characterized as having attracted relatively less attention in recent years, surely this cannot be said of rate-of-return on rate base or on equity in this period of inflation. As to allowable rates-of-return on rate base, the decade of the 1970's has seen these percentages move steadily upward. Of the approximately two hundred electric (and gas) utilities surveyed annually from 1974 to 1978, a rising pattern is clear.¹² In 1974 the average was about 7 percent with a few at 5 percent; in 1975 the average was 8.24 percent (the average allowable rate requested was 8.61 percent); by 1976 the average of reporting utilities was 8.30 percent, but with 141 companies allowed 9 percent or more and 49 utilities allowed to earn in excess of 10 percent on rate base. In that same year some utilities in four states requested allowed return on equity of 15 to 20 percent. Finally, for 1977 the average allowed rate-ofreturn reported was 9 percent. Over this period many utilities did not earn their allowed rate, and in fact for the data series mentioned the actual rateof-return on rate base was typically around 7 percent in 1974 and had increased to something over 8 percent for 1977.

Of perhaps more significance is the apparent trend of commissions to give relatively more attention to questions of rate-of-return on <u>equity</u>. This focus has long been the one argued for by the regulated utilities as opposed to what they historically feel as undue commission preoccupation with rate-of-return on rate base calculations. And in a period of sustained inflation coupled with perceived needs for plant expansion, it is understandable that utilities argue strongly for renewed attention to the "capital attraction" standard of ratemaking.* That commissions have generally responded toward this different focus is another example of the regulatory response to inflationary times.

B. Practices

Turn now to some of the more recent <u>practices</u> of commission regulation-a number of them legislatively or administratively imposed--that for purposes here can be counted on the "cost side" to traditional regulation.

1. Future Vs. Historical Test Years

Traditionally commissions allowed only current test years to be used in calculating revenue requirements for utilities. This meant that only costs actually incurred were recovered. Gradually, as persistent upward changes in price levels set in, and under urgings of the utilities, commissions came to grant "trended" cost calculations; estimated future quarters to be rolled in and revised as each actual quarter is experienced; and then whole future test years as the basis for revenue requirements. And if marginal costing is adopted, the upward bias arising out of allowing future test years is, of course, further accentuated in periods of rising prices.

Deviations of this sort from the practice of allowing recovery of costs only for those actually experienced is clearly a practice spawned by inflationary times and adopted under utility arguments of regulatory and cash flow difficulties.

^{*}While the two measures are of course related, the necessary return to common stock is only a part of the overall cost of capital component and rate-of-return determination.

2. Pancaking, Interim Rates, and Time Limits

At an earlier time utilities were typically not allowed to "pancake" proposed rate increases. That is, a commission had to dispose of a current general rate increase before another one could be requested by the utility. Due deliberation, comprehensive and fair evidentiary hearings, and even strategic delays were thus possible in the full playing out of the intended regulatory process.

Again using arguments of undue regulatory lag, financial soundness of the regulated companies, cash flow constraints, and a presumed necessary "discipline" for the regulators, the commission process has now widely accepted contrary practices like allowing pancaking of rate increases; a presumption in favor of proposed increases, (allowing them to go into effect if not specifically struck down); frequent use of "interim rates" and "emergency rate relief"; and strict (short) time limits for commission action to achieve almost zero regulatory delay.

From the point of view of the process and from the point of view of the ratepayer, these practices in times of inflation must be counted on "the cost side."

3. Internalizing External Costs

The increasingly frequent practice of internalizing to utilities external costs deriving from their operations cannot properly be included as part of the regulatory response to inflation. On the other hand, decisions to force onto the private cost functions of companies what earlier had been picked up in our social cost functions has added substantially to the cost of doing business--hence costs to the ratepayer--of power companies. Elaborate environmental and safety additions to plant, purchased and operated

often at vast expense, may not fit neatly the traditional "used and useful" test in the central matter of producing electricity, however meritorious the intended ancillary benefit. And while it is, of course, true that such costs are real and have to be absorbed by somebody, the point is that they are different "somebodies," depending on the distribution of the burden.

4. Capital Attraction and Risk Avoidance

During periods of relatively stable prices and "ordinary times," utilities routinely argue before commissions for improved earnings commensurate with their perceived riskiness and forecast capital needs; commissions respond with something less than requested; investors place money in capital markets such that the utilities are reasonably serviced in their new finance capital requirements; and "life goes on" in the electric power sector. In times of sustained and rapid inflation, however, the story is much different on matters of capital attraction and risk adoption.

In "bad times" of this sort with high unit costs of expansion, high capital costs in finance markets, stock and bond markets that value utility issues very competitively, there are special efforts made by utilities to convince public officials of the need for liberalized earnings. This takes many forms (including most of those devices and practices mentioned above) and involves not only public utility commissions. The Congress in its tax writing function has granted various tax preferences (e.g., AD and ITC, <u>supra</u>) and has also considered underwriting utility bond issues as well as possibly reactivating something like the Reconstruction Finance Corporation with lending powers to the utilities. For their part, commissions increasingly are sympathetic to utility arguments couched in the capital attraction standard and this is set at the forefront of most commission deliberations.

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The other side of this coin is the complicated question of riskbearing. There is some evidence that in recent years degrees of riskbearing in the utility sector seem to have shifted somewhat from shareholders to ratepayers. An example would seem to be the regulatory treatment of unplanned plant shutdowns of either the nuclear or non-nuclear variety.

Some distinctions must be made between cost-bearing in the case of an Act-of-God, say a typical power outage when lightning strikes a transformer, and a major sustained shutdown of plant through mis-specification, mis-design, mis-management, or construction or operating mistakes assignable to one or another party. In the former case (as well as in the case of planned shut-downs) it is clear that the ratepayer should stand these costs: in the latter case it is a good bit less clear where, of all the parties to the process, the ratepayer would seem to be least culpable. Some mix of burden sharing may be best here--among ratepayers, shareholders, managers, suppliers, insurance companies, taxpayers.

On the other hand, to count this asserted development on "the cost side" of changes in regulatory practice assumes that returns to stockholders for risk-bearing are not currently too low to begin with. In other words, it would obviously be unfair for regulatory bodies not to permit rates-ofreturn to equity holders high enough to be commensurate with the risks involved and then make those same shareholders bear the burden alone when risk becomes reality. Since whether or not risk and returns are now in equilibrium in the utility sector is not a demonstration of this part of the report, the practice cited is only provisionally included here.

In addition to the "main devices and practices that seem to have accompanied regulation in a period of inflation there are several others that might be identified. Some of these have been commission-sanctioned, some legislatively initiated, and some seem almost endemic to regulation and are not very susceptible to policy resolution.

In the first category should be placed the debate on changing the interest rate charged on refunds paid by private power companies to customers in adjusting for overcharges. For the wholesale market the issue before the FERC is whether to raise the rate from 9 percent out to the average prime rate charged by commercial banks (11.5% to 11.75%); raise it to the prime rate plus a 1 percent penalty charge (as proposed by the American Public Power Association); or drop the rate to the 7 percent level set in 1971, as urged by major investor-owned utilities.¹³ The outcome will determine if this device is counted on "the cost side." Also in this first category should be the debate (and outcome) on whether or not fuel cost data of private utilities must be publicly disclosed for all to see.

In the second category could be mentioned the propensity for legislatures to reach deeply and specifically into commission regulation altering, some would say, the traditional concept of a contemplative, quasi-judicial, independent body. Done in the name of "increased responsiveness," legislatures now commonly pass laws "for" so-called lifeline rates or "against" fuel adjustment charges. While commissions are, of course, creatures of legislatures (state and national), this new development to some extent has brought regulation full circle to the days when legislatures (and city councils) decided very specific regulatory issues of rates and routes and service offerings. Whether or not this practice should be counted as "a cost" to regulation depends largely upon ones basic view of the commission concept. For purposes here it is considered a cost; similarly with legislative initiatives to require election of state public utility commissioners.

At least two items come to mind for that category of "practice" described as containing perennial difficulties for regulation. Both of these are all the more troublesome - and consequential - in periods of sustained inflation. One is the problem of plant expansion decisions. In a sector where willingness

and ability to serve demand is an absolute it is not surprising that there is a predisposition to build - with or without an "A-J effect."* And where commissions are unable or unwilling to secure independent assessments of demand on which utility investment decisions are based, there is a potential for adding another practice to "the cost side".

The other (and perhaps related) practice is that of valuing reliability over price. This tendency or proposition includes not only the issue of gold-plating and unduly stringent outage measures, but also the demonstrated willingness of utilities to pay a premium price for a reliable source of fuel supply even if they do not have automatic fuel adjustment clauses in their tariffs.¹⁴ However meritorious this posture might be on reliability grounds, it seems fair in the near term to count this on "the cost side".

III. GAINS FROM COSTS

In a regulated market it is proper that much if not most of the attention of the parties should be on the financial performance of the industry where service is a given. Accordingly, many (though not all) of the devices and practices identified in the previous section as "costs" in a period of inflation could as well be labeled as gains from the point of view of the electric power industry and even from the vantage point of the ratepayer. This last is the case where maintaining or renewing the financial soundness of particular utilities has been the issue during a time of sharply and persistently rising prices. In this sense the regulatory response of the past decade could be said in a general way to be appropriate and perhaps even sufficient.

Some sense of this renewal (however imperfectly measured) can be gotten from the two sub-reports made by different authors that follow here as Sections A and B. The first deals with the convergence of market value on book value for representative utilities since the oil embargo; the second *This refers to the inclination of utilities to expand rate base investment

(and thus earnings) beyond the optimally efficient size.

presents some data on productivity changes in the utility industry--so closely related to the inflation problem.

A. Convergence of Market Value on Book Value*

In the following nine tables are gathered some financial information on thirty-one large privately owned electric utilities and nine electric utility holding companies. Table 2 shows the ratio of market to book value while Table 3 shows the percentage change in the ratio of market to book value over the years. Tables 4 and 5 respectively show the yearly percentage change in earnings per share and the percentage change in dividends. Table 6 shows the average price-earnings ratio over an eight-year period. Table 7 shows the rate of return on common stock equity over a seven-year period and Table 8 shows the yearly percentage change in this measure. Finally, Tables 9 and 10 show respectively the rate of return on rate base and percentage change in the rate of return on rate base over a seven year period.

The ratio of market value to book value (shown in Table 2) was gathered for a nine-year period, 1970 through 1978. The book values are from the end of the previous year and the market values are from August 26 of the year stated or closely around this date. The thirty-one electric utility companies are arranged alphabetically with an average given for each year. The nine electric utility holding companies are then shown and again an average is given for each year.

In 1970 and 1971 the ratio of market to book value was greater than one for most firms with an average of approximately (due to rounding throughout) 1.33 in 1970 and 1.31 in 1971 for electric utilities. By 1972 this ratio had dropped to 1.16. Much more substantial drops occurred between '72 and '73 and '73 and '74 where this ratio was at its low point for most of the electric utility companies in the nine year period. In '75, '76, and '77 the ratio

^{*}This section was prepared by Mr. W. David Duran, Economist and Graduate Research Associate, National Regulatory Research Institute staff.

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RATIO OF MARKET TO BOOK VALUE OF FORTY UTILITY STOCKS, 1970 TO 1978 TAKEN ANNUALLY IN AUGUST

ELECTRIC UTILITIES	1970	1971	1972	1973	1974	1975	1976	1977	1978
Arizona Public Service Co.	.98	1.04	1.01	.88	.67	.72	.82	1.01	.91
Baltimore Gas & Electric Co.	1.23	1.21	1.12	.93	.52	.72	.87	.93	.88
Boston Edison Co.	.97	.97	.90	,90	.40	.50	.53	.58	.56
Cincinnati Gas & Electric Co.	1.52	1.42	1.25	1.13	.79	.81	.89	1.09	1.01
Cleveland Electric Illuminating Co.	2.13	2.15	2.07	1.78	1.23	1.34	1.41	1.59	.84
Commonwealth Edison Co.	1.20	1.16	1.07	.84	.59	.65	.76	.73	.66
Consolidated Edison of New York, Inc.	.75	.81	.81	.70	.22	.33	.46	.55	.54
Consumer Power Co.	.96	.86	.79	.67	. 31	.42	.56	.64	.64
Dayton Power & Light Co.	1.30	1.38	1.26	1.07	.67	.84	.97	1.02	.87
Detroit Edison Co.	.79	.87	.82	.75	. 39	.51	.60	.71	.66
Duquesne Light Co.	1.36	1.42	1.31	1.40	.82	.82	.92	.96	.81
Florida Power & Light Co.	3.43	3.15	1.39	1.25	.53	.66	.68	.58	.71
Florida Power Co.	1.80	1.43	1.29	.99	.39	.61	.67	.89	.66
Illinois Power Co.	1.60	1.54	1.23	1.04	.70	.87	.96	.99	.86
Indianapolis Power & Light Co.	1.23	1.28	1.20	.98	.71	.81	.88	.98	.84
Long Island Light Co.	1.27	1.30	1.25	1.02	.60	.76	.90	.99	.97
New York State Electric & Gas Corp.	1.51	1.65	1.46	1.29	.87	1.03	1.31	.90	.85
Niagara Mohawk Power Corp.	.87	.96	.93	.86	.54	.66	.77	.94	.84
Northern States Power (Minn.)	1.14	1.17	1.10	.95	.67	.76	.87	.93	.78
Ohio Edison Co.	1.49	1.44	1.38	1.22	.84	.95	1.05	1.13	.99
Oklahoma Gas & Electric Co.	1.99	1.90 1.10	1.77 1.05	1.41 .85	1.03 .70	.99 .73	.89 .75	.90 .85	.84 .82
Pacific Gas & Electric Co.	1.07 1.02	1.08	1.05	.85	.53	.67	.75	.05	.78
Philadelphia Electric Co. Public Service Company of Colorado	1.07	1.17	1.00	.81	.54	.72	.78	.93	.85
Public Service Electric & Gas Co.	.99	1.08	.96	.85	. 50	.60	.75	.86	. 80
South Carolina Electric & Gas Co.	1.34	1.14	1.10	.86	.50	.69	.79	. 85	.74
Southern California Edison Co.	.99	1.05	.89	.67	, 56	.57	.61	.78	.74 .57
Tampa Electric Co.	1.87 1.18	1.70 1.18	1.34 1.07	1.16 .99	.61 .73	.80 .83	.82 .96	.84 .96	.87
Union Electric Co. Virginia Electric & Power Co.	1.20	1.06	1.00	.87	.45	.60	.74	.76	.71
Wisconsin Electric & Power Co.	.97	.92	.92	.91	.68	.95	.99	1.03	.92
Averages	1.33	1.31	1.16	1.00	.62	.74	.83	.90	.79
ELECTRIC UTILITY HOLDING COMPANIES			•••		•				
Allegheny Power System, Inc.	1,22	1,19	1.11	.96	.70	.71	,8]	. 89	,76
American Electric Power Co.	1.33	1.19 1.37	1,11 1,31	.96	,61	,71 ,82	,98	1,04	1.00
Central & Southwestern Corp.	3.52	3.39	3.22	1.28	.77	.85	.82	.86	.78
General Public Utilities Corp.	.92 2.13	1.07	.98	.83	.47 .70	.66	.76	.85 .93	.73 .81
Houston Industries	2.13	2.13	2.06 1.20	1.34 1.07	.70 .47	.63 .61	.76 .68	.93 .74	.81
Middle Southern Utilities, Inc. New England Electric System	1.43 .91	1.36 .99	1.01	.87	.47	.62	.08	.74	.69 .75
Southern Co.	1.09	.95	.88	.72	.40	.55	.65	.74	.66
Texas Utilities Co.	4.11	4.48	2.11	1.66	1.08	.94	.96	1.02	.96
Averages	1.85	1.88	1.54	1.09	.64	.71	.79	.87	.79

PERCENT CHANGE IN RATIO OF MARKET TO BOOK VALUE OF FORTY UTILITY STOCKS, 1970 TO 1978 TAKEN ANNUALLY IN AUGUST

PERCENT CHANGE IN MALLO OF PARKET TO D	OOK MEDE	0						
ELECTRIC UTILITIES	70-71	71-72	72-73	73-74	74-75	75-76	76-77	77-78
Arizona Public Service Co.	6.1	- 2.9	-12.9	-23.9	7.5	13.9	23.2	- 9.9
Baltimore Gas & Electric Co.	- 1.6	- 7.4	-17.0	-44.1	38.5	16.7	6.9	- 5.4
Boston Edison Co.	0.0	- 7.2 -12.0 - 3.7	- 9.6	-55.6 -30.1	25.0 2.5	6.0	9.4 22.5	- 3.4 - 7.5
Cincinnati Gas & Electric Co. Cleveland Electric Illuminating Co.	- 0.0	- 3.7	-14.0	-30.9	8.9	9.9 5.2	12.8	-47.2
Commonwealth Edison Co.	- 3.3	- 7.8	-21.5	-29.8	10.2	16.9	- 3.9	- 9.6
Consolidated Edison of New York, Inc.	8.0	0.0	-13.6	-68.6	50.0	39.4	19.6	- 1.8
Consumer Power Co.	-10.4	- 8.1	-15.2	-53.7	35.5	33.3 15.5	14.3 5.2	0 -15.0
Dayton Power & Light Co.	6.2 10.1	- 8.7 - 5.7	-13.0 - 8.5	-37.4 -48.0	25.4 30.8	17.6	18.3	- 7.0
Detroit Edison Co. Duquesne Light Co.	4.4	- 7.7	6.9	-41.4	0.0	12.2	4.3	-15.6
Florida Power & Light Co.	- 8.2	-55.9	-10.1	-57.6	24.5	6.1	-14.7	22.4
Florida Power Co.	-20.6	- 9.8	-23.3	-60.6	56.4	9.8	32.8	-23.0
Illinois Power Co.	- 3.8	-20.1	-15.4	-32.7	24.3	10.3	3.1	-13.0
Indianapolis Power & Light Co.	4.1	- 6.3 - 3.8	-18.3 -18.4	-27.6 -41.2	14.1 26.7	8.6	11.4 10.0	-14.3 - 2.0
Long Island Light Co. New York State Electric & Gas Corp.	2.4 9.3	-11.5	-11.6	-32.6	18.4	27.2	-31.3	- 5.6
Niagara Mohawk Power Corp.	10.3	- 3.1	- 7.5	-37.2	22.2	16.7	22.0	-10.6
Northern States Power (Minn.)	2.6	- 6.0	-13.6	-29.5	13.4	14.5	6.9	-16.1
Ohio Edison Co.	- 3.3	- 4.7	-11.6	-31.1	13.1	10.5	7.6	-12.4
Oklahoma Gas & Electric Co.	- 4.5	- 6.8	-20.3	-27.0	- 3.9	-10.1	1.]	- 6.6 - 3.5
Pacific Gas & Electric Co.	2.8	- 4.5	-19.0	-17.6 -43.6	4.3 26.4	2.7 11.9	13.3 26.7	- 3.5
Philadelphia Electric Co.	5.9 9.3	0.0 -14.5	-13.0 -19.0	-43.0 -33.3	33.3	8.3	19.2	- 8.6
Public Service Company of Colorado	- 9.0	-14.5	-19.0	-41.2	20.0	25.0	14.7	- 7.0
Public Service Electric & Gas Co. South Carolina Electric & Gas Co.	-14.9	- 3.5	-21.8	-41.9	38.0	14.5	7.6	-12.9
Southern California Edison Co.	6.0	-15.2 -21.2	-24.7	-16.4	1.8	7.0	27.9 2.4	- 5.1
Tampa Electric Co.	- 9.1	-21.2	-13.4	-47.4	31.1	2.5	2.4	-32.1 - 9.4
Union Electric Co.	0.0 -11.7	- 9.3 - 5.7	- 7.5 -13.0	-26.3 -48.3	13.7 33.3	15.7 23.3	0.0 2.7	- 9.4 - 6.6
Virginia Electric & Power Co. Wisconsin Electric & Power Co.		0.0	- 1.1	-23.3	39.7	4.2	4.0	-10.7
Averages	<u>- 5.2</u> 82	- 9.2	-14.3	-41.5	22.1	13.4	9.7	-10.2
ELECTRIC UTILITY HOLDING COMPANIES	.01		1110					
Allegheny Power System, Inc.	- 2.5	- 6.7	-13.5	-27.1	1.3	4.2	9.9	-14.6
American Electric Power Co.	3.0	- 4.4	-15.3	-44.1	1.3 32.3	4.2 19.5	6.1	- 3.8
Central & Southwestern Corp.	- 3.7	- 3.0	-60.2	-39.8	10.4	- 3.5	4.9	- 9.3
General Public Utilities Corp.	16.3	- 8.4	-15.3	-43.4	40.4	15.2	11.8	-14.1
Houston Industries		-3.3	-35.0	-47.8 -56.1	-10.0 29.8	20.6 11.5	22.4 8.8	-12.9 - 6.8
Middle Southern Utilities, Inc.	- 4.9 8.8	-11.8 2.0	-10.8 -13,9	-20.1 -44.8	29.8	16.1	o.o 8.3	- 3.8
New England Electric System Southern Co.	-11.9	- 8.1	-18.2	-37.5	22.2	18.2	13.8	-10.8
Texas Utilities Co.	- 4.9	-52.9	-21.3	-39.2	-13.0	2.1	6.3	- 5.9
Averages	,2	-10.7	-19.6	-42.2	15.9	11.5	10.3	- 9.1
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Sources for Table 2 and Table 3

Standard and Poor's Industry Surveys Utilities Electric, March 30, 1978 (Section 3) and Wall Street Journal for the dates, August 25, 1978, August 26, 1977, August 26, 1976, August 26, 1975, August 25, 1974, August 27, 1973, August 25, 1972, August 26, 1971, August 26, 1970.

PERCENT CHANGE IN EARNINGS PER SHARE

ELECTRIC UTILITIES	70-71	71-72	72-73	73-74	74-75	75-76	76-77
Long Island Light Co. New York Electric & Gas Corp. Niagara Mohawk Power Corp. Northern States Power (Minn.) Ohio Edison Co. Oklahoma Gas & Electric Co. Pacific Gas & Electric Co. Philadelphia Electric Co. Public Service Company of Colorado	- 3.1 2.2 - 8.8 - 3.7 - 3.7 3.3 29.2 1.9 - 15.2 12.7 8.2 - 9.6 - 0.7 5.4 - 3.2 - 1.7 11.3 14.1	12.7 - 2.9 27.8 4.3 19.5 23.1 8.3 7.3 10.1 9.8 - 1.0 11.7 -23.7 36.1 3.7 67.0 -16.1 12.4 36.0 10.5	-23.2 - 5.1 12.0 1.6 7.0 - 4.3 4.5 - 3.9 -11.6 5.9 2.4 16.2 2.4 9.1 - 1.2 2.6	$\begin{array}{c} -11.0\\ -3.4\\ -9.7\\ -15.9\\ 20.7\\ -8.9\\ 14.5\\ -44.4\\ 1.1\\ -17.5\\ -1.7\\ -21.7\\ -18.8\\ -10.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -26.8\\ 0\\ 12.1\\ 22.3\\ -8.0\\ -20.0\\ -23.9\\ -12.9\\ -16.0\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23.9\\ -23$	97.8 18.5 2.7 3.0 26.1 66.1 19.9 23.6 13.8 - 3.6 19.4 22.9 14.0 - 2.1 - 18.3 29.2 - 4.3 32.3 -25.1 31.8 29.9 20.4 - 1.2 14.6 41.6	$\begin{array}{c} 6.0 \\ -20.7 \\ -0.7 \\ 9.7 \\ -2.1 \\ 8.6 \\ 2.7 \\ -9.7 \\ 2.7 \\ -5.7 \\ 20.5 \\ -2.6 \\ 4.5 \\ -7.7 \\ 25.6 \\ \hline 1.0 \\ 3.6 \end{array}$	$\begin{array}{c} 76-77\\ 22.3\\ -8.3\\ -24.3\\ 52.2\\ 22.3\\ -10.3\\ 8.4\\ -12.4\\ -17.0\\ 10.8\\ -10.3\\ 59.4\\ 50.1\\ 26.0\\ 32.9\\ 2.8\\ -3.1\\ 8.1\\ 0.7\\ -12.1\\ 7.5\\ 8.6\\ -2.1\\ -19.9\\ 0.4\\ 16.8\\ 4.9\\ 21.1\\ -10.2\\ 7.8\\ 5.3\\ \hline 7.5\\ -9.2\\ -9.0\\ 17.1\\ 11.8\\ 9.2 \end{array}$
Middle Southern Utilities, Inc. New England Electric System	4.3	17.9 21.4	- 1.0 5.6 - 7.8	- 4.3 5.7 - 3.4	- 0.8 -23.1 9.3	7.1	21.4 7.9
Southern Co. Texas Utilities Co.	- 8.8 4.8	6.2 12.1	10.1 3.1	-31.9 8.5	60.3 - 7.3	-27.0 13.4	14.5
Averages	4.8	12.3	4.1	- 9.7	9.3	10.0	8.0
Source							

Standard and Poors Industry Surveys Utilities Electric, Section 3, March 30, 1978.

Federal Power Commission Statistics of Privately Owned Electric Utilities in the United States, 1971, 1972, 1974 and 1975.

<u>Statistics of Privately Owned Electric Utilities in the United States</u>, (Washington, D.C.: U.S. Department of Energy, 1976). II-22

PERCENT CHANGE IN DIVIDENDS

ELECTRIC UTILITIES	70-71	71-72	72-73	73-74	74-75	75-76	76-77
Arizona Public Service Co. Baltimore Gas & Electric Co. Boston Edison Co. Cincinnati Gas & Electric Co. Cleveland Electric Illuminating Co. Commonwealth Edison Co. Consolidated Edison of New York, Inc. Consumer Power Co. Dayton Power & Light Co. Detroit Edison Co. Duquesne Light Co. Florida Power & Light Co. Florida Power & Light Co. Florida Power Co. Illinois Power Co. Indianapolis Power & Light Co. Long Island Light Co. New York State Electric & Gas Corp. Niagara Mohawk Power Corp. Northern States Power (Minn.) Ohio Edison Co. Oklahoma Gas & Electric Co. Pacific Gas & Electric Co. Philadelphia Electric Co. Public Service Company of Colorado Public Service Electric & Gas Co. South Carolina Electric & Gas Co. South Carolina Electric & Gas Co. Southern California Edison Co. Tampa Electric Co. Virginia Electric & Power Co. Wisconsin Electric Power Co.	$\begin{array}{c} 0.0\\ -3.5\\ 5.9\\ -1.9\\ 0.0\\ 0.0\\ 2.0\\ 0.0\\ 4.7\\ 7.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0$	3.7 - 3.6 3.9 15.2 5.4 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	8.0 - 1.6 0.8 - 4.3 - 5.6 3.4 0.0 0.0 2.7 5.5 3.4 0.0 0.0 2.7 5.5 3.4 0.0 7.1 3.3 7.9 9.1 8.0 3.5 0.0 3.5 0.0 3.5 0.0 3.5 0.0 0.0 0.0 7.1 3.7 9.2 9.1 8.0 3.5 0.0 0.0 0.0 0.0 7.1 3.7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0	$12.4 \\ -33.8 \\ 0.0 \\ 0.0 \\ 11.1 \\ -52.7 \\ 0.0 \\ 0.9 \\ 0.9 \\ 0.9 \\ 14.2 \\ 8.3 \\ 0.0 \\ 9.0 \\ 6.6 \\ 1.4 \\ 2.6 \\ 0.0 \\ 5.0 \\ 3.0 \\ 5.1 \\ 0.0 \\ 5.0 \\ 5.1 \\ 0.0 \\ 5.8 \\ 72.1 \\ 0.0 \\ 1.3 \\ 9.0 \\ 0.0 \\ 1.3 \\ 9.0 \\ 0.0 \\ 1.3 \\ 9.0 \\ 0.0 \\ 1.3 \\ 9.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.0 \\ 0.$	$\begin{array}{c} 0.0\\ 0.0\\ 0.0\\ 0.0\\ 3.1\\ 0.0\\ 41.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 2.1\\ 0.0\\ 2.4\\ 1.4\\ 0.9\\ 2.9\\ 1.3\\ 0.0\\ 0.0\\ 0.9\\ 1.8\\ 31.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 31.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 31.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 31.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 31.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 5.0\\ 1.8\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0.0\\ 0$	$\begin{array}{c} 2.2\\ 4.6\\ 0.0\\ 0.0\\ 3.3\\ 3.3\\ 0.0\\ 0.0\\ 0.0\\ 8.7\\ 9.0\\ 0.0\\ 3.7\\ 9.0\\ 2.5\\ 4.2\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 11.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 2.0\\ 0.0\\ 10.7\\ 3.5\\ 0.0\\ 0.0\\ 10.7\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\ 10.0\\$	$\begin{array}{c} 20.9\\ 5.4\\ 0.0\\ 12.2\\ 7.6\\ 1.1\\ 37.5\\ 0.0\\ 4.8\\ 0.0\\ 12.8\\ 0.0\\ 12.8\\ 5.6\\ 9.9\\ 5.5\\ 0.1\\ 5.9\\ 9.0\\ 10.1\\ 7.3\\ 33.3\\ -36.8\\ 1.5\\ 5.6\\ 1.2\\ 5.6\\ 0.1\\ 33.3\\ -36.8\\ 1.5\\ 5.6\\ 1.2\\ 5.6\\ 0.1\\ 33.3\\ -36.8\\ 1.5\\ 5.6\\ 0.1\\ 33.3\\ -36.8\\ 1.5\\ 5.6\\ 0.1\\ 33.3\\ -36.8\\ 1.5\\ 5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.1\\ -5.6\\ 0.$
Averages	1.9	2.5	2.2	2.7	3.4	3.7	7.2
ELECTRIC UTILITY HOLDING COMPANIES Allegheny Power System, Inc. American Electric Power Co. Central & Southwestern Corp. General Public Utility Corp. Houston Industries Middle Southern Utilities, Inc. New England Electric System Southern Co. Texas Utilities Co.	3.0 2.7 5.2 0.0 7.5 6.3 5.4 - 3.2 5.9	2.9 3.8 4.0 0.0 5.4 3.9 1.9 3.2 5.0	2.9 4.8 3.7 0.0 2.9 6.1 7.2 3.1 4.0	5.6 6.8 3.7 - 6.3 7.1 8.0 4.4 4.1 5.8	1.3 3.6 0.0 4.0 3.7 0.0 0.4 11.9	5.2 0.8 3.4 0.0 3.2 4.8 3.4 1.1 6.6	6.1 5.2 11.7 4.8 31.7 9.1 5.4 8.8 16.9
Averages	3.6	3.3	3.9	4.4	2.9	3.2	11.1
Source							

Standard and Poors Industry Surveys Utilities Electric, Section 3, March 30, 1978.

Federal Power Commission Statistics of Privately Owned Electric Utilities in the United States, 1971, 1972, 1974 and 1975.

Statistics of Privately Owned Electric Utilities in the United States (Washington, D.C.: Department of Energy, 1976). II-23

AVERAGE PRICE-EARNINGS RATIO (HIGH + LOW DIVIDED BY 2)

ELECTRIC UTILITIES	1970	1971	1972	1973	1974	1975	1976	1977
Arizona Public Service Co. Baltimore Gas & Electric Co. Boston Edison Co. Cincinnati Gas & Electric Co. Cleveland Electric Illuminating Co. Commonwealth Edison Co. Consolidated Edison of New York, Inc. Consumer Power Co. Dayton Power & Light Co. Detroit Edison Co. Duquesne Light Co. Florida Power & Light Co. Florida Power & Light Co. Indianapolis Power & Light Co. Long Island Light Co. New York State Electric & Gas Corp. Niagara Mohawk Power Corp. Northern States Power (Minn.) Ohio Edison Co. Oklahoma Gas & Electric Co. Public Service Company of Colorado Public Service Electric & Gas Co. South Carolina Electric & Gas Co. South Carolina Electric & Gas Co. Southern California Edison Co. Tampa Electric Co. Virginia Electric Power Co. Averages	$\begin{array}{c} 12.0\\ 10.5\\ 10.5\\ 11.5\\ 11.0\\ 12.0\\ 11.0\\ 11.0\\ 11.0\\ 11.0\\ 10.5\\ 15.5\\ 12.0\\ 12.5\\ 10.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 10.5\\ 11.7\\ 11.7\end{array}$	$\begin{array}{c} 12.0\\ 11.0\\ 12.5\\ 12.5\\ 13.5\\ 12.0\\ 12.5\\ 13.0\\ 12.5\\ 12.0\\ 12.0\\ 15.5\\ 13.0\\ 15.5\\ 11.5\\ 13.0\\ 15.5\\ 11.0\\ 15.5\\ 11.0\\ 15.5\\ 11.0\\ 15.5\\ 11.0\\ 15.5\\ 12.0\\ 24.5\\ 12.0\\ 12.0\\ 12.8\\ \end{array}$	$\begin{array}{c} 9.5\\ 11.0\\ 10.0\\ 10.0\\ 11.0\\ 11.5\\ 12.5\\ 11.0\\ 10.0\\ 10.0\\ 12.5\\ 13.0\\ 14.0\\ 9.5\\ 10.5\\ 10.5\\ 10.0\\ 9.0\\ 10.0\\ 12.0\\ 9.0\\ 10.0\\ 11.5\\ 10.5\\ 11.5\\ 10.5\\ 12.5\\ 10.5\\ 12.5\\ 13.5\\ 10.0\\ 9.0\\ 10.8\\ \end{array}$	$\begin{array}{c} 7.5\\ 9.0\\ 11.0\\ 9.5\\ 16.5\\ 9.5\\ 10.5\\ 9.5\\ 11.0\\ 10.5\\ 9.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 8.5\\ 10.5\\ 8.5\\ 8.0\\ 10.3\\ \end{array}$	6.5 6.5 9.5 9.5 9.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 13.0 5.0 5.0 5.0 5.5 5.5 5.5 5.5 5	$\begin{array}{c} 5.5\\ 7.0\\ 9.0\\ 9.0\\ 10.0\\ 5.5\\ 6.0\\ 5.5\\ 6.5\\ 5.5\\ 5.5\\ 7.5\\ 10.0\\ 7.0\\ 5.5\\ 5.5\\ 10.0\\ 5.5\\ 5.5\\ 10.5\\ 5.5\\ 7.5\\ 10.0\\ 5.5\\ 5.5\\ 10.5\\ 7.0\\ 5.5\\ 10.5\\ 7.0\\ 5.5\\ 5.5\\ 7.0\\ 5.5\\ 10.5\\ 7.0\\ 5.5\\ 5.5\\ 7.0\\ 5.5\\ 10.5\\ 5.5\\ 7.0\\ 5.5\\ 10.5\\ 5.5\\ 7.0\\ 5.5\\ 5.5\\ 10.5\\ 5.5\\ 10.5\\ 5.5\\ 10.5\\ 5.5\\ 10.5\\ 5.5\\ 10.5\\ 5.5\\ 10.5\\ 5.5\\ 10.5\\ 10.5\\ 5.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.5\\ 10.$	$\begin{array}{c} 7.0\\ 9.0\\ 9.0\\ 11.0\\ 9.0\\ 5.0\\ 5.0\\ 5.0\\ 5.0\\ 5.0\\ 5.0\\ 5.0\\ 5$	6.9 8.9 7.9 5.1 9.5 7.3 9.5 7.3 10.1 10.3 7.5 6.2 5.5 2.3 9.5 7.0 8.1 10.3 7.5 6.2 5.5 2.3 9.7 10.8 9.2 8.7 6.4 2 8.3 8.3
ELECTRIC UTILITY HOLDING COMPANIES				10.0	0.0	/.0	0.0	0.0
Allegheny Power System, Inc. American Electric Power Co. Central & Southwestern Corp. General Public Utility Corp. Houston Industries Middle Southern Utilities, Inc. New England Electric System Southern Co. Texas Utilities Co. Averages Source Standard and Poors Industry Surveys	9.5 12.0 14.5 11.5 15.5 14.5 11.5 12.5 16.5 13.1	10.5 12.0 15.5 11.0 16.5 15.0 11.0 13.0 <u>17.5</u> 13.6	10.0 11.0 14.0 10.0 16.0 12.5 10.0 11.0 <u>15.5</u> 12.2	9.0 9.0 11.5 9.0 12.5 10.0 9.5 8.5 13.5 10.3	9.0 10.0 8.0 6.5 8.0 6.0 7.5 9.0 9.0 8.1	6.0 7.5 9.0 7.0 7.5 8.5 6.5 5.5 10.5 7.6	7.5 9.0 9.0 8.0 6.5 8.5 9.0 8.5 8.5 8.3	7.9 9.6 7.9 8.0 6.8 7.4 7.8 8.5 8.2 8.0
Federal Power Commission Statistics								ed
Statoc 1071 1072 1074 and 1075	UI FIII	ucery (WINEU E	IEULITIC	061116	162 111 1	JULE UILLE	<u>,eu</u>

States, 1971, 1972, 1974 and 1975. <u>Statistics of Privately Owned Electric Utilities in the United States</u>, (Washington, D.C.: Department of Energy, 1976) II-24

PERCENT RATE OF RETURN ON COMMON STOCK EQUITY

ELECTRIC UTILITIES	1970	1971	1972	1973	1974	1975	1976
Arizona Public Service Co. Baltimore Gas & Electric Co. Boston Edison Co. Cincinnati Gas & Electric Co. Cleveland Electric Illuminating Co. Commonwealth Edison Co. Consolidated Edison of New York, Inc. Consumers Power Co. Dayton Power & Light Co. Detroit Edison Co. Duquesne Light Co. Florida Power & Light Co. Florida Power Co. Illinois Power Co. Illinois Power Co. Indianapolis Power & Light Co. Long Island Light Co. New York State Electric & Gas Corp. Niagara Mohawk Power Corp. Northern States Power (Minn.) Ohio Edison Co. Oklahoma Gas & Electric Co. Pacific Gas & Electric Co. Philadelphia Electric Co. Public Service Co. of Colorado Public Service Electric & Gas Co. South Carolina Electric & Gas Co. South Carolina Electric & Gas Co. Southern California Edison Co. Tampa Electric Co. Virginia Electric & Power Co. Wisconsin Electric Power Co.	$\begin{array}{c} 1970\\ \hline 10.1\\ 12.2\\ 11.6\\ 15.8\\ 14.5\\ 13.0\\ 7.4\\ 11.6\\ 12.5\\ 9.9\\ 13.7\\ 11.9\\ 15.0\\ 17.2\\ 13.9\\ 12.5\\ 10.4\\ 9.5\\ 12.6\\ 14.2\\ 17.4\\ 10.6\\ 9.5\\ 12.6\\ 10.7\\ 14.1\\ 11.2\\ 14.5\\ 13.4\\ 12.3\\ 8.2 \end{array}$	1971 10.0 12.0 12.0 13.7 14.2 12.1 11.1 10.2 12.1 11.1 10.2 12.0 9.5 13.4 14.1 13.7 13.2 14.1 13.7 13.4 14.1 15.8 11.4 10.8 12.0 9.7 9.4 10.8 11.1 8.3	1972 11.4 11.7 12.4 15.1 14.4 13.3 6.6 9.9 11.7 10.4 13.5 13.8 12.1 17.1 12.8 10.7 11.1 13.5 14.7 15.4 10.3 12.7 10.0 11.4 9.5 14.2 9.0 11.7 11.9	$ \begin{array}{c} 1973 \\ 11.8 \\ 11.7 \\ 8.8 \\ 13.9 \\ 13.1 \\ 12.0 \\ 9.0 \\ 8.7 \\ 10.1 \\ 9.4 \\ 11.0 \\ 13.3 \\ 12.2 \\ 12.7 \\ 14.3 \\ 11.2 \\ 10.7 \\ 8.2 \\ 12.2 \\ 14.9 \\ 14.9 \\ 12.2 \\ 6.8 \\ 10.5 \\ 10.0 \\ 9.6 \\ 13.4 \\ 10.6 \\ 11.4 \\ 12.6 \\ \end{array} $	1974 10.9 11.1 8.2 10.7 15.0 10.6 7.7 8.0 10.1 7.5 10.9 11.1 8.4 11.3 9.9 11.1 11.6 10.6 11.9 13.5 11.4 8.9 9.4 12.9 8.6 11.1 8.4 9.7 10.2	$ \begin{array}{r} 1975 \\ 13.5 \\ 10.5 \\ 7.5 \\ 10.8 \\ 13.1 \\ 11.0 \\ 10.0 \\ 8.8 \\ 12.4 \\ 7.5 \\ 10.8 \\ 12.4 \\ 7.5 \\ 10.8 \\ 13.4 \\ 13.4 \\ 13.2 \\ 13.4 \\ 13.4 \\ 10.9 \\ 12.2 \\ 13.0 \\ 12.2 \\ 13.0 \\ 12.2 \\ 13.0 \\ 12.2 \\ 13.0 \\ 12.2 \\ 13.0 \\ 12.2 \\ 13.0 \\ 12.5 \\ 10.0 \\ 12.7 \\ 10.0 \\ 12.7 \\ 10.0 \\ 12.7 \\ 10.0 \\ 12.7 \\ 10.0 \\ 12.7 \\ 10.5 \\ 10.0 \\ 10.5 \\ 10.0 \\ \end{array} $	1976 11.2 11.7 7.2 10.3 13.8 11.6 12.1 11.6 12.1 11.6 12.1 11.6 12.1 11.6 12.1 11.2 13.7 14.2 11.4 9.7 12.6 14.0 12.2 9.8 11.0 12.2 9.7 11.6
Averages	12,4	11.8	12.1	11.4	10.5	11.4	11.2

Source

Standard and Poors Industry Surveys Utilities Electric, Section 3, March 30, 1978.

Federal Power Commission Statistics of Privately Owned Electric Utilities in the United States, 1971, 1972, 1974 and 1975.

<u>Statistics of Privately Owned Electric Utilities in the United States</u>, (Washington, D.C.: Department of Energy, 1976).

PERCENT CHANGE IN RATE OF RETURN ON COMMON STOCK

ELECTRIC UTILITIES	70-71	71-72	72-73	73-74	74-75	75-76
Pacific Gas & Electric Co. Philadelphia Electric Co. Public Service Co. of Colorado Public Service Electric & Gas Co. South Carolina Electric & Gas Co. Southern California Edison Co. Tampa Electric Co. Union Electric Co. Virginia Electric & Power Co. Wisconsin Electric Power Co.	-12.1 -4.0 -2.2 18.5 -8.7 -23.3 1.4 2.4 -11.5 2.1 6.3 9.9 -9.2 7.5 13.7 -4.8 16.8 -22.0 -13.4 -35.2 -19.4 -9.8 1.2	$\begin{array}{c} - 2.5 \\ 3.3 \\ 10.2 \\ 1.4 \\ 9.9 \\ -40.5 \\ - 2.9 \\ - 2.5 \\ 9.5 \\ - 7.5 \\ - 4.3 \\ 0.0 \\ 16.3 \\ 15.6 \\ .7 \\ 8.1 \\ - 2.5 \\ 3.5 \\ - 4.6 \\ 5.8 \\ -20.0 \\ 3.6 \\ - 2.1 \\ 51.0 \\ -16.7 \\ 5.4 \\ 43.4 \end{array}$	-26.1 - 9.6 1.4 - 3.2 3.4 -34.0 .8 5.0 -12.3 1.1 - 5.6 17.8 - 2.6 5.9	41.5 -13.1 -20.1 - 9.4 - 6.6 30.9 -26.6 22.9 14.0 41.7 -17.2 -20.8 -14.9 -19.0	$\begin{array}{c} 23.9\\ -5.4\\ -8.5\\ .9\\ -19.3\\ 3.8\\ 29.9\\ 10.0\\ 22.8\\ 0.0\\ -9\\ 20.7\\ 59.5\\ 16.8\\ 25.3\\ 19.6\\ -1.8\\ 25.3\\ 19.6\\ -1.8\\ 5.2\\ 22.6\\ .9\\ -5.2\\ -14.9\\ 5.6\\ 34.0\\ -30.2\\ 47.7\\ -26.5\\ 23.4\\ 36.9\\ 8.2\\ -2.0\\ \end{array}$	$\begin{array}{c} -20.5\\ 11.4\\ -4.0\\ -4.6\\ 5.3\\ 5.5\\ 16.0\\ 37.5\\ -6.5\\ 5.3\\ -22.2\\ -32.8\\ -21.6\\ -15.2\\ 10.5\\ 6.0\\ 4.6\\ -20.5\\ -3.1\\ 7.7\\ -6.3\\ 5.2\\ 4.3\\ -12.7\\ 24.4\\ -3.9\\ 12.0\\ -6.6\\ 6.1\\ -7.6\\ 16.0\\ \end{array}$
Averages	- 2.3	3.5	- 5.2	- 5.3	10.0	3

Source

Standard and Poors Industry Surveys Utilities Electric, Section 3, March 30, 1978.

Federal Power Commission Statistics of Privately Owned Electric Utilities in the United States, 1971, 1972, 1974 and 1975.

Statistics of Privately Owned Electric Utilities in the United States, (Washington, D.C.: U.S. Department of Energy, 1976).

PERCENT RATE OF RETURN ON RATE BASE

ELECTRIC UTILITIES	1970	1971	1972	1973	1974	1975	1976
Arizona Public Service Co.	6.8	6.7	7.4	7.8	7.8	6.9	9.3
Baltimore Gas & Electric Co.	8.2	8.4	8.3	8.7	8.9	10.2	9.4
Boston Edison Co.	7.0	7.1	5.4	7.5	8.2	7.8	7.7
Cincinnati Gas & Electric Co.	8.9	8.7	9.0	8.9	7.5	8.4	7.7
Cleveland Electric Illuminating Co.	9.4	9.2	9.0	8.6	9.9	9.5	10.0
Commonwealth Edison Co.	7.0	7.0	7.1	7.1	6.7	7.0	7.8
Consolidated Edison of New York, Inc.	5.8	6.1	6.0	6.8	7.4	8.5	8.5
Consumers Power Co.	6.6	5.9	6.0	5,6	4.3	7.5	9.0
Dayton Power & Light Co.	8.6	8.1	7.8	7.6	7.8	9.0	8.2
Detroit Edison Co.	6.5	6.9	7.5	7.4	6.5	7.2	7.7
Duquesne Light Co.	7.5	7.7	7.8	8.0	8.4	8.6	7.4
Florida Power & Light Co.	8.7	8.6	7.7	8.4	7.7	9.7	7.3
Florida Power Co.	8.1	8.1	8.6	7.6	6.4	9.0	9.0
Illinois Power Co.	8.7	7.6	7.3	8.0	7.3	8.2	7.5
Indianapolis Power & Light Co.	7.9	8.1	, 9.7	8.8	7.2	8.0	8.5
Long Island Light Co.	7.4	7.7	7.4	7.4	7.8	9.7	10.3
New York State Electric & Gas Corp.	6.7	6.8	6.9	6.3	7.4	8.2	DNA
Niagara Mohawk Power Corp.	5.5	6.1	6.3	7.5	7.7	8.8	7.4
Northern States Power (Minn.)	8.0	8.1	8.2	7.1	7.1	7.9	8.5
Ohio Edison Co.	7.9	7.6	8.2	8.9	7.6	9.0	7.6
Oklahoma Gas & Electric Co.	9.0	8.5	8.8	8.9	8.8	8.8	8.4
Pacific Gas & Electric Co.	6.5	7.2	7.3	7.6	7.7	6.6	7.1
Philadelphia Electric Co.	7.0	7.6	8.0	7.8	6.6	7.6	DNA
Public Service Company of Colorado	7.0	7.0	7.6	7.5	7.2	7.8	8.2
Public Service Electric & Gas Co.	6.8	8.0	7.1	7.3	7.9	8.5	9.3
South Carolina Electric & Gas Co.	7.2	6.9	7.9	7.0	7.0	8.4	8.7
Southern California Edison Co.	7.3	6.6	7.0	7.2	8.7	7.3	7.7
Tampa Electric Co.	7.6	6.4	8.2	8.0	6.4	7.9	7.0
Union Electric Co.	8.0	7.2	6.5	7.6	7.1	8.3	9.2
Virginia Electric & Power Co.	7.2	7.3	7.3	8.0	7.3	9.1	8.9
Wisconsin Electric Power Co.	6.8	6.5	7.6	8.0	7.1	7.6	8.7
Averages	7.5	7.4	7.6	7.7	7.5	8.3	8.3

DNA - Data not available.

Source

Standard and Poors Industry Surveys Utilities Electric, Section 3, March 30, 1978.

Federal Power Commission Statistics of Privately Owned Electric Utilities in the United States, (Washington, D.C.: U.S. Department of Energy, 1976).

PERCENT CHANGE IN RATE OF RETURN ON RATE BASE

ELECTRIC UTILITIES	70-71	<u>71-72</u>	72-73	73-74	74-75	75-76
ELECTRIC UTILITIES Arizona Public Service Co. Baltimore Gas & Electric Co. Boston Edison Co. Cincinnati Gas & Electric Co. Cleveland Electric Illuminating Co. Commonwealth Edison Co. Consolidated Edison of New York, Inc. Consumers Power Co. Dayton Power & Light Co. Detroit Edison Co. Duquesne Light Co. Florida Power & Light Co. Florida Power Co. Illinois Power Co. Indianapolis Power & Light Co. Long Island Light Co. New York State Electric & Gas Corp. Niagara Mohawk Power Corp. Northern States Power (Minn.). Ohio Edison Co. Oklahoma Gas & Electric Co. Public Service Company of Colorado Public Service Electric & Gas Co. South Carolina Electric & Gas Co. South Carolina Electric & Gas Co. Southern California Edison Co. Tampa Electric Co. Virginia Electric & Power Co.	$\begin{array}{r} 70-71 \\ -1.5 \\ 2.4 \\ 1.4 \\ -2.2 \\ -2.1 \\ 0.0 \\ 5.2 \\ -10.6 \\ -5.8 \\ 6.1 \\ 2.7 \\ -1.1 \\ 0.0 \\ -12.6 \\ 2.5 \\ 4.1 \\ 1.5 \\ 10.9 \\ 1.3 \\ -3.8 \\ -5.6 \\ -10.8 \\ 8.6 \\ 0.0 \\ 17.6 \\ -4.2 \\ -9.6 \\ -15.8 \\ -10.0 \\ 1.4 \\ -4.4 \end{array}$	$\begin{array}{c} 71-72\\ 10.4\\ -1.2\\ -23.9\\ -2.2\\ -2.1\\ 1.4\\ -1.6\\ 1.7\\ 3.7\\ 8.7\\ 1.3\\ -10.5\\ 6.2\\ -3.9\\ 1.5\\ 3.3\\ -10.5\\ 6.2\\ -3.9\\ 1.5\\ 3.6\\ -11.3\\ 14.5\\ 6.1\\ 28.1\\ -9.7\\ 0.0\\ 16.9\end{array}$	$\begin{array}{c} 72-73\\ 5.4\\ 4.8\\ 38.9\\ -1.1\\ -4.4\\ 0.0\\ 13.3\\ -6.7\\ -2.6\\ -1.3\\ 2.6\\ 9.1\\ -11.6\\ 9.3\\ 0.0\\ -8.7\\ 19.0\\ -3.4\\ 8.5\\ 1.1\\ 4.1\\ -2.5\\ -1.3\\ 2.8\\ -11.4\\ 2.9\\ -2.4\\ 16.9\\ 9.6\\ 5.3\end{array}$	$\begin{array}{c} 73-74\\ 0.0\\ 2.3\\ 9.3\\ -15.7\\ 15.1\\ -5.6\\ 8.8\\ -23.2\\ 2.6\\ -12.2\\ 5.0\\ -8.3\\ -15.8\\ -8.4\\ -18.2\\ 5.4\\ 17.5\\ 2.7\\ 0.0\\ -14.6\\ -1.1\\ 1.3\\ -15.4\\ -4.0\\ 8.2\\ 0.0\\ 20.8\\ -20.0\\ -6.6\\ -8.8\\ 7.0\\ \end{array}$	$\begin{array}{c} 74-75\\ -11.5\\ 14.6\\ -4.9\\ 12.0\\ -4.0\\ 4.5\\ 14.9\\ 74.4\\ 15.4\\ 10.8\\ 2.4\\ 26.0\\ 40.6\\ 12.3\\ 11.1\\ 24.4\\ 10.8\\ 14.3\\ 11.3\\ 18.4\\ 0.0\\ -14.3\\ 15.2\\ 8.3\\ 7.6\\ 20.0\\ -16.1\\ 23.4\\ 16.9\\ 24.7\\ 7.0\end{array}$	75-76 34.8 - 7.8 - 1.3 - 8.3 5.3 11.4 0.0 20.0 - 8.9 -14.0 - 14.4 0.0 - 8.5 6.2 DNA - 15.9 7.6 - 15.6 - 4.5 7.6 DNA 5.1 9.4 3.6 5.5 - 11.4 10.8 - 2.2 14.5
Averages	- 1.1	2.8	2.5	- 2.3	12.6	1.4

DNA - Data Not Available

Source

Standard and Poors Industry Surveys Utilities Electric, Section 3, March 30, 1978.

Federal Power Commission Statistics of Privately Owned Electric Utilities in the United States, (Washington, D.C.: U.S. Department of Energy, 1976).

recovered substantially for most electric utility companies boosting the average from .62 in 1974 to .90 in 1977. In 1978 the ratio had dropped again for most companies lowering the average to .79. The electric utility holding companies' ratio of market to book value of common stock followed a similar if somewhat lagged pattern over the nine-year period.

From this information one might conclude that the electric utilities were in general more attractive investments in 1970 and 1971 than they were in 1973 or 1974. They were again relatively attractive in 1976 and 1977 but not as much so as the early 1970's. However, in 1978 they appeared to be losing ground again.

The obvious danger in this comparison is that how the entire market was performing over this period is not included. This would be of great consequence in judging whether the firm would want to use the common stock option at all as it sought to obtain capital. Another danger might lie within the ratio itself. It is generally believed that the market value is very sensitive to a discounted stream of earnings perceived by the investor. This would make the market value dependent on the income statement which measures flows in the accounts of the firm. The book value is obtained from the balance sheet (assets--liabilities--preferred stock) divided by the number of shares of common stock, which shows the levels of the accounts at a specific point in time. Making a ratio of the two items would make for problems in inferential analysis.

In Table 4 the percentage change in earnings per share shows a somewhat similar financial picture for the forty firms. The typical firm increased earnings per share between 1970-1971 and again in 1972. Between 1972 and 1973 earnings per share began to decrease slightly for the typical electric utility and again decreased more dramatically in the following two years. However, by 1976 earnings per share had recovered substantially and continued to do so through 1977. Although the range of data was much larger

in each column in the percentage change in earnings per share, it followed roughly the same pattern as the ratio of market to book value for the common stocks. The firms generally had increased earnings per share up to 1972 and then began to decrease reaching a minimum in 1974 and then increased through 1977. As might be expected, the earnings per share data will vary much more between the companies and will be more erratic for each firm over time than would the ratio of market value to book value.

In Table 5 the percentage change in dividends over the same eight $\sqrt{}$ year period shows a somewhat different story. The general trend for the firms was to increase dividend payout throughout the period. However, two things should be noticed about these increases. First, the fact that most firms increased their dividend payout between 1973 and 1974 at a time when earnings were generally depressed, could demonstrate these firms needed to attract equity capital and were trying to boost the market value of their common stock. Another item of notice is the large increase in dividend payout between 1976 and 1977 which shows a more healthy financial picture in this period.

An easily available measure of the attractiveness of common stocks widely used by individual investors is the price-earnings ratio. Table 6 shows the average price-earnings (P-E) ratio for each year from 1970 to 1977. This was computed by adding the high and low value for the year and dividing by 2. This is obviously a very rough estimate of the value at any given point within the year but it shows a general trend in the P-E ratio over the eight-year period. The early seventies saw a relatively high P-E ratio as compared with the four years following 1973. However, between 1971 and 1975 we still see a downward trend in the P-E ratio. This shows a pattern somewhat similar to the percentage change in earnings per share and the

ratio of market to book value of the common stock. In this case, however, the minimum average price earnings ratio occurs in 1975 rather than 1974. This is probably because of the earnings recovery in the 1974-1975 period not being fully reflected yet in the market price of the stock. Another difference is that the P-E ratio did not increase in 1977. This could be due to the coincidental movement of the market price of the common stock and earnings. The fact that the P-E ratio lost ground slightly could reflect some stockholder uncertainty about the future of the industry.

One of the most comprehensive measures of financial strength of a firm is the rate of return on common stock equity. Generally speaking this reflects the net profit margin, the asset turnover, and the financial leverage multiplier in the following formula:

NPAT x	S x	TA =	NPAT
S	TA	CSE	CSE
PROFIT	ASSET	FINANCIAL	RATE OF RETURN ON
MARGIN	TURNOVER	LEVERAGE	COMMON STOCK EQUITY
		MULTIPLIER	

where NPAT - net profit after taxes

S - sales

TA - total assets

CSE - common stock equity (I have assumed common stock equity = net worth for the financial leverage multiplier)

This data for the thirty-one electric utilities (but not for the nine holding companies) for 1970 through 1976 is shown in Table 7. The general trend (with the exception of 1972) was a decline between the years from 1970 to 1974 with the largest drop between 1973-1974 on average. The rate of return on common stock equity recovered substantially by 1975 and for all practical purposes remained the same on average for the industry in 1976.

This again shows that throughout this seven year period most firms lost

ground and were in their poorest financial condition by 1974. After 1974 the financial strength of most firms improved and remained somewhat stable after 1975 with smaller increases or decreases for most firms.

A measure of financial condition which is peculiar to the regulated sector of the economy is the rate of return on rate base. Used here is the Federal Power Commission's definition of the rate base, although what to include or not include in the rate base is still hotly debated. Data are for a seven-year period for the thirty-one electric utility holding companies.

Although the rate itself fluctuates only slightly up to 1975 when it generally increases, the average percentage change between the years reveals a more telling story. Here a general increase in percentage change in the rate of return occurs between the years up to 1973 when there was a decrease for many firms. Between 1974 and 1975 there was a large percentage change in the rate followed by a much smaller one between 1975 and 1976. The rate of return on rate base reflects more accurately how rate relief granted to utilities was affecting all the previous representatives of the financial condition of the firms. The large increase in the rate of return on rate base between 1974-1975 may have offset the decrease in the rate of return on rate base in 1973-1974 for most firms.

Throughout this brief report the focus has been on general trends in the financial position of these thirty-one electric utilities and nine holding companies. Aside from the relatively strong financial position of the southwest holding companies at the outset, this has somewhat accurately reflected average firm movements in the time periods studied. This appraisal has been limited almost completely to earnings and common stock prices to show the relative attractiveness of common stocks and thus the firms' ability to attract equity capital. Aside from some solvency problems,

this also gives a general idea of their ability to attract debt capital on favorable terms. Both of these assumptions may lead to some danger insofar as interpretations of the data as related to a specific historical event are concerned. No cross industry or general market comparisons have been attempted in this report. This makes for a tentative and limited comment on the relative attractiveness of these electric utility companies throughout the specified time period.

With these reservations in mind, a very brief attempt to summarize and relate the data from the Arab Oil Embargo in the 1973-1974 time period and its effect on the ability of the firms to attract capital follows.

As we have seen, in most instances the financial conditions of the electric utilities on average were deteriorating slightly from 1970 to 1973. Between 1973 and 1974 most of the utilities experienced a serious decline in their financial condition. This coincided with not only the oil embargo but also with general increases in consumer demand in this period. This caused the utilities to embark on large expansion programs at a time when their relative attractiveness to an investor was lower. Since firms are naturally hesitant to obtain capital on unfavorable terms, the utilities were in a serious position. Therefore, at least some of the 1974 to 1976 rate increases were needed not only to improve the financial condition of the firms but also to stem the tide of rising consumer demand for electric power. After the 1976 rate increases, continued use of company financial plight as a reason for increased rates may not be as valid as it was in the earlier time period. However, if a major downturn in the national economy and in the financial condition of the utility sector occurs in 1979-1980, this may again become an entirely legitimate basis for further fiscal relief.

B. Price Productivity Relationships *

Historically, U.S. industries in which productivity has lagged behind the overall, or national productivity trend have usually been those in which prices rose relative to the general level of prices. Economic theory suggests that when an industry's prices decline relative to the general price level, productivity increases may be partly responsible.¹⁵ More efficient production methods may lead to lower unit costs and result in a more favorable relative price position. When an industry's products become relatively cheaper, its sales volume is likely to expand bringing additional investment and employment opportunities into that industry; this, in turn, may lead to even greater productivity increases.

This relationship between productivity and prices is not absolute. There are many determinants of an industry's relative selling price besides productivity. These factors, among others, would include <u>input prices</u> which are in part determined by the productivity levels in the input industries. Furthermore, an absence of <u>competition</u> may also affect the price-productivity relationship. As a group, factors affecting prices other than productivity are just as important as productivity. These factors generally exert a greater influence on prices over shorter (as opposed to longer) periods of time.

Inflation introduces an uncertain element into the cause-effect relationship of prices and productivity. It has been pointed out that an industry's relative price is, in part, a function of the industry's productivity rate. Inflation disrupts this functional form, making it very difficult to ascertain productivity's contribution to holding down prices.

Edward Renshaw points out that from the perspective of basic dimensions *This section was prepared by Mr. Curtis Odle, Economist and Graduate Research Associate, National Regulatory Research Institute staff. of economic and technological progress such as speed, scale, new products, natural resource scarcity, and the efficiency of converting energy into useful effects, it is strongly suggested that it is becoming more difficult to invent new productive processes that are unambiguously superior to existing products and production techniques.¹⁶

It is becoming more difficult than ever to induce the rapidly rising industry productivity rates that were recognized in the first half of this century. This phenomena, coupled with the inflationary climate of the last decade and a half, suggests that the price-productivity relationship is changing. Prices are more rigid today and less willing to decline in response to greater production efficiency. At today's double digit rate of inflation, productivity increases have little chance of mitigating price increases to a noticeable extent.

Table 11 summarizes Renshaw's comparison of (1) output per man-hour (for all persons); and (2) labor productivity in the gas and electric utility industry for three historical time periods.¹⁷ Renshaw concludes that it does not seem plausible to expect longer run rates of productivity in the gas and electric industries to recover to the extraordinary levels of 1947-1966.

TABLE 11

AVERAGE ANNUAL GROWTH RATES IN PRODUCTIVITY FOR ALL PERSONS AND LABOR PRODUCTIVITY IN THE GAS AND ELECTRIC INDUSTRY.

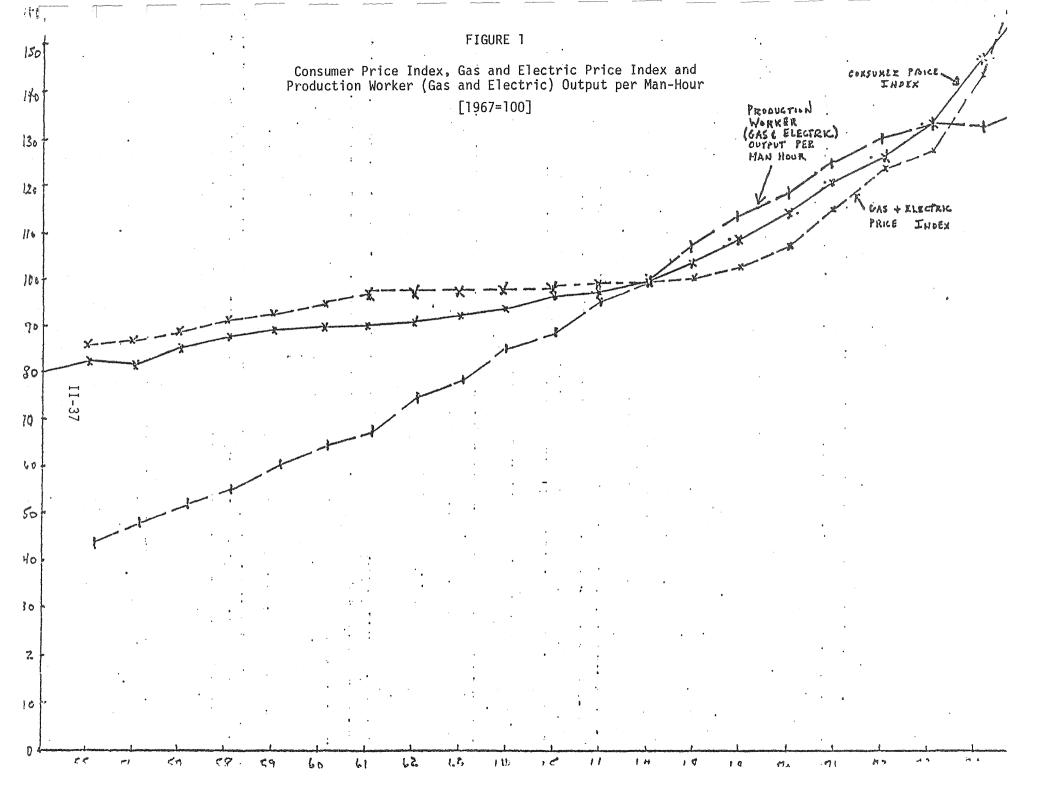
	<u>1947-1953</u>	1953-1966	1966-1973
All Persons	4.1%	3.0%	2.1%
Gas and Electric	7.2%	7.0%	4.8%

Source: Edward F. Renshaw, "Productivity and the Demand for Electricity," <u>Public Utilities Fortnightly</u>, (May 6, 1976), p. 17.

For the economy as a whole, output per man hour in the U.S. dropped 2.7% in 1974, the first decline since 1947.¹⁸ Also in 1974 the consumer price index increased 10.9% over the 1973 index, which marked the beginning of double digit price increases. The movement of prices and productivity over the 20-year period prior to 1974 suggests that the maintenance of U.S. economic health may in part be achieved by productivity growth surpassing the growth of general price levels. The downturn of productivity in 1974, therefore, may be interpreted as a violent disruption to the historical trend.

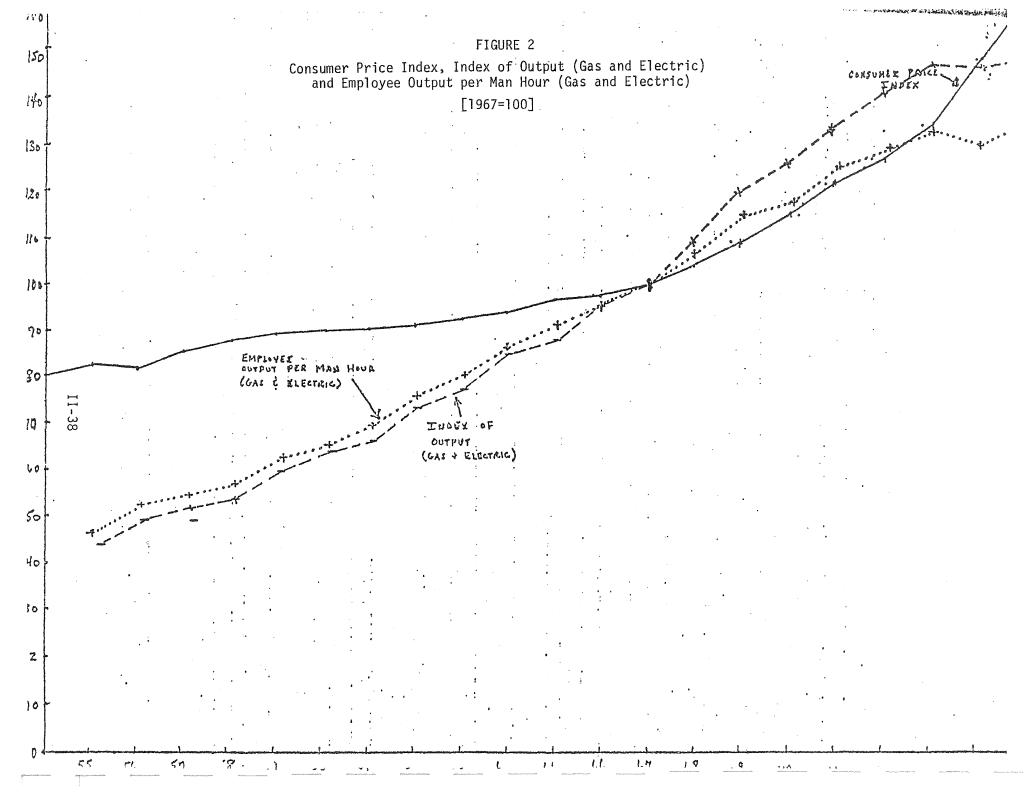
By juxtaposing the consumer price index for all items (CPI) with the consumer price index for gas and electricity (GEPI), definite changes in the growth rates of both indexes were identified in 1967 and 1974 (see Figure 1). For the period 1955-1967, the general price index grew at an average annual rate of 1.9%. For the period 1968-1973, average annual growth rates for the CPI and GEPI were 4.9% and 4.0% respectively. In years 1974 and 1975, the effects of the oil embargo contributed to even sharper increases, especially in the GEPI. The 1974 GEPI increased 15.35% over 1973 levels, while in 1975 the same index climbed 16.32% over the 1974 index. These growth rates are summarized in Table 12.

Figure 1 shows the trend of output per man-hour for the <u>production</u> <u>worker</u> in the gas and electric industry. This index has been growing at a fairly brisk pace of 5.8% per year on average, while the output per man-hour for <u>all employees</u> in the gas and electric industry has grown at an average annual rate of 5.3% (see Figure 2). It is evident that for the period 1955-1972 productivity as measured by these indexes has grown at a faster



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rate each year than the CPI with the exception of 1969 and <u>output per man-</u> hour increased at a faster rate each year than the GEPI until 1970 which marked the beginning of a reverse trend.

Table 12 also summarizes average annual growth rates in labor productivity for the gas and electric industry for the four defined time periods.

TABLE 12

AVERAGE ANNUAL GROWTH RATES OF THE CONSUMER PRICE INDEX (CPI), THE GAS AND ELECTRIC PRICE INDEX (GEPI), EMPLOYEE OUTPUT PER MAN-HOUR IN THE GAS AND ELECTRIC INDUSTRY (EO), AND PRODUCTION WORKER OUTPUT PER MAN-HOUR IN THE GAS AND ELECTRIC INDUSTRY (PO) (1967 = 100).*

Index	1955-1967	1968-1973	1974	1975
CPI	1.9%	4.9%	10.9%	9.1%
GEPI	1.1%	4.0%	15.3%	16.3%
EO	6.5%	4.6%	-2.4%	2.6%
PO	6.9%	4.9%	-0.9%	3.3%

* Calculations were made based upon data obtained from U.S. Dept. of Labor, Bureau of Labor, <u>Handbook of Labor Statistics</u>, 1977.

After 1970 the gap between the GEPI and labor productivity in gas and electric industry began to close. In other words, advances in productivity levels together with other factors tending to push prices down were not able to overwhelm the inflationary price advances. How much productivity increases contributed to dampening price increases is difficult to discern. If price changes could be decomposed and a correct specification of the functional form explaining price changes could be identified, then productivity's contribution to holding down prices could be estimated. Kendrick suggests various methods for accomplishing this task and points out the many difficulties of estimating this relationship.¹⁹ Kendrick contends that productivity rates in the public utilities sector have generally been above average.²⁰ In part, this is due to the above average investment in new plant and equipment which has promoted production efficiency. Table 12 suggests that this growth in production efficiency may have favorably affected the gas and electric industry's relative price levels. Recent years, however, have witnessed a decline in capital input per kw.²¹ This suggests that inflation has overtaken the benefits derived from productivity advances achieved through capital investments. The gas and electric industry is experiencing low rates of productivity in a severe inflationary climate. The implication is that to restore reasonable productivity advances, inflation must first be controlled.

IV. REGULATION IN A RETURN TO RELATIVE PRICE STABILITY

A. <u>Wage and Price Guidelines</u>

Soon after the announcement of the President's anti-inflation program, the Director of The National Regulatory Research Institute wrote to the Council on Wage and Price Stability to inquire as to the applicability of the Council's Voluntary Standards for Non-inflationary Pay and Price Behavior to the utility sector. Basically the reply was that no compelling reason could be found to treat that sector any differently and that power companies (and commissions) would be expected to comply.

Since that time(December 1978), various positions have been taken by companies and commissions on the issue. Some state regulators feel that fuel-cost adjustments in utility bills won't be held to the price guide-lines;²³ others feel the guidelines must be addressed in rate proceedings with great visibility;²³ REA has told its co-op borrowers that it expects them to meet the wage-price guidelines and to report to the Rural

Electrification Administration how the guidelines were taken into account in fashioning rate hikes;²⁵ the standards are intended to apply to municipal and other publicly owned utilities as well as investor-owned utilities;²⁶ and some exemptions have emerged for purchased power costs, interest coverage, and certain cash flow problems.²⁷

For its part, the National Association of Regulatory Utility Commissioners through its President pledged "total cooperation" with the program;²⁸ the New York Commission said it will expect utilities under its jurisdiction to abide by federal wage-price guidelines when requesting higher rates, as have the Colorado and the Iowa Commissions.²⁹

In order to get some sense of the implications of the application of the guidelines to the electric and gas sectors, it is helpful to take a retrospective look at what would have been the circumstance if the <u>present guidelines</u> were applied in hindsight over the general rate requests of the utilities for 1977.

B. The Guidelines "Applied"*

President Carter's new anti-inflation program of October 24, 1978 has as its goal to reduce the nation's inflation rate to between 6% and 6.5% in 1979.³⁰ This new attack on the inflation rate called for an "economy-wide" ceiling of 5.75% for price increases.

The way in which such a program as introduced by governmental authorities actually impacts on various sectors of the economy is sometimes difficult to know ahead of time. A clear understanding of the manner in which guidelines such as those recently proposed by the President are best applied to particular sectors is necessary before a conscious contribution to governmental objectives can be made. This

^{*}This section was prepared by Mr. Curtis Odle, Economist and Graduate Research Associate, NRRI staff.

is particularly true of the regulated sector, e.g., transportation, telecommunications, and power. Regulators and gas and electric utility executives alike, must be aware of the intended application of the President's proposed guidelines to rate adjustments. A proper concern of these parties was exactly how the President's guidelines apply to proposed utility rate increases. This was substantially (and subsequently) clarified by issuance of the "Revised Wage and Price Standards" on December 13, 1978.

It would seem instructive and useful in thinking about the problem to illustrate some of the effects of the guideline's "core" standards (as opposed to subsequent revisions) <u>had they applied to rate increases</u> <u>before state regulatory commissions in calendar year 1977</u>. That is, what would the picture be if the President's program and these standards had applied to <u>gas</u> and <u>electric</u> rate increases "requested" in 1977, "granted" in 1977 and "pending" before state regulatory commissions on December 31, 1977.

This exercise makes the provisional assumption that other things are being held constant. If the voluntary wage and price program had been introduced in October 1976, it is unrealistic to presume that the actual results would be the same as those presented below. This restriction should be kept in mind in examining the following findings.

Under the new guidelines, the maximum price increase allowed for an individual firm is one half of one percentage point below the average annual rate of price increases during 1976-1977 ³¹ However, the program's stipulated ceiling on 1979 price hikes is 9.5%. Therefore, if a firm had raised its prices an average of 5% during 1976-1977, it would be constrained to a 4.5% increase in 1979. However, if the 1976-1977 average price increase was 12%, the firm would be restricted to the 9.5% price increase ceiling in 1979 in lieu of 11.5% (12.0-0.5).

Application of the "core" standards of the President's guidelines to electric and gas utility rate increases "<u>requested</u>" in calendar year 1977 reveals some interesting "if-history." We found that the average percentage rate increase requested by electric companies in 1977 was 16.51%.³² Gas companies requested an average 12.48% rate hike.

Of 172 <u>electric companies</u> for which requested percentage rate increases were exhibited in the Congressional Research Services (CRS) Study, <u>Electric</u> <u>and Gas Utility Rate and Fuel Adjustment Clause Increases</u>, 1977, ³³ 146 (84%) were above the economy-wide target, and 121 (70%) were over the individual firm maximum.

A tabulation of <u>gas companies</u> reveals that 76 of 103 firms (74%) topped the general economic goal of 5.75% and 55 companies (53%) made requests in excess of the 9.5% allowable firm maximum.

Table 13 shows rate increases "requested" for both gas and electric companies during 1977 by states 34 The table shows 40 states requesting electric rate increases with all but Virginia surpassing 5.75%. In the case of gas companies, the table shows that 29 of 33 states on average topped the guidelines economy-wide target of 5.75%.

Utilizing data provided to the Congressional Research Service it was possible to calculate average percentage rate increases "<u>granted</u>" by states. These figures are also shown in Table 13 along with the rate increases "requested" for both gas and electric companies in 1977.

State Commissions in 1977 granted <u>electric companies</u> rate increases in such a way that 33 of 40 states realized average increases above the 5.75% target set by the President's guidelines.³⁵ For these 33 states the mean rate increase "granted" was 12.23%.

TABLE 13

ELECTRIC AND GAS UTILITY RATE INCREASES (Averages) REQUESTED AND GRANTED IN 1977 BY STATES

	Electric		Gas		
	% Increase (a) Requested	% Increase (b) Granted	% Increase (a) Requested	% Increase (b) Granted	
Alabama	26.62	11.81	-	-	
Alaska	38.16	35.40	-	-	
Arizona	23.00	18.69	12.00	18.61	
Arkansas	8.92	6.10	9.93	0.10	
California	31.70	14.21	17.90	7.01	
Colorado	13.55	11.39	12.60	11.61	
Connecticut	16.10	5.97	7.20	2.93	
Delaware	17.90	17.90	14.57	11.94	
Dist. of Columbia	None	-	None	-	
Florida	19.48	10.48	18.10	13.59	
Georgia	17.48	15.44	4.90	3.54	
Hawaii	15.00	10.29	-	-	
Idaho	23.02	10.11	2.90	2.13	
Illinois	16.34	11.12	7.32	5.21	
Indiana	25.40	16.48	-	-	
Iowa	6.60	4.49	6.60	5.51	
Kansas	17.06	7.96	9.01	3.85	
Louisiana	17,95	0.57	19.55	8.37	
Maine	10.56	6.54	None	-	
Maryland	14.72	12.57	5.82	5.45	
Massachusetts	15.33	11.55	16.45	8.00	
Michigan	10.00	5.00	7.80	2.56	
Minnesota	14.41	11.78	7,74	5.66	
		** **			

TABLE 13 Continued

	Electric		<u>Gas</u>		
	% Increase (a) Requested	% Increase (b) Granted	% Increase (a) Requested	% Increase (b) Granted	
Mississippi	None	÷.	None	-	
Missouri	16.67	8,41	9.61	5.32	
Montana	28.00	12.25	30,00	23.39	
New Hampshire	7.13	7.13	9.36	8.77	
New Jersey	18.50	8.80	10.00	4.01	
New York	8.88	5,59	12.51	10.22	
No. Carolina	13.94	10.95	6,96	2.80	
No. Dakota	15.61	11.80	7.76	6.60	
Ohio	21,00	12.90	20.54	15,93	
Oregon	22.32	19.65	7.53	4,48	
Pennsylvania	-	-	-	-	
Puerto Rico	None	-	None	-	
Rhode Island	6.95	5.14	11,60	3.76	
So. Carolina	13.25	9.54	None	~	
So. Dakota	15.86	5.01	20,35	6.99	
Tennessee	None	-	7.00	2,57	
Texas	None	-	-	-	
Utah	15,39	12,30	-	-	
Vermont	16.47	16.11	None	-	
Virginia	3.28	2,64	3,90	3,90	
Virgin Islands	None	~	None	-	
Washington	-	58m	- -	-	
West Virginia	13.58	7.95	32.87	29.30	
Wisconsin	7.92	8.52	2.56	1.54	
Wyoming	16.70	11.51	39.00	10.05	

Notes:

- (a) These figures were found by calculating the average rate increase "requested" for each state from company data provided in the CRS study.
- (b) These averages were calculated by finding the rate revenues before the rate increase was granted for each firm within the state. The percentage rate increase for each firm in the state was then calculated and the average was then computed.
- Source: U.S. Senate, <u>Electric and Gas Utility Rate and Fuel Adjustment Clause</u> <u>Increases, 1977</u>, Subcommittee on Intergovernmental Relations and the Subcommittee on Energy, Nuclear Proliferation and Federal Services of the Committee on Governmental Affairs, U.S. Senate, by the Economics Division, Congressional Research Service, Library of Congress; Sept. 1978, Appendix Table B-V, pp. CRS 41 - CRS 59.

For the 39 states "requesting" increases in excess of 5.75%, the average increase "granted" was 11.01%, $5\frac{1}{4}$ percentage points above the target. The mean increase "granted" for all 40 states was 10.80%.

Turning to the <u>gas companies</u>, we found that 15 of the 33 states were granted rate increases on average in excess of 5.75%. The mean increase "granted" in these 15 states was 12.69%.

Of the 29 states "requesting" increases above 5.75%, the mean increase "granted" was 8.49%. For all 33 states the average "granted" rate increase was 7.80%.

Electric and gas utility rate increases "<u>pending</u>" before State Public Utility Commissions in December 1977 is shown in Table 14. From the data provided by the Congressional Research Service, average percentage rate increases "requested" were calculated for each state listed. Ninety six (96) electric companies and ninety seven (97) gas companies were identified as having rate increases pending in December 1977. <u>36/</u>

In the case of <u>electric companies</u>, 33 of 34 states with rate hikes "pending" were in excess of the 5.75% target. The average rate increase pending before commissions in all 34 states was 16.06%, 10 percentage points over the target.

In the case of <u>gas companies</u>, 24 of 27 states were above the target with an average rate boost of 12.76% requested by all 27 states.

Furthermore, 21 states and D.C. had <u>both gas and electric</u> rate increases pending before State Commissions in excess of the guideline's target.

TABLE 14

ELECTRIC AND GAS UTILITY RATE INCREASES (Averages) PENDING BEFORE STATE PUBLIC UTILITY COMMISSIONS DEC. 1977, BY STATES*

	<u>Electric</u> % Increase	<u>Gas</u> % Increase
State	Requested	Requested
Alabama	None	None
Alaska	23.21	None
Arizona	None	None
Arkansas	12.17	5.80
California	15.09	20.65
Colorado	14.39	12.82
Connecticut	None	11.49
Delaware	17.57	None
Dist. of Columbia	15.90	12.56
Florida	8.40	None
Georgia	None	None
Hawaii	19.47	10.10
Idaho	36.84	5.60
Illinois	13.40	7,90
Indiana		6.00
Iowa	14.03	5.99
Kansas	18.57	25.99
Louisiana	20.00	None
Maine	9.11	None
Maryland	7.60	None
Massachusetts	8.49	None
Michigan	19.00	11.83
Minnesota	16.20	10.80

TABLE 14 Continued

	Electric	Gas
<u>State</u>	% Increase Requested	% Increase Requested
Mississippi	None	None
Missouri	24.10	7.5
Montana	33.60	60.95
New Hampshire	8.25	9.60
New Jersey	15.24	19.00
New York	14.88	7.15
No. Carolina	18.09	9.73
No. Dakota	None	4.60
Ohio	21.83	18.08
Oregon	6.89	None
Pennsylvania	17.22	9.97
Puerto Rico	None	None
Rhode Island	4.50	15.80
So. Carolina	-	-
So. Dakota	-	-
Tennessee	8.00	10.00
Texas	None	-
Utah	11.42	-
Vermont	17.62	10.00
Virginia	11.83	8.71
Virgin Islands	None	None
Washington	28.00	5.80
West Virginia	20.22	None

Note:

*These figures were found by calculating the average rate increase "requested" for each state from company data provided by the CRS study.

Source: U.S. Senate, <u>Electric and Gas Utility Rate and Fuel Adjustment</u> <u>Clause Increases, 1977</u>, Subcommittee on Intergovernmental Relations and the Subcommittee on Energy, Nuclear Proliferation and Federal Services of the Committee on Governmental Affairs, U.S. Senate, by the Economics Division, Congressional Research Service, Library of Congress; Sept. 1978, Appendix Table B-VI, pp. CRS 61-CRS 73. By focusing on individual companies, it was found that 86 (89%) of the 96 identified electric companies in the CRS study were above the economywide target, and 68 firms (70%) requested hikes in excess of the allowable firm maximum. In the case of gas companies, 70 of the 97 firms (72%) requested increases over the 5.75% standard and 45 firms (46%) climbed beyond the 9.5% ceiling.

Therefore, the "core" standards of the inflation-fighting scheme promulgated by the White House would have required at least 70% of the electric firms submitting rate increases for approval to adjust requests downward in their attempt to boost rates above the 9.5% ceiling. And at least 46% of the gas utilities would have been required to make downward adjustments in their requests had companies complied with the newly proposed guidelines.

Table 15 shows the total dollar amount of electric and gas rate increases actually "granted" in 1977 and the total rate increase <u>had the President's</u> guidelines applied.

Column (1) shows the total rate increases actually granted in 1977. Column (2) shows the total rate increase which would have resulted if those companies granted increases in excess of the economy-wide target had been restricted to the 5.75% goal. Similarly, Column (4) shows the total rate increase if those companies granted increases above the 9.5% maximum had been restricted to this ceiling.

TABLE 15

ELECTRIC AND GAS UTILITY RATE INCREASES IN 1977 - ACTUAL AND IF THE PRESIDENT'S ANTI-INFLATION GUIDELINES HAD APPLIED (MILLIONS OF DOLLARS)

	(l)a	(2)b	(3)	(4)c	(5)
	Total Rate Increases Actually Granted in 1977	If 5.75% Maximum Target had Applied	Difference Col.(1)-Col.(2)	If 9.5% Max. had Applied	Difference Col.(1)-Col.(4)
Electric	\$1,924.2	\$1,193.1	\$731.1	\$1,678.5	\$245.7
Gas	292.9	212.1	80.8	256.3	36.6
Total	\$2,217.1	\$1,405.2	\$811.9	\$1,934.8	\$282.3

Notes:

- (a) This total represents rate increases granted in 45 states, the District of Columbia, Puerto Rico, and the Virgin Islands, as reported in Appendix Table B-V of the CRS study.
- (b) Column (2) shows the estimated total dollars of rate increases if all of the commissions represented in the CRS study had restricted rate increases to 5.75%.
- (c) Column (4) shows the estimated total dollars of rate increases if all of the commissions represented in the CRS study had restricted rate increases to 9.5%.
- Source: Author's calculations derived from data available in the U.S. Senate's, <u>Electric and Gas Utility</u> <u>Rate and Fuel Adjustment Clause Increases</u>, 1977, Subcommittee on Intergovernmental Relations and the Subcommittee on Energy, Nuclear Proliferation and Federal Services of the Committee on Governmental Affairs, U.S. Senate, by the Economics Division, Congressional Research Service, Library of Congress; Sept. 1978, Appendix Table B-V.

The table reveals that had the guidelines applied in 1977 with each firm being restricted to a 5.75% rate increase, total <u>electric</u> rate increases would have been reduced by \$731.1 million (Col. 3). Total <u>gas</u> rate increases would have been reduced by \$80.8 million resulting in a total reduction for both gas and electric rate hikes of \$811.9 million.

Had each firm been restricted to a 9.5% rate increase, <u>electric</u> rate hikes would have been \$245.7 million less than were actually granted (Col. 5). <u>Gas</u> rate increases would have been reduced by \$36.6 million resulting in a total reduction of \$282.3 million from the level of rate increases actually granted in 1977.

Table 16 shows the total dollar amount of electric and gas rate increases "pending" before State Commissions in December 1977 and the total rate increase which would have been "pending" <u>if the President's guidelines</u> had applied.

Column (1) shows the total rate increase requested by companies in 1977. Column (2) shows the total rate increase which would have been "requested" by companies had all firms restricted their rate increase "requests" to 5.75%. Column (4) shows the requested increase had all companies restricted their proposed rate hikes to 9.5%.

The table reveals that had the guidelines applied with each firm being restricted to a 5.75% rate increase, total <u>electric</u> rate increases "pending" before State Commissions in December 1977 would have been \$1,101.1 million less than the amount actually pending (Col. 2). Requested <u>gas</u> rate increases would have been reduced by \$494.4 million, resulting in a \$1,595.5 million reduction in rate increase requests.

Had each firm restricted its request to a 9.5% rate hike, <u>electric</u> rate increases pending would have declined by \$1,680.5 million (Col. 4). <u>Gas</u> rate increases pending would have been reduced by \$754.8 million resulting in a total reduction of \$1,069.8 million.

TABLE 16

ELECTRIC AND GAS UTILITY RATE INCREASES PENDING IN 1977 - REQUESTED AND IF THE PRESIDENT'S ANTI-INFLATION GUIDELINES HAD APPLIED (MILLIONS OF DOLLARS)

	(1)a Total Rate Increases Actually Requested	(2)b If 5.75% Maximum Target had Applied	(3) Difference Col.(1)-Col.(2)	(4)c If 9.5% Max. had Applied	(5) Difference Col.(1)-Col.(4)
Electric	\$2,373.4	\$1,101.1	\$1,272.3	\$1,680.5	\$692.9
Gas	1,131.7	494.4	637.3	754.8	376.9
Total	\$3,505.2	\$1.595.5	\$1.909.6	\$2.435.3	\$1,069.8
Notes:					

- (a) This total represents rate increases granted in 45 states, the District of Columbia, Puerto Rico, and the Virgin Islands as reported in Appendix Table B-VI of the CRS study.
- (b) Column (2) shows the estimated total dollars of rate increases "requested" if all companies had restricted their requests to 5.75%.
- (c) Column (4) shows the estimated total dollars of rate increase "requests" if all companies had restricted their requests to 9.5%.
- Source: Author's calculations derived from data available in the U.S. Senate's, Electric and Gas Utility Rate and Fuel Adjustment Clause Increases, 1977, Subcommittee on Intergovernmental Relations and the Subcommittee on Energy, Nuclear Proliferation and Federal Services of the Committee on Governmental Affairs, U.S. Senate, by the Economics Division, Congressional Research Service, Library of Congress; Sept. 1978, Appendix Table B-VI.

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C. Is Turnaround Fair Play?

Unless one believes that the U.S. economy has an inexorable and endless upward bias in price levels, i.e. that the economy is permanently assigned to inflation, there will be a time in "the cycle" where prices stabilize or even turn down. What then might be the outline of the regulatory response to a resumption of relative price level stability?

Other parts of this report have traced the regulatory response on the upswing as involving the adoption of various devices and practices to accommodate to the inflationary circumstance. But if public utility regulation is to be something more than merely "accounting for inflation," it should have a planned regulatory response for the downswing.

In some respects a "switching of sides" can be expected to take place. One might find utilities anxious to get fuel adjustment clauses and indexing arrangements off their books; replacement cost accounting and marginal cost pricing might be less attractive to them as might the use of future test years in estimating revenue needs. Even regulatory delay might be valued as helpful, requiring full evidentiary hearings to lower rates and revenues

From the commission point of view in a period of sustained price level stability, the pressures and rationale for allowing CWIP in the rate base, normalization accounting, preoccupation with rate-of-return on equity rather than rate base, interim rates, and time constraints on commission deliberations would presumably be less strong. State legislatures could be expected to be less prone to intervene on economic issues, like so-called lifeline provisions, and the Congress in a fiscal policy swing might reduce the Investment Tax Credit and Accelerated Depreciation preferences available to utilities under the federal tax code.

Should some or much of this eventuate in the post-inflationary period described, the central task of state commission regulation would then be a clear-headed new appraisal of the capital needs of the industry; a reassessment upward of the actual riskiness of the industry; and a fairminded determination of allowable returns commensurate with these conclusions. Improved and effective commission regulation for all parties is more likely to come in this setting than when regulation is cluttered with gadgets and gimmicks that at best were improvisations of the moment and at worst clouded the focus of regulators for a decade.

FOOTNOTES TO PART II

- U.S. Congress, Committee Prints, <u>Electric and Gas Utility Rate and</u> <u>Fuel Adjustment Clause Increases</u>, 1976 (and committee prints, same title, for 1977, 1975, and 1974), Senate Committee in Governmental Affairs, prepared by the Economics Division, Congressional Research Service, Library of Congress, July 1977, p. v.
- 2. Some of these amounts also include a fuel component; i.e., not all fuel-related costs are represented by the FAC totals.
- 3. Ibid. (1977 Committee Print), p. vii.
- 4. Public Service Company of New Mexico, Decision and Order, NMPSC, Case No. 1419, Dec. 29, 1979, p. 62.
- 5. Ibid., pp. 56, 63-68.
- National Regulatory Research Institute report, <u>The New Mexico Cost-of-Service Index</u>: <u>An Effort in Regulatory Innovation</u>, by A. Kaufman and R. Profozich, May, 1979.
- Consumers Power Company, 25 P.U.R. 4th 167 (Mich. PSC 1978), appeal pending, Kelley v. PSC, Ingham County Circuit Court, No. 78-22142 AA (filed August 30, 1978).
- 8. Library of Congress, Congressional Research Service, Economics Division, Memorandum Report to Congressman John E. Moss, <u>Regarding Cost of</u> <u>Including Construction Work in Progress in Rate Base as Proposed by</u> <u>the Federal Power Commission</u>, December 20, 1974; and Federal Power <u>Commission</u>, Office of Economics, <u>An Analysis of the Electric Utility</u> <u>Industry's Financial Requirements</u>, 1974.
- 9. Testimony of Gordon Corey, Vice Chairman, Commonwealth Edison for his company and Edison Electric Institute before U.S. House Ways and Means Oversight Committee as reported in Electrical Week, April 2, 1979, p. 4.
- 10. For a thorough analysis of the issue including its legislative, see Occasional Paper No. 1, of the National Regulatory Research Institute, <u>Accelerated Depreciation and the Investment Tax Credit in the Public</u> Utility Industry: A Background Analysis, by Donald W. Kiefer, April 1979.
- 11. Testimony before the U.S. House Ways and Means Oversight Committee as reported in <u>Electrical Week</u>, April 2, 1979, p. 2.
- 12. U.S. Congress, Committee Print, <u>Electric and Gas Utility Rate and Fuel</u> Adjustment Clause Increases, op. cit.
- 13. Public Power Weekly, <u>Newsletter</u>, March 19, 1979, American Public Power Association, Washington, D.C., p. 1.

FOOTNOTES TO PART II (Cont'd)

- Bureau of National Affairs, Energy Users Report, January 1978, p. 10, reporting on Federal Trade Commission staff report dated December 28, 1977.
- 15. Solomon Fabricant. A Primer on Productivity, New York, N.Y. Random House (1969), Chapter 9. Much of the discussion that follows draws on this theoretical foundation.
- 16. Edward F. Renshaw, "Productivity and the Demand for Electricity," Public Utilities Fortnightly (May 6, 1976), pp. 17-20.
- 17. Ibid.
- Calculations presented here were based upon data obtained from the <u>Handbook of Labor Statistics</u>, U.S. Dept. of Labor, Bureau of Labor Statistics, 1977.
- 19. For an extensive treatment of the subjects see John W. Kendrick, <u>Productivity Times in the United States</u>, Princeton, N.J.: Princeton University Press (1961).
- 20. Ibid.
- 21. Renshaw, op. cit.
- 22. Mailgram of November 22, 1978 from Dr. Douglas N. Jones, Director, NRRI, to the Honorable Alfred E. Kahn, Chairman, Council on Wage and Price Stability and Dr. Kahn's reply letter of December 26, 1978.
- 23. Electrical Week (February 19, 1979), p. 3
- 24. NARUC Bulletin (March 5, 1979), p. 6.
- 25. Jan. 26, 1979 Memorandum of Robert Feragen, Administrator, Rural Electrification Administration.
- 26. Public Power Weekly, <u>Newsletter</u>, (Washington, D.C.: American Public Power Association, March 26, 1979), p. 1.
- 27. Public Power Weekly, <u>Newsletter</u>, (Washington, D.C.: American Public Power Association, March 5, 1979), p. 2.
- 28. NARUC Bulletin, op. cit.
- 29. Colorado Public Utilities Commission, "Statement Regarding Federal Anti-Inflation Program," March 20, 1979.
- 30. Wall Street Journal, Column 1 (Oct. 25, 1978), p. 3 (continued).

31. Ibid.

- 32. Electric and Gas Utility Rate and Fuel Adjustment Clause Increases, <u>1977</u>, prepared for the Subcommittee on Intergovernmental Relations and the Subcommittee on Energy, Nuclear Proliferation and Federal Services of the Committee on Governmental Affairs, U.S. Senate, by the Economics Division, Congressional Research Service, Library of Congress; September 1978. See Appendix Table B-V, pp. CRS 41 - CRS 59.
- 33. Ibid.
- 34. The CRS study, Appendix Table B-V, shows data for 45 states, the District of Columbia, Puerto Rico, and the Virgin Islands. Table 1 lists each state and percentage rate increases.
- 35. <u>Electric and Gas Utility Rate and Fuel Adjustment Clause Increases</u>, <u>1977</u>, <u>op. cit</u>.
- 36. Ibid., see Appendix Table B-VI, pp. CRS 61 CRS 73.

PART III - ANALYZING RATES OF RETURN IN REGULATED AND NONREGULATED INDUSTRIES*

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*This report was prepared for the National Regulatory Research Institute at The Ohio State University. The views expressed are those of the authors, R. J. Krasniewski and R. J. Murdock, Academic Faculty of Accounting, The Ohio State University, and do not necessarily reflect those of the Institute.

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I. INTRODUCTION

A. Purpose of This Study

Several critical contemporary problems confront the complex society of Twentieth-Century America. Consisting of issues (e.g., inflation and unemployment) which threaten to modify current lifestyles substantially (if they have not already done so), today's agenda offers very few easy choices. Relying frequently on appeals to emotion rather than to sensibility, the public discussions on some of these topics resemble verbal ping-pong matches in which the participants, acting out of self-interest and mutual distrust, fail to appreciate the interdependent nature of their relationship. Popular rhetoric exacerbates the situation. Allegations such as "Business is irresponsible" or "Labor is greedy" or "Consumers are wasteful" simply promote further suspicion and antagonism.

No issue is more heatedly debated than energy. In particular, the battle lines are well drawn when utility rates are discussed. With their advocates challenging virtually every proposed rate increase, consumers seek stable energy prices. Citing the requirement for fair and reasonable profit levels, utilities defend their requests by pointing to large increases in the cost of providing service and to the need to maintain a competitive position in the capital markets. If their securties are not kept attractive to the investment community, expansion to meet future demand is impossible.

The Regulatory Commission is the arena where these conflicts are resolved. Each side offers evidence to support its position. The two sets of "facts" contain conflicting data. On the one hand, the utility is just trying to "rip off" the consumer as much as possible. On the other, the utility is just trying to be "responsive to the needs" of the community it serves and to its owners as well. The compromise decision reached by the commission leaves everyone unhappy.

This study's principal purpose is to shed some light on the "appropriateness" of utility profit levels and thereby elevate the current public debate. With the data currently available, what can be said about public

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utility rates of return? What observable effects does regulation have? Comparative information, developed as objectively as possible, is the major product of this research effort. Although relying upon data compiled originally by the utility industry (i.e., the financial statements presented in annual reports to stockholders and in registration statements filed with the Securities and Exchange Commission), this study is by no means sponsored by it. Although written and read by utility customers, it is not intended to support the position of any consumer group. All the adjustments to reported data and all the statistical tests are made in the spirit of achieving the highest attainable degree of comparability.

In accord with most empirical research, this study also points to those areas where its principal purpose is difficult to accomplish. How are the comparative analyses performed here affected by the limitations inherent in the data? What <u>can't</u> be said about public utility rates of return? Perhaps more important than the comparisons themselves, these "negative" results are considered at appropriate junctures throughout the report. They offer some insight into the types of information which, if available, could address the unanswered questions, and they document the need for further research.

1. <u>Comparing Profitability Measures for Regulated and Nonregulated</u> Industries

One frequently mentioned purpose of regulation is to ensure that utility profits are no greater than what they would be if the companies were forced to compete. The comparisons analyzed in this section are empirical tests of the degree to which this purpose is achieved. These tests cannot be made solely with reference to utility financial data. Although such an approach would permit conclusions as, "Utility X has a higher rate of return than Utility Y," it fails to relate utilities to competitive sectors of the economy. This type of relationship requires comparisons of utilities with firms in nonregulated industries. Using relative difficulty of entry as a surrogate for the degree of competition

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existing in an industry, this study compares utility profits with those in three industrial classifications.

Although this extension beyond a mere examination of utility rates of return permits the types of comparisons most relevant to the research question considered here, it also increases the level of complexity inherent in the analysis. Several adjustments to account for the differences between regulated and nonregulated enterprises must be made before any comparisons are performed. The concept of "rate of return" must also be unambiguously defined. Reported financial information prepared in accordance with divergent accounting principles must be reconciled. The degrees of risk associated with utility and nonutility investments must be examined to determine their effects on profit-levels. Finally, consideration must be given to efficiency differences between regulated and nonregulated businesses and to the pricing practices which result from the usual regulatory process.

2. Comparing Rates of Return Allowed by Various Regulatory Authorities

A second major type of comparative analysis is directed toward assessing the degree of uniformity in utility profit levels across jurisdictional lines. Again, the intent is to provide information. Using uniform or equal rates of return for all public utilities as a benchmark (in a manner similar to a "national average"), this approach enables a regulatory body to see "where it stands" in relation to its counterparts throughout the country. Although intrastate activity is not subject to direct scrutiny from Washington, federal officials, desiring some amount of similarity and consistency in the regulatory process, may use the data developed here to determine their future course of action. Several types of comparisons (e.g., State by State, "Flow-Through" States and "Normalized" States, etc.,) are presented.

Because the analysis here is limited to <u>utility</u> financial data, methodological issues differ somewhat from those mentioned in the preceding section. However, utility accounting practices must still be reconciled, and risk levels for investments in various utility securities must be considered. One additional concern involves data limitations caused by the number of firms per regulatory authority.

B. A Brief Look at the Major Components of This Study

Section II presents the conceptual issues which are addressed in the comparison of regulated and nonregulated profit measures. The discussion focuses on regulation's impacts, both intended and unintended, upon utility rates of return. The analysis in Section III begins at the most basic level by comparing rates of return under the assumption that the adjustments made to the reported financial information adequately account for all the major differences which exist between regulated and nonregulated companies. Section IV considers other factors which, because they differ between the two classes of firms, may affect the rate of return comparisons. Section V examines rates of return allowed by regulatory jurisdiction. Finally, Section VI summarizes the results and suggests directions for future research efforts.

II. Regulation's Effects Upon Rates of Return

A. Definitional, Theoretical, and Policy Related Issues

The following six issues, directly or indirectly, intentionally (as a desired outcome of the regulatory process) or inadvertently (as an unavoidable by-product), can have an impact on reported utility profit levels. The first, the definition of rate of return, needs a satisfactory resolution before any meaningful comparisons can be made. The second, the so-called public interest theory of regulation, is the primary rationale underlying this study's comparative analyses. The third, extensive use of financial leverage, illustrates one way in which utility shareholders can circumvent rate of return constraints imposed by regulation. The remaining three issues (investor risk level differences, marginal cost pricing, and rate base inflation) are more troublesome. For each of these a simplifying assumption is made prior to the comparative analysis in Section III. They are then treated seriatim in Section IV.

1. Definition of Rate of Return

Nothing is more fundamental to this study than the meaning of rate of return. On the surface there does not seem to be much confusion concerning this term. For example, an eight percent rate of return simply means that for every \$100 invested, \$8 is earned. However, at least two major ambiguities occur when this concept is applied simultaneously to utilities and nonregulated businesses.

In general, for a company not subject to regulation, rate of return in an accounting sense means the quotient obtained when net income is divided by total assets (total resources). A measure with the identical name in the utility industry has both its numerator and its denominator determined differently. First, "return" in the regulatory accounting sense includes interest charges along with net income. This is done because of the high degree of financial leverage (the ratio of debt to equity) found in the typical public utility. Second, because a utility is not allowed to earn a return from current ratepayers on construction work in progress (CWIP), "rate base" replaces total assets. Roughly akin to the excess of total assets over CWIP, the rate base, depending upon the regulatory jurisdiction, may involve several other adjustments to total assets.

To reconcile these differences in this report, whenever a rate of return on total assets is calculated, interest charges are included in the numerator. This is applied universally, for utilities and non-utilities alike. Interest is also included in all rates of return on total productive assets (where total productive assets are defined as total assets minus CWIP).¹ Calculated in the same manner for every company (including those which are not regulated), this rate of return on total productive assets is the closest approximation in this study to the utility notion of rate of return on rate base.

In addition to the rates on total assets and on total productive assets, two other series of profitability measures are developed. Constituting returns to common shareholders, both exclude interest from

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their numerators since interest is the "return" to debt holders. In a parallel manner to the previous discussion, the denominator used to compute the rate of return on common shareholders' productive assets also excludes CWIP.

Thus, rate of return as defined in this study is not the same as a utility's "rate of return," nor is it identical to "rate of return" as the term is conventionally used in the nonregulated sector. Instead it is a compromise measure which captures the essence of both concepts and facilitates comparisons. Finally, to make the data for "Flow Through" and "Normalized" utilities comparable, all rates of return are computed <u>before</u> deducting Federal Income Tax. Section III elaborates on this and other methodological issues.

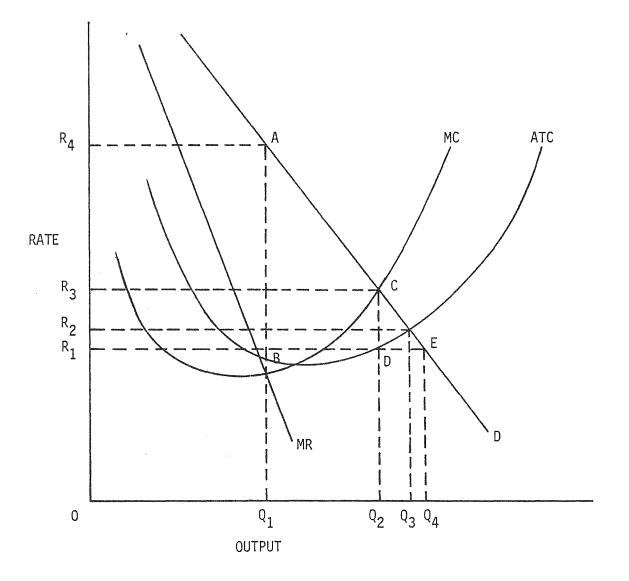
2. <u>From the Public Interest Theory of Regulation: Regulation</u> Should Place a "Ceiling" on a Utility's Rate of Return

This prescription serves as one well-known foundation for regulation's role in utility rate-setting. As a guardian of the public interest, the regulator permits the regulatee only a "normal profit," thereby removing any opportunity to follow monopoly pricing policies. The presumption is that an operation with as many monopolistic attributes as a public utility would, if not subjected to regulatory authority, seek to maximize its profits by restricting output and raising prices. A "normal profit" is that level of earnings which would prevail in a competitive product market. Considered from an investment viewpoint, it is the amount necessary to attract and retain the resources employed in the industry.² Conventional economic analysis includes normal profit as a component of a firm's cost curves.

Figure 1 depicts the revenue and cost functions for a utility characterized by increasing costs (i.e., the situation where the incremental cost of providing more output is rising).³ D is the demand schedule (assumed to have an elasticity coefficient greater than zero) and MR its related marginal revenue curve. ATC is its average total cost curve, and MC is the marginal cost curve. The firm earns a normal profit when, for a given level of output, the rate charged equals average total cost.



THE ECONOMIC IMPACT OF REGULATION UPON A UTILITY WITH INCREASING COSTS



If unregulated and allowed to maximize profits, the utility equates marginal revenue with marginal cost, produces and sells Q_1 at rate R_4 , and earns "above normal" profits equal to the area of R_1R_4AB . Regulation must now remove the "monopoly profit."

One approach is to require the utility to sell Q_1 at a rate of R_1 . Since this combination is a point on its average total cost curve, the firm would receive only a normal profit. But the havoc resulting from the excess demand (at R_1 quantity demanded is Q_4) would create a rationing system at best and a "black market" at worst. Since consumers are willing to pay R_4 for Q_1 , those fortunate enough to purchase some output will easily be able to make substantial profits on subsequent re-sale.

Instead, the regulator attempts to determine that output where demand equals average total cost. In Figure 1 the desired output is Q_3 .⁴ Here normal profits are earned, and no excess demand exists. As long as demand is not perfectly inelastic, the quantity consumed in the regulatory solution exceeds the amount provided by the unregulated monopolist. The rate charged must be lower.

With this directive from economic theory as a norm, Section III proceeds with empirical tests--comparisons of utility profit levels with those in other industrial groups classified by a surrogate for relative degree of competitiveness. Utility rates of return should approximate those in perfectly competitive industries. Other than a utility subject to the regulatory process described here, only firms in perfect competition have market equilibria located on their average total cost curves. Any firm operating in an imperfect market is able to earn some amount of above normal profit. Therefore, since none of the three industrial classifications employed in Section III is perfectly competitive, utilities, if they are regulated in accord with the economic theory discussed here, should have lower rates of return than any of the industrial categories.

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3. From the Rate-Setting Process Itself: A Utility is Induced to Use Financial Leverage to Increase Returns to its Common Shareholders

One of the primary reasons for calculating rates of return on shareholders' assets is to determine the effects of financial leverage. With its emphasis placed on the rate of return allowed to be earned on a utility's rate base, regulation may still permit relatively high profit levels on those assets "owned" by the company's common stockholders. The incentive created for rate base increases financed through borrowing is illustrated in the following example.

Assume that a public utility's capital structure is:

	Amount
8% Long-Term Debt	\$ 50
Common Stock	50
Total Capitalization	<u>\$100</u>

Assume further that the utility's total capitalization equals its total assets which in turn equal its rate base. The regulatory authority allows a nine percent rate of return. Finally, assume that the company is planning a major plant expansion. Its current rate of return measures are:

> On total assets: $\frac{9}{100} = 9\%$; and On common shareholders' assets: $\frac{9-4}{100-50} = \frac{5}{50} = 10\%$.

Suppose the entity wishes to increase the rate of return for its common stockholders as it builds its new facilities. This can be accomplished by borrowing the necessary construction funds at eight percent. To take an extreme case, assume that the new plant has a cost of \$100 and that debt is used exclusively. The capital structure becomes:

	Amount
8% Long-Term Debt	\$150
Common Stock	50
Total Capitalization	<u>\$200</u>

With the commission still allowing nine percent, rates of return are:

On total assets: $\frac{18}{200} = 9\%$. On common shareholders' assets: $\frac{18 - 12}{200 - 150} = \frac{6}{50} = 12\%$.

The utility has "leveraged" higher profit levels for its owners. It can improve returns to shareholders by augmenting its rate base through assets acquired with funds borrowed at interest rates which are lower than its allowable rate of return. The results of this leveraging process suggest that returns on utility stockholders' assets may violate the axioms of the risk-return relationship.⁵ Further, even though a regulator acting in the public interest imposes a ceiling on a utility's rate of return on total productive assets (rate base), a regulated company can still provide relatively high profits for its common shareholders.⁶ Regulated public utilities constitute some of the most highly leveraged companies in the country.⁷

4. From Investment Theory: Because Regulation Removes Most of the Risk Associated with an Investment in Utility Securities, Utility Rates of Return Should be Relatively Low

The ceiling imposed by regulation on a company's rate of return also becomes a "floor." Assuming good estimates of all the variables used in rate-setting (or relatively short "regulatory lag" if the estimates prove inaccurate), utilities are <u>guaranteed</u> a specified level of profit. Premised on the idea that investors are risk averse, investment theory postulates a direct relationship between risk level and rate of return.⁸ Risk is a "bad" which, if borne by the investor, must provide compensation in the form of higher anticipated profit levels.

Acting as a form of insurance policy, the regulatory process itself removes much of the potential risk associated with investment in utility securities.⁹ Further, because revenues are virtually assured, utilities can engage in much more financial leverage than nonregulated enterprises. Although used more appropriately as a predictor of returns to shareholders than of returns on total assets, risk-return theory points in the same direction as the public interest theory of regulation: utility rates of return should be relatively low.¹⁰

5. <u>From Welfare Economics: A Utility Should Promote Societal</u> Efficiency by Using Marginal Cost Pricing

The regulatory "normal profit" outcome occurs when the rate charged to customers equals the utility's average cost of producing output. As Figure 1 illustrates, regulation results in the utility supplying quantity Q_3 at a rate of R_2 . But R_2 is also the firm's average total cost per unit when output level Q_3 is attained. Since average total cost includes an allowance for normal profit, this equilibrium position, accomplished through "average cost pricing," keeps utility profits from exceeding those in competitive industries.

Although generally an effective curb on monopolistic pricing practices, average cost pricing may result in an inefficient allocation of society's resources. The issue here centers on the benefits and costs of supplying utility services. The demand schedule reflects the benefits received by consumers. The value placed on the incremental unit purchased is the maximum price a consumer is willing to pay for it.¹¹ In other words, the demand function can also be labeled the marginal valuation schedule or the marginal benefit curve. In this context, assuming no "externalities" on either side of the market, the socially optimal result occurs when, for the last unit of utility service produced and consumed, marginal benefit and marginal cost are equal. With average cost pricing, this outcome can happen in only the rarest of situations.¹² Thus, another rate-setting procedure merits attention, "marginal cost pricing," a system which attempts to transmit accurate signals to the customer about the cost of resources consumed in providing utility output.

The differences between the two approaches are illustrated in Figure 1. The marginal cost of the last unit purchased at output Q_3 (as determined from the marginal cost curve) exceeds its marginal benefit (as

reflected in the demand curve). In removing from the utility the opportunity for "above normal profit," regulation based on average cost pricing also causes, from a societal viewpoint, "excessive" amounts of resources devoted to utility service because the price charged is "too low." On the other hand, without any specific concern for utility profit levels, marginal cost pricing results in a socially efficient quantity (Q_2) by charging a rate of R_3 .

If marginal cost pricing does prevail in the utility industry, the results of the comparative analyses in this study are difficult to anticipate. Unlike the earlier discussion where the removal of monopolistic opportunities and the existence of low risk levels led to the conclusion that utility rates of return on total productive assets should be low, a marginal cost pricing policy means that utility profit levels should exceed those found in perfectly competitive industries.¹⁵ But, since no industrial group considered here is perfectly competitive, no prediction can be made about the relationship between rates of return for utilities using marginal cost pricing and nonutility businesses.¹⁶ Utility profits for justifiable societal reasons could be very high.¹⁷

6. From the Rate-Setting Process Itself: Rate Base Inflation

A public utility attempting to increase its <u>total</u> profits can pursue either (or both) of the following strategies:

- (a) Convince its regulatory commission to increase the rate of return allowed on its rate base; or
- (b) Augment its rate base.

In many situations, the latter alternative may be preferable from the utility's viewpoint. Since it places the company in the undesirable position of drawing attention to its rate of return, the first option may not be politically expedient. The second approach, which may or may not involve "rate base inflation," effectively increases profits without exposing the utility to as much public criticism.

Thus, the regulatory process contains an inducement for augmenting the rate base. As used in this study, the term "rate base inflation" means any "improper" increase in a utility's rate base. In a world of "perfect" regulation, no rate base inflation would exist. However, because it may be difficult to discern, rate base inflation looms as a possibility for virtually every rate-setting process. A utility can accomplish it in two general ways: (1) Accumulate unnecessary plant and equipment (i.e., inefficient use of resources); and (2) Treat cost-of-service items as fixed assets for regulatory accounting purposes (i.e., "capitalize the paper clips"). The effects of these two tactics on the rate of return calculations are considered in the following discussion.

a. Accumulation of Unnecessary Assets in the Rate Base

Implicit in the behavior of nonregulated industry is the assumption that each firm, acting in its own self-interest, strives to operate as efficiently as possible. Producing any level of output at its minimum possible cost is a necessary (albeit not a sufficient) condition for profit maximization. Requiring use of the most up-to-date technology, this concept of efficiency is impounded in the usual microeconomic theory of the firm.

However, net income is determined differently in the regulated sector. Prohibiting the public utility from maximizing its profit as a monopolist, regulation instead allows the firm to earn a fair and equitable return on its rate base. Starting with the contribution of Averch and Johnson,¹⁸ a substantial amount of literature has evolved concerning the inefficient use of inputs by regulated entities.¹⁹ Overcapitalization, the so-called "A-J Effect," occurs as regulation encourages the substitution of capital for labor. The overall impact of this "build up the rate base" tactic on the comparative analyses performed in this study is difficult to assess. The efficiency or resource utilization issue (i.e., the built-in regulatory incentive for employing "too many" assets) is not reflected in the rate of return on total productive assets. All assets included in the rate base--those actually needed <u>and</u> the "excess"--

statistical sense, one result can be inferred. To the extent that this rate base strategy is nothing more than a preferred (from the utility's standpoint) option to the otherwise viable alternative of securing a higher allowable rate of return from the regulatory authority, rates of return on total assets (and on total productive assets as well) will be lower than they otherwise would have been.

On the other hand, rates of return for common stockholders' assets adjust as "rate base management" techniques are used. The stockholders' profitability measures change according to the method used to finance the "unnecessary"²⁰ assets. If debt is used, rates of return on owners' productive assets increase.²¹ They decrease if the rate base is inflated with common shareholders' funds.²² However, these movements occur regardless of whether the rate base increase is a manifestation of this inflation strategy or is a truly necessary addition.

b. <u>Capitalizing Cost-of-Service Items</u>

This second type of rate base inflation is strictly an accounting phenomenon. It does not involve any inefficiency in an economic sense. It can best be illustrated by an example.

Consider two utilities (A and B). At the outset each has the same values for the relevant variables in the regulatory setting:

Annual cost-of-service:	\$300
Rate base:	\$200
Allowable rate of return on rate base:	10%
Capitalization:	
8% long-term debt:	\$100
Common stock	100
Total	\$200

Assume that the utility distributes annually to its shareholders cash dividends equal to the smaller of: (1) shareholders' profits; or (2) available cash (i.e., total revenues minus the cash component of cost-ofservice minus purchases of assets included in the rate base minus interest paid). Available cash will be less than shareholders' profits when some of the latter are "plowed back" into the business (i.e., when purchases of rate base assets exceed depreciation).

TABLE 1

FIVE-YEAR RESULTS FOR COMPANY A

		10%			and a faile of the second s		mon olders'	Rate of	f Return
Year	Rate Base	Return Received on Rate Base	Cost- of- Service	Total Revenues	Interest	Total Profits	Cash Dividends	On Total Productive Assets	On Common Share- holders' Productive Assets
]	\$200	\$20	\$300	\$320	\$8	\$12	\$12	10%	12%
2	200	20	300	320	8	12	12	10%	12%
3	200	20	300	320	8	12	12	10%	12%
4	200	20	300	320	8	12	12	10%	12%
5	200	20	300	320	. 8	12	12	10%	12%
Total	\$1,000	\$100	\$1,500	\$1,600	\$40	\$60	\$60	any Martin Constitution of the Const	
5-Year Average	\$ 200	\$ 20	\$ 300	\$ 320	\$8	\$12	\$12	10%	12%

Source: Author's hypothetical calculations.

Second and the second second

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				1		Common Shareholders'				
Year	Rate r Base*		Return Cost-	Total Revenues		Total Profits	Cash Dividends	On Total Productive Assets	On Common Share- holders' Productive Assets	
]	\$209	\$20.9	\$292	\$312.9	\$8	\$12.9	\$4.9	10%	11.83%	
2	216	21.6	294	315.6	8	13.6	7.6	10%	11.72%	
3	221	22.1	296	318.1	8	14.1	10.1	10%	11.65%	
4	224	22.4	298	320.4	8	14.4	12.4	10%	11.61%	
5	225	22.5	300	322.5	8	14.5	14.5	10%	11.60%	
Total	\$1,095	\$109.5	\$1,480	\$1,589.5	\$40	\$69.5	\$49.5			
5-Year Average	\$ 219	\$ 21.9	\$ 296	\$ 317.9	\$8	\$13.9	\$ 9.9	10%	11.68%	

FIVE-YEAR RESULTS FOR COMPANY B

*Average of beginning-of-year and end-of-year amounts.

Source: Author's hypothetical calculations.

Approximation and a second second

For Utility A, assume that none of the values stated above change over a five-year time period. Increases in the rate base exactly offset annual depreciation. Long-term debt outstanding is constant. Table 1 presents the results for Company A.

Utility A depicts a "steady-state" situation. Utility B is identical to A from an economic viewpoint but its accounting is slightly more imaginative. Each year Utility B takes \$10 of cost-of-service and places it in its rate base. With a five-year useful life, this amount is depreciated at the rate of \$2 per year. Thus, Company B's annual cost-of-service will be \$290 plus the depreciation on this "new component" of its rate base. Its results are contained in Table 2.

Company B's outcome for Year 5 becomes its "steady-state" for all future periods. When compared with A, B, through its \$10 annual accounting ploy, achieves a permanent twelve and one-half percent rate base increase (from \$200 to \$225). Even with this increase, B's total revenues in Year 5 exceed A's by only .78%. Starting with Year 5, B's shareholders' annual profits and cash dividends will be greater than those of A by \$2.5. This was accomplished by "plowing back" profits amounting to \$20 (the difference between \$69.5 and \$49.5) in Years 1 through 4. This "investment" will now pay an annual rate of return of twelve and one-half per cent (\$2.5 divided by \$20).

Viewed another way, B's shareholders have "invested" much less than \$20. Rather, for the five-year period, the investment is only \$10.5 (the difference between A's total cash dividends of \$60 and B's \$49.5), making the rate of return on the incremental investment 23.8%. Further, because they will now receive \$2.5 per year more in cash dividends, B's shareholders' total cash dividend receipts will exceed A's owners' total cash inflow by the end of Year 10.²³

As a comparison of the last two columns in both tables demonstrates, this type of rate base inflation has no effect on the rate of return on total productive assets and it <u>reduces</u> the rate of return on common shareholders' productive assets. The permanent difference in this example is four-tenths of one percent (12% for Utility A to 11.6% for Utility B). "Reverse" financial leverage has occurred (i.e., relatively less longterm debt exists since the rate base increase is financed through shareholders' contributions.

c. Rate Base Inflation and Financial Leverage

The following table summarizes the relevant relationships between rate base inflation and financial leverage. In each situation a utility capitalized with both debt and common stock (with the interest rate lower than the allowable rate of return on rate base) has increased its rate base. The company has not requested its regulator to approve any change in its allowable rate of return. The results presented in the table are based on the presumption that "perfect regulation" discerns proper and improper rate base increases.

Situation 1 combines rate base inflation with increased financial leverage. If, in this case, the regulator would not have allowed any increase in the rate of return on the uninflated rate base, the rate of return on total productive assets as calculated in this study is not affected by rate base inflation. But the increased rate of return on common shareholders' productive assets caused by the additional borrowing would not have been achieved.

One example of Situation 2 is the accounting stratagem of including a cost-of-service item in the rate base. This causes the computed rate of return on shareholders' productive assets to decrease, although with proper accounting (an important aspect of "perfect regulation") it should either remain unchanged or increase (through regulatory approval of a higher allowable rate of return).

Involving no rate base inflation, Situations 3 and 4 demonstrate the effects of changing a utility's capitalization proportions. The rate of return computations in this study reflect such changes and therefore are "correct" for these two cases.²⁴ Like Situation 2, Situation 4 is an example of "reverse" financial leverage where the seemingly inconsistent combination of higher total profits and lower rates of return on common shareholders' productive assets occurs.

B. Summary

With the definition of rate of return altered somewhat to permit its consistent application to all companies included in this study, the comparisons in the following section are directed toward ascertaining the degree to which the prescription from the public interest theory of regulation is fulfilled. Is the utility industry able to earn above normal profits or does regulation limit earnings to levels existing in more competitive sectors? However, the outcomes of the analysis can be

TABLE 3

EFFECTS OF RATE BASE INFLATION AND FINANCIAL LEVERAGE

	Was the Effect of Rate Rate Base Base Increase Increase on <u>Total</u> Profits Was the Financed		Effect o Base In on Rat Return o Productiv	crease e of n Total	Effect of Rate Base Increase on Rate of Return on Common Shareholders' Productive Assets			
Situation	Rate Base Increase Proper?	Rate Base Through Increase Additional	Actual	With "Perfect Regulation" ¹	As Computed in this Study	With "Perfect Regulation" ¹	As Computed in this Study	With "Perfect Regulation" ¹
1	NO ²	YES ³	INCREASE	INCREASE ⁴	NONE	INCREASE ⁴	INCREASE	INCREASE ⁴
2	NO ²	NO	INCREASE	INCREASE ⁴	NONE	INCREASE ⁴	DECREASE	INCREASE ⁴
3	YES	YES ³	INCREASE	INCREASE	NONE	NONE	INCREASE	INCREASE
4	YES	NO	INCREASE	INCREASE	NONE	NONE	DECREASE	DECREASE

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¹"Perfect regulation" disallows all improper rate base increases. Regulator may or may not permit an increase in the utility's allowable rate of return on its uninflated rate base.

 $^2\mathrm{Rate}$ base inflation exists.

³Increased amount of financial leverage occurs.

⁴Only to the extent that the regulator would have permitted rate of return on uninflated rate base to increase. If no such permission would have been granted, "NONE" becomes the correct entry in the table.

Source: See Tables 1 and 2 and text.

interpreted as evidence that the regulatory process has several other effects. The statistical results may have occurred because regulation emphasizes something other than removing monopoly profits or because it elicits (perhaps unintentionally) certain types of behavior from the businesses it oversees.

First, regulation may induce a utility to engage in a substantial amount of financial leverage. As long as the interest rate on its debt is less than its rate of return allowed by the regulator, borrowing to augment the rate base will increase returns on common shareholders' assets. Thus, a relatively low rate of return on <u>total</u> assets may be accompanied by a high profit level on owners' assets. Some evidence that this leverage phenomenon does occur has already been provided.²⁵

Second, regulation may be attempting to ensure that utility rates of return are in line with the level of risk borne by utility investors. In general, the amount of such risk should be small. Thus, both the public interest theory of regulation and the risk-return relationship suggest relatively low rates of return on utility shareholders' assets.

Third, regulation may be seeking optimal societal resource allocation through marginal cost pricing. Because profit levels are only of incidental importance with this policy, it can be consistent with virtually any rate of return. If regulated firms have increasing average total costs, marginal cost pricing permits them to achieve higher profit levels than perfectly competitive entities.

Finally, regulation may inadvertently encourage "rate base inflation," a technique which provides higher <u>total</u> profits without requiring the regulator to allow an increase in the rate of return on rate base. To the extent that, in lieu of obtaining such an increase, a utility acquires "unnecessary" assets, its rate of return on total productive assets will be lower than it otherwise would have been. If rate base inflation is accomplished through additional borrowing, rates of return on shareholders' assets will reflect the financial leverage effect previously discussed. However, rate base inflation and increased financial leverage are essentially two different tactics. Each can exist independently of the other. A related strategy involves including in the rate base an outlay which more appropriately would be classified as a component of cost-of-service. More of an accounting ploy than an intentional failure to seek a higher allowable rate of return, this approach can be used even in a situation where the propriety of the actual expenditure is unimpeachable.²⁶ Assuming that no additional borrowing occurs, a type of "reverse" financial leverage takes place. When contrasted with the "proper" accounting treatment (i.e., recovery through cost-of-service), this results in higher total profits but lower rates of return on common shareholders' assets. Although the effects of rate base inflation on the rate of return measures analyzed in this study can be determined at the conceptual level, they are unobservable in the actual statistical comparisons. This occurs for two reasons: (1) the increase in the utility's rate of return which would have been allowed by the regulator on the uninflated rate base is unknown; and (2) rate base inflation itself is unobservable.

As this discussion demonstrates, there will likely be competing explanations for the results of the rate of return comparisons. After a treatment of methodological issues, the next section proceeds with statistical tests solely as they relate to this study's primary research issue: How do utility profitability measures compare with those of nonregulated industries? Underlying this analysis are three assumptions: (1) risk levels for investments in regulated and nonregulated companies are the same; (2) utilities employ average cost pricing; and (3) rate base inflation does not exist. The effects of relaxing these assumptions are considered in a subsequent section of this report.

III. Methodology and Data Analysis

A. <u>Calculating Rates of Return</u>

As mentioned previously,²⁷ for each company analyzed in this study, interest charges are added back to reported net income for two of the four rate of return measures. This is done so that rates of return on total assets and on total productive assets are computed in a manner similar to that employed in the regulatory process. Four other issues related to the rate of return computations are treated in the following discussion.

1. Adding Back Federal Income Tax

Besides interest, federal income tax is also added back to reported net income. This facilitates the comparisons involving "flow-through" utilities. According to the flow-through concept of regulation, a company must immediately pass on to its customers the income tax savings associated with accelerated depreciation and the investment tax credit.²⁸ Only income taxes actually paid or currently payable (net of all current investment tax credits) may be recovered as part of cost-of-service. Accordingly, an income statement for a flow-through utility will report this amount as income tax expense.

Flow-through is an accounting method which is found most often in regulated industry. With regard to the tax savings derived from accelerated depreciation, generally accepted accounting principles preclude nonregulated businesses from using flow-through.²⁹ However, because of Congressional legislation, the accounting profession may not recommend an appropriate treatment for the investment tax credit.³⁰

"Normalization" (frequently called "Deferral" or "Tax Allocation" outside the regulatory sector), the other principal accounting method, permits a utility to recover in its cost-of-service the income tax which would have been paid if the company's reported net income was also the amount currently subject to income tax. Since the tax return's accelerated depreciation normally exceeds the annual report's straight-line

depreciation, a deferred tax liability accounts for that part of the utility's tax expense which is not currently payable. The investment tax credit is considered a reduction in the cost of an asset and is reflected in lower depreciation expense throughout the asset's useful life. The following example illustrates potential distortions to the rate of return comparisons caused by the differences between flow-through and normalization accounting.

Assume that two public utilities are identical in all respects except that one (Company N) is allowed to normalize the tax difference caused by accelerated depreciation while the other (Company F) must flow-through this amount to its customers. Both are required to use straight-line depreciation for rate-making purposes. Each company's relevant data are:

Rate Base	\$ 300
Operating Expenses (other	
than depreciation and taxes)	50
Straight-line Depreciation	30
Accelerated Depreciation	45
Interest on Long-Term Debt	12
Allowed Return (10% of Rate Base)	30
Tax Rate	50%

Revenue Requirements for $N(RR_N)$ would be:

 $RR_N = 50 + 30 + .5(RR_N - 50 - 30 - 12) + 30$.5 $RR_N = 64$ $RR_N = 128$

For F, Revenue Requirements (RR_F) would be:

 $RR_F = 50 + 30 + .5(RR_F - 50 - 45 - 12) + 30$.5 $RR_F = 56.5$ $RR_F = 113$

Assuming that all actual amounts equal the corresponding estimates made during rate-setting, the Income Statements for the two utilities would be:

	<u>N</u>	F
Revenues	\$ 128	\$ 113
Operating Expenses	(50)	(50)
Depreciation	(30)	(30)
Federal Income Taxes	(18)	(3)
Operating Income	\$ 30	\$ 30
Interest Charges	(12)	(12)
Net Income	\$ 18	\$ 18

The use of net income (or net income plus interest charges) will result in the two utilities having identical rate of return measures. But this result occurs only because Company N reports as expense both current and deferred income taxes while Company F's report includes only current income taxes. If both companies account for income taxes in the same manner, N's after tax income will exceed F's by \$7.5. Since the nonregulated firms use N's reporting method, F is transformed into a normalized utility. F's financial statement now includes income taxes of \$10.5, the appropriate normalized expense on its before tax income of \$21 (Revenues of \$113 less expenses--including interest--of \$92). F's after tax operating income falls to \$22.5, and the comparison with N's \$30 reflects the \$7.5 difference.³¹

As compared with attempting to "normalize" the flow-through utilities, the approach employed in this study, adding back reported income tax expense for all companies, accomplishes the desired objective in a simpler fashion. All rates of return are based on "pre-tax" income data. In the previous example, with taxes added back, N's "income" (\$48) exceeds F's (\$33) by \$15, the difference in revenues caused by N's ability to normalize. This is consistent with the \$7.5 after tax difference discussed earlier. By adding back taxes aberrations resulting from the manner in which a company accounts for its tax payments to the Federal Government do not affect the rate of return measures.³²

2. <u>Subtracting Allowance for Funds Used During Construction to</u> Determine the Return to Productive Assets

To design the analysis as closely as possible to the regulatory setting, two of the rate of return series relate income to productive

assets. As discussed earlier, this concept of productive assets [total assets minus construction work in progress (CWIP)], roughly approximates regulation's rate base computation.³³ Besides the reduction in the asset base for CWIP, a utility's allowance for funds used during construction (AFUDC) is subtracted from reported income in the numerator of all rates of return on productive assets.

Unique to regulated industry, AFUDC is the net cost during the period of construction of borrowed funds used for construction purposes and a reasonable rate on other funds when so used.³⁴ By capitalizing interest and an imputed amount of income on equity funds, a utility is able to "earn a return" on assets being constructed. Although this method, especially its imputation of earnings on owner-provided capital, is a violation of generally accepted accounting principles applicable to nonregulated entities, regulatory accounting rules permit it as a substitute for including CWIP in the utility's rate base.

The increase in reported income resulting from this practice is considered necessary for a utility to maintain a competitive position in the capital markets. This is especially true in recent times when many regulated firms have substantial amounts committed to currently "unproductive" assets. Potential investors in utility securities understand that AFUDC accounting will enhance operating profits once construction is deemed complete.³⁵ Any rate of return solely on productive assets would not include AFUDC. Thus, reported income is reduced appropriately for all such profitability measures computed in this study.

3. Measuring Returns to Common Shareholders' Assets

In a manner similar to a settlement in liquidation, a "residual claims" approach is used to calculate the two sets of profitability measures on common shareholders' assets.³⁶ To derive the earnings applicable to total common stockholders' assets, pre-tax reported net income is reduced by dividends on preferred stock. The assets available to common shareholders are those which remain after the "claims" of all other investors and creditors have been "settled" (i.e., total assets,

less liquidating value of preferred stock, less long-term debt, less current liabilities). The resulting rate of return on total common shareholders' assets in many instances approximates the familiar "rate of return on equity." However, <u>all the profitability measures computed in this</u> <u>study are rates of return on assets</u>. In no case is a rate of return computed by dividing some amount of income by part or all of the stockholders' equity reported on the balance sheet.

Although the computation of this first profitability measure on common shareholders' assets is fairly straight-forward, some philosophical issues exist concerning the measurement of the rate of return on common stockholders' <u>productive</u> assets. The fundamental question is: Who has "claims" on the CWIP? Consistent with the method for deriving the rate of return on <u>total</u> productive assets, the approach used involves removing AFUDC from the numerator and CWIP from the denominator of the rate of return on total common shareholders' assets. Since all other claims have already been satisfied, this method is based on the premise that <u>all</u> CWIP "belongs" to the common shareholders. With CWIP likely categorized among the company's least desirable assets, this is a highly probable outcome of a residual-claim liquidation settlement.³⁷

4. <u>An Algebraic Representation of the Four Rate of Return Measures</u> The four rates of return which emerge from the methodology discussed above can be expressed with the following algebraic notation. In all cases the subscript "it" means "for company i in year t." Let

I_{it} = After-tax net income;

T_{i+} = Income tax expense;

INT_{it} = Interest expense;

AFUDC_{i+} = Allowance for funds used during construction;

PD_{it} = Dividends on preferred stock;

TA_{i+} = Average total assets; ·

CWIP_{i+} = Average construction work in progress;

LIQPF_{it} = Average liquidating value of preferred stock;

LTD_{;+} = Average long-term debt; and

CL_{it} = Average current liabilities.

a. <u>Measure 1</u>:

$$RI_{it} = \frac{I_{it} + T_{it} + INT_{it}}{TA_{it}}$$

R1_{it} = Accounting Rate of Return on Total Assets

This measure is the reported pre-interest and pre-tax accounting rate of return on total assets.

b. Measure 2:

$$R^{2} it = \frac{I_{it} + T_{it} + INT_{it} - AFUDC_{it}}{TA_{it} - CWIP_{it}}$$

R2_{it} = Accounting Rate of Return on Total Productive Assets

This measure can be viewed as the pre-interest and pre-tax accounting rate of return on total productive assets which would have been reported by utilities if they were required to employ the accounting procedures of the nonregulated sector (i.e., if utilities were not allowed to increase reported income by AFUDC). Also, since AFUDC is not available, Measures 1 and 2 will be identical for all nonregulated companies with no CWIP. If a nonregulated entity has some CWIP, its Measure 2 will always exceed its Measure 1.

> c. <u>Measure 3</u>: $R_{3}_{it} = \frac{I_{it} + T_{it} - PD_{it}}{TA_{it} - LIQPF_{it} - LTD_{it} - CL_{it}}$ $R_{3}_{it} = Accounting Rate of Return on Total Common Shareholders'$ Assets

This measure is the pre-tax rate of return on common shareholders' total assets. It is developed according to the generally accepted notion that common stockholders have a residual claim to their company's resources.

d. Measure 4:

$$R4_{it} = \frac{I_{it} + T_{it} - PD_{it} - AFUDC_{it}}{TA_{it} - LIQPF_{it} - LTD_{it} - CL_{it} - CWIP_{it}}$$

R4_{it} = Accounting Rate of Return on Common Shareholders' Productive Assets

Measure 4 defines the common shareholders' pre-tax rate of return on their share of the company's productive assets. This rate of return is based on the assumption that partially completed, specifically designed assets (i.e., CWIP) are the least desirable in any liquidation settlement and are therefore left in their entirety to the common shareholders.³⁸ Also, just as with Measures 1 and 2, a nonregulated company with no CWIP will have identical Measures 3 and 4. If such a firm has CWIP, its Measure 4 will always exceed its Measure 3.

B. Nonregulated "Industries": The Three Barrier-to-Entry Groups

The utility rates of return are compared with corresponding measures for seventy-one nonregulated companies partitioned into three groups according to relative difficulty of entry. Each group contains leading representatives from several relatively concentrated industries. Thus, each firm has the attributes associated with the oligopolistic form of market structure.

Relative difficulty of entry is a frequently used surrogate for the degree of competitiveness existing within an industry.³⁹ The conventional analysis is based on the assumption that difficulty of entry and degree of competition vary inversely. Thus, the most competitive set of firms is the "low barrier-to-entry" group. A lesser degree of competition exists in the "medium barrier-to-entry" category, and the least competitive firms are placed in the "high barrier-to-entry" group.

As mentioned throughout this report, the results of the statistical tests will indicate the "position" of the regulated firms in relation

to the barrier-to-entry categories. If regulation removes all opportunity for above normal profit, utility rates of return will be less than the corresponding measures for all three barrier-to-entry groups. Even the low barrier group cannot be considered perfectly competitive. On the other hand, utility returns approximating those in any of the three groups (especially the medium barrier or the high barrier group) indicate that regulated companies are able to achieve profit levels in excess of those existing in the more competitive sectors of the economy.

C. Sample Selection

The firms analyzed in this study were chosen as follows:

1. Initial Requirements

a. <u>Electric Utilities</u>

Inclusion on the Utility COMPUSTAT tape⁴⁰ was the first criterion for selection of the electric utilities. This guarantees the availability of data items unique to regulated industry (e.g., AFUDC).

b. Nonregulated Companies

To the greatest extent possible, Mann's sample of firms comprising the three barrier-to-entry groups was replicated.⁴¹ Thus, the first selection of nonregulated businesses was based on two conditions: (1) Availability on the general COMPUSTAT tape; and (2) Membership in Mann's sample. As Sullivan's study⁴² demonstrated, some of Mann's firms have been merged out of existence. Further, not all of Mann's "surviving" companies meet the criteria for inclusion on the COMPUSTAT tape. Accordingly, firms available on COMPUSTAT were chosen as replacements for most of these "missing" companies. In each case the substitute firm was selected from the same industry as the company it replaced.

2. Further Requirements

After the original selection of company names as above, the following additional information was necessary for inclusion in the final sample: (1) Availability on the COMPUSTAT tape of all data items being analyzed for the entire ten-year period 1967-1976; and (2) Existence

of stock price data for at least sixty consecutive months during this tenyear period, a requirement for the estimation of shareholder risk.

For the rate of return comparisons the following number of firms were actually used:

	Number
Normalized Electric Utilities	82
Flow-through Electric Utilities	30
Low Barrier-to-Entry Companies	28
Medium Barrier-to-Entry Companies	24
High Barrier-to-Entry Companies	19

D. Ten-Year Time Period

To provide useful, unbiased results, each company's rate of return measures are examined over the ten-year period 1967-1976. This is a long enough period to ensure that one- or two-year aberrations in the data caused by economic factors (i.e., inflation) or company-specific timing differences (i.e., regulatory lag) do not have an undue influence on the rates of return. ⁴³ Conversely, a ten-year period is of short enough duration to allow the study's data and comparisons to reflect permanent economic changes. In addition to the 1973-74 oil embargo, the specific time period studied contains periods of peace and war, inflation and stable prices, expensive and inexpensive energy. This diversity should greatly enhance the generalizability of the study's conclusions.

In order to perform the statistical tests, the ten-year average rates of return for every firm in each of the five classifications (e.g., flow-through utilities, medium barrier-to-entry companies, etc.) are further combined into unweighted means. The "average" rate of return on total assets, then, for any group of regulated or nonregulated firms is:

$$\overline{R1} = \frac{1}{n} \sum_{i=1}^{n} \frac{1}{10} \sum_{i=1}^{10} R_{it};$$

where all variables are defined as before and n = the number of firms in this particular category. Thus, each group of companies has four "overall average" rates of return. Each of these measures is the unweighted mean of the appropriate series of ten-year averages for every firm in the group. Each group's four rates of return are then statistically compared with the corresponding measures of one or more of the four other sets of companies.

E. Testing Hypotheses: Statistical Comparisons of the Rates of Return

Beginning with an examination of profitability measures for normalized and flow-through utilities, the statistical comparisons proceed to test hypotheses concerning rates of return for regulated and nonregulated entities. These hypotheses are directed toward determining whether or not a statistically significant difference exists between one or more of the overall average rates of return for one group of firms and the corresponding measure(s) for another category of companies. As mentioned at the conclusion of Section II,⁴⁴ three assumptions underly this analysis: (1) risk levels for investments in regulated and nonregulated businesses are the same; (2) utilities employ average cost pricing; and (3) rate base inflation does not exist. The effects of relaxing these assumptions are discussed in Section IV.

1. Normalized and Flow-Through Electric Utilities

As mentioned previously,⁴⁵ in some regulatory jurisdictions, (i.e., the "Normalized" States) a utility is allowed to recover through cost-ofservice the entire income tax expense (including the amount deferred due to the use of accelerated depreciation for tax purposes) that would arise by applying the set of statutory rates to its reported pre-tax net income. Conversely, other authorities (e.g., the "Flow-Through" States) determine a utility's rate structure including only those income taxes currently paid. Since these two views on the amount of recoverable costs naturally lead to different allowable revenues,⁴⁶ accounting rates of return within the utility industry could easily be affected by this philosophical split over income tax expense. To determine if tax recovery policy has a significant impact on utility profit levels and, in fact, to determine if all subsequent statistical tests must consider the two views of regulation separately (thereby partitioning the sample of regulated firms into the normalized and the flow-through groups), the following hypotheses were tested:

- H₀: Rates of return within the electric utility industry are the same regardless of the income tax recovery policy used by the regulator; and
- H_A: Rates of return within the electric utility industry differ significantly according to the income tax recovery policy used by the regulator.

These hypotheses can be stated in a more formal, mathematical manner as follows:

$$\begin{array}{ll} H_0: & \overline{U_1} = \overline{U_2}; & \text{and} \\ H_A: & \overline{U_1} \neq U_2; \end{array}$$

where $\overline{U_1}$ = vector of the four overall average rates of return for normalized utilities; and

 $\overline{U_2}$ = vector of the four overall average rates of return for flow-through utilities.

To overcome the problems inherent with repeated pair-wise comparisons of the profitability measures, the above hypotheses advocate a simultaneous test of all the rates of return. Thus, the Hotelling T^2 test⁴⁷ is used. Conceptually, this is a simultaneous comparison of the significance of the Student T test⁴⁸ for each rate of return measure. Rejection of the null hypothesis is interpreted as meaning that the two vectors of profitability measures differ (at the prespecified level of significance). In other words, one or more of the rates of return in one vector differ significantly (in a statistical sense) from the corresponding measure(s) in the other vector.

The complete results of the above test as applied to rates of return for normalized and flow-through utilities are presented in Table 4. The null hypotheses was rejected at the .Ol level of significance. An interpretation of this result is that there is only one chance in one hundred (on the average) that the return measures examined come from the same

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TABLE 4

COMPARISON OF RISK AND RETURN FOR NORMALIZED ELECTRIC UTILITIES AND FLOW-THROUGH ELECTRIC UTILITIES (1967-1976)

Flow-Through Utility

Return Measure

riow incoagn corrier							
COMPANY NAME	1	2	3	ᅻ	5	RISK	
ALLEGHENY POWER SYSTEM	0,093	0,089	0.170	0.164	0,154	0.525	
CENTRAL VERMONT PUB SERV	0.067	0.063	0,093	0,083	0,078	0.766	
COLUMBUS & SONTHERM OHIO	0.085	0.085	0.143	0,225	0.121	0.603	
CONCORD ELECTRIC CO	0.083	0.082	0,140	0.139	0.138	El-FT	
GREEN MOUNTAIN POWER CORP	0,073	0.967	Ü.114	0.096	0.093	1.063	
NEVADA POWER CO	0.085	0.080	0.127	0.129	0.095	0.650	
NORTHEAST UTILITIES	0.076	0.069	0.120	0.108	0.091	0.582	
CHIC EDISON CO	0.033	0.096	0.172	0,206	0.147	0.432	
PENNSYLVANIA POWER & LIGHT	0,035	0.082	0,159	0,199	0.133	Q.441	
PORTLAMD GENERAL ELECTRIC CO	D.DSE	0.086	0.131	9.187	0.110	Q,444	
PUBLIC SERVICE CD OF N H	0.083	0.030	9,146	0,144	0.129	9.584	
PUGET SOUND POWER & LIGHT					0.103		
SOUTHERN CALIF EDISON CO					0.122		
UNITED ILLUMINATING CO					0.138	0.412	
ARIZONA PUBLIC SERVICE CO	0,075	0,075	0,125		0.111	0,491	
CENTRAL HUDSOM GAS & ELEC	0.030	0.077	0,143	0.138	0.125	0.480	
CINCINNATI GAS & ELECTRIC	0,101	0.097	0.193	0.200	0.176	0.284	
CONSOLIDATED EDISON OF N.Y.	0.064	0.061	0.093	0,088	0.080	0.802	
DAYTON POWER & LIGHT	0.092	0,088	0.171	0.178	0.153	0.479	
DELMARVA POWER & LIGHT	0,085	0.079	0.143	0.134	0.118	9.472	
LONG ISLAND LIGHTING		0,034			0,135	0.530	
NEW YORK STATE ELEC & GAS					0.119		
NIAGARA MOHAWK POWER						0.490	
GRANGE & RUCKLAND UTILITIES						0.637.	
PACIFIC GAS & ELECTRIC	0,080	0.078	0,133	0.132	9.118	0,240	
PACIFIC POWER & LIGHT		0.070			0.099		
RUCHESTER GAS & ELECTRIC		0.075			0.114	0.606	
SAM DIEGE GAS & ELECTRIC					9.113		
TUCSON GAS & ELECTRIC		0.087			0.128		
WASHINGTON WATER POWER	0.083				0.142	0.585	
AVERAGE	0.081	0.978	0.137	0,153	0.119	0.524	
'			. .				

Normalized Utility

. .

Return Measure

. **,** ' AMERICAN ELECTRIC POWER ATLANTIC CITY ELECTRIC BANGOR HYDRO-ELEC CO BLACK HILLS POWER & LIGHT SO BOSTOM EDISON CO BRASCAN LTD-CL A CAROLINA POWER & LIGHT CENTRAL & SOUTH WEST CORP. CENTRAL MAINE POWER CO CLEVELAND ELECTRIC ILLUM COMMONWERLTH EDISON COMMUNITY PUBLIC SERVICE RETROIT EDISON CO DUKE POWER CO DUQUESNE LIGHT CO EASTERN NTILITIES ASSOC

í	2	3	-+	5	Risk
0.083	0.076	0.135	0,131	0,099	0.516
0.085	0.081	0,157	0.182	0.133	0.555
0.079	0.078	0.148	0.147	0.143	9,524
0,092	0.094	0.155	0.191	9.153	6.428
0,034	0,075	0.123	0.102	0.093	0.525
0.078	0.973	0.073	0.065	0,065	0.614
0,091	0,026	0.151	0.139	0.112	4.609
0,121	0.122	0.211	9.222.0	0.209	0.388
0.090	0,099	0.160	0.164	0.156	0,310
0,103	0.101	0.183	0,503	0.166	0,384
0.096	0.091	0.168	0.168	0.159	0.307
0,099	0.699	6.177	0.176	0.175	0.435
0,078	0.072	0.118	0,102	0.093	0.714
0,088	0.080	0.148	0.160	0.106	0.612
0,092	0,989	0.169	0,197	0.146	0,504
9,986	N. 885	0.139	0.236	0.122	0.761

Normalized Utility

					•	
NEW ENGLAND ELECTRIC SYSTEM	0.083	0.080	9.159	0,146	0.135	9.533,
GKLAHGMA GAS & ELECTRIC	9.119	0.110	0.216	0,539	0,210	0.342
OTTER TAIL POWER CO	0.093	9,996	4.174	0.614	0,170	9.231
KATOWHN: FFFEILS LONES	0,076	0,931	0,120	0.168	0.130	0.450
PUBLIC SERVICE CO OF IND				0.233		
PUBLIC SERVICE CO OF N MEX	0.103	0.103	0.180	0.201	0.171	9,592
SAYAMMAH ELEC & POWER	0.085	0.082	9.132	ü,144	0.106	0.537
SOUTHERN CO	0.089	0,036	0,146	ÿ,191	0.124	9,594
SAYAMNAH ELEC & POWER SOUTHERN CO SOUTHWESTERN ELEC SERVICE	0,097	0.096	0,203	0.205	0.201	0.371
Shoimmesiekn. Kniele seky fu.	A*1AA	0.103	N. CCS	9,248	0.222	0.3741
TAMPA ELECTRIC CO. A ANTA	0,097	0,094	0.174	9.182	0.161	0.773
TEXAS UTILITIES CO DE STATA	9,129	0.120	0.553	9.261	0.555	0.199
TOLEDO EDISON COMPANY	0.096	0.093	0.199	0.558	9,169	0.413
UNION-ELECTRIC CO SE STERE	9,080	0.077	0.140	0.150	9.155	0.400
UPPER PENINSULA POWER	0.085	0.084	9.147	9.146	0,144	0.440
UTAH POWER & LIGHT	0.081	0.080	0.135	9.145	0.123	0.344
VIRGINIA ELECTRIC & POWER	0.085	0.077	0.135	9.175	0.097	9.617
BALTIMORE GAS & ELECTRIC	0.096	9,994	9.175	0.368	9.157	9.423
CENTRAL ILLINDIS LIGHT	0.095	9.994	9,165	0.201	0,152	9,487
CENTRAL ILL PUBLIC SERVICE	9,191	0,100	0,189	0.203	9.179	9.567
CONSUMERS POWER CO	0.085	9,931	0.137	9.136	0.122	9.711
FITCHBURG GAS & ELEC LIGHT ILLINGIS POWER CO INTERSTATE POWER CO	9,983 0,400	9,932	9.119	9.117	0,110	9.337
ILLIANIS FONEM EN	0.108	8.196	0.205	0.207	9,195	9.497
	0.037	9.987	0.199	0.237	9,185	9,436
IOWA ELECTRIC LIGHT & PWR	N. 1934	9.978	9,149	0,113	U.112.	9.713
IGUA-ILLINGIS GAS & ELEC.	0.100 0.100	6 . 5 . .	0.180	0.167	9,169	9.734
IGWA POWER & LIGHT	0.072	0.092	N. 1	9,191	9.175	9.353
IGWA PUBLIC SERVICE CO	9.499 9.499	N. NYO	8.173	0.178	8,166	0.304
IOWA SOUTHERN UTILITIES CO	9.118	9,118	1.208	9.217	0.505	0.571
KANSAS POWER & LIGHT	0.108	9.197	0.187	0.192	9,182	0.281
LAKE SUPERIOR DIST POWER CO	9,983 0,400	9.955b.	V.153	8.168	9.155	9.315
LOUISVILLE GAS & ELECTRIC MADISON GAS & ELECTRIC CO	9.129	9.12D	9.216	1.244	9.225	0.436
MISSOURI PUBLIC SERVICE CO	0,000	9.965 0.000	9.141	1.29×	0.12/	8,367
MISSBORI FOBELC SERVICE CO MONTANA POWER CO	9.979 0.444	84800 0 4 4 4	9.107	9.111:	U. 155	9.631
NEW ENGLAND GAS & ELECTRIC	0 007	De LIIS	194 1 # 3* 0 4 4 4	0.134	9,175	9.3I1
NORTHERN INDIANA PUBLIC SERV	99906. 0.102	91900 01105	0.000	9,147 0 005	9.133	4.527- 0.007
NORTHERN STATES POWER						
NORTHERN STATES FOWER:						
- PHILADELPHIA ELECTRIC COMPANY	0.005-	NE REEL	0 105	9≠55£. 8=→000	9.134	9.57C
PUBLIC SERVICE CO OF COLO ST	ಶಕ್ಷಾಲ್ಯ. ಗ ಗರಗ	8+891. 0.0774	94100 0 445	0 1 4 4 4 0 1 4 4 4	0.100	V.433-
PUBLIC SERVICE ELEC & GAS						
ST JOSEPH LIGHT & POWER						
SIERRA PACIFIC POWER CO	0.070	83824 0 072.	0.100	97107 01112	Balre n 110	0 2334
SOUTH CAROLINA ELEC & GAS	0,012	040800 0 005	0 145	N#110- 0-120	ショントジ	9°265
SOUTHERN INDIANA GAS & ELEC	0.120	0.112	0.000	0.015	V*167 0. 010	94041 0 445
WISCONSIN ELECTRIC POWER	G. 100	0.044	0.195	0.10=	0.101	8999930 8.128
WISCENSIN POWER & LIGHT	0.109	0.10Q	0.200	0.272	0,201 0,201	01140 0.110
WISCONSIN PUBLIC SERVICE	0,10A	0,105	0.210	0.200	0.200	0 201
MENTANA-DAKETA UTILITIES	0.192	6,090	0.156	0.150	0,150	90071 0.020
AVERAGE STATISTICS TO THE AVERAGE	0.095	0.042	0.147	0.105	요소교험 다. 1독려	0.473
			44 L 12 P	4412J	5 d L	V.712
T ² Statistic All Measures Simulta	nequel	,			25 714	1

T² Statistic All Measures Simultaneously T Statistic Risk Level ✓ Significant at .01 Level

35.714 √ 1.351

population of companies. Thus, at least with respect to the rates of return calculated in this study, the electric utility industry must be viewed as consisting of two distinct types of firms. The statistical comparisons of rates of return for regulated and nonregulated entities must be performed separately for the normalized and the flow-through utilities.

2. Generalized Hypotheses

All other statistical comparisons discussed in this section involve testing the following sets of hypotheses.

One a.

$$H_0: \overline{U_1} = \overline{U_2}; \text{ and} \\ H_A: \overline{U_1} \neq \overline{U_2};$$

where $\overline{U_1}$ = vector of the four overall average rates of return for one set of firms in the electric utility industry (i.e., either normalized or flow-through); and

- $\overline{U_2}$ = vector of the four overall average rates of return for one group of nonregulated companies (i.e., either low, medium or high barrier-to-entry).
- b. Two

 $H_0: \overline{\gamma_1} = \overline{\gamma_2};$ and $H_{\Delta}: \overline{\gamma_1} \neq \overline{\gamma_2};$

where $\overline{\gamma_1}$ = vector of the two overall average rates of return on common shareholders' assets (Measures 3 and 4) for one set of firms in the electric utility industry; and

 $\frac{1}{\gamma}_2$ = vector of the two overall average rates of return on common shareholders' assets (Measures 3 and 4) for one group of nonregulated companies.

Three C.

 $H_0: \rho_1 = \rho_2; and$

 $H_{A}: \rho_{1} \neq \rho_{2};$

- where ρ_1 = overall average rate of return on common shareholders' total assets (Measure 3) for one set of firms in the electric utility industry; and
 - ρ_2 = overall average rate of return on common shareholders' total assets (Measure 3) for one group of nonregulated companies.

To ensure simultaneous comparison of the rates of return, the Hotelling T^2 test is used for the first two sets of hypotheses described above. Because it considers the differences between utilities and non-utilities for only one of the overall average return measures, the third set of hypotheses requires no simultaneous testing. Accordingly, the Student T test suffices in this situation.

3. Comparing Rates of Return for Regulated and Nonregulated Companies

Each of the six regulated/nonregulated comparisons involves a separate set of tests of the three generalized hypotheses. For each test, primary attention is focused on the null hypothesis (i.e., the one designated as H_0). If it is rejected (i.e., if the related T^2 or T statistic is significant), then the two rate of return vectors (or, with the third set of hypotheses, the two rates of return) under analysis are considered to be different. If the null hypothesis is not rejected (i.e., if the related T^2 of T statistic is insignificant), then the two rates of return vectors (or the two rate of return vectors (or the two rates of return vectors (or the two rates of return) are not considered to be different (i.e., in a statistical sense the two rate of return series likely come from the same population of firms).

a. Normalized Utilities and Low Barrier-to-Entry Companies

The detailed numerical results of this comparison are presented in Part A of Table 5. Test of null hypothesis one yields a T^2 statistic which is significant at the .01 level, while the T^2 statistic for the test of null hypothesis two is insignificant. The T statistic for the test of null hypothesis three is almost zero and, of course, is insignificant. Thus, since the results from testing hypotheses two and three demonstrate that rates of return on shareholders' assets for the two groups are not statistically different, the rejection of null hypothesis one implies that the normalized utilities' rates of return on total assets and on total productive assets are significantly less than corresponding measures for the low barrier-to-entry firms.⁴⁹

TABLE 5

Comparison of Risk and Return for Normalized Electric Utilities and Barrier-to-Entry Groups (1967-1976)

Electric Utility

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Return Measure

COMPANY NAME	1	Ē	3	÷	RISK
AMERICAN ELECTRIC POWER	0.033	0,076	0.135	0.131	0.516
ATLAMTIC CITY ELECTRIC	0,085	0.081	0,157	0.182	0,555
BANGER HYDRO-ELEC CO	0,079	0.078	0.148	0.147	0.524
BLACK HILLS POWER & LIGHT CO			0.155		0.428
BOSTON EDISON CO		0.075	0.123		V. 725
BRASCAM LTD-CL A	0.078		0.073		0.614
CAROLINA POWER & LIGHT	0.091		9,151		
CENTRAL & SOUTH WEST CORP	0.121				0.609
			0.211		0.388
CENTRAL MAINE POWER CO		0.090	9,160		0.310
CLEVELAND ELECTRIC ILLUM		0.101	0.183	0,503	0,384
COMMONWEALTH EDISON	0,096		0.168		0.307
COMMUNITY PUBLIC SERVICE		0.099	0.177		0.435
DETROIT EDISON CO		ü.972	9.113	0.102	0.714
DUKE POWER CO	0,088	0.080	0.148	0.160	0.612
DUQUESME LIGHT CO	0,092	0,089	0.169	0.197	0.504
EASTERN UTILITIES ASSOC	0,086	0,085	9.139	0,236	0.761
EDISON SAULT ELECTRIC	0.095	0.094	9,169		8. ti
EL PASO ELECTRIC CO		0.120			0.358
EMPIRE DISTRICT ELECTRIC CO					0,326
FLORIDA POWER & LIGHT		0.106			0.575
FLORIDA POWER CORP		0.096			0.636
GENERAL PUBLIC UTILITIES		0.071	0,112		
GULF STATES UTILITIES CO					0.629
		0.096	0,181		0,484
HAWAIIAM ELECTRIC CO	0,091	0,088			0.477
IDAHO POWER CO		0,086	0.151		9,363
INDIANAPOLIS POWER & LIGHT		0.103	0.207		0.694
KANSAS CITY POWER & LIGHT		0,089	0.159		0.481
KANSAS GAS & ELECTRIC	0,103	0,100	9.199	0.284	0.558
KENTWOKY UTILITIES CO	0.105	0.104	0.169	0.180	0,465
MAINE PUBLIC SERVICE	0.091	0.090	0,158	0.155	0.491
MIDDLE SOUTH UTILITIES	0.092	0,089	0.163	0.195	0.417
MINNESOTA POWER & LIGHT	0,089	0,086	0.174	0.169	0.390
NEW ENGLAND ELECTRIC SYSTEM			0,150		0,533
OKLAHOMA GAS & ELECTRIC	0.110		9.216	•	9.342
OTTER TAIL POWER CO		0,096			0.281
POTOMAC ELECTRIC POWER		0.081	0.120		0,460
PUBLIC SERVICE CO OF IND		0.113			0,423
PUBLIC SERVICE CO OF N MEX					
		0.103			0.592
SAVANNAH ELEC & POWER		0.082			9.537
SOUTHERN CO		0,086			0.504
SOUTHWESTERN ELEC SERVICE	0.097		0.503		9.371
SOUTHWESTERN PUBLIC SERV CO		0.109			
TRMPA ELECTRIC CO		0.094			0.773
TEXAS UTILITIES CO		0.120			0,199
TOLEDO EDISOM COMPANY		0,098		0.558	0.418
UNION ELECTRIC CO	0,080	0.077	0.140	0.150	0.400
UPPER PENINSULA POWER	0.085	0.084	0.147	0.146	0.440
UTAH FOWER & LIGHT	0.031	0.020	0.135	0.145	0,344
VIRGINIA ELECTRIC & POWER	0.085	0.077	0,135	0.175	0.617

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Electric Utility

Return Measure

BALTIMORE GAS & ELECTRIC	9,096	0.094	0,175	0.368	0,420
CENTRAL ILLINDIS LIGHT			0,165	0.201	0.487
CENTRAL ILL PUBLIC SERVICE	0.101	0.100	0.189	0,203	0.567
CONSUMERS POWER CO		0.031	0.137	0.136	0,711
FITCHBURG GAS & ELEC LIGHT	0,083	0,082	0.119	0.117	0.387
ILLINOIS POWER CO		0.106	0,205	0.209	0.497
INTERSTATE POWER CO	0.089	0,089	0.190	0.239	0.436
IDWA ELECTRIC LIGHT & PWR	0,084	0.078		0.118	0.713
IOWA-ILLINDIS GAS & ELEC	0,100	0.094	0.180	0.169	0.734
IOWA POWER & LIGHT	0,092	0.092	0.177	0.191	0,353
IOWA PUBLIC SERVICE CO		0,095	0.175	9.178	0.304
 IDWA SOUTHERN UTILITIES CO	0,118	0.118		0.217	0.571
KANSAS POWER & LIGHT	0,103	9.197	0.187	0.192	9.281
LAKE SUPERIOR DIST POWER CO	0.035	0.086	0.153	9.160	0.315
LOUISVILLE GAS & ELECTRIC	0,120	0.125	0.216	0.244	0.436
MASISON GAS & ELECTRIC CD	0,088	0.086	0.141.	0.207	0.367
MISSOURI PUBLIC SERVICE CO	0.090	0.086	0.187	0.171	0.631
MENTANA POWER CO	0.111	9.111	0.179	9.184	0.311
NEW ENGLAND GAS & ELECTRIC	0.037			0.147	0.529
NORTHERN INDIANA PUBLIC SERV	0.106	0.105	0.203	0.225	0,337
NORTHERN STATES POWER	0.093	0.087	0.182	0,184	0.477
NGRTHWESTERN PUBLIC SERV CO	0.093	0.093	0.169	0.337	0.392 /
PHILADELPHIA ELECTRIC CO	0.085	0,081	0.135	0.180	0.438
PUBLIC SERVICE CO OF COLO		0,077	0.142	0.146	0.365
PUZLIC SERVICE ELEC & GAS	0.079	0.075	0.125	0.136	0.609
ST JOSEPH LIGHT & POWER	0.095	0.094	0,179	0.187	0.599
SIERRA PACIFIC POWER CO		0.076	0.120	0.116	0.502
SOUTH CAROLINA ELEC & GAS		0,085	0.145	0.163	0.841
SOUTHERN INDIAMA GAS & ELEC	0,120	0.117	0.550	0.215	9,445
WISCONSIN ELECTRIC POWER	0.100			0,185	0.140
WISCOMSIM POWER & LIGHT				0.236	0.419
WISCONSIN PUBLIC SERVICE		0.105		,b°535	9,291
MONTANA-DAKOTA UTILITIES				Q.150	,0.282
AVERAGE	0.095	0.093	0,167	9,195	0,473

PART A

COMPARISON WITH LOW BARRIER-TO-ENTRY GROUP (1967-1976)

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Company Name

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Return Measure

		1	2		4	RISK	
	OWENS-ILLINGIS INC	0.103	0.106	0.162	0.171	0.618	
	AMCHOR HOCKING CORP	0.177	0.177	0.244	0.244	0,736	
	GOODYEAR TIRE & RUBBER CD	0.121	6.125	0.192	0.207	0.703	B
	FIRESTONE TIRE & RUBBER CO	0.119	0.119	0.182	0.182	0.734	
	UMITED BAMKS OF COLORADO	0.037	0.037	0.010	0.010	0.572	
	GOODRICH (B.F.) CO						
	INTERCO INC	0.172	0.172	0.273	0.274	0.953	
	BROWN GROUP INC	0.173	0.173	0.240	0.240	0,735	
	BROWN GROUP INC U S SHOE CORP	0.151	0.152	0.251	0.252	0.942	
	GENESCO INC	0.108	0.103	8.174	0.177	1.373	
	CELANESE CORP	0.090	0.094	0.155	0.171	0.561	:
	U S GYPSUM CO	0.110	0.112	0.139	0.142	0,830	
	NATIONAL GYPSUM CO CPC INTL INC	0.101	0.101	0.122	0.122	0.839	
	CPC INTL INC	0.154	0.160	0,235	0.251	0.517	•
	STOKELY-VAN CAMP INC	0.105	0.105	0.135	0.137	0.634	•
	ESMARK INC	0.091	0.093	0.142	0.147	0.473	
	GENERAL MILLS INC PILLSBURY CO AMERICAN CAN CO	0.166	0.168	0.364	0.370	0.603	
	PILLSBURY CO	0.127	0.127	0.231	0.231	0.717	
	AMERICAN CAN CO	0.109	0.110	0.164	0.169	0.313	
	CONTINENTAL GROUP	0.134	0.149	0.195	0.211	0.317	
	ANHEUSER-BUSCH INC				0,291	0.534	
	PABST BREWING CO	0.182	0.138	0.221	0.553	0.562	,
	SCHLITZ (JOSEPH) BREWING	0.202	0.216	0.277	0.312	0.841	
	AMERICAN BAKERIES CO	0.036	0,037	0,045	0,046	0.871	
	BURLINGTON INDUSTRIES INC	0,119	0.121	0.182	0.186	0.889	
	STEVENS (J.P.) & CO	0.083	0.084	0.112	0.114	0.740	
					0,129		
•	DAN RIVER INC	0.054	0.054	0.044	0.044	0.912 -	
	AVERAGE					0.717	·

۲۲	Statistic Normalized Utilities Vs. Low Barrier Group	
	(1) All Measures Simultaneously	136.193 √
	(2) Return Measures 3 & 4	3.767
Т	Statistic Return Measure 3	0.503
Т	Statistic Risk Level	33.523 √
1	Significant at .01 Level	

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PART B

COMPARISON WITH MEDIUM BARRIER-TO-ENTRY GROUP (1967-1976)

Company Name

Return Measure

	*				
10 A 11 A	1	2	3	4	RISK
ALUMINUM CO OF AMERICA			0.121	ñ.12ñ	9,516
REYMOLDS METALS CO					
KAISER ALUMINUM & CHEM CORP				0.127	
NABISCO INC				0.283	
UMITED LEANDS Exyon corr				0.058	
EXXON CORP		0.220			8.276
TEXACO INC				0,193	
MOBIL CORP				0.294	
STANDAPD DIL CO (INDIANA)				0.197	
U S STEEL CORP					
RETHLEHEN STEEL CORP	0.081	0.081	0.109	0.109	0,849
JORGENSEN (EARLE M.) CO					0.589
	9.227				
COLGATE-PALMOLIVE CO	0.169	9.169	0.260	0.260	
INTL HARVESTER CO				0.113	0,538
ALLIS-CHALMERS CORP	0.059	0,059	0.053	0,053	0.893
BEERE & CO	9.135	0.135	0.211	0.211	0.413
	0.098				
PHELPS DODGE CORP	0.134	0.134	0.162	0.162	0.472
IDEAL BASIC INDUSTRIES INC	0.123			0,166	
LOME STAR IMDUSTRIES				0.126	0.678
GENERAL PORTLAND INC		0,095			0,940
	0.151				
COMPO INDS				0.098	0.678
AVERAGE	0.122	9,122	0.171	0.173	0.664

T ² Statistic Normalized Utilities Vs. Medium Barrier Group	
(1) All Return Measures Simultaneously	226.317 √
(2) Return Measures 3 & 4 T Statistic Return Measure 3	4.079 0.126
TStatistic Risk Level	19.919.√
√ Significant at .01 Level	

PART C

COMPARISON WITH HIGH BARRIER-TO-ENTRY GROUP (1967-1976)

Company Name

Return Measure

	1	B	3	4	RISK
GENERAL MOTORS CORP	0,197	0,200		0.286	
FORD MOTOR CO	0.111			0.170	0.576
CHRYSLER CORP	0,064			0,100	1.316
WRIGLEY (WILLIAM) JR CO	0.240	0,000 0,242		0.305	0,475
REYMOLDS (R.J.) INDS	0.253	0.258		0.373	0.468
AMERICAN BRANDS INC	0.158		0.270	0.272	0.516
LIGGETT GROUP	0.129		0.191	0.191	0.618
PHILIP MORRIS INC		0.172		0.359	0.273
MERCK & CO			0.472	0.492	0,264
PFIZER INC	0.169	0.174	0.250	0.264	0.211
SCHERING-PLOUGH	0.320	0.332	0.433	0.456	0.274
ABBOTT LABORATORIES	0.163	0.165	0.242	0.247	0.590
SEAGRAM CO LTD	0.101	0.102	0.134	0.135	0.565
NATIONAL DISTILLERS & CHEMICI	. 0.117	0.119	0.181	0.187	0.654
WALKER(HIRAM) GOODRHM & WOR	r 0.187	0.189	0.240	0.242	0.341
TEXASGULF INC	0.168	0.168	0.225	0.225	0.695
REEPORT MINERALS CO	0.130	0.130	0.147	0.147	0.465
PPG INDUSTRIES INC	0.107	0.112	0.143	0.154	0.701
LIBBEY-OWSMS-FORD CO. ·	0.183	0.187	0.310	0.329	0.816
AVERAGE	0.174	0,178	0.251	0.260	0,549
					na ar sair in th

2		
T	Statistic Normalized Utilities Vs. High Barrier Group	
Т	 (1) All Return Measures Simultaneously (2) Return Measures 3 & 4 Statistic Return Measure 3 Statistic Risk Measure 	157.007 √ 45.042 √ 41.378 √
V	Significant at .01 Level	3.536

b. Normalized Utilities and Medium Barrier-to-Entry Companies

The results of this comparison are reported in Part B of Table 5. The T^2 and T statistics for this set of tests have exactly the same significant/insignificant labels as they had in the previous comparison. Thus, the statistical relationships are identical to the ones existing between rates of return for normalized utilities and the low barrier-to-entry group. Even though the utility profitability measures are significantly lower when the four overall average rates of return are compared simultaneously, the common shareholders of the normalized utilities earn a rate of return on their ownership claims which does not differ from that enjoyed by the common shareholders of the medium barrier-to-entry firms.

c. Normalized Utilities and High Barrier-to-Entry Companies

The results of this comparison are contained in Part C of Table 5. The T^2 statistics for the tests of both null hypothesis one and null hypothesis two are significant at the .01 level. Further, the T test rejected null hypothesis three at the .01 level. Thus, the rates of return for normalized utilities are all significantly less than the corresponding measures for the high barrier-to-entry group. Since this set of nonregulated firms represents the most "monopolistic" companies analyzed in this study, the results of these tests provide evidence that regulation removes the potential for monopoly profits.

d. Flow-Through Utilities and Low Barrier-to-Entry Companies

Part A of Table 6 presents the results for this comparison. The T^2 statistic for the test of null hypothesis one is significant at the .01 level. However, the T^2 for the test of null hypothesis two and the T for the test of null hypothesis three are also significant but <u>only</u> at the .05 level. Depending upon the significance level required to reject the null hypothesis (an issue upon which statisticians differ), two interpretations of these results are possible. First, with strict adherence to the .01 level, the rate of return relationships between flow-through utilities and low barrier companies are exactly the same as those between normalized utilities and the low barrier-to-entry group.

TABLE 6

COMPARISON OF RISK AND RETURN FOR FLOW-THROUGH ELECTRIC UTILITIES AND BARRIER-TO-ENTRY GROUPS (1967-1976)

Company Name

Return Measure

	1	Ē	3	4	FISK
ALLEGHENY POWER SYSTEM	0.093	0.089	0.170	0.164	0.525
CENTRAL VERMONT PUB SERV	0.067	0.063	0,093	0,083	0.766
COLUMBUS & SOUTHERN OHIO	0.085	0,082	0.143	0.225	0,603
CONCORD ELECTRIC CD	0.083	0.082	0,140	0,139	
GREEN MOUNTAIN POWER CORP	0,073	0.067	0.114	0.096	1.063
NEYAJA POWER CO	0,085	0.080	0.127	0.129	0.650
NORTHEAST UTILITIES	0.076	0.069	0.120	0,108	0.582-
CHIC EDISCH CC	0.099	0.096	0.172	0.206	0,4321
PENHSYLVANIA POWER & LIGHT	0.026	0.032	0.159	0.199	0.441
PORTLAND GENERAL ELECTRIC CO	0.086	0,086	0.131	0.187	0.444.
PUBLIC SERVICE CO OF N H	0,083	0.020	0.146	0.144	0.564
PUGET SOUND POWER & LIGHT	0,073	0.072	9.113	0.126	0,4761
SOUTHERN CALIF EDISON CO	0.078	0.077	0.129	0.138	0.385.
UNITED ILLUMINATING CO	0.082	មុនមុនម	0.156	0.394	0.412
ARIZONA PUBLIC SERVICE CO	0.075	0.075	0.125	0.166	0.491
CENTRAL HUDSON GAS & ELEC	0.080	0.077	0.143	0.138	0,480.
CINCINNATI GAS & ELECTRIC	0.101	0.097	0.193	0.200	0.284
COMSOLIDATED EDISON OF N.Y.	9,964	0,061	0.093	0.038	0,305
BAYTON POWER & LIGHT	0.092	0,088	0.171	9.178	0,479.
DELMARVA POWER & LIGHT	0,085	0.079	0.143	0.134	9,472
LOMG ISLAND LIGHTING			0.156		0.530
MEW YORK STATE ELEC & GAS	0.078	0.076		0.140	0.534
NIAGARA MOHAWK POWER	9,968	0.064		0.107	0.490
ORANGE & ROCKLAND UTILITIES	0.076	0,073	0,123	0.119	0,637
PACIFIC GAS & ELECTRIC	0.080	0,078	0.133	0.132	0.249
PACIFIC POWER & LIGHT	0.074	0,070	9.117	0.115	0.487
ROCHESTER GAS & ELECTRIC	0.077	0,075	0.126	0.122	0.605
SAM DIEGO GAS & ELECTRIC	0,079	0,078	0.124	0.127	0,511
TUCSON GAS & ELECTRIC	0.090	0.087	0,152	0.155	0.532
WASHINGTON WATER POWER	0.083	0.081		0.145	0,282
AVERAGE	0.081	0.078	0.137	0.153	0.524
and the second					

PART A

COMPARISON WITH LOW BARRIER-TO-ENTRY GROUP (1967-1976)

Company Name

Return Measure

	1	2	3	4	RISK
DWEMS-ILLINGIS IMC	9,103	9,196	0.162	0.171	0.618
RNCHUR HUCKING CURP	0,177	0,177	0,244	0.244	0.736
GOODYEAR TIRE & RUBBER CO	0,121	0,125	0.192	0.297	0.703
FIRESTOME TIRE & RUBBER CO	0.119	0.119	0.182	9.182	0.734
UNITED BANKS OF COLORADO	0.037	0,037	0.019	0,019	9.572
GEOBRICH (B.F.) CO	0,076	0.077	0,093	0.095	0.793
INTERCO INC	0.172	9,172	0.273	0.274	9.953
PROWN GROUP INC	0,173	0.173	0.240	0,240	0.735
U S SHOE COPP	0.151	0.152	0.251	0.252	9,942
GENESCO INC	9.198	9.198	0.174	8,177	1.373
CELAMESE CORP		9.094		0.171	0.561
U S GYPSUM CO	0.110	0.112	0.139	0.142	0.830
MATIGNAL GYPSUM CO	0,101	0.101	0.122	0,122	0.839
CPC INTL INC	Nº 194			0.251	0.517
STOKELY-YAN CAMP INC	0.105	0.105	0.135	0.137	0.634
ESMARK INC		0.093		0.147	0.473
GEMERAL MILLS INC	9.166	0.168	0,364	0,370	0.693
PILLSBURY CO	0.127	0,127	0.231	0,231	0.717
AMERICAN CAN CO	0.109	0.110	0.164	0.169	9.313
CONTINENTAL GROUP	8,134	0.140	0,195	0.211	0,317
ANHEUSER-BUSCH INC	0.185	0.198	0,282	0.291	0.534
PABST BREWING CO	0.182	0,188	0.221	0.553	0.562
SCHLITZ (JOSEPH) BREWING	0.205	0.216	9.277	0.312	0,8411
AMERICAN BAKERIES CO	0.036	0.037	0.045	0.046	0.871
BURLINGTON INDUSTRIES INC		0.121	0.182	0.186	9,839
STEVENS (J.P.) & CO	0.083	0.034	9,112	0.114	0.740
COME MILLS CORP		0.103			0.744
DAN RIVER INC	0,054	0,054	0.044	0,044	0,912
AVERAGE	0,121	0.124	0.177	0.18+	

۲۲	Statistic Flow-through Utilities Vs. Low Barrier Group	
	(1) All Return Measures Simultaneously	76.241√
	(2) Return Measure 3 & 4	8.125*
Ī	Statistic Return Measure 3	6.152*
T,	Statistic Risk Measure	10.5291
٧	Significant at .01 Level	
*	Significant at .05 Level	

TABLE 6 (CONTINUED)

PART B

COMPARISON WITH MEDIUM BARRIER-TO-ENTRY GROUP (1967-1976)

Company Name

Return Measure

RISK

1.017

1.182 0.760 1.319

0.276

0.553

0.552 0.538 0,893

0.413 8.325

9.472

0,882 0.678

0.940 0,942

0.678

0.664

0.478 0.1040.646 0.800 0.389 9.377

 1
 2
 3
 4

 ALUMINUM CO OF AMERICA
 0.087
 0.090
 0.121
 0.130

 REYNOLDS METALS CO
 0.062
 0.064
 0.021
 0.022
 1 2 3 4 9,516

 KAISER ALUMINUM & CHEM CURM
 0.079
 0.0283
 0.283

 NABISCO INC
 0.076
 0.176
 0.283
 0.283

 0.066
 0.058
 0.058
 0.058

 0.229 0.220 0.331 0.331 EXXON CORP TEXACO INC 0.143 0.143 0.193 0.193MORIL CORP 0.180 0.180 0.294 0.294

 MOBIL CORP
 0.180 0.180 0.294 0.294

 STANDARD DIL CO (INDIAMA)
 0.139 0.139 0.197 0.197

 U S STEEL CORP
 0.073 0.073 0.101 0.101

 SETHLEMEM STEEL CORP
 0.081 0.081 0.109 0.109

 JORGENSEN (EARLE M.) CD
 0.176 0.178 0.263 0.267

 PROCTER & GAMBLE CO
 0.227 0.227 0.311 0.311

 COLGATE-FALMOLIVE CO
 0.169
 0.169
 0.260
 0.260

 INTL HARVESTER CO
 0.084
 0.084
 0.113
 0.113

 ALLIS-CHALMERS CORP
 0.059
 0.059
 0.053
 0.053

 DEERE & CO
 0.135
 0.135
 0.211

 DEERE & CO
 0.135
 0.211
 0.211

 KENNECOTT COPPER CORP
 0.098
 0.098
 0.110
 0.110

 FMELPS DODGE CORP
 0.134
 0.162
 0.162
 0.123 0.128 0.152 0.162 0.093 0.093 0.125 0.166 0.093 0.093 0.125 0.126 0.085 0.085 0.101 0.101 0.151 0.152 0.251 0.252 0.080 0.080 0.098 0.098 0.122 0.122 0.171 0.173

 IDEAL BASIC INDUSTRIES INC
 0.104 0.104 0.101 0.101

 LONE STAR INDUSTRIES
 0.093 0.128 0.126

 GENERAL PORTLAND INC
 0.085 0.085 0.101 0.101

 U S SHOE CORP
 0.151 0.152 0.251 0.252

 GENERAL PORTLAND INC U S SHOE CORP CEMPO IMOS AVERAGE

τ ²	Statistic Flow-through Utilities Vs. Medium Barrier Group	
•	(1) All Return Measures Simultaneously	179.621√
	(2) Return Measures 3 & 4	7.169*
Т	Statistic Return Measure 3	4.452*
T.	Statistic Risk Level	5.766*
V	Significant at .Ol Level	
*	Significant at .05 Level	

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TABLE 6 (CONTINUED)

PART C

COMPARISON WITH HIGH BARRIER-TO-ENTRY GROUP (1967-1976)

Company Name

Return Measure

	1	2	3	4	· · · ·	RISK
GENERAL MOTORS CORP	0.197	0.200	0.279	0.286		0.619
FORD MOTOR CO	0.111	0.113	0.165	0.170		0.576
CHRYSLER CORP	0,064	0,066	0.097	0.100		1.316
WRIGLEY (WILLIAM) JR CO	0,240	0.242	0.298	0.302		0.475
REYNOLDS (R.J.) INDS	0.253	0.258	0.363	0.373		0.468
AMERICAN BRANDS INC	0,158	0.158	0.270	0.272		0,516
LIGGETT GROUP	0.129	0.129	0.191	0.191		9.618
PHILIP MORRIS INC	0.166	0.172	0,330	0.359		0.273
MERCK & CO	0.349	0.358	0.472	0.492		0.264
PFIZER INC	0.169	0,174	0.250	0.264		0.211
SCHERING-PLOUGH	0,320	0.335	0,433	0.456		0.274
ABBOTT LABORATORIES	0.163	0.165	0.242	0.247		0,590
SEAGRAM CO LTD	0.101	0.102	0.134	0.135		0.565
NATIONAL DISTILLERS & CHEMICL	0.117	0.119	0.181	0.187		0.654
WALKER(HIRAM) GOODRHM & WORT	0.187	0.189	0.240	0.242		0.341
TEXASGULF INC	0.168	0.168	0.252	0,225		0.695
FREEPORT MINERALS CO	0.130	0.139	0.147	0.147		0,465
PPG INDUSTRIES INC	0.107	0.112	0.143	0.154		0.701
LIBBEY-OWENS-FORD CO	0,183	0.187	0.310	0.329		0.816
AYERAGE	0.174	0.178	0.251	0.260		0.549

т2	Statistic Flow-through Utilities Vs. High Barrier Group	
	 (1) All Return Measures Simultaneously (2) Return Measures 3 & 4 	94.987√ 38.675√
T	Statistic Return Measure 3 Statistic Risk Level	35.721√
¥	Significant at .01 Level	0.467

The rates of return on common shareholders' assets do not differ significantly. However, a significant difference occurs when all four profitability measures are analyzed at the same time, thereby implying that flow-through rates of return on total assets and on total productive assets are less than the related low barrier-to-entry rates of return.⁵⁰

Alternatively, if .05 is the "proper" significance level, the rates of return for flow-through utilities are significantly lower in each statistical comparison. Flow-through companies' common shareholders are unable to achieve the same rate of return on their ownership claims as that earned by the residual equity holders of low barrier-to-entry firms. Since the comparison of normalized utilities with the low barrier-toentry group does not permit such a statement (at any level of significance), flow-through accounting, with its stricter definition of recoverable income taxes, results in lower rates of return than does normalization.⁵¹

e. Flow-Through Utilities and Medium Barrier-to-Entry Companies

Part B of Table 6 reports the results of this comparison. They are identical to those obtained when flow-through firms are compared with the low barrier-to-entry group. The T^2 statistic from testing null hypothesis one is significant at the .01 level. Null hypotheses two and three are also rejected but only at the .05 level. Thus, the entire discussion of the preceding comparison could be repeated here.

f. Flow-Through Utilities and High Barrier-to-Entry Companies

Part C of Table 6 contains the detailed results of this comparison. The test statistics for all three null hypotheses are significant at the .01 level. In accord with the results of the earlier comparison involving the normalized utilities, the high barrier-to-entry group is able to achieve rates of return which significantly exceed those earned by the flow-through companies.

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F. Summary

All profitability measures analyzed in this study are rates of return on assets. To promote comparability, reported after-tax net income is subjected to a few adjustments in deriving the four rate of return series. Adding back interest charges makes the rates of return on total assets and on total productive assets more congruent with regulatory practice. Adding back reported income taxes incorporates the differences between flow-through and normalized utilities. Removing the allowance for funds used during construction and construction work in progress permits the computation of rates of return on common shareholders' productive assets and on total productive assets, this study's closest approximation to the utility concept of rate of return on rate base. A residual claims/liquidation settlement approach forms the basis for determining rates of return on common shareholders' assets.

Whether or not utilities are able to earn above normal profits is assessed through rate of return comparisons with nonregulated companies. Oligopolistic in nature and leaders in their respective industries, the nonregulated companies are partitioned into three categories according to relative difficulty of entry, a surrogate for profit levels ranging from nearly monopolistic (the high barrier-to-entry group) to almost competitive (the set of low barrier-to-entry firms). The sample of nonregulated businesses is selected so as to coincide as closely as possible with companies analyzed in previous industrial concentration/barrier-toentry research. Electric utilities with financial data available on the Utility COMPUSTAT tape form the sample of regulated firms. Average annual rates of return for the ten-year period 1967-76 constitute the data for the statistical comparisons.

Table 7 summarizes the results from testing a series of hypotheses which point toward four conclusions. First, there is no statistical evidence that utilities achieve the "monopolistic" rates of return of the high barrier-to-entry companies. Regulation removes the opportunity for monopoly profits. Second, utility rates of return on total assets

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TABLE 7

SUMMARY OF TESTS PERFORMED IN SECTION III

Groups Compared

Hypothesis

Y1 VS Y2

 $\sqrt{}$

Ι

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P1 VS P2

Ι

I

Un Vs Up

Normalized Electric Utilities Vs. High Barrier-to-Entry Companies	\checkmark
Normalized Electric Utilities Vs. Medium Barrier-to-Entry Companies	\checkmark
Normalized Electric Utilities Vs. Low Barrier-to-Entry Companies	\checkmark
Flow-Through Electric Utilities Vs. High Barrier-to-Entry Companies	\checkmark

Flow-Through Electric Utilities Vs. Medium Barrier-to-Entry Companies Flow-Through Electric Utilities Vs. Low Barrier-to-Entry Companies

\checkmark	\checkmark	\checkmark
\checkmark	*	*
\cdot	ż	*

 \vee

*

difference significant at .01 level difference significant at .05 level difference is not statistically significant at either .01 or .05 level I

and on total productive assets are significantly lower than corresponding measures for the low barrier-to-entry group. This conclusion implies that regulation permits something close to a competitive rate of return on total productive assets (i.e., "rate base"). Third, at least for the normalized utilities (and, if the .05 significance level is unsatisfactory, for the flow-through utilities as well), rates of return on common shareholders' assets do not differ significantly from corresponding measures for both the low barrier and the medium barrier companies. One explanation for this result has already been offered. Utilities obtain higher than competitive earnings for their owners through financial leverage.⁵² On the other hand, comparable levels of investor risk may explain the similarity between utility and nonutility rates of return on common shareholders' assets. This is examined in the next section. Finally, at the .05 significance level, flow-through utilities have lower rates of return on common stockholders' assets than do the medium barrier and the low barrier firms.

IV. RELAXING THE ASSUMPTIONS

A. Risk and Rates of Return

The preceding rate of return comparisons between regulated and nonregulated businesses are based on the assumption that no difference exists between the levels of risk borne by each group's owners. However, as discussed previously,⁵³ regulation may consider relative risk in the ratemaking process. In accord with the postulated relationship between risk and return, relative risk levels should be commensurate with anticipated profits. Rates of return on common shareholders' assets are the most appropriate profitability measures to contrast with the market-based estimates of investor risk used in this analysis. If regulation does incorporate risk, the lack of a significant difference between rates of return on common shareholders' assets for all utilities (or, with the .05 significance level, just for the normalized utilities) and for two of the three sets of nonregulated companies (i.e., low barrier and medium barrier firms) means that no significant investor risk level differences exist among these groups. If the results of an empirical test indicate that risk levels are indeed different, then the regulatory process either fails to consider risk or does so imperfectly. Further, the owners of the firms with lower investment are able to enjoy above normal profits--earnings which are "excessive" for the degree of risk they bear.

1. Measuring Risk

$$R_{it} = \alpha_0 + \beta_i R_{mt};$$

- where R_{it} = market based rate of return for company i in period t
 (Rate of return here is defined as the sum of period t's
 percentage change in price and dividend yield on the common
 stock of company i);
 - $a_0 =$ the intercept term for the linear representation of the equation, the value of R_{it} when R_{mt} equals zero;

 R_{mt} = rate of return on the market index in period t; and

B; = relative risk measure for company i;

 $= \frac{\text{Covariance } (R_{it}, R_{mt})}{\text{Variance } (R_{mt})} \cdot$

Conceptually, to the investor β , or risk, reflects the variability in the rate of return of company i's stock in relation to the market. A high risk stock historically has higher rates of return than the market during "booms" and larger negative rates of return in "down" markets. Its rate of return fluctuates more widely than the "average" market rate of return. A stock whose return moves in exactly the same direction and in the same amount as the market return has an average β equal to one. High risk stocks are defined as those with β 's above 1.2, and low risk are those whose β 's are less than .8. "Average" risk is the most prevalent because the majority of stocks have β 's between .8 and 1.2.⁵⁴ Listed in a separate column, the estimates of investor risk are presented by firm and for each group of firms in Tables 4, 5, and 6, and in the additional information provided in the Appendices.

2. Comparing Risk Levels

To determine the relationships between levels of investor risk for the five groups of companies analyzed in this study, a fourth set of hypotheses is tested for each of the comparisons performed in the preceding section:

 $H_0: \beta_1 = \beta_2;$ and

 $H_{A}: \beta_{1} \neq \beta_{2};$

where β_1 = average investor risk estimated by the market model attributable to one of the five sets of companies; and

 β_2 = average investor risk estimated by the market model attributable to a second set of companies.

Since the hypotheses involve a comparison of only one datum for each of the two groups of firms, the Student's T test is appropriate. Table 8 summarizes the test results, which, in terms of significant statistics, are completely converse to those obtained when rates of return on common shareholders' assets are similarly analyzed. When compared to the high barrier to entry group, utilities have no significant risk differences. However, their risk levels are significantly lower than those for the other two sets of nonregulated companies. With the flow-through utilities the .05 significance level must again be employed--this time in only one instance--to derive these results.

TABLE 8

STUDENT T STATISTICS FOR RISK COMPARISONS

Groups Compared

Normalized Utilities and Flow-Through Utilities Normalized Utilities and Low Barrier-to-Entry Companies Normalized Utilities and Medium Barrier-to-Entry Companies Flow Through Utilities and Low Barrier-to-Entry Companies Flow Through Utilities and Medium Barrier-to-Entry Companies Flow Through Utilities and Medium Barrier-to-Entry Companies Flow Through Utilities and High Barrier-to-Entry Companies

✓ Significant at the .01 level * Significant at the .05 level

<u>T</u> Statistic

1.351 33.523 √ 19.919 √ 3.536 10.529 √ 5.766 * 0.467

3. Using Risk as an Explanation of the Results of the Rate of Return Comparisons

When the risk level and the rate of return comparisons are considered together, their combined results are consistent with the riskreturn relationship in one case and inconsistent with it in two others. The situations where the conceptual relationship between risk and return is violated offer evidence that the regulatory process does not "appropriately" incorporate risk into rate-setting.

First, the comparisons between utilities and high barrier-to-entry companies provide results for the regulated firms in accord with the risk-return relationship. Even though risk levels do not differ (i.e., the risk associated with investment in utility stock is not significantly different from that existing for equity ownership in the most "monopolistic" firms analyzed in this report), rates of return on common shareholders' assets are significantly lower for the regulated companies than for the high barrier to entry group. Thus, regulation prevents monopoly profits by keeping rates of return more in line with the low levels of risk borne by utility investors.⁵⁵

But the absence of monopoly rates of return does not ensure competitive or normal profits. The comparisons between normalized utilities (or, at the .01 significance level, all utilities) and the medium and low barrier-to-entry firms illustrate a situation which is not consistent with the risk-return relationship. Although investor risk for the utilities is significantly lower, the rates of return on common stockholders' assets are not significantly different. Thus, with regard to risk, regulation does not go far enough. For the level of risk borne by their owners, regulated businesses are able to earn "above normal" rates of return on shareholders' assets.

The second violation of the risk-return relationship arises solely within the utility sector. The two groups of regulated firms are analyzed separately because, per the first set of statistical tests, flow-through rates of return are significantly lower than normalized profitability measures. But this result cannot be justified on risk grounds since there is no significant difference in investor risk between the two sets of utility companies.

B. MARGINAL COST PRICING

None of the statistical evidence supports the existence of a marginal cost pricing policy in the regulated sector. With costs increasing throughout this study's ten-year period, pricing based on marginal cost would likely result in relatively high utility profit levels. The high rates of return on total assets and especially on total productive assets associated with such earnings are not reflected in the data. Regulation places its primary emphasis on preventing monopoly profits through average cost pricing. Besides adding new dimensions to the regulatory process, the advent of marginal cost pricing would probably cause substantial changes in the pre-tax rate of return relationships between regulated and nonregulated firms.

C. Rate Base Inflation

As mentioned earlier,⁵⁶ rate base inflation is unobservable with the rates of return computed in this study. If it exists due to regulator unwillingness to permit an increase in the utility's allowable rate of return, profitability measures for shareholders' productive assets are either overstated (if the rate base increase is financed through additional borrowing) or understated (if no increase in borrowing occurs, as when a cost-of-service expenditure is capitalized). If it is truly a substitute for successfully securing a higher allowable rate of return, rate base inflation understates profitability measures on total productive assets. To assess rate base inflation, research must focus directly on the rate base, not on rates of return.

Reliance must be placed on the regulatory authority for the prevention of rate base inflation. However, the political nature of the rate-making process raises questions concerning the wisdom of such reliance. The fact that a utility can augment its total profits by increasing either its allowable rate of return or its rate base is obvious but by no means trivial. The self-interest of <u>both</u> the utility <u>and</u> its regulator may best be served by higher aggregate earnings through rate base increases. Neither side in the regulatory process has much motivation for attempting to raise the utility's allowable rate of return. Increasing the base is much easier, less observable and consequently less susceptible to public criticism. Of course, even if tacitly approved by the regulator, rate base inflation creates distortions in utility rate of return data, thereby weakening the validity of this report's statistical comparisons.

D. Summary

Although investor risk may be a factor in the determination of a utility's allowable rate of return, regulation does not force profitability measures on common shareholders' assets to be commensurate with the low risk levels borne by the utility's owners. Monopoly profits are prevented but above normal profits (i.e., rates of return equivalent to those attainable in the nonregulated sector only by accepting a higher degree of risk) do exist. Large amounts of financial leverage (made possible at least in part by the absence of substantial amounts of risk) permit utilities to achieve such profit levels for their stockholders.

The rate of return data in this study offer no discernable evidence that utilities practice marginal cost pricing.

Research is needed to identify and measure rate base inflation. The effects of this tactic to increase total profits, if it does exist, are impounded in the utility rate of return data. Thus, regardless of whether or not it receives regulator approval, a substantial amount of rate base inflation would likely alter some of this study's conclusions.

V. RATES OF RETURN BY REGULATORY JURISDICTION

A. Comparisons Solely Within the Regulated Sector

Using the utility profitability measures already discussed as well as those for another group of regulated companies (the airline industry), this section attempts to discern the impact of differing regulatory practices on rates of return. One such comparison (i.e., "Normalized" states and "Flow-Through" states) has already been performed. A further breakdown of utilities into a state-by-state grouping is also presented. Even though state sovereignty prevails, these types of analyses may be useful to federal officials seeking some degree of national uniformity in the regulatory process. In addition, a state commission is able to determine "where it stands" in relation to its counterparts throughout the country. Finally, the utilities are compared with a sample of firms from the airline industry. Here the analysis crosses not only jurisdictional boundaries but also levels of government and market structures (since the federally regulated airlines operate in a much more competitive environment than the public utilities). In all cases, rates of return are determined in exactly the same manner as described in Section III.

1. "Normalized" States and "Flow-Through" States

The numerical results of this comparison are found elsewhere in this report.⁵⁷ Although risk levels are not significantly different, rates of return for normalized companies are higher than those for flow-through utilities. Thus, regulation in flow-through states generally is "stricter" than that existing in normalized jurisdictions.

2. State-by-State

Appendix 5 arrays the sample of electric utilities on a state-bystate basis. Companies subject to regulation in more than one state are listed at the end of the appendix. In many cases a state is represented by only one utility. Thus, the data are provided strictly for information purposes. An expanded sample of regulated businesses is needed to perform any statistical comparisons by state.

3. Electric Utilities and Airlines

Tables 9 and 10 present the comparisons between airlines and normalized utilities and flow-through utilities respectively. The results of the two sets of statistical tests are similar. The utilities have significantly lower risk levels and significantly higher (at the .01 level) rates of return.

At least two explanations exist for the relatively low profitability measures and the high amounts of investor risk existing in the airline industry. First, the federal government may be a much more stringent regulator than the state commissions. Second, intense competition, rather than federal regulation, may cause the airlines' financial results. Regardless of which explanation is "correct," the statistical comparisons offer additional evidence for two of the previous conclusions. Utilities are able to achieve profit levels which are both higher than those in more competitive industries and "excessive" for the level of risk borne by their owners.

B. <u>Summary</u>

The comparisons discussed in this section illustrate three ways in which the rate of return data for regulated businesses can be analyzed. As demonstrated previously, utilities fare better in normalized states than in flow-through jurisdictions. Electric companies also compare very favorably with airlines, thereby offering further support for the conclusion that utility regulation by the state commissions does not result in perfectly competitive profit levels. Additional statistical comparisons of utility rates of return by state are not performed in this study because of data limitations. Instead, a state-by-state grouping of profitability measures is presented for information purposes.

TABLE 9

COMPARISON OF RISK AND RETURNS FOR NORMALIZED ELECTRIC UTILITIES AND AIRLINES (1967-1976)

Electric Utility

Return Measure

		1	3	3	÷		RISK
	AMERICAN ELECTRIC POWER			0.135	0.131		0.516
	ATLANTIC CITY ELECTRIC						
	BANGOR HYDRO-ELEC CO	0.079	0.078	0.149	0.147		0.524
	BLACK HILLS POWER & LIGHT CO	0.092	0.094	0.155	0.191		0.428
	ROSTOM EDISON CO	0,084	0,075	0.123	9.102		0.525
	BOSTON EDISON CO BRASCAN LTD-CL A	0.078	0.073	A. A73	0.065		0.614
	CAROLINA POWER & LIGHT	0.091	0.086	0.151	0.199		0.609
	CENTRAL & SOUTH WEST CORP	й. 1 <i>2</i> 1	0.122	0.211	0.202		0.388
	CENTRAL MAINE POWER CO	0.090	0.090	0.140	0124 0124	•	0.310 0.310
	CLEVELAND ELECTRIC ILLUM						0.004
	COMMONWEALTH EDISON	0.094	0.091	0.120	01000		0.307
	COMMUNITY PUBLIC SERVICE	0.000	0.000	0 177	NA100 N 172		0.435
	ACTORIT ENTERN OR	0.070	0 070	04177	0 100		0,714
	NUVE DELLED CE	0.000	0 000 0	0,110	0 100		0.714
	BETROIT EDISON CO DUKE POWER CO DUQUESNE LIGHT CO	0 000	848998 0.000	04140	0.100		0.612
	DOWDESHE LIGHT SU EGSTEDN HTTH ITTES GSSHC	0.092	9.907 0.005	0.107	04177 0 000		0.504
		0.086					
	EDISON SAULT ELECTRIC	9,970 0,070	0.074	9,159	9.168		8.8 -
	EL PASO ELECTRIC CO	9.121	9.129 A AAA	0.220	0.232		0.358
	EMPIRE DISTRICT ELECTRIC CD	0.102	0.044	0.180	0.174		0.326
		0,106	0.195	0.175	0.236		0.575
	FLORIDA POWER & LIGHT FLORIDA POWER CORP GENERAL PUBLIC UTILITIES	0.099	0.096	0,170	0,212		0.636
	GENERAL PUBLIC UTILITIES	9.976	9.071	0.112	0.123		0.629
	GULF STATES UTILITIES CO	0.099	0.096	0.181	0.503		0.484
	HAWAIIAN ELECTRIC CO IDAHO POWER CO	0,091	0.088	0.146	9.143		0.477
	IDAHO POWER CO INDIANAPOLIS POWER & LIGHT KANSAS CITY POWER & LIGHT KANSAS GAS & ELECTRIC KENTUCKY UTILITIES CO MAINE PUBLIC SERVICE MIDDLE SOUTH ATLETTES	0,088	0,086	0.151	0.153		0.363
	INDIANAPOLIS POWER & LIGHT	0.105	0.103	0.502	0.267		0.694
	KANSAS CITY POWER & LIGHT	0.090	0,089	0.159	0.167		0.431
	KAMSAS GAS & ELECTRIC	0.193	0.100	0.190	0.284		0,558
-	KENTUCKY UTILITIES CO	0.105	0.104	0.169	0.180		0.465
	MAINE PUBLIC SERVICE	0.091	0.090	0.158	0.155		0.491
	MIDDLE SOUTH UTILITIES	0.092	0.089	9.163	0.195		0.417
	MAINE PUBLIC SERVICE MIDDLE SOUTH UTILITIES MINNESOTA POWER & LIGHT	0,089	9.036	0.174	0.169		0.390
	NEW ENDEMPH ELECTRIC STSTEP	9.903	8.8289	0.100	0.146		0.533
	OKLAHOMA GAS & ELECTRIC OTTER TAIL POWER CO	0.110 0.093	0.110	0.216	0.239		0.342
	OTTER TAIL POWER CO	0.093	0,096	0.174	0.614		
	OTTER TAIL POWER CO POTOMAC ELECTRIC POWER PUBLIC SERVICE CO OF IND	0.076	9,081	0.120	9,168		0,460
	PUBLIC SERVICE CO OF IND	0.112	0.113	0.203	0.233		0.423
	PUBLIC SERVICE CO OF N MEX	0,103	0.103	0.180	0.201		0.592
	SAYANMAH ELEC & POWER		0.082				0.537
	SOUTHERN CO						
	SOUTHWESTERN ELEC SERVICE	0.097	9.096	0.203	8.202		0.371
	SOUTHWESTERN PUBLIC SERV CO						0.374
	TAMPA ELECTRIC CO		0,094				8.773
	TEXAS UTILITIES CO		0.120				0,199
	TOLEDO EDISON COMPANY						
		9,030					0,418 0 400
	UPPER PENINSULA POWER	0.000 N NOS	ショジイイ ローロニオ	0+140 A 147	ಶಾಕವಟ್ಟ ಬೇ ಕನ್ನ		0.400
	UTAH PUNER & LIGHT						9,440
	VIRGINIA ELECTRIC & POWER	0.005	01000 0.077	0+100 0.105	0.140 0.175		0.344 0.317
	FIGUIDIA CECUIRIE O FEMER	한국 학교적	579 57 5 5	ಳಾ ಕನ್ನ	छत्र दे र दी		0.617

TABLE 9 (CONTINUED)

Electric Utility

Return Measure

BALTIMORE GAS & ELECTRIC 0.096 0.094 0.175 0.368 0,420 CENTRAL ILLINOIS LIGHT 0.095 0.094 0.165 0.201 9,487 CENTRAL ILL PUBLIC SERVICE 0,101 0,100 0,189 0,203 0.567 0.085 0.081 0.137 0.136 COMSUMERS POWER CO 9.711 FITCHBURG GAS & ELEC LIGHT 0.083 0.082 0.119 0.117 0.387 ILLINGIS POWER CO INTERSTATE POWER CO 0.108 0.105 0.205 0.209 0.497 0.039 0.039 0.190 0.239 0,436 IOWA ELECTRIC LIGHT & PWR 0.084 0.078 0.140 0.118 0.713 IOWA-ILLIMOIS GAS & ELEC 0.100 0.094 0.180 0.169 0.734 IOWA POWER & LIGHT 0.092 0.092 0.177 0.191 0.353 IOWA PUBLIC SERVICE CO 0.098 0.095 0.175 0.178 0.304 0.118 0.118 0.206 0.217 IOWA SOUTHERN UTILITIES CO 0.571 KANSAS POWER & LIGHT 0.108 0.107 0.187 0.192 0.281 LAKE SUPERIOR DIST POWER CO 0.085 0.086 0.153 0.160 0.315 LOUISVILLE GAS & ELECTRIC 0,120 0,125 0,216 0,244 0.436 MADISON GAS & ELECTRIC CO 0.088 0.086 0.141 0.207 9.367 MISSOURI PUBLIC SERVICE CO 0.090 0.086 0.187 0.171 0.631 MONTANA POWER CO 0.111 0.111 0.179 0.184 0.311 NEW ENGLAND GAS & ELECTRIC 0.087 0.085 0.146 0.147 0.529 NORTHERN INDIANA RUBLIC SERV 0.106 0.105 0.203 0.225. 0.337 NURTHERN STATES FOWER 0.093 0.087 0.182 0.184 0.477 MORTHWESTERN RUSLIC SERV CO 0.093 0.093 0.169 0.337 11, 292 PHILADELAMIA ELECTRIC CO 0.085 0.081 0.135 0.180 0,438 FUBLIC SERVICE CD OF COLD 0.080 0.077 0.142 0.146 0.265 PUBLIC SERVICE ELEC & GAS 9.079 0.975 0.125 0.136 0,609 ST JOSEPH LIGHT & POWER 0.095 0.094 0.179 0.187 0,599 SIERRA PACIFIC POWER CO 0.079 0.076 0.120 0.116 9.502 SDUTH CAROLINA ELEC & GAS 0.088 0.085 0.145 0.163 8.841 SOUTHERN INDIANA GAS & ELEC 0.120 0.117 0.220 0.215 0,443 WISCONSIN ELECTRIC POWER 0.100 0.099 0.185 0.185 0.140 WISCONSIN POWER & LIGHT 0.108 0.108 0.209 0.236 0.419 WISCOMSIN PUBLIC SERVICE MONTANA-DAKOTA UTILITIES 9.106 9.105 9.210 9.232 0.291 0.092 0.090 0.156 0.150 0.565 AVERAGE 0.095 0.093 0.167 0.195 10.473

TABLE 9 (CONTINUED)

z9ni[7iA

, Эйнязун

Return Measure

164 4	0 00 10 00 00 00 00 00 00 00		
1.428	0.071 0.124 0.124	120'0	ONI SAEMBIE CISEM
21916	S01'0 101'0 220'0	920'0	HIEN HIE BEBSKH
1'538	260'0 060'0 220'0	120'0	MESTERN AIR LINES INC
076°0	828'8 828'8 528'8	⊅ <u>⊆0'0</u>	ONI THA
265°I	208'0 800'0 380'0	820 70	ISBME MORED BIRLINES
090 ° I	851'0 ISI'0 160'0	160'0	TIGER INTERNATIONAL
69†°I	650'0 650'0 250'0	250 '0	SEABOARD WORLD AIRLINES
12211	160'0 160'0 290'0	890 '0	PIEDMONT RATERIAN INC
205'1	920'0-890'0-210'0	210 0	зхемяте аляды мертяеме мез 🦷
1°364	020'0 020'0 790'0	\$90 °0	SAN INC
S86°0	190'0 190'0 290'0	9 ° 0 95	DISBR WIG FINES INC
838.0	610.0 610.0 550.0	01035	SYAWAIA JAMUITAN SASSASVO
SILTI	881'0 181'0 001'0	001'0	ANDRIMMEST AIRLINES INC
1'510	801'0 011'0 +80'0	t80'0	👘 ЭМІ СЕМІКӨГ ӨІКГІМЕЗ НІХОМ 🍾
SIÞ"I	0.093 0.130 0.138	260'0	ONI SENITAIE TENELLEN
266°0	01038 01055 01055	820'0	КГМ КОАЯГ ВЛІСН НІКГІИЕЗ
929'0	0.062 0.062 0.063	190'0	ONI SENITEIH MEIIHMEM
289 " I	0'038 0'00¢ 0'003	620 "6	EASTERN AIR LINES
922*8	0.148 0.211 0.214	241.0	DEFLE BIS FINES INC
IIS"I	0'087 0'084 0'084	898 *8	COMIINENIUM BIE FINES INC
66S'I	260'0 260'0 220'0	220 '0	SYAWAIA JIMI JOTISRO
922*1	0'080 0'130 0'135	080'0	DEBMILE INTL CORP.
961°1	020 0 020 0 020 0 020	01035	ONI SBNITHIH NHOIHPWH
495'I	0'044-0'021-0'021	tt0 "0	BUL SENIJAIR ANAHOSTIN
BISK	534	L	• • •

990'0 990'0 **9**90'0 990'0

5 Statistic Return Measure 3	T
(2)Return Measures 3 & 4	
(1) All Return Measures Simultaneously (2) Return Measures 3 & 4	
senilita .ev seitilitu bezilemnov sitsitet?	-T
	6

A	788.0ðr
Å	27.567
	31.188
	143.457

78T'I

	Fevel TO. edt te tnesitingiz	A
L	Statistic Risk Level	Ĺ
	Statistic Return Measure 3	T
	(2) Return Measures 3 & 4	
L	γlzuo∋nstlumīč z∋ruza∋M nrutaЯ IIA (I)	
	Sand A Sa	

09-III

TABLE 10

COMPARISON OF RISK AND RETURN FOR FLOW-THROUGH ELECTRIC UTILITIES AND AIRLINES

2

Electric Utility

Return Measure

3

4

EISK

0.525

0.766 0,693

.<u>A. A</u>

1.663

0.650

0.582

0.432

0.441

0.444

0.564 0.476 9*335 0.412 0.4910.480 9.284

0.802

9.479 0,472 0.530 0.534 0,490

0.637

0.240 0.487 0,606 0.511 0.532 0,232

0.507

1 ALLEGHENY ROWER SYSTEM 0.093 0.089 0.178 0.164 CENTRAL VERMONT PUB SERV 0.067 0.063 0.093 0.083
 CENTRAL VERMONT PUB SERV
 0.067
 0.063
 0.093
 0.083

 COLUMBUS & SOUTHERN SHID
 0.085
 0.082
 0.143
 0.225
 CONCORD ELECTRIC CO 9,983 9,982 9,149 0,139 0.073 0.067 0.114 0.096 GPEEN MOUNTAIN POWER CORP. NEVADA POWER CO 0.085 0.080 0.127 0.129 NORTHENST UTILITIES 0.076 0.069 0.120 0.108 GHIG EDISON CO 0.099 0.096 0.172 0.206 PENNSYLVANIA POWER & LIGHT 0.086 0.082 0.159 0.199 FORTLAND GENERAL ELECTRIC CO 0.086 0.086 0.131 0.187

 FURTLEMAD GENERAL ELECTRIC CD 0.066 0.066 0.131 0.137

 FUBLIC SERVICE CD 0F N H
 0.083 0.080 0.146 0.144

 FUGET SOUND POWER & LIGHT
 0.073 0.072 0.113 0.126

 SOUTHERN CALIF EDISON CD
 0.078 0.077 0.129 0.138

 UMITED ILLUMINATING CO
 0.082 0.080 0.156 0.394

 ARIZONA PUBLIC SERVICE CO
 0.075 0.075 0.125 0.166

 CENTRAL HUDSON GAS & ELECTRIC
 0.080 0.077 0.143 0.138

 CINCINNATI GAS & ELECTRIC
 0.101 0.097 0.193 0.200

 COMSOLIDATED EDISON OF N.Y. 0.064 0.061 0.093 0.088

 DAVION POWER & LIGHT
 0.092
 0.083
 0.171
 0.178

 DELMARYA POWER & LIGHT
 0.085
 0.079
 0.143
 0.134

 LONG ISLAND LIGHTING
 0.085
 0.084
 0.156
 0.187

 NEW YORK STATE ELEC & GAS
 0.078
 0.076
 0.131
 0.140

 NIAGARA MOHAWK POWER
 0.068
 0.064
 0.109
 0.107

 URANGE & ROCKLAND UTILITIES 0.076 0.073 0.128 0.119

 DRMMGE & RUCKLMMD UTILITIES
 0.076
 0.073
 0.128
 0.119

 PACIFIC GAS & ELECTRIC
 0.080
 0.078
 0.133
 0.132

 PACIFIC GAS & ELECTRIC
 0.074
 0.070
 0.117
 0.115

 PACIFIC POWER & LIGHT
 0.074
 0.075
 0.126
 0.122

 RUCMESTER GAS & ELECTRIC
 0.077
 0.075
 0.126
 0.122

 SAN DIEGO GAS & ELECTRIC
 0.079
 0.078
 0.124
 0.127

 TUCSON GAS & FLECTRIC
 0.090
 0.087
 0.152
 0.155

 MASHIMGTON WATER POWER
 0.083
 0.081
 0.147
 0.145

 AVERAGE
 0.081
 0.027
 0.137
 0.152

 AVERAGE 0.081 0.078 0.137 0.153

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TABLE 10 (CONTINUED)

Airlines

Return Measure

1		·			
بین در سه مید سه در می وجود و برد و مورو و معروف می و . 	1	Ľ.	2	4	RISK
ALLEGHENY AIRLINES INC	ព,ព44	0,044-0	.051-	-0.051	1.564
AMERICAN AIRLINES INC		0.032 0	.030	0.030	1,196
BRAMIFF INTL CORP CAPITOL INTL AIRWAYS	0.080	0,080 0	.130	0.132	1.276
CAPITOL INTE AIRWAYS	0.072	0.072 0			
CONTINENTAL AIR LINES INC	0.060			0.064	1.511
DELTA AIR LINES INC	0.147	0,148 0			0.726
EASTERN AIR LINES	0.039			0.003	1.587
HAWAIIAN AIRLINES INC	0.061			0,063	
KLM ROYAL DUTCH AIRLINES	0.038			0.022	
MATIONAL AIRLINES INC	0.092			0.133	1.415
NORTH CENTRAL AIRLINES INC		0,084 0			1,219
NORTHWEST AIRLINES INC				0.133	1,113
OVERSEAS NATIONAL AIRWAYS				0.019	6.358
GZARK AIR LINES INC				0.061	
PIA INC		0.064 0			
PAM AMERICAN WORLD AIRWAYS					1.394
		0.017-0	a 6557 ≏	·U4 976	
	0,053	0.063 0			
SEARGARD WORLD AIRLINES	0.057			0.059	
	0,091			0.153	1.050
TRAMS WORLD AIRLINES				0.007	1.597
UAL INC			.072	0.072	0,940
WESTERN AIR LINES INC	0.071	0.072 0	.090	0.092	1.233
WIEN AIR ALASKA	0.076	0.077 0	.101	0.105	0.617
MERLE AIRWAYS INC	0.071	0.071 0	.124	0.124	
AVERAGE		0.065 0	.066	9.066	
			-	`	

T² Statistic Flow-through Utilities Vs. Airlines (1) All Return Measures Simultaneously (2) Return Measures 3 & 4 T Statistic Return Measure 3 T Statistic Risk Level ✓ Significant at .01 Level
107.878√ 29.956√ 29.956√ 28.847√ 58.328√

FOOTNOTES

- Additional complications exist for those public utilities which capitalize interest on funds used during construction. See Section III, Part A, for a complete discussion.
- 2. In an opportunity cost context, "normal profit" is the amount foregone by not pursuing the best available alternate course of action.
- Much of this discussion can be drawn from any microeconomic treatment of regulation. See, for example, Jack Hirshleifer, <u>Price Theory and</u> <u>Applications</u> (Englewood Cliffs, N.J.: Prentice-Hall, 1976), pp. 288-290.
- 4. The estimation of demand plays a critical role in the rate-setting process. If it is underestimated, the utility will recover its original projected amounts for cost-of-service and allowable profit. But, in an increasing cost situation, the excess revenues generated by the difference between actual and expected demand will fall short of the rise in costs, thereby necessitating a rate increase to achieve normal profit.

If demand is overestimated, the utility will not recover the total of its cost of service and allowable profit. To the extent that they are variable, some costs will be lower than projected (due to smaller output). But in all likelihood, since many of its costs are fixed, the utility will be forced to seek a rate increase to arrive at normal profit. Hence, a regulatory anomaly is that overly effective energy conservation causing lower demand than anticipated pushes rates up even more.

- 5. See the following discussion of the risk-return relationship.
- 6. Thus, some evidence may be found that at least for this attribute, a regulated public utility is able to retain a characteristic of an unregulated monopolist. See footnote 10.
- 7. For the 113 electric utilities analyzed in this report, the average (unweighted mean) ratio of total long-term debt to total equity is .43. The same statistic for the 73 unregulated firms is .19.
- 8. See Irwin Friend and James L. Bicksler (eds.), <u>Risk and Return in</u> Finance, Volumes I and II (Cambridge, Mass.: Ballinger Publishing Company, 1977).
- 9. Of course, utility investments would not be very "risky" even in the absence of regulation. See footnote 10.
- 10. One exception to the risk-return relationship occurs for an unregulated monopoly (or for the firms in an oligopolistic industry with substantial entry barriers). Although the risk level is very low, profits may still be high. The lack of competition in the product market provides the investor with the opportunity to enjoy a high rate of return while bearing only a minimal amount of risk. Regulation's function in this context can be viewed as reducing the rate of return so as to make it "appropriate" for the level of risk assumed.

- 11. Because a single price or rate usually prevails in a market, a consumer is able to reap a "surplus" on all those units purchased whose incremental value exceeds price. The last unit bought will have its marginal value equal to price.
- 12. When the demand curve intersects the average total cost curve at its low point.
- 13. Hirshleifer, <u>op. cit</u>. The analysis points in a different direction if the utility is confronted with continually decreasing average total cost as output expands.
- 14. The principal policy trade-off between these two alternatives is apparent. Optimal resource allocation with marginal cost pricing enables a utility to enjoy an "above normal profit." In Figure 1 this amounts to the area of R_1R_3CD . In accord with President Carter's proposal which accompanies the deregulation of oil prices, an excess profits tax could be applied to a public utility practicing marginal cost pricing.
- 15. Only in the perfectly competitive model do marginal cost pricing and average cost pricing have identical results.
- 16. Of course, if utility rates of return (especially on total assets and on total productive assets) are substantially below corresponding measures in each of the industrial groups, strong (but not conclusive) evidence would exist that utilities employ average cost pricing.
- 17. The concept of marginal cost pricing may be difficult to operationalize in a rate-making setting. A substitute such as "replacement cost pricing" may be easier to implement in a practical situation.
- H. Averch, and L.L. Johnson, "Behavior of the Firm Under Regulatory Constraint, "The American Economic Review, Vol. 52, No. 5 (December 1962), pp. 1053-1069.
- 19. See, for example, W.J. Baumol and A.K. Klevorick, "Input Choices and Rate of Return Regulation: An Overview of the Discussion," <u>The Bell Journal of Economics and Management Science</u>, Vol. 1, No.2 (Autumn 1970), pp. 162-190; Courville, L., "Regulation and Efficiency in the Electric Utility Industry," <u>The Bell Journal of Economics and Management Science</u>, Vol. 5, No. 1 (Spring 1974), pp. 53-74; and Spann, R.M., "Rate of Return Regulation and Efficiency in Production: An Empirical Test of the Averch-Johnson Thesis," <u>The Bell Journal of Economics and Management Science</u>, Vol. 5, No. 1 (Spring 1974), pp. 38-52.

- 20. Besides including resources that the utility will never really need, "unnecessary" is also given a time dimension here. A temporary, more subtle form of rate base inflation occurs whenever a utility acquires assets which, although needed at some future date, end up included in the rate base prior to that time. Obviously, some value judgments are required to resolve this issue in the regulatory setting. The competitive nature of their environment (and the fact that, unlike utilities, they are not able to earn a return on "unnecessary" assets) virtually precludes this type of behavior for most nonregulated firms.
- 21. See the previous discussion of the effects of financial leverage, pages 9-10.
- 22. See the example in the next section.
- 23 Utility B may still be concerned about the advisability of this strategy because of lower dividend distributions in Years 1, 2, and 3 (i.e., during the period when most of the rate base inflation occurs). To overcome this, an obvious tactic would be short-term borrowing to pay dividends. Although the interest on such debt would slightly reduce the total return to shareholders for a few years, the need to borrow for dividend payments would likely evoke public sympathy for the utility's financial plight and constitute further evidence that its profits are not excessive.
- 24. The problem, of course, is the inability to distinguish Situation 3 from Situation 1 and Situation 4 from Situation 2. Although its effects are impounded in the reported financial data, rate base inflation is essentially unobservable in this study's profitability measures.
- 25. See footnote 7.
- 26. In this case the "inefficiency" which inflates the rate base is strictly an accounting phenomenon.
- 27. See page 5.
- 28. For an in-depth treatment of normalization and flow-through, see D.W. Kiefer, "Accelerated Depreciation and the Investment Tax Credit in the Public Utility Industry: A Background Analysis," (Columbus, Ohio: National Regulatory Research Institute, 1979).
- 29. Accounting Principles Board, "Accounting for Income Taxes," Opinion Number 11 (New York: American Institute of Certified Public Accountants, Inc., 1967).
- 30. A provision in the Revenue Act of 1971 stipulates that no taxpayer is required to use any particular method of accounting for the investment tax credit in reports subject to the jurisdiction of any federal agency. Rules regarding the accounting for the credit by public utilities contain additional complications. See Kiefer, op. cit.

- 31. Here the transformation of F into a normalized utility stops with the adjustment to income tax expense. However, if F were truly subject to normalization, the dynamics of the rate-setting process would likely continue. With taxes at \$10.5 the results indicate that regulation did not permit F to earn its allowable return on rate base. Accordingly, F would seek some sort of "emergency" rate increase. A \$15 increase in revenue would, after the application of the 50% tax, bring F's reported operating income back up to \$30, thus allowing F to achieve reported results identical to N.
- 32. The data in the example can illustrate a potential incongruous result from flow-through accounting. Since Company F cannot "keep" any of the tax savings, it has little motivation for using accelerated depreciation on its tax return. Thus, it switches to the straight-line method, thereby increasing current tax expense and revenue requirements by \$15. F's income statement is now exactly the same as N's. Both companies have the same rate of return measures. N still has the advantage of deferring \$7.5 of its income taxes while F must pay the full \$18 currently. The switch to straight-line depreciation for tax purposes simply makes F's customers pay \$15 more to the utility which it then remits to the Internal Revenue Service. Utility F's action would undoubtedly be censured by its Regulatory Authority.
- 33. See pages 5-6.
- 34. For an in-depth treatment of this issue, see Lawrence S. Pomerantz and James E. Suelflow, <u>Allowance for Funds Used During Construction</u> (East Lansing, Michigan: Michigan State University Institute of Public Utilities, 1975).
- 35. This treatment of AFUDC has two favorable results. First, once the CWIP is placed in operation, capitalized AFUDC is recoverable as depreciation over the asset's useful life. Although not increasing profits, this augments cash flow and permits, contrary to the typical rate-making process, recovery of interest and "earnings" on equity funds as part of cost-of-service.

Second, AFUDC allows the rate base to exceed actual out-of-pocket costs, thereby increasing total profits. This is another example of "rate base inflation" discussed earlier to the extent that the total amount placed in the rate base exceeds the price which the utility would have paid to acquire a similar asset, fully constructed and financed (prior to its completion) with nonutility funds.

36. The "shareholders" on whose assets rates of return are calculated are defined as the owners of the majority interests of the corporations analyzed in this study. Accordingly, an adjustment not discussed in the body of the report is the removal from all consolidated financial statements of the income and assets attributed to any minority interest.

- 37. Another way of deriving rates of return on common shareholders' productive assets is based on the assumption (perhaps more congruent with the regulatory environment) that each class of utility creditor and owner has a claim on CWIP in proportion to its share of total capitalization. Thus, starting with the rate of return on total common shareholders' assets, AFUDC would be entirely removed from the numerator but only a portion of CWIP (based on the ratio of common equity to total capitalization) would be subtracted from the denominator. Included as a fifth rate of return series for utilities in Table 4, this set of profitability measures has lower values than the rates of return on common shareholders' productive assets used in the statistical tests discussed later in this report.
- 38. The alternative approach to Measure 4 discussed in footnote 37 is expressed as:

$$R4'_{it} = \frac{I_{it} + T_{it} - PD_{it} - AFUDC_{it}}{TA_{it} - LIQPF_{it} - LTD_{it} - CL_{it} - \left(\frac{CEQ_{it}}{CAP_{it}}\right) CWIP_{it}}$$

where

CEQ_{it} = Average common shareholders' equity;

CAP_{it} = Average total capitalization; and all the other variables are defined as in the text.

R4' it = Alternative Accounting Rate of Return on Common Shareholders' Productive Assets

Since CAP_{it} > CEQ_{it}, R4_{it} > R4'_{it}.

- 39. See H. Michael Mann, "Seller Concentration, Barriers to Entry, and Rates of Return in Thirty Industries, 1950-60," <u>Review of Economics</u> <u>and Statistics</u>, 48 (August, 1966), pp. 296-307, and Timothy L. Sullivan, "Market Power, Profitability, and Financial Leverage," The Journal of Finance, 29 (December, 1974) pp. 1407-1414.
- 40. The COMPUSTAT tape is a magnetic computer tape service offered by Standard and Poor's. Providing additional information for regulated companies, the Utility COMPUSTAT also contains most of the data items reported to the Securities and Exchange Commission.
- 41. Mann, op. cit., pp. 306-307.
- 42. Sullivan, op cit., pp. 1408-1409.

- 43. In a very few instances obvious outliers were removed, thereby creating eight or nine-year averages for some companies. These occur in the computation of Measure 4 where the subtraction of CWIP makes the denominator very small (causing the annual rate of return to exceed 100%) or slightly negative (making the return measure a very large negative number).
- 44. See page 21.
- 45. See pages 22-24.
- 46. See the numerical example on page 23.
- 47. For a full explanation of Hotelling T² test, see Bolch, Ben W. and Cliff J. Huang, <u>Multivariate Statistical Methods for Business</u> and Economics (Prentice Hall; International Series in Management, Englewood Cliffs, New Jersey, 1974)
- 48. C.E. Weatherburn, <u>A First Course in Mathematical Statistics</u> (Cambridge University Press, London, 1968)
- 49. This conclusion is confirmed in a separate T² test involving vectors comprised of the rates of return on total assets and on total productive assets (i.e., Measures 1 and 2). The null hypothesis is rejected at the .01 level.
- 50. Using data for flow-through rather than normalized utilities, the test described in footnote 49 also results in rejection of the null hypothesis at the .01 level.
- 51. The previous comparison involving flow-through and normalized utilities also reflects this. See pages 31-35 and Table 4.
- 52. See pages 9-10.
- 53. See pages 10-11.
- 54. A listing of risk measures in large U.S. firms may be found in <u>Security Risk Evaluation</u> (Merril, Lynch, Pierce Fenner & Smith, New York, August 1978).
- 55. See footnote 10.
- 56. See pages 12-18.
- 57. See pages 31-35.

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APPENDIX 1

Ten-Year Returns for All Electric Utilities In Study

													
8	eyge (250 feathChanne),-30(feathch	RA		E NG. 1. TURN MEA		gano ho mu me dany avalana		tina ya Tanan ku na Jinta ngenga ga galga	•				All
CCMPANY NAFE	RISK	1967	1968	1969	1570	1971	1972	1973	1974	1575	1976	AVERAGE	
LLEGHEAY POWER SYSTEM MERICAN ELECTRIC POWER TLANTIC CITY ELECTRIC ANGOR HYTRO-ELEC CC LIGHT CC	0.525 0.516 0.555 0.524 0.423	C.C98 O.C91 C.C86 C.102	0.095 0.090 0.087 0.085	0.088 0.084 0.063 0.087	C.C86 0.C81 0.C76 0.C78 0.C78	0.077 0.077 0.072 0.066	0.075 0.075 0.085 0.085	0.030 0.030 0.032 0.032 0.061	0.08C 0.077 0.082 0.065	C.1C8 C.CE4 C.C56 C.C89 C.LC1	0.091 0.100 0.100 0.100	0.083 0.083 0.285 0.279	•
LICK HILLS PC-ER ELIGHT CC DSTON EDISON CC RASCAN LIG-CL & ARGLINA FCWER & LIGHT ENTRAL E SCUTH LEST CORP	0.525 0.614 0.609	C.C93 C.C72 C.C96	0.093 0.093 0.072 0.099 0.123	0.081 0.089 0.072 0.091	0.077 0.078 0.074 0.066 0.066 0.123	0.075 0.075 0.085 0.078	0.069 C.C92 0.C99 0.C99	0.073 0.073 0.100 0.382	0.04 0.084 0.084 0.084	C.C89 C.C89 C.C69 C.IC2 C.IC2	0.091 0.091 0.066 0.119 0.119	0.084 0.078 0.091	
ENTRAL E SCUIH <u>LESI CORP</u> ENTRAL MAINE PCMER C ENTRAL VERMONT PLE SERV LEVELAND ELECTRIC ILLUM CLUMMUS E SCLIFERN CHIC	0.310 0.310 0.766 0.384	C.C98 C.C98 C.C76 C.128	0.123 0.096 0.070 0.129 0.047	0.091 0.067 0.117 0.050	C.123 O.C94 O.C62 O.1C3 O.C77	0.084 0.051 0.051 0.097	0.125 0.C96 0.C64 0.C93 0.C76	0.032 0.032 0.086	0.12C 0.077 0.064 0.096	C.C84 C.C84 C.C91 C.C88 C.LC1	2.093 2.093 0.091 0.092	0.050 0.050 0.067 0.103	
LUMAUS E SGLTFEAN CEIC JMMONWEALTH ECISCN JMMUNITY PUBLIC SEFVICE INCORD ELECTRIC CC ITECIT ECISON CC	0.403 0.307 0.435 0.000 0.714	C.101 C.114 C.C85 C.C64 C.C91	0.057 0.113 0.089 0.080 0.080	0.090 0.102 0.097 .0.077	0.077 0.091 0.102 0.076 0.073	C.CAS 0.C84 0.1C4 0.C75 0.C75	0.090 C.109 0.094 0.094	0.081 0.092 0.107 0.073	0.085 0.085 0.096 0.097 0.072	C.C92 C.C96 C.LU	0.038 0.094 0.107 0.106	0.096 0.096 0.059 0.083	
JKE POWER CO JOUESNE LIGHT CO ASTERN UTILITIES ASSCC	0.612 0.504 0.761	C.108 C.108 C.105 C.106 C.106	0.105 0.102 0.097	0.094 0.093 0.383	0.073 0.066 0.082 0.078 0.078	0.071 0.071 0.051 0.051	0.089 0.089 0.089 0.086	0.076 0.077 0.036 0.058	0.085 0.086 0.086	C.CS8 C.CS8 C.CS7 C.CS7 C.C80	0.111 0.068 0.097	0.088 0.092 0.092 0.086	
NSCN SALLT ELECTRIC PASO ELECTRIC CC PIRE DISTRICT ELECTRIC CO DRIDA PCWER & LIGHT ORIDA PCWER & CIRP	0.358 0.326 0.575	C.125 C.111 C.110	0.114 0.130 0.115 0.116	0.101 0.133 0.104 0.114	0.127 0.109 0.103	0.097 0.122 0.097 0.108 0.108 0.095	C.C30 D.125 C.C94 O.C94 C.C94 C.C94	0.094	0.054 0.051 0.051 0.051	C.1C7 C.1C7 C.C53 C.116 C.1C3	0.102 0.102 0.094 0.100	0.121 0.122 0.102 0.106	
ORIDA PCHEE CCRP NERAL PLOLIC LILITIES SEEN MGUNTAIN PCHER CORP JLF STATES UTILITIES CO WALLAL ELECTRIC CC	0.629 1.063 0.484	C.075 C.075 C.C76 C.103	0.108	0.062 0.074 0.103 0.052	0.075 0.075 0.075 0.075 0.058	0.035 0.035 0.055	0.078 0.060 0.099	0.040 0.070 0.061 0.097	0.084 0.087 0.102	C.C3 C.C37 C.C50 C.C50 C.C53	C.100 U.099 U.089 U.089 U.092 U.092	0.039 0.076 0.073 0.099	,
INALIAE ELECIBIL CE JAHO PCWER CC NDIANAPOLIS PCKER & LIGHT ANSAS CITY PCWER & LIGHT NNSAS CAS & ELECTEIC	0.363 0.694 0.481 0.558	C.022 C.C74 C.116 C.C96	0.091 0.081 0.114 0.059	0.087 0.109 0.094	C•092 0•103 0•038	0.086 0.096 0.104 0.088 0.103	0.094 0.118 0.087	0.089 0.103 0.081	0.096 0.096 0.086 0.086 0.086	C.C.S.C C.C.S.C C.C.S.C C.C.S.C C.C.S.T C.C.S.T C.C.S.T C.C.S.T C.C.S.T	0.093	0.001 0.005 0.105 0.090	
NASAS GASE ELECTIC INTUCKY LITLITIES CC AINE PUBLIC SERVICE DOLE SOUTH LITLITIES NMESCITA 2004ER E LIGHT	0.465 0.465 0.491 0.417 0.390	C.11C C.121 C.075 C.088 C.088	0.111 0.123 0.078 0.094	0.122 0.086 0.098 0.098	C.113 C.107 O.C91 G.C97 D.C32	0.098 0.075 0.094 0.094	0.093 0.093 0.083 0.095 0.080	0.086 0.099 0.097 0.092 0.085	0.085 0.076 0.108 0.088 0.085	C.109 C.109 C.094 C.084 C.084	0.102 0.099 0.110 0.088 0.104	0.103 0.105 0.091 0.092	
VADA POWER CO EVADA POWER CO EVADA POWER CO INTHEAST UTILITIES	0.650 0.533 0.582	C.C87 C.C87 C.081 C.086	0.056 0.053 0.073 0.073 0.031	0.090 0.091 0.073 0.079	C.C87 C.C74 O.C63 C.1C2	0.084 0.075 0.069	C.C80 C.C90 C.C84 O.C76	0.078 0.079 0.076	0.082 0.082 0.085 0.073	C.C7C C.C7C C.C57 C.C57 C.C72	0.104 0.085 0.100 0.082 0.039	0.085 0.083 0.076	
LAHOMA GAS & ELECTRIC TER TAIL POWER CC NNSYLVANIA POWER & LIGHT	0.432 0.342 0.281 0.441	C.105 C.C86 C.C88	0.105 0.075 0.084 0.084	C.116 O.087 C.J78 O.C84	0.120 0.090 0.065 0.081	0.115 0.105 0.076 0.076	C.118 C.103 C.103 O.C86 D.C32	0.091 0.117 0.099 0.091	0.102 0.102 0.098 0.098	C.CSI C.CSI C.CSI C.CSB C.CSB	0.092 0.105 0.095	0.093	
PTLAND GENERAL ELECTRIC CO JTOMAC ELECTRIC PCWEP JBLIC SERVICE CC CF IND JBLIC SERVICE CC CF N H JBLIC SERVICE CD CF N HEX	<u> </u>	C.076 C.076 C.115 C.083 C.112	0.074 0.119 0.088 0.164	0.063 0.116 0.089 0.104	C.C66 C.1C9 O.C84 O.1C5	0.067 0.053 0.072 0.100	0.C77 C.1C8 C.070	- 0.085 0.083 0.116 0.072	0.032 0.110 0.032 0.091	C.C67 C.1C6 C.1C0 C.1C1	0.092 0.094 0.131 0.093	0.086 0.076 0.112 0.083	
JGET SCUND PCWER & LIGHT AVANNAH ELEC & PCWER DUTHERN CALIF EDISCN CC	0.592 0.476 0.537 0.382	C.060 C.085 C.C79	0.063 0.093 0.073	0.061 0.091 0.072	0.C63 0.C86 0.C75	0.066 0.075 0.071 0.080	0.113 0.073 0.070 0.073	0.072 0.073 0.073	0.091 0.091 0.085 0.105 0.071	C.CS2 C.CS8 C.C79	0.059 0.091 0.098 0.063 0.093	0.073	
OUTHERN CC QUTHAESTERN ELEC SERVICE GUTHAESTERN PUBLIC SERV CO AMPA ELECTRIC CC CYAS UTLITIES CC	0.504 0.371 0.374 0.773	C.C88 C.C81 C.O93 C.106	0.092 0.083 0.102 0.101	0.096 0.091 0.106 0.104 0.134	0.091 0.097 0.110 0.058 0.129	0.095 0.116 0.075	0.082 0.100 0.108 0.098 0.098	0.089 0.103 0.108 0.096 0.115	0.165 0.120 0.075 0.113	C.1C4 C.1C4 C.1C9 C.1C4 C.1C4	0.103 0.103 0.105 0.105	0.097 0.109 0.097	
GLEDG EDISCN CCMPANY NION ELECTRIC CC NITED ILLUMINATING CC PPER PENINSULA PC'SER	0.418 0.400 0.412 0.442	C.107 C.C81 C.096 C.C87	0.110 0.082 0.089 0.089	0.109 0.083 0.094 0.086	C.10C 0.C87 0.C85 0.C75	0.093 0.072 0.063 0.073	0.053 0.065 0.095	0.091 0.074 0.068	0.012	C.CS4 C.CSC C.CSC C.C75 C.C75	0.039	0.096 0.080 0.082 0.085	
TAH PUWER & LICHT	0.344 0.617 0.491	C.080 C.096 C.061	0.08C 0.097 0.067 C.113	0.076 0.093 0.073	0.C75 0.C84 0.076 0.102	0.076 0.076 0.069	0.082 0.074 0.074 0.074	0.077 0.079 0.081	0.074 0.069 0.076 0.074	C.C85 C.C88 C.C89 C.C89	0.107 0.090 0.086	C.C81 0.C85 0.075	
RCINIA ELECTRIC S PLWER RIZONA PLOBIC SERVICE CO ALTINCHE CAS S ELECTRIC ENTRAL HLOSCN GAS E ELEC ENTRAL ILLINCIS LIGHT ENTRAL ILL PUBLIC SERVICE INCINATI CAS S ELECTRIC	0.420 0.480 0.487 0.567 0.264	C.112 C.081 C.10C C.113 C.123	0.082	0.078 0.101 0.114 0.118	C.C61 C.105 C.105 C.1C7 C.104	0.083 0.102 0.105 0.105	0.090 0.099 0.092 0.102	0.083 0.087 0.087 0.097	0.065 0.075 0.085	C.C23 C.C26 C.C78 C.C94 C.C94	0.092 0.094 0.091 0.091	0.096 0.080 0.095 0.101 0.101	
DNSCLIDATED ECISCA CF N.Y. CASUMERS POWER CC AYTON POWER & LIGHT ELMARVA POWER & LIGHT	0.902 0.711 0.479	C.1059 C.105 C.127	0.061 0.099 0.109 0.103	0.058 0.093 0.097	0.051 0.089 0.086 0.075	0.055 0.077 0.033 0.080	0.055 0.076 0.081	0.059 0.073 0.070	0.071 0.058 0.071	C.C32 C.C3U C.C3U C.C36 C.C74	0.092	0.044 0.085 0.092	
ITCHBURG GAS & ELEC LIGHT LLINCIS POWER CC NIERSTATE POWER CC GWA ELECTRIC LIGHT S PWR	0.387 0.497 0.436 0.713	C.C79 C.128 C.090	0.087 0.126 0.091	C.084 0.125 0.093	0.C84 0.118 0.C88 0.C85	0.093 0.100 C.C88 0.C75	0.C86 0.095 0.C89 0.C89	0.077 0.096 0.087 0.087	G.C74 D.C85 G.C85 O.C85	C.C26 C.1C4 C.C88	0.095	0.083 0.108 0.089	
DWA-ILLINCIS GAS & ELEC DWA POWER & LIGHT DWA PUBLIC SERVICE CC DWA SOUTHERN UTILITIES CO	0.734 0.353 0.304 0.571	C.113 C.095 C.103	0.105 0.093 0.110	0.099 0.090 0.103 0.129	0.C88 0.C78 0.C93 C.128	0.C75 C.C24 0.10C 0.124	C.110 C.C83 O.C37 O.128	0.095 0.097 0.084 0.11	0.098 0.090 0.087 0.106	C.1C5 C.1C6 C.1C2 C.1C2	C.112 0.102 0.106 0.106	0.100 0.092 0.098	
ANSAS POWER & LIGHT AKE SUPERIOR DIST FCWER CO ONG ISLAND LIGHTING FULSPILLE COST FECTRIC	0.281 0.315 0.530	C.103 C.08C C.085	0.111 0.088 0.084	0.118 0.077 0.050	0.119 0.073 0.C86 0.132	0.118 0.C82 0.C86 0.123	0.113 0.092 J.031	0.113 0.085 0.078 0.078	0.095	C.CS9 C.CS7 C.CS0 C.LU	0.095 C.088 J.096	0.108 0.085 0.085 0.120	
ADISON GAS & ELECTRIC CO Issouri public service co ontana power co EW England cas e flectric	0.367 0.631 0.311	C.077 G.C92 C.119 C.C94	0.079 0.084 0.114 0.085	0.088 C.088 0.129 0.085	0.077 0.091 0.127 0.086	0.080 0.079 0.123 0.051	0.077 0.C85 0.120 0.C84	0.094 0.081 0.116 0.081	0.CHS 0.CS4 0.10C	C.113 C.C59 C.C50 C.C50	U.1C8 U.110 C.075	0.088 0.090 0.111 0.087	
EW YORK STATE ELEC & GAS IAGARA MCHAWK PCWER URTHERN INDIANA PLELIC SERV CRTHERN STATES PCHER	0.534 0.490 0.337 0.477	C.076 C.117 C.089	0.083 0.064 0.116 0.089	0.077 0.064 0.114 0.389	0.072 0.059 0.120 0.088	C.C65 0.062 C.LC4 0.C89	0.C74 0.069 J.104 0.095	0.076 0.058 0.098 0.098	160.0 760.0 760.0 780.0	C.C78 C.C84 C.C98 C.LC5	0.083 0.075 0.107	0.078 0.068 0.106 0.053	
DRTHWESTERN PUELIC SERV CO Range & Pockland Lillities ACTFIC GAS & ELECTFIC	0.392 0.637 0.240 0.447	C.C89 C.C79 C.C84 C.O65	0.088 0.076 0.084 0.084	0.053 0.072 0.083 0.068	0.097 0.077 0.077 0.077	0.103 0.055 C.086 C.C78	0.099 0.067 0.084 0.031	0.090 0.075 0.083	Ú.C8É 0.C7C 0.C8C 0.C8C	C.C83 C.C92 C.C70 C.C70	0.096 0.099 0.073 0.082	0.093 0.076 0.080 0.080	
HILADELPHIA ELECTHIC CC UALIC SERVICE CC CF CCLO UALIC SERVICE ELEC & GAS CCHESTER GAS S ELECTHIC	0.438 0.365 0.609	C.C91 C.082 C.085 C.085	0.084 0.085 0.085 0.086	0.082 0.084 0.082 0.082	0.074 0.082 0.070	0.083 0.075 0.082 0.082	C.C84 G.C76 C.C70 J.071	0.083	0.083 0.068 0.074	C.C89 C.C87 C.C79 C.C82	0.093 0.082 0.094	0.085 0.080 0.079 0.077	
I JUSEPH LIGHT & FEWER AN DIEGO GAS & ELECTRIC IERRA PACIFIC FOWEF CO OUTH CARCITINA FIC & GAS	0.599 0.511 0.502 0.841	C.C83 C.C87 C.C68 C.C68	0.094 0.088 0.070	0.089 0.092 0.068 0.068	0.095 0.034 0.073 0.071	0.106 0.078 0.074 0.075	0.105 0.C69 0.C78 C.C81	0.094 0.069 0.083 0.083	0.085 0.081 0.085 0.085	C.C52 C.C59 C.C85 C.C85	0.097 0.084 C.101 0.095	0.095 0.079 0.079 0.079	
OUTHERN INDIANA GAS & ELEC UCSCN GAS & ELECTFIC Ashington water foker Isconsin flotato, foker	0.445 0.532 0.282 0.140	C.113 C.096 C.C73 C.C97	0.056	0.119 0.055 0.080 0.080	0.120 0.100 0.081 0.081	0.114 0.084 0.082 0.088	0.126 0.CR3 C.080 0.105	0.130 0.078 0.081 0.118	0.115 0.071 0.085 0.108	C.119 C.CS3 C.C87 C.1C6	0.128 0.100 0.059 0.115	0.120 0.090 0.083 0.083	
ISCONSIN POWER & LIGHT ISCONSIN PUBLIC SERVICE ONTANA-DAKCTA LIILITIES	0.419 0.291 0.262	C.111 C.106 C.083	0.112 0.097 0.091	0.091	0.103 0.091 0.099	0.093 0.086 0.095	0.C95 0.C99 0.C93	0.101 0.105 0.080	0.098 0.108 0.084	C.123 C.127 C.CS4	0.140 0.147 0.105	ú.108 0.106 0.092	

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CCMPANY NAFE	RISK	1967	1968	1969	1970 .	1971	1972	1973	1974	1575	1976	AVERAGE
LECHENY POWER SYSTEM	0.525 0.516 0.555	<u>C.C93</u> C.C88 C.O84	0.089 0.083 0.085	0.08C 0.072 0.077	0.078 0.066 0.067	0.074	C.CB0 0.C60	0.055 0.071	0.020	C.111 C.Co.	0.117 0.093 0.111	0.039
IFRICAN ELECTRIC FOLER ILANTIC CITY ELECTPIC NGOR HYDRO-ELEC CO ACK HILLS FOLER FOLIGHT CO STON EDISON CC	0.524	C.100 C.100 C.089 C.089 C.089	0.093	0.083	0.072	C.C6C O.C66 C.C69 C.C56	0.046 0.070 0.035 0.162 0.046	0.076 0.061 <u>0.165</u> 0.069	0.031 0.070 0.022	C.CSC C.CSC	J.043 J.041 J.041 J.041	0.021
NĂSCĂN LID-CLĂ Reulina femer & light Mizal & scuth mest cosp Niral Maine Power co	0.614 0.609 <u>0.308</u> 0.310	C.C65 C.O50 C.115 C.057	0.070 0.094 0.121 0.095	0.069 0.085 0.125 0.090	0.C72 0.C53 <u>C.115</u> 0.C91	G.C32 C.G64 <u>C.116</u> U.G32	0.086 0.080 0.122 0.096	0.092 0.072 0.123 0.090	0.072 0.072 0.072 0.072	C.Cel C.112 C.124 C.Ceo	2-116	0.075
ENTRAL VERMONT PLE SERV LEVELAND ELECTRIC ILLUM LUMBUS & SOLTHERN CHID	0.766 J.384 <u>0.603</u>	C.074 C.126 C.C.9	0.064 0.123 0.092	0.057 0.107 083	0.052 0.092 0.067	0.032 C.C4C 0.C4C 0.C4C	0.096			C.CS4 C.CS6 	5.094 5.095 J.103	
MYGNWEALTH EDISCN MYGUNITY PUALIC SERVICE NCORD ELECTRIC CC TRCLT ECISUN CC	0.307 0.435 0.000 0.714	C.111 C.C83 C.C63 C.C86	0.108 985.0 979.0	0.094 0.096 0.076 0.081	0.031 0.101 0.075 0.064	0.071 0.103 0.073 0.073	0.078 J.109 J.C32 C.C53	0.067 0.107 0.073	0.087 0.095 0.085 0.085	C.CS5 C.CS6 C.110 C.C65	0.102 0.108 0.105 0.075	0.091 C.C99 J.082 C.C72
JKE POWER CO JQUESNE LIGHT CC ASTERN UTILITIES ASSEC	0.512 0.504 0.761	C.104 C.101 C.104 C.104	0.096 0.098 0.095	0.082 0.083 0.079	0.050	0.052 0.030 0.080	0.047 0.075 0.082	0.005 0.003 0.054	0.034	C.101 C.112 C.(79	0.123	0.080
ATCEL SALITELECTRIC - PASD ELECTRIC CC - PARE DISTRICT ELECTRIC CU LORIDA PEWER & LIGHT INTER PEWER CCRP	0.353 0.326 0.575	C.123 C.11C C.11C C.110 C.101	0.123 0.113 0.116 0.105	0.128 G.051 0.114 U.103	0.124 0.101 0.103 0.103	0.118 0.096 0.097 0.085	C.120 V.C93 U.C83 C.C84	0.120 0.093 0.103	0.116 0.054 0.057 0.077	C.111 C.CSB C.138 C.112	0.117 0.103 0.047 0.115	0.120 0.099 0.106 0.096
ENFRAL PUBLIC UTILITIES REEN MOUNTAIN FOWEF CORP UF STATES UTILITIES CO	0.629 1.063 0.484	C.C65 C.074 C.10C	0.064 0.063 0.098	0.052 0.063 0.055	0.050 0.050 0.064 0.088 0.034	0.059 0.027 0.027	J.C65 C.050 C.090	<u>-0.380</u> 0.373 0.361 0.395	0.084 0.088 0.109	C.(SI C.(SI C.1() C.1()	0.103 0.150 0.100	0.071 0.267 0.092
TALITAN PERCITIZIC (CC DAHO POWER CC NOIANAPOLIS POWER & LIGHT ANSAS CITY POWER & LIGHT ANSAS CITY POWER & LIGHT	0.355 0.355 0.694 J.431	C.068 C.068 C.110 C.094	U.061 U.061 0.107 0.092	0.35C 0.387 0.399 0.399	0.091 0.100 0.085	0.095 0.095 0.095 0.082	<u>0.090</u> 0.090 0.107 0.077	<u>)。297</u> ひ。294 ひ。395 ひ。395	1.026 1902.0 1902.0 1.029 1.029 1.029	C.1C1 C.CE3 C.1C5 C.CS5 C.CS5	0.100 0.095 0.120 0.104	0.088 0.046 0.103 0.089 0.100
ANSA GAS E ELECTRIC ENTUCKY UTILITIES C ALME PUBLIC SERVICE 19.0E SGUTH UTILITIES 19.0E SGUTH UTILITIES	<u></u>	C.105 C.121 C.075 C.C83 C.C84	0.121 0.121 0.077 0.090	C.116 0.117 0.035 0.054 0.188	0.107 0.097 0.090 0.091 0.091	C.CS2 C.CSC D.078 O.087 D.075	0.035 0.035 0.033 0.035 0.035	0.079 0.097 0.097 0.097	0.086 0.085 0.107 0.089	C.115 C.115 C.C33 C.C37 C.C37	J.107 J.107 J.105 J.057	0.104 0.104 0.090 0.036
INCESCIA POWER & LIGHT EVADA POWER CO EVADA POWER CO LATHEAST UTILITIES HICHEDISCN CO	0.650 0.650 0.533 0.532	C.C84 C.C82 C.C79 C.C79 C.C83	0.087 0.087 0.073 0.075	0.085 0.085 0.067 0.070	0.074 0.074 0.071 0.051 0.051 0.297	0.075 0.075 0.075 0.075 0.075 0.075	C.C64 C.C32 D.C77 J.C62	0.075 0.075 0.076 0.076	0.025 0.025 0.025 0.075 0.075	C.C67 C.C67 C.C93 C.C93	0.097 0.128 0.036 0.103 0.082	0.080 0.080 0.080 0.080 0.080
ALG EGISCN CC KLAHUMA GAS & ELECTRIC TTER TAIL POWER CC ENNSYLVANIA POWER & LIGHT	0.432 0.342 0.291 0.441	C.115 C.103 C.C85	0.101 0.079 0.077	0.112 0.112 0.386 0.371 0.393	0.114 0.090 0.056 0.056 0.079	0.111 0.103 0.063	C.114 C.114 C.297 U.C76	- 0.090 0.119 0.102 0.087		C.111 C.111 C.1C4 C.1C4 C.1C1	0.101 0.101 0.103 0.103 0.100	0.110 0.056 0.056 0.082
LATIANO CANADAN CARTONIC CC. DICYAL ELECTRIC POWER UBLIC SERVICE CO CF IND UBLIC SERVICE CC CF N UBLIC SERVICE CC CF N UBLIC SERVICE CC CF N DE COMPANY	0.460	C.C83 C.C77 C.U76 C.112	0.077 0.074 0.115	0.063	0.066	<u>-0.092</u> 0.067 0.088	<u> </u>	0.113 0.020 0.020	0.107	C.C21 C.C21 C.115	0.110 0.110 0.142	
UGELIC SERVICE LL LF N MEX UGELI SERVICE LL LF N MEX UGELI SERVICE LL LIGHT AVANNAH ELEC & PCLEF GUITHERN GALIF EDISCN CC	0.564 0.592 0.476 0.537	C.077 C.108 C.058 C.C85 C.C85 C.C76	0.064 0.048 0.041 0.041	0.026 0.055 0.060 0.087	0.078 0.102 0.061 0.078	0.068 0.097 0.052 0.061	0.062 0.103 0.070 0.060	0.066 0.107 0.071 0.067	0.084 0.094 0.096 0.087	C.1C1 C.114 C.C92 C.1C3	0.094 <u>0.092</u> 0.092 0.103	J.080 0.103 J.072 0.082
GUTHERN CG . GUTHWESTERN ELEC SERVILE GUTHWESTERN PUBLIC SERV CO	0.392 0.504 0.371 0.374	C.C76 C.C85 C.OEC C.C92 C.LOC	0.089 0.089 0.082 0.098	0.066 0.092 0.051 0.106	0.070 0.084 0.096 0.107	0.066 C.C7C C.C9d C.111	0.071 0.070 0.099 0.107	0.373 0.385 0.103 0.110	0.111 0.272 0.105 0.124	C.123 C.117 C.164 C.116	0.101 0.103 0.121	0.042 0.077 0.086 0.096 0.109
AMPA ELECTRIC CC Exas utilities CC ULEDO EDISCN CCMPANY NION ELECTRIC CC	0.773	C.10C C.123 C.103 C.076	0.098	0.096	0.087	C.C85 C.C85 C.C85	0.092 0.115 0.082 0.056	0.094 0.036 0.036 0.072	0.079 0.119 0.084 0.089	C.113 C.113 C.115 C.115 C.125 C.C53	0.113 0.126 0.111 0.109	0.093
NITED ILLUVINATING CC PPER PENINSULA POVER TAM POVER & LIGHT IRGINIA ELECTRIC & POVER	0.412.	C.088 <u>C.086</u> C.078	0.079 0.086 0.076	0.075 0.053 0.086 0.075	0.085	0.063 <u>- C.C72</u> C.C55	0.092 0.094 0.077	0.067 <u>0.057</u> 0.075	0.038 	<u> </u>	0.074 0.098 0.114	0.080 0.084 0.080
NIZONA PUBLICI SERVICE CO ALTIMORE GAS E ELECTRIC ENTRAL HUDSON GAS E ELEC ENTRAL ILLINCIS LIGET	0.617 0.491 0.423 0.433	C.C95 C.C60 C.112 C.C74 C.C74 C.C95	C.091 0.062 0.111 0.080	0.083 0.070 0.107 0.107 0.107	0.070 0.075 0.094 0.057	C.C56 C.C66 O.C31 C.075 Q.051	0.049 0.064 0.064 0.077 0.071	0.068 0.081 <u>0.084</u> 0.080	0.066 0.078 0.079 0.092	C.(%6 C.(%6 	0.101 0.092 0.092 0.094	0.077 0.075 0.077 0.077 0.094
ENTRAL ILL PUBLIC SERVICE	0.437 0.567 <u>0.334</u> 0.332	C.095 C.112 C.120 C.057	0.096 0.115 0.113 0.057	0.113	0.100 0.102 0.054 0.045	0.091 0.095 <u>0.095</u> 0.048	0.082	0.009 0.087 0.097 0.0950	0.036 0.053 0.055 0.073	C.C39 C.C83 C.C99 C.C95 C.C35	C.101 C.395 C.355	0.094 0.100 <u>0.057</u> 0.061
GNSCLICATED ECISCN CF N.Y. GNSUMERS POWER CC Ayton Power & Licht Flwarya Power & Licht Tomanya Street Licht	0.332 0.711 0.479 0.479 0.472 0.387	C.104 C.124 C.242 C.678	0.096	0.088 0.188 0.190	0.082 0.077 0.70 0.083	0.017	0.046 0.065 0.074 0.065 0.083	0.069 0.067 	0.052 0.071 0.074	C.C84 C.100	0.100 0.102 0.102 0.071	0.083 0.083 0.075 0.082
ITCHBURG GAS & ELEC LIGHT LLINGIS PEWER CC NTERSTATE POWER CC SHA ELECTRIC LIGHT & PWR	0.497 0.436 <u>0.713</u> 0.734	C.126 C.086 C.084	0.123 0.050 0.087	0.117 0.093 0.087	0.110 0.086 0.080	0.022 0.055 0.088 0.088	0.047 0.098 0.071	0.093	0.093 0.090 0	C.C.22 C.110 C.C.33 C.C.22	0.106 0.043 0.043	0.106 0.089 0.173
OWA-ILLINCIS GAS & ELEC GWA POWER & LIGHT GWA PUBLIC SERVICE CC GWA SOUTHERN UTILITIES CO	0.353 0.304 0.571	C.108 C.C94 C.102	0.091 0.091 0.109	0.388 C.087 0.10C 0.125	0.C74 C.C76 U.C87 0.127	0.063 0.084 0.090	0.098 0.082 0.080 0.127	0.095 0.100 0.085 0.115	0.098 20.0 2010 7110	C.1C4 C.1C8 C.1C2 C.1C7	0.114 0.109 0.110	0.094 0.092 0.095 0.118
ANSAS POWER & LIGHT AKE SUPERIER DIST FEVER CO ONG ISLAND LIGHTING CUISVILLE GAS & ELECTRIC	0.281 0.315 0.530	C.102 C.080 C.C82	0.11C 0.087 0.081 0.14C	0.114 0.075 0.088	0.110 0.072 6.081	0.113 0.082 0.079	0.091 0.091 0.073	0.112 0.089 0.077	Ú.C93 U.C97 U.C97 U.C79 U.C79	C.1C1 C.CS9 C.CS4 C.122	0.102 0.089 0.107	0.107 0.036 0.034 0.125
ADISON GAS & ELECTRIC CO ISSOURI PUBLIC SERVICE CO ONTANA POWER CC EM ENGLAND GAS & ELECTRIC	0.367 0.631 0.311	C.076 C.C33 C.116 C.C33	0.077 0.069 0.111	0.084 0.073 0.128	0.070 0.099 0.127	0.066 0.077 0.122	0.061 0.082 0.118	0.091 0.080 -0.118 -0.118	0.10C 0.054 0.1C4	C.124 C.1CJ C.C91 C.C91	0.116 0.111 0.074	0.086 0.086 0.111
IEW YORK STATE ELEC & GAS HAGARA MCHAWK FOWER IORTHERN INDIANA PLELIC SERV	0.534 C.490 0.337	C.086 C.071 C.113	0.077 0.057 0.112	0.067 0.057 0.112 0.087	C.067 C.C54 O.116 C.U78	0.063 0.058 0.101	0.071 0.062 0.096	0.076 0.054 0.096	J.C84 U.C64 0.C90 0.C90	C.C8J C.C86 C.IC3	0.089 0.073 0.107	0.076 0.064 C.105
GRTHEPN STATES PERF URTHWESTERN PUELIC SERV LO RANGE & ROCKLAND LTILITIES ACIFIC GAS & ELECTRIC ACIFIC PERF & LICET	0.392 0.637 0.240	C.083 C.C38 C.C78 C.C78 C.C50	0.085 0.087 0.071 0.071	0.J92 0.065 0.081	0.056 0.073 0.072	<u> </u>	0.056	0.091 0.074 0.050	0.072 0.072 0.082 0.082	C.CS1 C.CS2 C.CS2 C.CS2	0.099	0.087 0.093 0.073 0.078
HILADFLPHIA ELECTRIC CC UBLIC SERVICE CC CF CCLO UBLIC SERVICE ELFC & GAS	1.435 0.365 0.609	C.C86 C.C86 C.C86 C.C83	0.080	0.066 0.078 0.082 0.077	0.063 0.064 0.078 0.078 0.062	0.047 0.049 0.045 0.070	0.069 0.068 0.056 0.056	0.076 0.077 0.070 0.059	0.07C 0.07C 0.07C 0.07C	C.C96 C.C96 C.C89 C.C89 C.C84	0.03E 0.107	0.070 0.081 0.077 0.075
UCHÉSTÉP CÂS S ELÉCTPIC T JOSEPH LIGHT S PCWER AN DIEGO GAS 6 ÉLECTPIC IERRA PACIFIC PCWEF CC OUTH CAGCINA ELEC & GAS	0.599 0.599 0.511 0.502	C.081 C.08C C.086 U.065	0.089 0.089 0.087 0.065	0.062 0.085 0.091 0.067	0.043 0.045 0.082 0.082 0.069	<u> </u>	C-C70 U.102 0.065 0.076 C-C71	0.090 0.093 0.066 0.082 0.082	0.070 0.054 0.033 0.035 0.035	C.C85 C.C96 C.C99 C.C84 C.1C6	1.000 1.01.0 0.101 0.085 0.101	0.075 0.094 0.078 0.078 0.076
GUTH CARCINA FLEC E GAS GUTHERN INDIANA CAS E ELEC UCSON GAS & ELECTRIC ASHINGTON WATER POVER	0.541 0.445 0.532 0.282	C.095 C.113 C.C92 C.C73	0.116 0.054 0.078	0.113 0.113 0.094 C.079	0.112 0.096 0.075	C.108 C.108 O.C77 0.077	C.070 0.111 C.070 0.074	0.070 0.122 0.069 0.081	0.118	C.122 C.122 C.1C1 C.1C1 C.1C1	0.106 0.133 0.112 0.093	0.117
ISCONSIN ELECTRIC ECAER IISCONSIN PEXER & LICHT IISCONSIN PUBLIC SEFVICE GONTANA-DAKOTA UTILITIES	0.291 0.291 0.262	C.11C C.105 C.C62	0.105 0.054 0.054 0.055	0.099	0.058 0.058 0.057	0.077 0.083 C.076 C.076 C.094	0.033 0.033 0.036 0.051	0.051 0.100 0.105 0.077	0.084 0.107 0.107 0.118 0.078	C.135 C.135 C.135 C.135	0.093 0.151 0.151 0.156 J.104	0.108

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CCMPANY NAPE	RISK	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	AVERAGE
LEGHENY POLED SYSTEM TEKICAN ELECTRIC POLER TLANTIC CITY ELECTRIC ANGOR HYTRO-ELEC CC ACK HILLS POLER CLIGHT CO	C 525 0.516 0.555 0.524	C.204 C.193 C.190 C.213 C.143	0.197 0.177 0.197	0.176 0.153 0.176 0.176	0.151 0.133 0.139 0.145 0.145	C.136 G.123 C.12C G.111 C.172	0.119 0.149 0.148	0.151 0.120 0.137 0.137	0-122 0.082 0.122 0.115	C.1C1 C.118 C.167 C.173	0.141 0.141 0.159 0.079	C.170 U.135 U.157 U.148
DSTON EDISON CC RASCAN LID-CL A ARDLINA POWER & LICHI ENTRUS SCHUTH LEST (DOD	0.525 0.614 0.609 0.383	C.167 C.C71 C.186 C.217	0.192 0.147 0.168 0.071 0.201 0.228	0.136 0.157 0.069 0.169 0.243	0.126 0.126 0.068 0.091 0.222	0.109 0.077 0.124 0.207	0.169 0.091 0.091 0.182 0.182	0.089 0.089 0.097 0.115 0.217	0.096 0.079 0.086 0.200	C.142 C.115 C.(56 C.167 C.161	C.11C C.060 D.195	0.155 0.123 0.073 0.151 0.211
ENTRAL MAINE PLWFF CC ENTRAL VERMONT PLE SERV LEVELAND ELECTRIC ILLUM	0.310 0.766 0.384 0.603	C.191 C.164 C.228 C.228	0.186 0.131 0.238	0.176 C.11C 0.221 C.175	0.174 0.06C 0.190 	0.144 0.051 0.172 0.057	0.174 0.C86 0.169 0.122	0.153 -0.004 0.145 <u>0.120</u>	0.117 0.069 0.175 0.175	C • 136 C • 131 C • 141 C • 141	0.145 0.135 0.153	G.160 C.093 C.183 G.143
MMONWEALTH EDISCN CMMUNITY PUBLIC SERVICE THEORD ELECTRIC CC	0.307 0.435 0.000 0.714	C.219 C.162 C.100	0.215 0.174 0.139 0.155	G.191 0.188 0.128 0.153	0.164 0.185 0.122	0.144 0.187 0.126 0.107	0.161 0.202 0.142 <u>0.121</u> J.091	0.154 0.193 0.103	U.134 0.144 0.133 <u>U.C34</u>	C.149 C.151 C.220 C.220	0.147 0.179 0.185	0.163 0.177 0.140
UKE POWER CO UQUESNE LIGHT CO ASTERN UTILITES ASSCO DISON SALLT ELECTRIC	0.612 0.504 0.761	C.216 C.244 C.209	0.216 0.236 0.186	0.186 0.208 0.146 <u>0.152</u>	0.093 0.154 0.130 0.130 0.233 0.209	0.109 0.173 C.159 0.223 0.17C	0.156 0.156 0.164 0.230	0.113 0.132 J.052	J.121 0.126 0.091 J.157	C.152 C.148 C.C57	0.126 0.116 0.164	C.143 C.169 J.139
L PASO ELECTRIC CC MPIRE DISTRICT ELECTRIC CO LOKIJA PCWER & LICHI LOVIJA PCWER & LICHI LOVIJA PCWER CRP ENERVI DI ELECCIPI	0.355 0.326 0.575 0.636	C.232 C.232 C.209 C.187 C.197 C.197 C.197 C.195	0.246 0.221 0.203 0.266 0.124	0:254 0.209 0.194 0.210 0.089	0.209 0.171 0.183 0.064	0.225 0.17C 0.183 <u>C.171</u> 0.096	0.161 0.164 0.174	0.212 0.153 0.178	0.196 0.147 0.135 0.135	C.186 C.156 C.205	0.190 0.165 0.134	0.220 0.150 0.175
NERIL PUBLIC UTILITIES REEN MCUNTAIN POWEF COPP JLF STATES UTILITIES CO AMAITAN ELECTRIC (C) AMAG POWER CC	0.629 1.063 0.484 <u>0.477</u> 0.363	C.163 C.216 C.142 C.142 C.131	0.150 0.221 0.163 0.149	0.136	0.138	0.003 C.163 C.135 0.19C	0.117 J.CS8 0.178 <u>0.129</u> J.174	0.111 0.049 0.172 0.132 0.147	J.116 0.135 0.176 0.135 0.147	C.122 C.155 C.152 C.152 C.153 C.152	0.143 0.166 0.145 <u>0.155</u> <u>0.143</u>	0.112 0.114 0.181 <u>0.146</u> 0.151
NDIANAPOLIS POWER & LIGHT ANSAS CITY POWER & LIGHT ANSAS CAS & <u>Electric</u> Enthery it it the co	0.694 0.481 0.558 0.465	C.182 C.182 C.203	0.246 0.19C 0.221 0.224	0.160 0.238 0.178 0.236 0.236	0.169 0.213 0.156 0.214 0.178	-0.209 0.155 0.185 0.185	0.239 0.143 0.143 0.149	0.194	0.136 0.143 0.136 0.136 0.100	C 168 C 152 C 152 C 182	C.150 J.151 J.145 J.148	0.207 0.159 <u>C.159</u> C.169
AINE PUBLIC SERVICE IDDLE SOUTH UTILITIES INNESCTA POWER & LIGHT EVADA PCWER CC	0.491 0.417 0.390 0.550	C.144 C.169 <u>C.17C</u> C.157	0.135 0.135 0.135 0.166	0.154 0.194 0.184 0.162	0.155 C.185 <u>0.166</u> 0.137	0.124 C.169 0.175 C.128	C.137 J.174 <u>J.161</u> J.153	0.173 0.165 0.155 0.106	0.202 0.136 0.150	C.162 C.124 C.155	J.190 J.190 J.133 C.134 C.111	0.153 0.163 0.174 0.127
EW ENGLAND ELECTRIC SYSTEM ORTHEAST UTILITIES HTD FOISTA CC	0.533	C.16C C.171	0.148	0.128 0.144 0.225 0.259	0.128 0.086 0.185	0.138	0.169 0.125	0.133 0.110 0.221	0.143 0.091 0.163 0.186	C.C58 C.173 C.C96 C.127	0.177 0.121 0.144	C.150 0.120 0.172
KLAHOMA GAS & ELECTRIC TTER TAIL POWER CC ENNSYLVANIA POWER & LIGHT CHILAND GENERAL ELECTRIC CO TICMAC FLECTRIC FLEEP	0.342 0.281 0.441 0.444 0.460	C.226 C.173 C.199 C.199 C.129	0.230 0.152 J.181	0.168 0.154 0.134	C.260 G.173 O.099 C.121	0.237 0.212 0.130 0.153 0.095	0.229 0.203 0.156 0.141	0.160	0.138 0.136 0.11-0 11-0 14-14	C.129 C.152 C.177 C.130	0.187 0.153 0.153 0.159	0.174 0.174 0.159 <u>0.131</u> 0.120
TICMAC ELECTRIC PENER UBLIC SERVICE CC CF IND UBLIC SERVICE CC CF N H UBLIC SERVICE CC CF N H UBLIC SERVICE CC CF N HEX UGET SCUND PENER E LIGHT	0.423 0.564 0.592 0.476	C.144 C.21C C.165 <u>C.216</u> C.096	0.133 0.223 0.185 0.203 0.101	0.095 0.217 C.192 C.197 0.090	0.094 0.205 0.166 <u>C.192</u> 0.C87	0.165 0.118 <u>C.176</u> 0.095	0.127 0.196 0.116 0.155	0.140 0.205 0.104 0.195 0.105		C.12C C.12C C.172 C.172 C.16C C.151	0.232 0.142 <u>0.129</u> J.142	0.2C3 0.146 0.13 0.113
AVANNAH ELEC & PCKER CUTHERN CALIF EDISCN CG CUTHERN CC CUTHERN CC	0.537 0.382 0.504 0.371	C.162 C.143 C.175 C.180	0.183 0.125 0.175 0.183	0.173 0.120 0.189 0.208	0.153 0.123 0.161 0.218	0.119 0.109 0.121	0.115 C.C99 0.112 0.123 0.210	0.078 0.111 0.132 0.213	0.197 0.197 0.297 0.246	C.137 C.123 C.175	C.118 J.127 C.131 O.190	0.132 J.129 C.146 0.203
DUTHWESTERN PUELIC'SERV'CO AMPA ELECTRIC CO EXAS UTILITES CC ULEDU EDISON COMPANY	0.374 0.773 0.418	C.199 C.228 C.257 C.247	0.219 C.203 0.265 0.257	0.23C 0.198 0.277 0.250	0.238 0.18C 0.261 0.221	C.212 0.239 0.118 C.225 0.202	0.209 0.179 0.233 0.202	0.213	J.24E 0.105 U.157 U.117	C.225 C.217 C.179 C.177 C.167	C.245 U.177 C.186 J.147	0.226 0.174 0.229 0.199
LEN ELECTRIC CC	0.400 0.412 0.440 0.344	C.171 C.205 C.168 C.153	0.163 0.186 0.184 0.151	C.164 C.203 C.157 O.138	0.167 C.174 0.123 0.129	C.11C 0.107 0.121 0.127	0.213 0.213 0.176 0.143	0.110 0.118 0.175 0.115	0.086 0.145 0.046 0.096	C.156 C.111 C.115	0.187 0.102 <u>0.182</u> 0.172	C.140 U.156 0.147 0.135
TAH POWER & LIGHT TRGINIA ELECTRIC & POWER KIZONA PUBLIC SERVICE CO ALTIACRE GAS & ELECTRIC ENTRAL HIDSON CAS E ELEC	0.617 0.491 0.420 0.490	C.193 C.102 C.17C	0.189 0.120 0.247 0.171	0.175 0.134	0.150 0.143 0.196	0.114 0.124 0.173	0.106 0.124 0.183	0.111	0.072 0.105 0.048 0.068	C.125 C.12C C.146 C.123	0.124 0.117 0.140 0.154	0.135 0.125
ENTRAL HUDSON GAS & ELEC ENTRAL ILLINCIS LIGHT ENTRAL ILL PUBLIC SERVICE LACINNATICAS & ELECTIC UNSOLICATED EDISCN CF N.Y.	0.487 0.567 0.284 0.302	C.187 C.245 C.255 C.099	0.186 0.245 0.258 0.102	0.152 0.192 0.238 0.246	0.089 0.203 0.208 0.214 0.059	0.163 0.187 C.198 0.184 0.184 0.65	C.175 0.153 C.201	0.142 0.141 0.145 0.145 0.145 0.169 0.072	0.112	C.136 C.111 C.159 C.127 C.130	0.153 0.145 0.125 0.150	0.165 0.189 0.193
CNSUMERS POWER CC AYION POWER & LIGHT LIMARYA POWER & LIGHT LITCHBURG GAS & ELEC LIGHT	0.711 0.479 0.479 0.387	C.198 C.277	0,186	C.09C 0.17G 0.212 C.154	0.059 0.157 0.161 0.161	0.121 0.154 3 0.112	0.115 0.142 0.125 0.125	0.107 0.103 0.099	0.055 0.055 0.055 0.055 0.055 0.071	C.114 C.166 C.115	0.150 0.160 0.141	0.137 0.171 0.143 0.119
LLINCIS POWER CELLE LIGHT NTERSTATE POWER CC CHA ELECIBIC LIGHT PHE CWA-ILLINDIS GAS & ELEC	0.497 0.436 0.713 0.734	C.133 C.274 C.204 <u>C.176</u> C.215	0.151 0.274 0.201 1.174	0.126 0.270 0.209 0.167 0.196	0.116 0.244 0.189 <u>0.156</u> 0.157	0.186 0.190 0.120 0.120	0.165 0.193 0.193 0.214	0.164 0.194 0.130 0.155	0.143	C.179 C.179 C.179 C.116 C.181	0.151 0.156 0.187	0.205 0.190 0.140 0.180
UWA POWER & LIGHT OWA PUBLIC SERVICE CC OWA SOUTHERN HITLITIES CO	0.353 0.304 0.571 0.281	C.208 C.200 C.222 C.190	0.207 0.202 0.213 0.230 0.202	C.19C 0.197 0.245 0.211	0.145 0.169 0.230 0.217	C.16C 0.188 	C.150 0.147 0.222 0.194	0.185 0.139 0.136 0.185	U.154 0.153 0.171. U.148	C.180 C.180 C.160 C.160	0.178 0.168 0.163 0.151	0.177 0.175 0.266 0.187
ANSAS POWER & LIGFT AKE SUPERIOR CIST FLWER CC UNG ISLAND LIGHTING CULSVILLE CAS & ELECTRIC DULSVILLE CAS & ELECTRIC DULSVILLE CAS & ELECTRIC	0.315 0.530 0.436 0.367	C.149 C.178	0.169 0.171 0.263 0.122	0.140 0.188 0.247 0.140	0.124 0.168 <u>0.24C</u> 0.117	0.147 C.167 C.123 C.128	C.174 0.143 0.198 C.119	0.155 0.129 0.183 0.160	0.15 0.115 0.15 0.13E	C.175 C.146 C.155 C.157	0.141 0.154 0.154 0.171	0.153 0.156 0.216 0.141
ADISON GAS & ELECTRIC CU ISSCURT PUBLIC SERVICE CG ONTANA PCWER CC EM ENGLAND GAS & ELECTRIC EW YORK STATE ELEC & GAS	0.631	C.118 C.215 C.200 C.178 C.178	0.194 0.190 0.165	0.194 0.221	0.201 0.213	0.161 0.203 <u>0.158</u>	0.186 0.194	0.144 0.187	0.173	C.15C C.139 C.114 C.114	0.216 0.094 <u></u>	0.187 0.179 0.146 0.131
EW YORK STATE ELEC & GAS IAGARA MCHAWK PCKER ORTHERN INDIANA PLELIC SERV ORTHERN STATES PLEE ORTHWESTERN PUELIC SERV CO	0.534 0.490 0.337 0.477 0.392	C.153 C.247 C.199 C.176	0.115 0.241 0.202 0.173	0.14C 0.115 0.231 0.157 0.181	0.120 0.094 0.240 0.179 0.179	0.10C 0.197 <u>0.176</u> 0.208	C.117 G.120 G.200 D.190 O.196	0.123 0.074 0.181 0.151 0.157	0.124 0.051 0.136 0.144 0.137	C.130 C.164 <u>C.162</u> C.167	0.191 0.191 0.168	0.109 0.203 0.192 0.169
RANGE & ROCKLAND UTILITIES ACIFIC GAS & ELECTRIC A <u>CIFIC PC#ER & LIGET</u> HIADELPHIA ELECTRIC CD	0.637 0.240 0.437 0.438	C.177 C.161 C.108 C.175	0.169 0.158 0.113 0.154	C.139 0.154 C.114 0.143	0.192 0.158 0.131 0.112 0.113	C.050 0.145 C.137 0.137	0.082 0.142 0.142 0.142 0.134	0.108 0.135 0.125 0.125	0.082 0.120 0.114	C.147 C.C86 C.112 C.127	C.169 0.090 <u>7.117</u> C.130	0.128 0.133 0.117 0.135
UBLIC SERVICE CC CF CCLO UBLIC SERVICE ELEC & GAS CCHESTER GAS & ELECTRIC JOSEPH LIGHT & FEWER	0.365 0.609 0.609 0.599	C.158 C.159 C.179 C.179	0.165 0.160 0.143 0.209	0.161 0.142 0.129 0.175	0.150 0.104 0.105 0.187	0.128 0.130	· 0.134 U.089 	0.129 0.083 0.151 0.158	0.094 0.103 0.287 C.148	C.159 C.120 C.154 C.154	0.141 0.161 0.151	0.142 0.125 0.125 0.126 0.126
AN DIEGO GAS & ELECTRIC IERRA PACIFIC POWEF CO CUIH CARCLINA ELEC COSS GUTHERN INDIANA GAS & ELEC	0.511	C.165 0.114 <u>C.194</u> C.218	0.169 0.113 0.206 0.231	0.178 0.104 0.130 0.232	0.147 U.103 C.135 0.227	C.129 C.11C <u>C.1C6</u> O.214	0.090 0.121 0.115 0.236	0.126	0.11C 0.12E 0.19F 0.197	C.118 C.118 C.158	0.125 0.163 0.144 0.213	0.124 0.120 0.145 0.220
UCSEN GAS & ELECTRIC ASHINGTEN WATER FEVER ISCONSIN ELECTRIC FEVER	0.445 0.532 0.292 0.140 0.419	C.18C C.135 C.137	0.179 0.156	0.183 0.156 0.170	C.185 0.146 0.146	C.144 C.144 C.158 O.177	.0.139 C.137 J.209 C.178	0.122 0.137 0.137 0.180	0.063	C.159 C.149 C.153	0.166	0.152 0.147 0.185
ISCENSIN PEWER & LIGHT ISCENSIN PUBLIC SERVICE GONTANA-DAKOTA LTILITIES	0.419 0.291 0.262	C.225 C.232 C.150	0.234 0.213 0.167	0.224 0.196 0.170	0.213 G.199 0.174	C.154 C.16C	0.185 0.156	0.194 0.119	0.163 0.183 0.125	C.233 C.248 C.153	0.264 G.295 J.179	0.209 0.210 0.156

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9.	2009 4850-01675-0175-0175-0175-0457-047	R		E NO.14 TURN MEA	SURE 4	ayat ayan yu ana bu ku yachar di ku Soliku y	***********	LUBPRICI, ve a motion or expansion en	n a stand a sta N			999 - 11 - 14 - 14 - 14 - 14 - 14 - 14 -
ССМРАКУ НАРЕ	RISK	1967	1968	1969	1970	1971	1972	1973	1974	1575	1976	AVERAGE
ALLEGAENY POLER SYSTEM American Electric Foker Atlantic City Electric	0.525 0.516 0.555	C.191 C.173 C.187	0.177 0.157 C.188	<u>C.151</u> 0.118 0.166	0.127 0.089 0.110	0.11C 0.073 C.C78	<u>1 124</u> J.C67 J.101	0.144 0.105 0.158	0.12£ 0.043 0.217	C .23C C .237 C .237	0.258 C.248 C.323	1.164 U.131 C.182
BANGOR HYCRO-ELÉC CC BLACK HILLS POLER ELIGHT CO BRASCAN EDISON CC BRASCAN ETD-CL A CAROLINA POWER & LIGHT CAROLINA POWER & LIGHT	0.524 0.525 0.614 0.609	C.210 C.143 C.156 C.C68 C.173 C.212	U.188 D.143 U.157 U.068 U.187 0.223	0.165 0.133 0.065 0.151	0.128 0.095 C.C65 0.C52 0.213	C.111 0.171 C.C43 C.C73 C.C73 0.076	J. 169 J. C13 J. C72 J. 213	0.102 0.179 0.078 0.056 0.098	0.124 0.22 0.103 0.061	C • 15) C • 157 C • 131 C • 131 C • 131	0.081 0.114 0.047 0.654	J.14/ 0.191 J.102 0.005 <u>5.005</u> 1.222
LENTRAL MAINE POWER CO Sentral Vermont pue Serv Leveland Electric Illum Luumsus e Southern Chic	0.388 0.310 0.766 0.384 0.603	C.212 C.191 C.158 G.224 C.194	0.223 0.185 0.111 0.225 0.151	0.172 0.077 0.198 0.156	0.166 0.03C 0.164 0.03C 0.164 0.099	0.139 0.139 0.018 0.154 0.065	0.213 0.174 0.059 0.144 0.068	0.156 -0.008 J.168 U.123	0.123 0.074 0.074 0.436 0.041	C.155 C.155 C.145 G.873 C.899	<u>المحالة</u> C.142 C.161 <u>ك.161</u> منطقة D.156	7.222 0.164 0.153 0.225 0.225
LCHMONWEALTH EDISCN Commonity Public Service Common Electric CC <u>Hetrcit Episcn CC</u>	0.307 0.435 0.000 0.714 0.612	C.212 C.158 C.C97 C.149 C.204	0.203 0.173 0.136 0.141 0.191	U.172 0.136 0.127 0.142 0.146	0.136 0.184 0.119 0.054 0.038	0,106 0,165 0,120 0,040	0.126 0.200 0.138 <u>0.78</u> 0.017	0.154 0.192 0.105 0.085 0.085	0.102 0.143 0.137 0.080	C.188 C.151 C.223 C.C75	0.223 0.186 0.187 0.364 0.429	0.168 0.176 C.139 J.102 0.160
DUQUESNE LIGHT CC EASTERN UTILITIES ASSCC EDISON SALLT ELECTRIC A PASA ELECTRIC CC	0.504 0.761 0.000 0.358	C.231 C.204 C.226 C.228	0.222 0.180 0.224 0.230	0.174 0.136 0.152 0.243 0.172	0.103 0.110 0.159 0.226	C.139 G.139 O.129 U.213	0.116 0.151 <u>0.136</u> 0.219	0.150 0.034 <u>0.163</u> 0.219	0.21C 0.276 0.076 0.202 0.27C	C . 151 C . 127 C . 127	0.184 1.132 <u>- 0.116</u> 0.225	0.197 0.236 0.232 0.232
IPITE LOPIDA PCKER & LIGH LOPIDA PCKER CCPP ENERAL PLOLIC UTLITIES REEN MCUNIAL PCKE CCPP	0.326 0.575 <u>0.636</u> 0.629 1.063	C.187 C.187 C.189 C.12C C.155	0.215 0.203 0.102 0.102 0.126	0.172 0.194 0.192 0.059 0.059	C.186 C.171 C.169 O.C39 C.055	0.169 0.155 <u>0.144</u> 0.063 -0.045	0.160 C.124 0.133 J.C75 C.C35	U.152 U.193 <u>U.155</u> U.049 U.049	U.145 U.222 G.161 U.177 U.142 J.253	C.158 C.445 C.445 C.155 C.163	0.171 0.212 0.434 0.297 0.175	0.174 0.236 <u>0.212</u> 0.123 0.095
BULF STATES UTILITIES CC ILWAILIAN ELECTRIC (C INDIANAPOLIS PCWER & LIGHT (ANSAS CITY POWER & LIGHT (ANSAS CITY POWER & LIGHT (ANSAS CITY POWER & LIGHT	0.434 <u>0.477</u> 0.363 0.694	C.207 C.140 O.113 C.231 C.177 C.210	0.201 0.156 0.147 0.225	0.183 0.157 0.159 0.210	0.159 0.137 0.169 0.204 0.148	0.144 <u>C.128</u> C.178 0.192 0.140	0.156 0.118 0.164 0.205	0.101 0.132 0.170 0.155 0.155 0.125	0.152 0.172 0.172 0.172	C.146 C.146 C.113 C.129 C.198 C.198	C.233 C.155 C.155 C.711 J.259 L.111	0.203 0.143 0.153 0.267 0.167
CANGAS GAS S SPECTERS KENTUCKY UTILITIES CC MAINE PUBLIC SERVICES MIDDLE SOUTH UTILITIES ALNNESCIA POWERS LIGHT	0.431 0.455 0.455 0.491 0.417	C.203 C.143 C.156	0.171 0.220 0.201 0.133 0.175	0.196 0.196 0.153 0.183	0.155 0.155 0.153 0.168	<u> </u>	0.121 0.120 0.129 0.136 0.144	U.152 U.152 U.171 U.158	0.146 0.146 0.195 0.207	C.23L C.157 C.2C4	0.214 0.131 0.368	0.284
NEW ENGLAND ELECTRIC SYSTEM NORTHEAST UTILITIES UHID EDISCN CF	0.330 0.650 0.533 0.582 0.432	C.155 C.153 C.164 C.23C	0.190 0.152 0.133 0.138 0.138	0.178 0.146 0.108 0.116 0.218	C.157 C.1C3 D.117 C.046 C.173	C.146 C.104 O.120 C.C68 C.136	C.107 C.129 C.143 C.C81 C.281	0.124 0.126 0.140 0.076 0.144	0.157 0.152 0.139 0.344	C.22: C.193 C.C85 C.C85	0.147 J.205 J.143 J.143	0.146 0.146 0.103 0.206
INLAHUMA GAS & ELECTRIC DTTER TAIL POWER CC PENNSYLVANIA POWER & LIGHT <u>Portiano celectric co</u> Potimac electric cole	0.342 0.281 0.441 <u>0.444</u> 0.460	C.22C C.171 C.131 C.120 C.144	C.218 0.151 0.158 0.117 0.133	0.248 0.166 0.130 0.135 0.095	0.242 0.172 0.068 0.115 0.094	C.226 O.206 O.084 <u>C.142</u> C.095	0.218 0.186 C.120 0.116 C.127	1.244 1.278 1.107 1.134 1.134	0.251 4.234 0.325 <u>8.355</u>	C.168	0.267 0.212 0.391 1.615 0.259	0.239 0.614 0.199 <u>0.168</u> 0.168
PUBLIC SERVICE CO EF IND PUBLIC SERVICE CO EF N H DUBLIC SERVICE CO EF N H	0.423 0.564 <u>0.592</u> 0.476	C.203 C.147 <u>C.205</u> C.090	0.214 0.173 0.186 0.094	0.204 C.131 0.181 0.387	0.187 0.146 0.185 0.080	C. 095 0.152 C.1C4 C.164 U.C85	0.183 C.C92 <u>0.171</u> 0.105	0.103 0.240 0.094 0.103 0.107	0.337 0.127 0.170	C.257 C.155 <u>C.274</u> C.216	0.1326 0.134 0.285 0.176 0.191	0.233 0.144 0.201 0.126
DIGET SCUND POWER & LIGHT SVANNAH ELEC & POWER SVIHERN CALIF EDISCN CC SVIHERN CC SVIHERN CC SVIHWESTERN ELEC SERVICE SVIHWESTERN PLELIC SERVICO	0.537 0.382 0.374 0.374 0.374 0.773	C.16C C.136 C.167 C.178 C.178 C.194	0.181 0.115 0.171 0.181 0.205	0.162 0.103 0.175 0.207 0.227	C.127 G.108 U.142 G.217 G.23C	C.075 O.096 O.095 C.21C G.226	0.066 0.106 0.038 0.209 0.209	0.055 0.118 0.211 0.211 0.234	0.14C 0.255 0.105 0.205 0.205 0.305	C.1279 C.1628 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1228 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.1238 C.	0.183 0.280 0.189 0.333	0.144 0.135 0.191 0.202 0.248
TAMPA ELECTRIC CC TEXAS UTLITIES CC TELEDO EDISCN CEMPANY JNION ELECTRIC CC JVITED ILLUMINATINC CC HPDER PESINSULA PEVER	0.773 0.199 0.418 0.400 0.412	C.210 C.252 C.257 C.154 C.154	0.154 <u>0.258</u> 0.244 0.148 0.154	C.176 C.266 O.243 O.138 C.201 C.201	0.149 0.246 C.210 C.134 0.173	C.1C9 C.208 C.176 C.C81 O.104	C.160 0.215 C.164 C.C59 C.202	0.175 <u>0.227</u> 0.319 0.107	0.302 0.125 0.125 4.741 0.103 2.526	C.255 C.265 C.257 C.257	C.229 C.415 L.415 D.321 O.321 O.112	0.182 0.261 3.0050.228 0.150 0.394
IPPER PELIKSULA PICEE TAH POWER & LIGHT /IRGINIA ELECTPIC & POWER RIZUNA PULLIC SEPVICE CO RIZUNA PULLIC SEPVICE CO RALLIMORE GAS & ELECTRIC	0.344 0.344 0.617 0.491 0.491	C.182 C.165 C.149 C.185 C.098 C.098	0.141 0.141 0.175 0.104	0.135 0.135 0.149 0.122 0.223	G.121 0.114 C.1C8 0.139 C.174	0.106 C.C55 C.115 C.115	0.174 0.131 0.033 0.106 0.055	0.146 0.172 J.125 0.086 J.149 J.120	0.105 0.105 0.054 0.164	C.114 C.152 C.381 C.374 C.492	0.185 0.291 0.515 0.284	0.146 0.145 0.175 0.166 0.368
ENTRAL HUDSCN GAS E ELEC ENTRAL ILLIMCIS LIGHT ENTRAL ILLIMCIS LIGHT INCINANTI GAS E FIFTRIC ENSOLICATED EDISCN OF N.Y.	0.480 0.487 0.567 0.244	C.151 C.174 C.242 C.249	0.165 0.177 0.243 0.245	0.146 0.187 0.235 0.225	0.075 0.191 0.197 0.197	C.134 G.158 C.171 C.157	C.138 O.153 O.132 D.172	0.169 0.163 0.149	1.24C G.C6C O.196 O.175 D.192	C • 161 C • 176 C • 234 C • 177	0.184 0.251 0.251 0.251 0.184	0.138 0.201 0.203 0.203
JONSUMERS POWER CC JAYTON POWER & LICHT DELMARVA COVER & LICHT	0.302 0.711 0.479 <u>0.472</u> 0.397	C.094 C.193 C.269 <u>C.201</u>	0.091 0.178 0.218 0.206 0.149	0.077 0.158 0.186 0.175 0.125	0.041 0.136 0.132 <u>0.111</u> 0.114	0.047 C.095 C.135 <u>0.095</u> 0.111	0.036 0.037 0.121 0.079 0.119	0.063 0.101 0.103 0.112 0.096	0.122 0.055 0.118 0.180 0.067	C.143 C.149 C.249 <u>C.1C6</u> C.111	0.169 0.206 0.254 0.089 0.150	0.098 9.136 0.178 <u>0.134</u> 0.117
ITCHBURG GAS C ELEC LIGHT LLINGIS POWER CCC NTERSTATE POWER CC GWA - LLINCIS GAS C ELEC	0.497 0.435 0.713 0.734	C.131 C.270 C.190 C.160 C.205	0.149 0.265 0.198 0.166 0.190	0.248 0.207 0.164 0.162	0.223 0.184 <u>0.143</u> 0.115	0.173 0.185 <u>0.055</u> 0.082	C.190 C.190 O.180	0.168 0.203 0.100 0.163	0.191 0.213 -0.022 0.181	C.225 C.283 C.118 C.196	C.197 0.538 -0-148 0.211	0.209 0.239 0.118 0.169
CWA POWER & LIGHT OWA PUBLIC SERVICE CC OWA SAUTEERN UILLILLES CC ANSAS POWER & LIGHT AKE SUPERIOR CIST FOWER CO CNG ISLAND LIGHTING CUISYILLE GAS & FISCIRIC CUISYILLE GAS & FISCIRIC	0.353 0.304 0.571 0.281 0.281 0.281	C.205 C.199 C.206 C.187 C.187 C.149	0.195 0.210 0.214 0.20C 0.165	C.181 0.185 0.243 0.204 C.135	0.139 0.154 <u>C.228</u> 0.198 C.123	0.159 0.162 0.217 0.199 0.147	C.148 0.128 0.218 0.154 C.170	0.212 0.144 0.204 0.137 0.137 0.131	G.147 0.131 0.144 0.144 0.200	C.2C3 C.2C3 C.174 C.185	0.247 0.206 0.175 0.232 0.147	0.191 0.179 0.192 0.192 C.163
ISSOURI FUBLIC SERVICE CO	0.530 <u>1.435</u> 0.367 0.631	C.166 C.115 C.184 C.195	0.162 0.263 0.119 0.126 0.183	0.181 0.267 0.131 0.129 0.218	0.152 C.24C C.1CO C.152 C.213	0.143 <u>C.223</u> C.C38 C.153 C.201	0.118 0.198 0.070 0.175 0.191	0.142 0.217 0.221 0.142 0.142 0.195	0.202 D.185 D.705 0.182 0.184	C.263 C.261 C.2C0 C.2C3 C.2C3 C.164	53,320 1,333 3,221 0,226 0,226 0,096	C.123 0.197 5.223 0.197 1.244 0.207 0.171 0.184
40NTANA PEWER CC LEW ENGLAND GAS C ELECTPIC VEW YURK STATE ELEC & GAS Ilagara McHawk PGWEP WORTHERN INDIANA PLELIC SERV WORTHERN STATES PCWER	0.311 0.534 0.490 0.337 0.477	C.195 C.149 C.172 C.140 C.140 C.237	0.183 0.149 0.095 0.230 0.167	0.139 0.109 0.093 0.224 0.173	0.105 0.105 0.077 0.23C 0.147	0.145 C.C87 O.C85 O.188	0.135 0.109 0.096 0.179 0.143	0.133 0.129 0.063 0.216 0.133	0.154 0.154 0.111 0.223 0.186	C.139 C.152 C.181 C.267 C.291	0.232 0.232 0.122 0.254 0.254	0.147 0.140 0.107 0.225 0.154
NORTHWESTERN PUBLIC SERV CO DRANGE & ROCKLAND UTILITIES PACIFIC GAS & ELECTFIC	0.392 0.637 0.240 0.487	C.174 C.174 C.171 C.149 C.106	U.17C 0.148 C.151 0.109	0.179 0.122 0.147 0.169	0.189 0.141 0.119 0.053	C.133 C.2CC O.C2C O.133 C.103	0.175 0.C48 C.120 0.L07	0.240 0.112 0.138 0.132	1.457 0.091 0.154 0.111	C.155 C.155 C.C58 C.135	0.206 0.183 0.108 0.108 0.146	0.337 0.119 0.132 0.115
PHILADELPHIA ELECTRIC CC PUBLIC SERVICE CO CF CCLO PUBLIC SERVICE ELEC E GAS <u>ACCHESTER GAS E FIETRIC</u> ST JOSEPH I CHT E FIER	0.439 0.365 0.609 0.606 0.599	C.166 C.149 C.152 C.159 C.159 C.168	0.146 0.152 0.149 <u>0.122</u> 0.190	0.130 0.157 0.130 0.291 0.160	0.036 C.139 C.C91 <u>0.089</u> C.184	0.095 0.110 0.096 0.104 0.219	0.086 0.108 0.049 0.109 0.195	0.135 0.118 0.058 0.159 0.170	0.103 0.120 0.146 0.092 0.192	C.2C3 C.219 C.182 C.182 C.14C C.192	0.344 0.191 0.316 <u>0.160</u> 0.159	G.180 U.146 U.136 U.122 U.127
SAN DIEGC GAS & ELECTRIC Sierra pacific fowef co Scuth carclina <u>elec r gas</u> Scuthern Indiana gas & elec	0.511 0.502 0.341 0.445	C.162 C.105 C.186 C.217	0.166 0.098 0.197 0.228	0.174 0.100 0.157 0.218	C.142 O.C93 C.C98 O.209	0.117 0.095 <u>0.078</u> 0.197	0.030 0.114 0.199	0.132 0.132 0.133 0.222	U.192 0.125 0.127 0.124 0.205	C.C23 C.119 C.256 C.210	0.213 0.173 0.361 0.240	0.127 0.116 0.163 0.215
TUCSON GAS & ELECTFIC WASHINGTON WATER FCWER WISCONSIN FLECTRIC FCWER WISCONSIN POWER & LIGHT WISCONSIN POWER & LIGHT WISCONSIN PUBLIC SEFVICE	0.532 0.232 0.140 0.419 0.291	C.169 C.135 C.187 C.223 C.229	0.172 0.151 0.226 0.223	0.17C 0.152 0.155 0.2CC 0.174	0.176 0.139 <u>0.123</u> 0.195 0.195 0.195	0.124 0.131 0.144 0.147 0.147 0.147	0.097 0.120 0.138 0.138 0.145	0.118 0.137 0.242 0.256 J.259	-0.372 0.145 0.217 0.327 0.327 0.348	C.255 C.153 C.229 C.329 C.325	C.3C4 J.185 O.218 U.340 C.344	0.155 0.145 <u>0.165</u> 0.236 0.232
MONTANA-DAKOTA LTILITIES	0.262	Č.149	0.165	0.170	0.17C	ð.157	0.150	5.110	0.112	C.142	0.176	0.150

ĦĸĊĊŢġŎŎŎġŎĸŎġŎŢġŎĬĸŎĸŦĸĸĊŊŊĸĸŦĊŎŹŹ <u>ĬĊĊĸĸĸŦŢŊ</u> ŎŎĸŗŢIJŢŶĊŖĬŎĬĬŎĬŎŎŎŎĔŢĸĬĬŦĿĿŎĿŦŢġŢŊŊŎŦŦĬ	34579687222264434497949797942554	manana da akin kung tang	TABL	E NC-1.5	and any constraint of the constraint form	Mala des (Mala Mala Mala Mala Mala Mala Mala Mal	anny an ann an ann an ann an ann an ann an	n na sea ann an 1930 anns an seann an 1930 anns an 1930 ann	an pangan di bangangan ter	HQATTARIA ANTIN'NY SILATAN'I GAN		angSolotion and address constant films
е полантически и полантически полантически и полантически полантически полантически полантически полантически пол по е за до до до до у у у у у у у у у у у у у у	a	interview of the second se	Ninalant Intering Option for Cale	TURN MEA							-	
CCMPANY NAME	RISK	1967	1968	1969	1970	1971	1972	1973	1574	1975	1976	AVERAGE
LEGHENY POWER SYSTEM	0.525	<u>(151</u>	0.177	0.151	0-127	<u></u>	0.124		0.113	<u> </u>	<u> </u>	0.154
HERICAN ELECTRIC POWER ILANTIC CITY ELECTRIC NGCR HYGRG-ELEC CC JCK HILLS POWER F LIGHT CC	0.516 0.555 0.524 0.429	C.173 C.137 C.210 C.143	0.157 0.188 0.188 0.188	0.118 0.160 0.165 0.122	0.089 0.11C 0.128 0.122	0.073 C.C78 C.111 0.171	0.067 0.101 0.169 0.170	0.065 0.095 0.100 0.172	0.013 0.081 0.120 0.175	C.C94 C.160 C.173	0.133 C.170 0.067	0.099 0.133 0.143 0.153
STON EDISON CC ASCAN LTD-CL A ROLINA PCWER & LIGHT NTRAL & SOUTH WEST CORP	0.525 0.614 0.609	G.156 G.G68 C.173 C.212	0.157 0.068 0.187	0.133 0.065 0.151	C.C85 0.C65 0.052 0.213	C.C48 C.C73 O.C76	0.018 0.072 0.121	0.068 0.086 0.054 0.217	0.06E 0.061 -0.01C 0.2C5	C.C98 C.C43 C.122 C.198	0.099 0.047 0.193	0.093 0.065 0.112
NIRAL & SOUTH WEST CORP NIRAL WAINE POWEF CO NIRAL VERMONT PLE SERV EVELAND ELECTRIC ILLUM LUMPUS & SOUTHERN FEIC	0.398 0.310 0.766 0.384	C.191 C.191 C.158 C.224 C.194	0.223 0.165 0.111 0.225 0.181	0.234 0.172 0.077 0.198 0.156	0.213 0.166 C.C3C C.164	C.155 C.135 D.018 O.154	0.213 0.174 0.059 0.144	0.153 -0.008 0.132	0.209 0.116 0.069 0.176 0.224	C.133 C.133 C.133 C.133 C.118	0.133 0.137 0.137 0.122	0.156 0.079 0.166
DEUMEUS E SOUTFERN CFIC MMONWEALTH EDISCN JMEUNITY PUBLIC SERVICE INCORD ELECTRIC CC	0.307 0.307 0.435 0.000	C.212 C.158	0.203	0.172 0.172 0.136 0.127	0.136 0.136 0.184 0.119	0.1069 0.100 0.135 0.120 0.120 0.120	0.126 0.200	0-106 0-137 0-151	0.127	C.141 C.15G	0.142 0.179	0.121 0.150 0.175
TROLL EFISIN CC IROLL EFISIN CC IQUESNE LIGHT CC	0.714 0.612 0.504	C.097 C.149 C.204 C.231 C.204	0.136 0.141 0.191 0.222	0.142	0.034 0.038 0.103	0.040	0.139 0.028 0.017 0.116	0.102 0.047 0.047 0.107	0.132 0.072 0.114	C.219 C.126 C.126 C.146	0.186 0.181 0.181 0.181 0.106 0.199	0.138 <u>0.106</u> 0.106 0.146
IPOLL ECISUS CC IQUESNE LIGHT CC IQUESNE LIGHT CC STERN UTILITIES ASSCC ISSON SALT ELECTRIC PASO ELECTRIC CC IPIRE DISTRICT ELECTRIC CO ORIOA PCWER & LICHT IDIOA PCWER CLED INERAL PUBLIC UTILITIES	0.751	C.204 C.228 C.228 C.207	0.180 C.230 D.215 C.233	0.136	C.11C 0.155 C.226 0.186	0.135 0.129 0.213	0.151 0.156 0.219 0.160	0.026 0.166 0.213	0.036	C.150 C.150 C.156 C.156 C.221	0.193	0.122 0.167 0.215 0.173
NERAL PUBLIC LILITIES	0.326 0.575 0.636 0.629	6.187	0.102	0.194 0.192 0.059 0.095	0.171 0.165 0.039	0,169 0,155 0,144 0,063	0.124 0.133 0.075	0.151 0.163 0.094 0.067	0.20é 0.147 0.120 0.014 0.014 0.080	<u> </u>	2.166 0.108 0.157 0.133	0.165 <u>0.143</u> 0.084
NERAL PUBLIC LITLITIES EEN MCUNTAIN FCWEF CORP JLF STATES UTILITIES CC WAITAN ELECTRIC (F NHO PCWER CC	1.063 0.484 <u>0.477</u> 0.363	C.12C C.155 C.207 C.14C C.113	0.126 0.201 0.156 0.147	0.095 0.183 0.157 0.157 0.159	C.C55 0.159 C.137 C.169	-0,045 0,144 0,128 0,178	0.C39 0.156 0.118 0.164	0.048 0.159 0.123 0.129	0.134 0.174 0.172 0.122 0.117	C.157 C.143 C.143 C.112	0.167 0.133 0.152	J.J93 0.166 J.143
DAHO POWER CO NDIANAPOLIS ROMER & LIGHT ANSAS CITY POWEP & LIGHT ANSAS CAS & FLECTEIC NYLOCY I THITTEEC	0.694 0.481 0.558	C.113 C.231 C.177 C.21C	0.225 0.171 0.220	0.210 0.165	C.148 C.199	C.192 0.140 0.158	0.209 0.121 C.120	0.176 0.121 0.119	0.131 0.145 0.145	C.156 C.147 <u>C.165</u>	0.143 0.171 0.151 0.151	0.190 0.149 0.174
NTUCKY UTILLTIES CC AINE PUBLIC SEFVICE DDLE SCUTH UTILLTIES INMESOIL POWER & LIGHT	C.465 0.491 0.417 0.390	C.143 C.143 C.156 C.166	0.201 0.133 0.175 0.140	C.196 O.153 O.183 C.179	0.155 0.153 0.168 <u>0.157</u>	0.141 0.123 0.148 0.148	0.129 0.136 0.144 0.107	0.142 J.171 0.144 0.125	0.107 0.199 0.103 0.149	(.169 (.157 (.100 (.157	0.148 0.131 0.112 0.183	0.161 0.155 0.143 0.160
EVADA POWER CC EW ENGLAND ELECTRIC SYSTEM DRIHEAST UTILITIES HD EDLSCN CC	0.650 0.533 0.532 0.432	C.143 C.153 C.164 C.23C	0.152 0.133 0.138	0,146 0.108 0.116 0.218	C.103 0.117 0.C46 C.173	G.104 0.12C 0.C69 0.116	0.129 0.143 0.081	0.113 0.113 0.075 0.140	0.033 0.116 0.064 0.064	-C.C36 C.171 C.C51 C.C51	0.058	0.092 0.135 0.091
KLAHUMA GAS & ELECTRIC ITER TAIL POWER CC ENNSYLVANIA POWER & LIGHT IRTIANG CENERAL ELECTRIC CO	0.342 0.281 0.441	C.22C C.171 C.181	0.213 0.151 0.158	0.248 0.166 0.130	C.242 O.172 O.C68 C.115	0.226 0.206 C.C34	0.218 0.186 0.120	0.224 0.179 0.140	U.195 U.123 U.173 U.173	(.175 (.159 (.150	0.136 0.189 0.122	0.210 0.170 0.133
INTIANU CENERAL ELECTRIC CO JOCMAG ELECTRIC PONER JBLIC SERVICE CO CE IND IBLIC SERVICE CO CE N H JALIC SERVICE CO CE N MEX	0.460 0.460 0.423 0.564	C.120 C.144 C.203 C.147	0.117 0.133 0.214 0.173	0.135 0.095 0.204 0.181	0.094 0.187	0.142 0.095 0.152 0.104	0.116 C.127 U.183 U.092	<u>0.152</u> 0.152 0.206 0.067	0.055 0.175 0.200 0.037	<u>C.C83</u> C.C83 C.188 C.164	0.124 0.189 0.239 0.126	0.110 0.130 0.198 0.129
IALIC SERVICE CO CE N MEX JGET SCUND POWER & LIGHT AVANNAH ELEC & PCWER DUIHERN GALIF EDISCN CC	0.592 0.476 0.537	<u> </u>	0.186 0.094 0.181 J.115	0.181 0.087 0.162	0.146 0.135 C.C80 0.127 0.108	<u> </u>	<u> 0.171 </u> C.105 C.C66	0.173 0.098 0.046	0.142 0.146 0.055 0.207	$\frac{C \cdot 172}{C \cdot 122}$ C \cdot 122 C \cdot 1C3	0.125 U.128 U.084	<u> </u>
OUTHERN CO OUTHWESTERN ELEC SERVICE OUTHWESTERN PUBLIC SERV CO	0.382 0.504 0.371 0.374	C.136 C.167 C.178 C.194	0.171 0.181 0.209	0.103 0.175 0.207 0.227	C.142 C.217 C.23C	0.096 0.095 0.210 0.226),106 0,088 0,209 0,206	0.109 0.102 0.211 0.211	0.032	C.121 C.163 C.2C3 C.222	0.120 0.106 0.183 0.237	0.122 0.124 0.201 C.222
AMPA ELECTRIC CC "XAS UTLITIES CC JLEDO EDISCN CCMPANY NIUN ELECTRIC CC	0.773	C.194 C.21C C.252 C.237 C.154	·0.194 <u>-0.258</u> 0.244	0.176 0.266 0.243	0.149 <u>0.246</u> 0.210	0.226 0.109 <u>0.208</u> 0.176	C.16C 0.216	0.158 0.206 0.135	0.252 0.086 0.200 0.347	C.181 C.179 C.133 C.133 C.141		0.161
NITED ILLUMINATING CC	0.400 0.412 0.440 0.344	C.182 C.165 C.149	0.148 0.154 0.162 0.141	0.138 0.201 0.156 0.135	0.134 0.173 C.121 C.114	0.Cal 0.104 0.115 C.106	C.C59 0.202 0.174 0.131	0.095 0.096 0.170 0.100	0.07C 0.105 0.03C	$\frac{0.074}{0.106}$	0.198 0.090 0.160 0.159	0.122 0.133 0.144 0.123
TAH PORER & LIGHT IRGINIA ELECTRIC & POWER FIZONA PUBLIC SERVICE CO ALTIVERS GAS & ELECTRIC ENTRAL DI SERVICE GLEC	0.617 0.491 0.420 0.480	C.139 C.098	0.175 0.104 0.243 0.165	0.149 0.122 0.223 0.146	0.108 0.139 0.174 0.075	0.055 0.115 0.133	0.033 0.106 0.045	0.060	0.016 0.033 0.056	C.CS2 C.135	0.094 0.091 0.149	0.097 0.111 0.157
ENTRAL ILLINCIS LIGHT ENTRAL ILL PUBLIC SERVICE LNCINNATI GAS & FLECTRIC	0.487 0.567 0.234	C.151 C.174 C.242 C.245	0.177 0.243 0.245	0.137	0.191 0.197 0.197	0.134 0.158 0.171 0.157	0.138 0.153 0.132 0.172	U.115 U.137 0.141 0.176	0.036 0.16C 0.141 0.125	C.139 C.CS5 C.151 C.115	0.152 0.148 0.135 0.135	0.125 0.152 0.179 0.176
ONSCLICATED EDISCN CF N.Y. ONSUMERS POWER CC AYTEN POWER & LIGHT ELMARVA POWER & LIGHT	0.802 0.711 0.479	C.094 C.193 C.269 C.201	C.091 0.178 0.213 0.206	0.077 0.158 0.186 0.175	0.041 0.138 0.132 0.111	C.C47 C.U95 O.135 	0.036 0.037 0.121 0.079	0.051 0.039 0.037	0.C36 0.C35 0.C76 0.101	C.122 C.1C4 C.159 C.C74	0.154 C.143 0.150	0.080 0.122 0.153
ITCHBURG GAS & ELEC LIGHT LLINDIS POWER CO NTERSTATE POWER CC	0.387 0.497 0.436 0.713	C.131 C.27C C.190	0.149 0.265 0.198	0.125 0.248 0.207	0.114 0.223 0.194 0.143	C.111 O.173 O.189	0.119 0.145 0.190	0.083 0.153 0.195	0.C43 0.14C 0.197	C.C87 C.182 C.180	0.137	C.110 0.195 0.185
ÚWA -ILEITEIE LIGHI E PWP ÚWA -ILEITEIS GAS & ELEC ÚWA POHER & LIGHI ÚWA PUBLIC SERVICE CC ÚWA SDUTHERN UILLITES CC	0.734 0.353 0.304 0.571	C.205 C.205 C.205 C.199	0.156 0.190 0.195 0.210 0.214	0.162 0.162 0.181 0.185 0.243	0.143 0.115 0.139 0.154 0.228	0.095 0.082 0.159 0.162 0.217	0.106 0.160 0.140 0.128	0.154 0.154 0.191 0.137	-0.156 0.156 0.150 0.150	C.115 C.17C C.157 C.169).146].181 0.183 0.183 0.164	0.112 0.160 0.175 0.166 0.202
OWA SOUTHERN UTILITIES CO ANSAS POWER & LIGHT AKE SUPERICE DIST FOWER CO ONG ISLANC LIGHTING	0.281 3.315	<u> </u>	0.200	0.204	0.198	C.199 0.147	0.128 0.218 0.194 C.170	0.192 0.187 0.162 0.117	0.182 0.144 0.172	<u>C.161</u> C.159 C.179	0.166 0.147 0.143	0.182 0.155
UNG ISLAND LIGHTING GUISVILLE GAS & ELECTRIC ADISON GAS & ELECTRIC CO ISSCURI PUBLIC SERVICE CO ONTANA POWER CC EN ENGLAND CAS ELECTRIC EN ENGLAND CAS ELECTRIC	0.530 0.367 0.631	C.166 C.115 C.164	0.162 0.263 0.119 0.126	0.181 0.247 0.131 0.129	0.152 C.24C C.100 0.192	0.143 0.223 0.088 0.153	0.118 1.198 0.070 0.175	0.131 0.139	U.092 U.167 U.124 U.171	C.107 C.213 C.211 C.211 C.151	0.117 0.224 0.180 0.218	0:135 0:225 0.127 0.168
ÚNTANA PCWER CC Em Figland Cas & electric Em York State Elec & Gas Iagara Mghawk fower	0.311 0.529 0.534 0.490	C.195 C.149 C.172 C.140	0.183 0.139 0.149 0.095	0.218 0.135 0.109 0.109	C.213 C.129 0.1C5 0.077	0.087	0.136 0.136 0.109 0.096	0.139 0.121 0.119 0.049	0.155 0.10F 0.122 0.066	C.130 C.CS7 C.1CC	0.037	0.176
ORTHERN INDIANA PLELIC SERV	0.337 0.477 0.392	C.182 C.182 C.174	0.230	0.224	0.230		$ \begin{array}{r} 0.179 \\ 0.143 \\ 0.175 \end{array} $	0.164 <u>0.108</u> 0.135	0.124 0.124 0.08(C.115 C.152 C.190 C.C78	C.088 U.169 <u>0.196</u> U.164	0.091 C.190 0.158 0.154
CRIMAESTERN PUELIC SERV CO RANGE & ROCKLAND UTILITIES ACIFIC GAS & ELECTFIC ACIFIC POWER & ITCHT HILADELPHIA ELECTFIC CC	0.637 0.240 0.437 0.438	C.171 C.149 <u>C.106</u> C.166	0.148 0.151 0.109 0.146	0,122 0.147 0.108 0.130	0.141 C.119 0.693 0.686	0.020 0.133 0.103 0.095	0.048 0.120 <u>0.107</u> 0.086	0.097 0.120 0.113 0.084	0.10E 0.10E 0.06E 0.074	C.142 C.C65 <u>C.C77</u> C.100	0.166 0.071 0.103 0.106	0.113 0.119 0.099 0.107
UBLIC SERVICE ELEC & GAS DCHESTER GAS & FLECTRIC	0,365 0,609	C.149 C.152 C.159	0.152 0.149	0.157 G.130 0.091	0.139 0.681 0.681	0.110 0.096 0.104	0.108	0.103 0.043 0.152	0.083 0.079 0.083	C.151 C.111	0.140 0.171 0.114	0.129 0.106
T JOSEPH LIGHT & PEWER AN DIEGO GAS & ELECTRIC IERRA PACIFIC FOWER CO DUTH CARCIINA FIEC E GAS	0.599 0.511 0.502 0.841	C.168 C.162 O.105 C.186	0,190 0,166 0,098 0,197	0.160 0.174 0.100	0.184 0.142 0.093 0.093	0.219 0.117 0.095	0.195 0.080 0.114 0.089	0.145 0.067 0.116 0.079	C.154 J.104 U.106 0.101	C.157 C.C16 C.111	C.148 0.105 0.158 C.126	0.172 0.113 0.110 0.127
CUTHERN INDIANA GAS & ELEC UCSON GAS & ELECTFIC ASHINGTON WATER FCWER USCONSIN ELECTRIC FCWEP	0.445 0.532 0.282	C.217 C.169 C.135 C.137	0.228	0.218 0.170 0.152	C.2C9 U.176 C.138	0.157 0.124 0.131	0.199 C.C97 0.120	0.215 0.064 0.135	0.200	C.12C1 C.159 C.146 C.2C1	0.218 0.173 0.170	0.210 0.128 0.142
ISCONSIN FLECTRIC ECARP ISCONSIN POWER & LIGHT ISCONSIN PUBLIC SERVICE ONTANA-DAKOTA LTILITIES	0.140 0.419 0.291 0.262	C.223 C.229 C.149	0.226 0.203 0.165	0.155 0.200 0.174 0.170	0.159 0.159 0.179 0.170	0.147 0.147 0.119 0.157	C.197 0.138 0.145 0.150	0,238 0,151 0,175 0,175 0,110	0.163 0.163 0.190 0.112	C.262 C.262 C.273 C.142	0.288 0.288 0.314 0.176	0.181 0.201 0.200 0.150
GIT MIN CONCIL CILLUICO	J.202		0.103	00416	00110				98175		4.110	

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APPENDIX 2

Ten-Year Returns for Low Barrier_To_Entry Group

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		RA		E NG. Z. TURN MEA		CED SOUTH STATE STATE STATE STATE	29-10-29-20-00-00-00-00-00-00-00-00-00-00-00-00-	10077787466423144605225946146() + (C2182 1	- naaraditantelaataatan agaanni Umoporyg	n gene ann a chuir an		ning and an
CCMPANY NAME	RISK	1567	1968	1969	1570	1971	1972	1973	1974	1575	1976	AVERAGE
HEG INDE	0.618	C.C28	G.107	0.128	<u>d.116</u> 0.116	0.097	Ú. 109 Ú. 094	0.115 0.100	0.103		0.005 0.103 0.155	0.103 0.177
ENS-ILLINDIS INC CHOR FUCKING CORF JODYEAR TIRE & RUBBER CO RESIDNE TIRE & RUBBER CO IITED BANKS CF CLUEPACC JODRIGH (B.F.) CC	0.736 0.703 0.714 0.572	C.146 C.126 C.139 C.C31	0.22C 0.146 C.158 0.032 0.10C	0.258 0.138 0.134 0.034	0.116 0.206 0.107 0.102 0.035 0.035	0.189 C.13C 0.113 U.C34	0.185 0.129 0.120 0.035 0.053	0.152 0.122 0.124 0.040	0.1C3 0.122 0.112 0.112 0.112 0.112	C.CS6 C.138 C.166 C.CS9 C.C39	0.039	
NTERCO INC 20an greep inc	0.793 0.953 <u>0.735</u> 0.942	C.C68 C.132 C.230 C.16C	0.159 0.242 0.191	0.034 0.085 C.15C 0.186 0.162	0.150	0.074 C.148 <u>0.140</u> U.128	$\begin{array}{c} C_{\bullet} 174 \\ 1_{\bullet} 168 \\ 0_{\bullet} 138 \end{array}$	0.100 0.185 0.166 0.127	U.C45 U.C45 U.C46 G.198 J.128 U.128	C.C39 C.C55 C.214 C.C57 C.132 C.132 C.230	0.039 0.049 0.209 0.152 0.212 0.212 0.212 0.105	0.076 0.172 0.171 0.151 0.151 0.199
S SHCE CCRP Nesco Inc Langse CCRP S Gypsum Co JICNAL Gypsum CC	1.373 0.561 0.930 0.839	C.145 C.082 C.126	C.164 J.103 J.128 J.128	0.148 0.111 0.108 0.101	C.134 C.121 O.C72 D.C68 U.C68	0.111 0.085 0.123 0.056	0.071 0.075 0.148 0.132	0.127 0.078 0.107 0.107 0.131	0.12E 0.135 0.116 0.08E 0.16E	0.020 (.021 (.021 (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021) (.021	0.105 0.049 0.049	0.109 0.090 0.110 0.101
C INTL INC OKFLY-VAN GAMF INC Mark INC	0.517 0.034 0.473	C.143 C.113 C.C73	0.152	0.151 0.052 0.065 0.158	0.147 0.101 0.039	0.096 0.123 0.097 0.097	0.141 0.114 0.084	0.152 0.122 0.102	0.184	C.166 C.1C3 C.125 C.125	0.184. 0.081 0.103	0.154 0.105 0.091
NERAL MILLS INC LLSBURY CC MEFICAN CAN CC NILLENIAL CACLE HEUSER-EUSCH INC	0.603 0.717 0.313 0.317	C.161 C.122 C.135 C.155	C.156 U.125 U.125 C.163	0.149 0.108	0.153 0.099 0.111 0.148	0.157 C.112 0.092 <u>C.1C6</u>	0.177 0.117 0.035 0.108	0.178 0.121 0.101 0.101	0.158 0.127 0.126 0.126	C.153 C.CS5 C	0.124 0.142 0.112	0.146 0.127 0.109 <u>0.134</u>
HHEUSER-BUSCH INC ABST BREWING CE CORS (AOCLPH) CC CHITZ (ICSEPH) PREWING METICAN BAKERIES CC JRLINGTCN INDUSTRIES INC FEWENS (2000)	0.534 0.562 0.000 0.841	C.171 C.221 C.CUC C.UC	0.200 0.247 0.000 0.209	0.136 0.197 C.0CC 0.213	0.221 C.189 C.CCC Q.214	0.227 0.209 0.000	C.226 O.204 C.C00 C.241	0.120 0.153 0.000 1.263	0.157 0.104 0.000 0.195	C 176 C 122 C 433 C 122	0.106 0.177 0.245 0.162	0.185 0.182 0.063 0.202
MERICAN BAKERIES CC URLINGTON INDUSTRIES INC TEVENS (J.P.) & CC ONE MILLS CORP	0.871 0.889 0.740 0.744	C.C93 C.122 C.C75 C.C47	0.063 0.166 0.119 0.045	-0.019 0.149 0.102 0.052	0.C64 C.129 0.C37 C.C68	0.007 0.081 0.016 0.081	C.241 0.017 0.086 0.059 0.087	-0.J32 0.125 0.107 0.051	-0.009 0.133 0.129	C.CE9 C.CE7 C.C72 C.174	0.133	0.036 0.119 0.083
AN RIVER INC.	0.912	C.C.S	0.071	0.032	C.C2C	0.01C	C.C50	0.095	0.075	<u>i.((9</u>	0.106	5.054
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CEMPANY NAME	RISK	1967	1968	1969	1970	1571	1972	1973	1574	1975	1976	AVERAGE
		•	ten an have de V-d-debatet schwar	<u></u>								
WENS-ILLINCIS INC INCHOR FECKING COFF	0.613 0.736	C.(89 C.(89 C.146	C.107 0.22C	C.130 C.258	0.119	0.104 0.100 0.139	0.C97 0.185	U.1.U2 0.152	U.108 0.122	-(.(C7 C.101 C.138	0.045 0.107 0.155	0.080 0.166 0.177
COUYEAR TIRE & RUSEER CO	0.703	C.126	0.146	0.142	0.113 0.035 0.035 0.051 0.150	0.136 0.113 C.C34 C.C76	0.136	0.129	G.117 0.C45 0.C45 0.C86		0.093	0.125 0.119 0.037 0.027
NITED BANKS OF COLCHADO OODRIGH (B.F.) CO NTERCO INC SUUN GROUP INC S SHOE CORP	0.572 0.793 0.953 0.735 0.942 1.373	C.C31 C.C68 C.132 C.16C C.16C	0.032 0.1CC 0.159 0.242 0.151	0.034 0.087 0.150 0.162 0.162	0.134 0.122	C.148 0.19C C.129 0.112	0.035 0.094 0.174 0.169 0.139	0.185	0.158	C.C39 C.C55 C.Z15 C.Z15 C.133	J.039 C.049 C.210 C.152 O.212 O.212 O.105	0.172 0.173 0.152 0.108
IS SHOE CORP ENESCO INC ELANGSE CORP IS GYSSUM CO INTIONAL GYPSUM CC	0.561 0.561 0.339 0.339 0.517	C.145 C.C82 C.126 C.C86	0.164 0.103 0.129 0.104	C.162 0.148 0.114 0.114 0.111 0.101	0.076	0.093	0.139 0.C72 C.C79 C.154 J.134	0.112	C.128 0.105 C.123 0.624 0.108	C.133 C.C3C C.C45 C.C77 C.C82	0.039	0.112
PC INTL INC TOKELY-VAN CAMP INC SMARK INC ENFRAL MILLS INC	0.634	$\begin{array}{c} 1.143 \\ 0.113 \\ 0.073 \\ 0.161 \\ \end{array}$	0.104 0.152 0.091 0.050 0.156	0.101 0.153 0.093 0.158 0.158	0.063 0.153 0.102 0.029 0.153	G.C96 G.127 G.C98 D.C87 G.157	0.146 C.115 C.C.44 0.177	0.132 0.157 0.123 0.103 0.178	0.108 0.172 0.133 0.131 0.161	C.C82 C.158 C.1C4 C.1C4 C.125 C.189	0.196 0.082 0.107 0.191	0.160 0.105 0.093 0.163
MERICAN CO	0.603 0.717 0.313 0.317	C.122 C.135	0.125 0.125 0.168	0.149 0.109 0.181	U.153 C.C99 0.114 C.157	0.112 0.084	0.117 0.086	0.178	0.127	C.153 C.C59	0.142 J.115 <u>7.123</u>	0.127 0.110
ANHEUSER-BUSCH IAC PARST BREWING CC BORS (ADCLPH) CC SCHLITZ (JOSEPH) REELING	0.534 0.562 0.000 0.841	C.171 C.221 C.CJŪ C.179	0.200 0.247 0.000	0.196 0.214 0.000 0.220	0.243 0.204 0.000 0.241	0.245 0.210 0.000 0.234	0.246 0.208 0.000 0.245	0.199 0.159 0.000	0.173 0.107 0.000 0.228	C.156 C.125 C.498 C.151	0.114 0.183 0.273 0.182	0.198 0.188 0.077 0.216
INF USER LL CRUP PARST BREWING CC DORS (ACELPH) CC CHITZ (ICSEPH) CC MARTICAN EAKERIES CC SURLINGTON INCUSTRIES INC STEVENS (J.P.) CC CONE WUCS CC RP	0.871 0.889 0.740 0.744	C.093 C.122 C.C79 C.C79 C.C67	U.C63 U.166 U.119 U.C45	-0.019 0.151 0.102 0.052	0.065 0.132 0.037 0.068	0.0082 0.016 0.081	0.018 0.088 0.060 0.067	-0.033 0.127 0.108 0.091	-0.009 0.135 0.131	C.CSO C.CSS C.C73	0.092 0.135 0.116	0.037 0.121 0.084 0.103
DAN RIVER INC	0.912	C. 665	0.071	0.033	0.020	0.010	G.050	0.096	0.077	<u>č 174</u> C.CC9	U.108	0.054
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	uning disclining discount (TPA) (20							1997)://#/one-teac/// 0	t - meter one energy at the orthogen			<u></u>
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CCMPANY NAME	RISK	1967	1968	1969	1970	1571	1972	1973	1574	1575	1576	AVERAGE
ERS-ILLINGIS INC CHCR HOCKING CCFF	0.613 0.736	C.109 C.131 C.21C C.204 C.206	0.170 0.314	C.215 0.213 0.365	0.189 C.28C	C.15C Q.245	0.140 0.242	J.155 0.197	U.161 0.151	<u>, 145</u> (, 145 (, 153	0.000 0.156 0.230	0.093
ODYEAR TIRE & RUFEER CO Sestore tire & Ruffeer Co Iteo Aarks of Colorado Ugrich (3.F.) Co	0.703 0.734 0.572 0.793 0.953 0.953	C.C12 C.C9C	0.247 0.247 0.014 0.139	0.235 0.013 0.105	$\frac{0.171}{0.149}$	0.245 0.218 0.130 0.010 0.055 0.260 0.249	0.242 0.215 0.194 0.011 0.011 0.011	0.190 <u>- 4.202</u> J.J.J.6 J.141	0.159 0.178 0.007 0.110	C.155 C.143 C.CC6 C.CC6 C.C45	J.126	0.192 0.152 0.010 0.010 0.093
ISANGA ISAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA	a.942	C.227 C.308 C.251 C.219	C.290 C.324 O.324 C.294	0.279 0.279 0.272 0.272 0.272 0.270 0.270	0.036 0.282 0.219 0.219 0.206 0.206 0.120 0.076	0.214	0.245 0.245 0.230 0.093	0.271 0.249 0.212 0.138	2،274 <u>4,175 لمال</u> 1326 ت 130 د ت	C.255 C.125 C.125 C.254 C.254	0.2440 0.2440 0.2440 0.370 0.329	0.273 0.273 0.251 0.174
C INTL INC	1.373 0.561 0.839 0.839 0.517 0.634	C.154 C.141 C.C98 C.217 C.145	C.192 0.16C 0.118 0.241 0.110	C.12C 0.236	0.076 0.076 0.225 0.128	0.151 0.157 0.117 0.178 0.126	0.119 0.169 0.213 0.154	0.170 0.192 0.164 0.230 0.164	U-203)-104 U-135 U-251 0-173 U-214	C.CS5 C.CS5 C.CS4 C.282 C.282	0.141 0.133 0.133 0.276 0.056	J.155 J.139 J.122 J.235 J.235
ŬKËLÝ-VĂN CAMP INC <u>Mark Inc</u> Meral Mills Inc Lisbury Co Erican Can CC	0.603	C.165 C.101 C.483 C.198 C.202	0.422 0.212 0.197	0.100 0.101 0.382 0.268 0.157	0.354	C.137 C.155 C.15C O.115	C. 280 0.218 0.123	0.234 0.234 0.234	0.212 0.270 0.250 0.205 0.215	C.323 C.323 C.323 C.323 C.325 C.325	0.0323 0.023 0.278 0.181	0.135 0.142 0.364 0.231 0.164
NTINENTAL GRELP HEUSER-RUSCH INC BST BREWING CC GPS (ADCLPH) CC HLIZ LUCSEPH) CSEWING	0.313 1.317 0.534 0.562 0.000		0.313 0.296 -0.000	0.280	0.162 0.209 0.322 C.228 -0.000	0.254 -0.000 -0.000	C. 300	0.232	0.203 0.203 0.125 -0.000 0.201	C.147 C.147 C.534	0.130 0.142 0.216 0.297 0.297 0.243	0.155 0.262 0.221 0.033 0.277
HLIIZ (JCSEPH) ZSEWING ERICAN BAKERIES (C HLINGTON INCLSTRIES INC EVENS (J.S.) & CC "HE MILLS CCKP	0.841 0.871 0.889 0.740 0.744	C.158 C.158 C.191 C.105 C.080	0.266 0.046 0.274 0.176 0.038	0.282 -0.072 0.245 0.142 0.042	0.297 0.098 0.203 0.027 0.027 0.070	0.299 -6.021 0.110 -0.002 0.100	-C.000 0.342 -C.CC0 C.120 0.120 0.C72	-). 000 0.370 - J. 131 0.195 J. 157	-0.09E 0.207 0.137	C.(82 C.(82 C.(88	0.243 0.204 0.197 0.168 0.304	C.045 O.182 C.112
N KIVER INC	0.912	C.CS6	0.039	-0.042 -0.008	-0.028	-0.041	0.136 0.C46	2.132	<u>G.19C</u> 0.067	-C.C.3	<u> </u>	<u>0.129</u> 0.044
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CEMPANY NAME	RISK	R 1567		ETURN ME. 1969		1571	1972	1973	1974	1975	1976	AVERAGE
WDD LNDS ENS-ILLINCIS INC		1567	ATE OF R 1968 0.167 0.170	ETURN ME. 1969	1970	0.152	1.152	J.109 J.164	-1.172		1.040	0.171
	0.613 0.613 0.736 0.736 0.734 0.572	1567 <u>c. 165</u> <u>c. 131</u> <u>c. 204</u> <u>c. 204</u> <u>c. 204</u>	ATE OF R 1968 	ETURN ME. 1969 0.265 0.218 0.365 0.247 0.213 0.213	ASURE 4 1570 0.201 0.202 0.192 0.149 0.214	0.152 0.155 0.249 0.249 0.242 0.130	1 - 132 U - 153 U - 242 U - 242 U - 242 U - 240 U - 154 U - C11	0.164 0.164 0.197 0.212 0.202 0.006	-1.12 U.176 U.157 J.174 D.174 D.174 U.007		1.040 0.172 0.230 0.136 0.112	0.171 0.171 0.244 0.207 0.182
1200 INOS ENS-ILLINCIS INC ICHOR HCCKING CCAF ICDYEAR TIRE & RLEER CO DOFISION INS & JLBAER FO NITFD BAAKS CF COLOFACC JODRICH (B.F.) CC	0 • 613 0 • 613 0 • 736 0 • 703 0 • 703 0 • 773 0 • 763 0 • 953 0 • 953 0 • 953 0 • 953 0 • 953	1567 C. 131 C. 131 C. 204 C. 304 C. 304	ATE OF R 1968 0.167 0.170 0.314 0.314 0.3247 0.247 0.014 0.014 0.139 0.324	ETURN ME. 1969 0.218 0.3657 0.213 0.3257 0.213 0.114 0.237	ASURE 4 1970 0.201 0.201 0.202 0.192 0.192 0.2149 0.2192 0.2237	0.152 0.249 0.249 0.242 0.110 0.101 0.101 0.240 0.245	1-152 U-153 U-240 0-240 0-240 0-240 0-139 0-269 0-269 0-245 0-238	1.155 0.164 0.197 1.212 0.202 0.141 0.241 0.241 0.214		- C . L 5 : C . 1 623 C . 1 73 C . 1 73 C . 1 73 C . 1 73 C . 2 53 C . 2 53 C . 2 53	1.030 0.172 0.172 0.1362 0.1362 0.008 0.0345 0.2350	C. USA 0.171 0.244 0.207 0.182 C.010 0.095 C.274 0.274
MDD_INDS ENS-ILLINCIS INC CCMGR FCCKING CCPF COYEAR IIRE & PLEEER CO MERSIONE TIRE & PLEEER CO DISTONE TIRE & PLEEER CO DISTONE TIRE & COLCACC DISTONE (B.F.) CC MIERCO INC SHOE CCMP SAFSCO INC ELANESE CCRP S GYPSIM CC ATLONAL GYPSIM CC C INTI INC) 613 0 613 0 736 0 703 0 752 0 753 0 754 0 953 0 742 1 373 0 361 0 830 0 8517	1567 C. 131 C. 131 C. 204 C. 204 	ATE OF R 1968 0.167 0.170 0.314 0.314 0.3247 0.324 0.324 0.324 0.324 0.324 0.324 0.324 0.324 0.160	ETURN ME 1969 0.265 0.218 0.365 0.247 0.247 0.247 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.277 0.275 0.277 0.275 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0.275 0.275 0.275 0.275 0.275 0.275 0.275 0.275 0.275 0.275	ASURE 4 1570 0.201 0.220 0.220 0.220 0.220 0.220 0.237 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 0.221C 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0-249 0-249 0-245 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-235 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 0-255 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APPENDIX 3

Ten-Year Returns for Medium Barrier-To-Entry Group

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CCMPANY NAPE	RISK	1567	1968	1969	1970	1971	1972	1973	1974	1975	1976	AVERAGE
ALIMINIA CO DE AMERICA	0.516	0.112 C.C71	0.102	<u> </u>	0.051	0.052	0.025	0.073 0.059	<u></u>	<u>((43</u> C.(61	0.089	0.087
KAISER ALLMINUM & CHEM CORP NABISCO INC MITED BRANDS	L.182 0.760 1.319	C.C71 C.C94 C.211 C.138	0.087 0.212 0.131	C.054 C.153 C.116	G.070 0.193 0.C41	0.049 0.202 0.031	C.C40 J.181 U.C46	0.071 0.135 0.064	0.12C 0.122 0.122 0.12E	C.C61 C.C85 C.158 C.C55	0.070 0.184 0.053	0.079 0.176 0.160
EXXIN CERF IEXACO INC MOBIL CERP STANJARE FIL CENP JS SIEEL CERP	0.276 0.553 0.478	C.15C C.145 C.113 C.100	C.155 C.143 O.116 Q.102	C.144 O.126 O.12C C.059	0.148 0.136 0.125 0.027	C.168 0.145 0.151 0.151	0.198 0.135 0.165 0.295	0.270 0.169 0.215 0.130	U.462 U.195 U.317	C.215 C.116 C.223 C.224	0.241 J.116 0.243 J.722	0.220 0.143 0.180 0.180
J S STEEL CCAP Bethlehem Steel CCAP Jurgensen (Earle *) CC Pancter & Gamele CC	0.646 0.800 0.589 0.377	C.G53 C.C77 C.150	C.C70 O.C81 C.15C O.233	0.055 0.067 0.154 C.233	0.036 0.051 0.104 0.251	0.036 0.076 0.114 0.237	0.044 0.048 0.145 0.243	0.089 0.105 0.190	U.155 U.157 J.2dé	(.114 (.(76 (.254 (.156	0.073 0.057 0.207	0.073 0.081 0.175
INTL HARVESTER CC	0.377 U.552 0.538 0.993	C.159 C.159 C.102 C.041	0.233 0.1c5 0.060 -0.092 0.055	C.233 U.155 O.U7C C.107 C.103	0.251 0.152 0.066 0.099 0.035	0.163	0.183	0.173	0.172 0.172 0.098 0.091	C.173	0.214 0.189 0.110 0.117	0.227 0.169 0.064 0.059 0.135
ALLIS-CHAINERS CORF DEBIE CO PHELPS COPPER CORP PHELPS COUE CORP USEAL BASIC INDUSTRIES INC DEBAL BASIC INDUSTRIES INC DEBAL BASIC INDUSTRIES	0.413 0.325 0.472	C.128 C.111 C.131 C.098	0.124 0.157 0.075	0.160 0.160 0.187 0.072	0.170 0.210 0.286	0.072 0.072 0.130 0.128	0.064 <u>C.144</u> J.07C J.138	0.126 0.126 0.126	U.124 U.124 U.124	C • C 69 C • C 67 C • C C 7 C • C 45	C.J14 C.J15 J.J54	0.134
IDEAL BASIC INDUSTRIES INC ILME STAR INDUSTRIES GENERAL PERTLANC INC U S SHEE CERP CUMPC INDS	0.832 0.678 0.940 0.942	C.098 <u>C.076</u> C.073 C.16C	0.075 0.114 0.151	0.072 C.284 C.113 O.162	0.086 0.131 0.134	0.128 0.104 0.118 0.118 0.129	0.148 0.109 0.113 0.138	0.154 <u>0.119</u> 0.104 0.127	J.167 <u>J.1CC</u> J.04E J.12E	C.155 C.C77 C.C16 C.132 -C.CC7	0.143 0.035 0.016 0.212	0.123
ČUMPČ INOŠ	0.678	C.C82	0.111	0.140	0.110	0.104	0.109	0.116	-0.031	-č.čć7	0.065	č:083
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CCMPANY NAME	RISK	R 1557		LE NC 3 2 ETURN ME 1969		1971	1972	1973	1574	15 75	1976	AVERAGE
CEMPANY NAME	RISK		ATE CF R	ETURN ME	ASURE 2	1971	1972	1973	1974	1575	1976	AVERAGE
ALIMININ CC CE AMERICA	<u></u>	1567	ATE CF R 1968	ETURN ME. 1969 0.110 0.074	1970	C. C55		J.080	0.124	[_ (46	0.053 0.071	C.090 0.064
ALIMINIA CO DE AMPEICA Reynolds Metals co Kaiser Aluminum & Chem Corp Namisco inco	1.017 1.132 0.760 1.319	1967 <u>C.112</u> C.C71 C.C94 C.211 C.118	ATE CF R 1968 0.102 0.045 0.087 0.212 0.131	ETURN ME. 1969 0.11C 0.074 0.056 0.153 0.153	ASURE 2 1970 0.058 0.068 0.193 0.148	C-C55 0.031 0.C45 0.C45 C-C31	0.090 0.020 0.041 0.181) . 080 0 . 063 0 . 072 0 . 135 0 . 064 0 . 278	0.124 0.127 0.127 0.124 0.126	C • C 44 C • C 44 C • C 54 C •	0.053 0.071 0.072 0.184 0.053 0.241	C.090 0.064 0.050 0.176 0.066 0.220
ALIMINIA CO DE AMPEICA REYNOLDS METALS CO KAISER ALLMINLM & CHEM CORP INSTED DE INCS EXXUN CORP TEXACO INC MOBIL CORF SIANDARE CU CO (INCIANA)	1 • 017 1 • 017 1 • 132 0 • 760 1 • 319 0 • 276 0 • 553 0 • 478 0 • 104	1567 <u>C.112</u> C.C71 C.C54 C.211 C.150 C.145 C.113	ATE CF R 1968 0.102 0.045 0.067 0.27 0.155 0.143 0.102	ETURN ME. 1969 0.11C 0.074 C.056 0.153 0.126 0.126 0.126 0.055	ASURE 2 1970 0.068 0.068 0.068 0.123 0.148 0.148 0.125 0.097	C_C55 0.031 0.C45 0.202 C_C11 0.168 0.145	C . C 3 C C . C 2 4 C . C 2 4 C . C 2 4 C . C 4 C . L 3 C .) . 030 0 . 063 0 . 072 0 . 135 0 . 264 0 . 278 0 . 269 0 . 215	0.124 0.127 0.124 0.126 -0.126 -0.126 -0.126 -0.126 -0.126 -0.126 -0.126 -0.126 -0.126 -0.127 -0.127	C • • • • • • • • • • • • • • • • • • •	0.053 0.071 0.072 0.184 0.241 0.116 0.243 0.243 0.222	C . 090 0 . 064 0 . 050 0 . 176 0 . 126 0 . 129 0 . 143 0 . 143 0 . 145
ALIMINIA CONFRESSION REYNOLDS METALS CO KAISER ALLMINUM & CHEM CORP INAISCO INC INTER BEINCS EXXUN CORP TEXAGO INC MOBIL CORF STANDARD CIL CO (INCIANA) UN SSIGNED CORF	1.514 1.017 1.132 0.760 1.319 0.276 0.553 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.478 0.400	1567 <u>C.112</u> C.C71 C.C54 C.211 <u>C.138</u> C.145 C.145 C.145 C.145 C.145 C.145 C.145 C.145 C.125 C.125 C.125 C.125 C.125 C.125 C.C71 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.C54 C.155 C.155 C.125 C.155 C.125 C.125 C.155 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 C.125 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& 2.031 \\ 0 & 1.645 \\ 0 & 1.551 \\ 0 & 0.036 \\ 0 & 0.036 \\ 0 & 0.036 \\ 0 & 0.036 \\ 0 & 0.166 \\ \end{array}$	C-C925 C-C925 C-C241 C-C481 C-C482 C-C482 C-C482 C-C482 C-C482 C-C482 C-C482 C-C482 C-C482 C-C482 C-C482 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 C-C925 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CC DEDITEC F GAMENE CC COLGATE-PALMOLIVE CC INTL MARVESTER CC	1.514 1.132 0.760 1.3176 0.553 0.478 0.478 0.446 0.6460 0.537 0.553	1567 C.112 C.C71 C.C54 C.1505 C.155 C.1057 C.155 C.155 C.155 C.155 C.155 C.155 C.155 C.152	ATE CF R 1968 0.102 0.045 0.087 0.2131 0.155 0.143 0.162 0.0701 0.0501 0.150 0.0501 0.1502 0.0501 0.162 0.0501 0.162 0.064 0.102 0.064 0.064 0.102 0.064 0.064 0.064 0.064 0.102 0.064 0.064 0.064 0.064 0.1102 0.064 0.064 0.064 0.064 0.064 0.064 0.064 0.1102 0.1102 0.064 0.064 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1102 0.1002 0.1002 0.1102 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.1002 0.0002 0.1002 0.0002 0.1002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0002 0.0000	ETURN ME. 1969 0.11C 0.074 0.153 0.153 0.153 0.1446 0.1446 0.1446 0.1446 0.1446 0.1446 0.1446 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.1557 0.0557 0.0557 0.0557 0.0557 0.0557 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0577 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.0770 0.07700 0.07700 0.07700 0.07700 0.07700 0.077	ASURE 2 1970 0.068 0.068 0.072 0.153 0.141 0.148 0.1257 0.036 0.236 0.236 0.251 0.152	C.031 C.031 O.2452 C.21451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1451 C.1656	C + C + C + C + C + C + C + C + C + C +	J. 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CEMPANY NAME	RISK	1967	1968	1969	1970	1971	1972	1973	1574	1975	1976	AVERAGE	
MININ CO OF AMERICA NOLDS METALS CC	0.515 1.017 1.132 0.760 1.319 0.276 0.553	C.173 C.113 C.173 C.31C C.164 C.204 C.204 C.191	C.155 U.056 O.15C C.155 C.155 O.215 O.215	C.164 O.1C6 O.161 C.236 C.14C C.2C1 C.2C1 C.155	0.131 0.086 0.106 0.257 0.019 0.209 0.171	0.055 0.0052 0.052 0.022 0.008 0.241 0.241 0.185	1.048 -0.011 0.026 0.295 1.044 0.286 0.175	0.101 0.075 0.092 0.219 0.219 0.415 0.415 0.225	0.178 0.208 0.221 0.211 -0.118 0.644 0.644	C.C33 C.C77 C.144 C.288 C.C5C C.517 C.173	0.121 0.095 0.095 0.325 0.379 0.175	2.121 C.C.G.I Q.122 D.283 1.253 C.331 C.331 C.153	
LN CCRP ACG INC IL CEPF NCAPE FIL CF (INF LANA) STEEL CCRP HLEHEM STEEL CCRP HLEHEM STEEL CCRP GENSEN (EARLE M) CG GITER S GAMALE CF	0.478 0.104 0.946 0.800 0.800 0.539 0.539	C.074 C.1C2 C.248 C.12C	0.194 U.162 U.100 0.113 U.232 C.315	0.17C C.125 O.076 O.052 O.236 C.313	C.181 C.123 O.C43 O.C63 O.141 O.141	0.241 0.185 0.230 0.120 0.040 0.156 0.316	0.256 0.125 0.052 0.054 0.211 0.325	0.347 U.192 U.192 U.127 0.144 U.291 U.314	L.2887 U.2887 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2967 U.2976 U.2976 U.2976 U.2976 U.2976 U.2976 U.2976 U.2976 U.2976 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.2977 U.29777 U.29777 U.29777 U.29777 U.29777 U.297777 U.297777 U.2977777 U.29777777777777777777777777777777777777	C.165 C.165 C.165 C.276 C.276	0.450 0.097 0.097 0.233 0.233 0.297	0.294 0.197 0.101 0.101 0.263 0.263 0.311	
L HARVESTER CC IS-CHALMERS CCPF	0.552 0.538 0.893	C.248 C.144 O.C14	0.256 0.108 -0.274 0.136 0.141 C.177	0.247 C.088 C.119	0.231 0.076 0.092	G.245 G.C55 O.G42 G.142	0-280 0-109 0-048 0-239 0-239	0.266 0.113 0.064	0.265 0.136 0.097 0.766 0.142	C.125 C.125 C.114 C.114	0.259 0.175 0.228 0.304	0.26J 0.113 0.053 0.211 0.110 0.162	
NECOTT CCPPER CCPP LPS CCCGE CCPP LPS CCCGE CCPP IS LPASIC INDUSTRIES IN C STAR INCUSTRIES FRAL PCRLANC INC SHOE CCRP PO INOS	0.325 7.472 0.532 0.473 0.940 0.942 0.678	C • 120 C • 151 C • 126 C • 102 C • 085 C • 085 C • 085 C • 251 C • 109	0.093 0.126 0.140 0.324 0.167	0.202 0.226 0.085 0.113 0.123 0.272 0.205	0.213 0.265 0.109 0.159 0.155 0.219 0.152	C.C77 O.16C C.171 O.138 C.156 C.214 O.152	J.167 U.193 C.149 J.151 C.236 U.182	J.151 J.217 J.195 J.175 J.175 J.175 J.212 J.212 J.212 J.212	U.16E U.211 U.050 U.203 -0.172	-C.C16 C.C35 C.153 -C.C25 -C.C25 -C.C28 -C.C51	0.050 0.192 0.192 -0.004 0.370 0.090	0.162 0.156 0.125 0.101 0.251 0.098	
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CCMPANY NAME	RISK	1567	1968	1965	1970	1971	1572	1973	1974	1975	1576	AVERAGE	
INGLIS PETALS CC NGLIS PETALS CC SER ALLMINLY & CHEM CC IISLO INC TED BEANS	0.760	0.173 C.113 C.173 C.31C C.164	0.155 0.056 0.150 0.322 0.155	0.174 0.119 0.170 0.236 0.140	0.151 0.1C1 C.112 0.297 0.C19	0.064 0.003 0.052 0.422 0.422	0.106 -0.013 0.027 0.295 0.044	0.106 0.089 0.096 0.219 0.065	C.198 U.238 U.233 U.211 -0.118	C.C37 C.C84 C.153 C.289 C.C50	0.134 C.100 0.105 0.225 C.251	0.130 0.089 0.127 0.233 0.258	
ICN CCRP (ACU INC SIL CCRF NDAPD CLL CC (INCIANA) SIEEL CCRP HLEHEM STEEL CCFF (SENSEN (SARLE M.) CC DTFF-S, GANDLE CC	0.646	C.204 C.191 C.157 C.157 C.157 C.125 C.C74 C.102	0.215 0.134 0.162 0.100 0.110 0.113 0.232 0.315	0.2C1 0.159 0.17C 0.125 0.076 0.052	0.209 0.171 0.131 0.131 0.043 0.063	0.241 0.135 0.230 0.120 0.040 0.101	C.286 0.175 J.256 0.125 J.256 0.125 J.252 J.C52	0.416 0.225 0.347 0.132 0.127 0.124	0.544 0.28E 0.547 0.547 0.2367 0.236 0.222	$\begin{array}{c} \begin{array}{c} 0.517\\ 0.173\\ \hline 0.421\\ \hline 0.165\\ \hline 0.166\end{array}$	0.379 0.175 0.450 0.457 0.057 0.063	0.331 0.193 0.294 0.167 0.101 0.109	
LIS-CHALMERS COPP	0 • 5 3 9 0 • 377 0 • 552 0 • 553 8 0 • 893 0 • 893	C.248 C.32C U.248 C.144 U.U14 C.155	0.256 0.108 -0.274	0.238 0.313 0.247 0.088 0.119 0.147	0.144 0.337 0.231 0.076 0.052 0.121	C.16C C.316 O.245 O.C59 O.C42 O.C42 O.142 O.C77	0.085 0.216 0.229 0.109 0.109 0.048 0.048 0.048 0.048 0.077	0.297 0.314 0.266 0.113 0.064 0.064	C.461 0.294 0.265 0.136 0.037 0.037	C.269 C.269 C.123 C.124 C.114	0.289 1.297 0.288 0.175 0.228 0.304 -0.010	0.267 0.311 0.260 0.113 0.053 0.053	
NECOTT CCPPER CCFP LPS DCOGE CCPP AL BASIC INDUSTRIES IN RESTATIONSTRIES VERAL PORTLANC INC S SHOE CCRP	0.325 0.472 0.832 0.673 0.940 0.942 0.678	C.12C C.151 C.126 C.102 C.C85 C.251 C.109	C.141 0.177 0.093 0.126 0.140 0.324 0.167	0.202 0.226 0.005 0.118 0.133 0.272 0.205	0.213 0.265 0.110 0.117 0.155 0.220 0.152	C.16C O.175 C.138 C.156 O.216 O.152	0.167 C.207 0.149 0.151 0.238 0.182	0.151 0.217 0.218 0.175 0.146 0.214 0.135	0.142 0.168 0.230 0.134 0.050 0.206 -0.172	-C.C16 C.C35 C.217 C.C54 -C.C6 C.210 -C.C91	C.050 C.200 C.1C3 -0.004 0.371 0.090	0.110 0.162 0.166 0.126 0.101 0.252 0.098	
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APPENDIX 4

Ten-Year Returns for High Barrier-To-Entry Group

ĸIJIJĸŔĨĊĸĸĬĸĸĸŎĸŎĸĔŎĬĸIJĸĔĸĔŔŎŎĸ <mark>ŨĿĊĔĿĸĔĬĊĊĔĊĬĊĬĊĊĊĊŎĊĸĊĸĊĊĬĊĬŎŎŎĊĔĸĸ</mark> ĸĊĔĊĬŎŎŎĸĔĸĬŎŎĬŎĿĸĸĔŎĸĬŎĬĊŎ	0,000,000,000,000,000,000,000,000,000,	become in a subscription des	TABL	E NC.41	*10770070000001/1077802000-10701	lannanna fa sin mainmin-àicean anac-nas	CINING INTERNITION	an a	•	ngg an ann ann an An An Air			FIN
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CCMPANY NAME	RISK	1967	1963	1969	1970	1971	1572	1973	1974	1975	. 1976	AVERAGE	
NEPAL METGES CORE 30 MOTOR CO	0.619	<u>C 233</u>	0.261	6.240	0.057	0.233	0.235	<u>0.234</u> 0.145	<u>u.696</u>	<u>i 127</u>	<u> </u>	0.15/	•
RYSLEP (CRP IGLEY (VILLIAN) UP CC YMULDS (R.J.) INCS	1.316	C.C23 C.105 C.245 C.257	0.158 0.155 0.266 0.274	C.122 U.044 C.258 C.268	0.114 C.CC4 C.219 0.751	C.137 C.C43 D.228 C.264	C.16C C.C98 C.217 C.234	0.22%	0.062 0.0000 0.138	C. C43 C. C44 C. 279	0.130 0.108 0.275 0.201	J.111 J.CE4 C.24C D.255	
CARTERNES INC	0.516 0.613	C.176	0.170	0.170	0.154	C.150 C.149	0.152	U.155 0.113	0.153	C.157 C.132	0.144	0.153 0.153 0.129	
ILIP NEPRIS INC RCK & CC IZER INC	0.613 0.273 0.264 0.211	6.125	0.162	0.164 0.193 0.192	0.167 0.371 0.186	C.171 0.364 C.175	0.173	U.166 U.165 U.165	0.164	(.162 <u>C.272</u>	0.173 0.173 0.140	J. 166 J. 169	
HÉRÍNG-PLCUCH BGTT LAHCRATCRIFS AGRAMICCITC	0.211 0.274 0.590 0.565	C.177 C.275 C.201 C.103	0.306	0.328 0.201 0.105	0.385 0.156 0.167	C.316 0.C95 0.1C3		0.137 0.137	G.155 0.324 0.141 0.164	C.152 C.152 C.C.7	0.211		
TICNAL CISTILLERS SCHEMICL	0.341	C.114 C.226	0.055	0.107 0.221 0.165	C.C89 0.2C2 0.124 C.C73	0.083	0.035	0.105	0.121 0.181	C.141 C.136 C.174 C.174	U-162 U-142	0.117	
LKER(HIRAM) GCCCRFM & WGRT XASGULF INC <u>EEPERT MINERALS (F</u> G INDUSTRIES INC 38EY-CWENS-FERE (C	C.695 C.465 O.701	C.224 (141 C.C93	0.230	0.106	0.124 0.073 0.065 0.055	0.073 0.04 0.046 0.046 0.265	0.094 0.033 0.110	0.179	0.324 0.265 0.105 0.114	$\begin{array}{c} 1.174 \\ - 1.01 \\ - 0.106 \\ - 0.107 \\ - 0.107 \end{array}$	0.098 	0.168 0.130 0.107	2994 (1999) (1999) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997) (1997)
38EY-CWENS-FORE CC	0.816	C.192	0.251	0.195	0.055	6.205	C.233	0.245	0.114	6.107	C.I90	0.183	
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CCMPANY NAME	RISK	1967	1968 ,	1969	1970	1571	1972	1973	1974	1975	1976	AVERAGE	
NERAL METERS COPP	0.619	C.233	C.2/1	C~244		C.239	0.240	0.244	E 20.U	C.131	0_255	0.200	
RO MOTCH CC RYSLER CCRP IGLEY (WILLIAM) IF CC YNGLIS (ELLI) INCS	0.576 1.316 0.475	C.023 C.109 C.249 C.257	0.158 0.155 0.266 0.274	0.129 C.045 C.262 0.273	0.116 0.004 0.225	0.139 0.C45 0.233 0.257	0.164 C.051 C.219	0.150 J.J86 J.224 D.213	0.064 0.006 0.188 0.251	C.C49 C.C49 C.C49 C.279 C.72	0.132 0.132 0.111 0.278 0.278	0.113 0.066 0.242 0.258	*****
ERICAN ERANCS INC	<u> </u>	6.176	6.176	C.17C	<u> </u>	C.15C	0.153	3.154	1.154	r 151		C 158	
HLIP MCRRIS INC PCK & CC IZEK INC	0.618 0.273	C.126 C.158 C.392	0.126 C.162 0.338	0.127 0.164 <u>C.394</u> 0.194	0.145 C.17C 0.382 0.193	0.149 0.176 <u>0.372</u> 0.183	C.121 0.183 0.353	0.118 0.178 	0.123	C.132 C.17C	C.180 	0.129 0.172 0.172	
HERING-PLOUGH BRGTT LAEGRAICRIES BAGRAM CE LTC	0.211 0.274 C.590	C.177 C.275 C.201 C.103	0.187 0.306 0.208 0.106	0.335	0.195	G.332 G.CS5 G.LC3	0.175 0.348 C.136 0.059	0.169 0.361 0.137	0.161 U.344 G.144 U.1CF	C.151 C.720 C.157	0.146 0.297 0.173 0.092	G.174 J.332 0.165 0.102	
ATIONAL CISTILLERS SCHEMICL Alker(Hiram) geocrem & wort	0.654	C.103 C.114 C.226 C.224 C.141	0.106 0.099 0.225 0.230 0.185	0.109	0.107 0.092 0.208 0.124 0.073	0.086	0.087	0.107 0.107 0.190	0.183	C.145	0.166 0.142 0.098	0.119 0.189	
EXAŠGULĖ INĆ KEEPCRI MINERALS CC PG INDUSTRIES INC 189ey-Gwens-Ford CC	0.695	C.224 C.141 C.C93 C.192	C.230 0.185 0.103 0.251	0.165 0.103 0.110 0.203	C.124 C.C73 O.C71 C.C99	0.073 0.064 0.103 0.209	0.094 0.083 0.113 0.244	0.179	0.324 0.114 0.114 0.118	C.174 C.1C1 C.111 C.111 C.1C9	0.098 0.150 0.172 0.192	0.168	
BBEY-CWENS-FORC CC	0.816	C.192	0.251	0.203	C.C99	0.209	0.244	0.256	0.118	C.1C9	0.192	0.112 0.187	
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CCMPANY NAFE	RISK	1967	1968	1969	1970	1971	1972	1973	1574	1975	1976	AVERAGE
ENERAL MOTORS CORE GRO MOTOR CO HRYSLEP CORP	0.619 0.576 1.310 0.475	C.315 C.C23 C.190 C.290 C.290 C.365	0-349 0-241 0-280 0-310	0.324 0.192 0.074	0.072 0.166 -C.C1C 0.266 0.365	0.207 0.207 0.158	0.357 C.253 C.155 O.275 O.275	0.353	0.12F 2.074 -0.047	C.175 C.C50 -C.C63 C.263	0.273 0.217 0.183 0.361	0.275 0.165 0.097 0.298
RIGLËV (VILLIAM) JE CC Emolos (2111 incs Meričan Brancs inc Iggett group Hilip McRris inc Egges CC	0.475 0.463 0.516 0.613 0.273 0.264	C.29C C.248 C.166 C.312 C.524	0.310 0.275 0.177 0.337	0.308 0.254 0.153 0.341	0.226 0.345 0.227 0.351	C.247 C.207 C.252 C.285 C.285 C.275 C.275 C.275 C.275 C.235C		0.260 0.211 0.272 0.169	0.236 0.436 0.266 0.177	C.283 <u>C.407</u> C.276 C.154 C.205	0.361 0.245 0.159 0.332 0.590	0.298 0.363 0.270 0.191 0.191
FIZER INC CHERING-RICHCH	0.273 0.264 0.211 0.274 0.590 0.565	C.245 C.245 C.245 C.264	0.263	0.268	C.268 C.268 C.542 C.255	C.261	0.186 0.337 0.470 0.260 0.461	0.310 1.471 2.52.00 0.960	0.241 0.241 0.454	L.223 C.377	3:221	0.472 0.250 0.433
BACTT LAECTATCRIES FACTAR COLTC ATTCNA COLTC ALKER(HIRAM) GCCCRFM & WORT	0.654 0.341	C.138 C.138 C.184 C.278 C.333	0.291 0.146 0.155 0.285	0.297 0.147 0.170 0.290	U.137 0.262	G.127 0.138 C.126 0.242	0.125	0.211 0.134 0.163 0.241	0.215	C.265 C.265	0.243 0.243 0.175	0.242 0.134 0.131 0.240
FXASGULF INC REFERENT MINERALS CC PG INDUSTRIES INC IBHEY-CWENS-FCHC CC	0.655 0.701 0.816	C.164 C.164 C.122 O.218	0.322 0.138 0.138 0.350	0.221 0.142 0.370	0.161 0.080 0.075 0.152	0.242 0.090 0.090 0.123 0.425	0.115 0.145 0.145 0.452	0.235 0.144 0.160 0.449	0.43C C.257 C.145 U.175	(.142 (.142 (.145	Q.115 Q.1252 Q.335	C.225 0.147 0.143 0.310
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CCURANY AALE	RISK		ATE CF R			1671	1673		16.14	1075	1076	AU63A05
CEMPANY NAME		1967	1968	1969	1570	1971	1972	1973	1974	1975	1476	AVERAGE
TENERAL METTERS CERF. ORD MOTEP CO HRYSLEP CERP	0.619 0.576 1.316 0.475	C.315 C.C23 C.190 C.29C C.369	C.349 C.241 C.28C	0.332 C.155 O.077 O.313 Q.364	C.C.75 C.171 -C.C11	0.354 0.214 C.C.1 0.297	5-263).364 0.239 0.167	0.132 J.078 -0.051 0.236	C.124 L.152 -C.CES	0.196	0.294 0.170 0.100
CRD MOTCE CO HRYSLEP (CRP HRIGLEY (KILLIAM) JF CC JEYNCLOS (R.L.) INTS AMERICAN GRANCS INC LIGGETI GRCUP	0.516	0.248	0.241 C.28C G.310 U.275 U.275 U.177	6.295	C.282 O.275 O.275 C.282 O.227		0.163 0.284 0.284 0.273 0.186	0.167 0.281 0.311 0.276 0.169	0.23E 0.23E 0.27C 0.17T	L.L52 -C.1525 C.363 C.467 C.279 C.279 C.194	0.366 0.240 0.245 0.149	0.100 0.302 0.373 0.272 0.191
MERICAN GRANCS INC IIGGETT GRCUP JHLIP VERIS INC <u>AFRCK & CC</u> PFIZEP INC SCHEPING-PLCUGH	0.619 0.273 0.274 0.211 0.274 0.590	C.166 C.312 C.246 C.246 C.376	0.337	C.193 C.345 Q.512 O.274 O.483	C.282 O.227 C.374 C.51C C.283 C.582	0.276 0.236 C.379 C.503 C.283 C.283 0.479	0.196 C.385 D.470 U.277 Q.484	0.373 <u>0.471</u> 0.261	C.368	C.247 C.476 C.251 C.41C	0.366 0.498 0.241 0.380	0.359
ABBOTT LABORAICRIES SEAGRAM CC IIT NATIONAL DISTILLERS SCHEMICL	0.590 0.565 0.654 0.341	<u>C.138</u> C.154	0.263 0.429 0.291 0.146 0.155 0.285	0.483 0.297 0.147 0.175	G.223 G.582 G.295 G.142 G.146 G.146	0.127 <u>C.138</u> U.134	0.209	0.4d5 0.211 0.135 0.167 0.167	0.4527 0.4527 0.4527 0.1327 0.1327	6 116	0.285	C • 264 9 • 456 G • 247 0 • 135 0 • 242 0 • 242 C • 225
TEXASQUE INC EXEMPTIAL AND ALL AND AL	0.695 <u>0.465</u> 0.701	C.278 C.333 <u>C.164</u> C.122 C.218	0.138 0.350	0.175 0.296 0.221 0.117 0.151	0.146 0.273 0.161 0.091 0.091 0.170	0.251 0.050 <u>0.655</u> 0.141 0.450	0.135 0.226 0.115 0.090 0.154 0.500	0.242 0.235 0.144 0.169	0.157 0.157 0.157	C • 218 C • 166 C • 225 C • 115 C • 154 C • 176	C.253 J.175 U.115 C.176 U.263 U.263 U.342	C.225 C.147 O.154 O.329
.INSEY-UWENS-FLAG (L	0.816	L.218	0.350	C.403	C.I/L	G.476	6.500	J.494	U. 196	C.17G	نيېدومان 	0.329
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APPENDIX 5

Ten-Year Returns for Electric Utilities On A State-By-State Basis

III-84

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			RA	TABL	E NO. DA TURN MEA								
	CCMPANY ΝΔΡΕ	RISK	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	AVERAGE
	dennen var den ser en den sen andere en anderen en den ser den den sen ad en sen ad en sen ad en sen ad en sen	97999999996999999999999999999999999999	radio anticipationes regionale il illipolitico e	AR 124	ante	ann an the second s	69 4 9442222244444	12422-1490-0-1490-0-2590-0-22-25-25	20-92- <u>91-9</u> 2-92-92-92-92-92-92-92-92-92-92-92-92-92	1 1	2012 - Cardina Arcada — 2017 - 10 anns	9899-999999999999999999999999999999999	en gane fin tit en an un Benergin (Barr Strand an and France)
	STATES REGULATING THE UTILIT) ARIZONA PUBLIC SERVICE CC TUCSUN GAS & ELECTRIC		ARE C.061 C.096	3 0.067 0.096	0.073	0.C76 0.100	0.069 0.084	0.074 0.083	0.081 0.078	0.076 0.071	C.C89 C.C93	0.086 0.100	0.075 0.090
	STATES RECULATING THE UTILIT PACIFIC GAS & ELECTRIC SAN DIEGO GAS & FLECTRIC SOUTHERN CALLE EDISEN CO	IES BELCW 0.240 0.511	AFE C.C84 C.087 C.C79	2ALIE0 0.084 0.088 0.073	0.083 0.052 0.072	0.C77 0.034 0.C75	C.C86 0.078 0.C71	0.084 0.069 0.073	0.083	0.68C 0.681 0.165	C.C70 C.C59	0.073	C.C8C C.C79 O.O75
	STATES REGULATING THE LTILIT. PUBLIC SERVICE CC CF CCLC			Colocas 0.085		0.C82	0.075	0.076	0.076	0.068	C.CE7	0.082	0.080
•	STATES REGULATING THE UTILIT: UNITED ILLUMINATING CC		4+E C.096	Cashect U.C.89	0.094	0.085	0.063	0.095	0.068	u.383	C.C76	0.074	0.082
	STATES RECULATING THE LITHIT DELMARVA POWER & LICHT	0.472	C.10C	-Delawar 0.103 Florida	0.057	C . C 79	0.080	C.C82	0.082	560.C	C.C74	G.070	0.085
-	STATES REGULATING THE UTILIT ELOSIDA PEARR & LICEL FLORIDA PEARR FLORIDA PEARR TAMPA ELECTRIC CC	0.636 0.773	C.103 C.106	0.108 0.108 0.101	0.114 C.11C 0.104	C.1C3 C.1C2 C.1C2 O.C98	0.108 0.099 0.075	C.C99 0.100 C.C98	0.090 0.096	0.091 0.075 0.075	C.1C3 C.1C3 C.1C4	0.100 0.100 0.105	0.106 0.099 0.097
	STATES REGULATING THE UTILIT SAVANNAH ELEC & POWER	LES BELCH 0.537	AGE C.085	16-corgin	0.091	0.086	0.075	C. C70	0.073	0.085	C.C58	0.093	0.095
	STATES REGULATING THE UTILIT			HAWA 0.091 11LINOIS	0.092	0 0.6880	0.086	0.085	0.039	0.091	<u> </u>	<u>C.100</u>	0.090
	STATES REGULATING THE UTILIT ILLINCIS FCAER CC COMMONWEALTH EDISCN CENTRAL ILL PUBLIC SERVICE	0.567	Calla	0.126	0.125 <u>C.1C2</u> 0.114	0.118 <u>C.C91</u> 0.1C7	C.1CC 0.C84 0.105 0.1C2	0.095 0.090 C.C92 0.092	0.096 0.092 0.087	0.089 0.089 0.089 0.079	C.CS4 C.CS4 C.CS4 C.C78	0.099	0.108 0.096 0.101
	CENTRAL ILLINCIS LIGHT STATES SERVICE CC FF IND PUBLIC SERVICE CC FF IND VORTHERN, INDIANA PLALIC, SERV	0.437 <u>LES_3ELON</u>	C.100 ARE C.115	0.099 <u>1801688</u> 0.119	0.101 g. C.116	0.105	-	0.103	0.087	0.110	C.C78	0.094	0.094
	INDIANAPULIS PLACE & LIGHI	0.094	C.117 C.116	0.116 0.114	0.114 0.109	0.123	0.053 0.104 0.104	0.104 0.118	0.198	0.035	C.C.S8 C.C.S7	J.107 C.105	0.106 C.105
	STATES RECULATING THE UTILIT IOWA POWER & LIGHT IOWA SOUTHERN UTILITIES CO	0.571	C.095 C.116	6.093 0.119	0.090	0.078 0.128	0.084 0.124	0.083	0.097	C.CSC 3.106 '	C.1C6 C.1C7	C.102 0.109	C.C52 0.113
	STATES REGULATING THE UTILIT KANSAS POWER & LIGHT KANSAS GAS & ELECTRIC	1ES 3ELCW 0.231 0.558	AFE C.103 C.11C	0.111 0.111	0.118	0.119 C.113	0.118 0.103	0.113 0.098	0.113 0.086	0.095 0.085	C.C59 C.1C5	0.095 0.102	0.1C8 0.103
	STATES REGULATING THE LILLIT LOUISVILLE GAS & ELECTRIC			KENTUCT		C.132	0.123	0.112	0.109	0.057	C.110	0.106	0.120
	STATES REGULATING THE UTILIT CENTRAL MAINE POWER CC Maine Public Service	1ES 3ELCW 0.310 0.491	ARE C.C98 C.C79	MAINE 0.096 0.078	0.091	0.C54 0.C51	0.084 0.075	0.C96 0.C83	0.090 0.097	0.C71 C.LCE	C.C.24 C.C.54	C.093 0.110	0.090
	STATES REGULATING THE UTILIT BOSTON EDISON CC FITCHEURG GAS & ELEC LIGHT	1 <u>ES 951 Ch</u> 0.525 0.387	ASE C.053 C.075	MASSACI 0.093 0.087	0.089	6 C.C78 O.C34	- 0.C75 0.C83	C.C69 0.C36	0.073 0.077	0.C34 0.074	C.C89 C.C86	0.091 0.095	0.083 0.083
	STATES REGULATING THE LINIT EDISON SALLT ELECTRIC DETROIT ECISON CO UNDER RENUSULA SCHER	0.0	ARE C.114 C.C91 C.C91 C.C87	0.114 0.087 0.087 0.087	C.1C1 0.385 0.086	0.090 0.073 0.075 0.075 0.089	C.C78 C.C72	C.C80 D.C79 0.C95	0.094	G.108 0.072 C.C7C 0.C58	C.C88 C.C74	0.082 0.076 0.098	0.055 0.078 0.085
-	ÚPPER PENINSULA POVER Consimers Pover or States Regulating The Utili7 Minnesota Power & Light	0.440 0.711 TIES_BELOW	<u> </u>	0.049 MINNE		Personality	0.073	0.676	0.099		C.C.76 C.CEO	0.095	<u> </u>
		0.390 IIES 3ELCW C.631 0.599		0.096 Mil Sseur 0.084 0.094	0.090	0.032	0.084	C.C80 C.C85 0.105	0.085	0.085 0.035	C.1C0 C.CSS C.CS2	0.104 C.110 0.097	0_C89 C.CSC 0.094
•	ST JOSEPH LIGHT & PCWER STATES REGULATING THE UTILIT NEVADA PCWER CO			0.094		0.095	0.106	0.105 C.090	0.094 0.078	0.082	C.C92	0.097	0.094
	STATES REGULATING THE WILLS CONCORD ELECTRIC CL				0.077		0.075	G.C84	0.073	0.081		0.106	0.083
-	STATES REGULATING THE UTILIT ATLANTIC CITY FLECTRIC PUBLIC SERVICE ELEC & GAS	TIES BELCH	APE C.C.46 C.085	1200 Je	0.082	0 0_0_076 0.07C	0.072	0.035	0.092	0-022	<u>C.C.56</u> C.T.9	0.100	0.085
	STATES REGULATING THE UTILIT BURLIC SERVICE CC FE N YEX			<u>New M</u>	ezico 			0.113	0.115	0.014	<u></u>	0_089	0.103
	STATES REGULATING THE UTILI LUNG ISLAND LIGHTING NIAGANA MEHANK POWER	0.490	C. C/6	32 220 γ 5.684 7.664	0.390 0.390	0 0.086	0.086	0.081	0.078 0.058	0.071	(.(SC C.(84	0.096	0.095
	NEW YORK STATE ELEC & GAS ORANGE & RUCKLAND LTILITIES ROCHESTER GAS & ELECTRIC GENTRAL HLOSON GAS & ELEC).534 0.637 0.606 0.480	C.C89 C.079 D.C85	0.083 0.076 0.078	0.077 0.072 0.074 0.078 0.058	C . C 72 0 . 077 0 . C 70	C-065 C-055 0-059	C.C74 C.C74 O.C71	0.075 0.075 0.089	0.021 0.070 0.065 0.065	C.C78 C.C52 C.C52	0.083 0.099 0.086 0.086	0.078 0.076 0.077 0.080
	CENSOLIDATED EDISEN OF N.Y.	0.302	C.C.5.5	9.082 9.061 Ohio	c		0.055	0.055 0.055	0.059	Gecil	<u> </u>	0.092	0.064
	STATES PEGULATING THE UTILI CHEVELANS FLECTRIC HIMM OHIO EDISCN CO CCLUMBUS & SOUTHERN CHIC TOLEDO EDISCN COMPANY CINCINNATI GAS ELECTRIC	0.603	C. 101	0.129 0.124 0.097	0.117 0.118 0.050	0.103 0.102 0.077	0.097 0.091 0.069 0.069 0.093	0.093 0.089 0.076 0.053	0.086 0.091 0.081 0.091	0.056 0.074 0.063 0.075	<u>C.CE3</u> C.CE5 C.IC1	0.092 0.039 0.039 0.058 0.089	0.103 0.099 0.085 0.096
-	DAY: UN PLWER & LIGHT	0.418 0.284 0.479	C.127	0.11C U.123 U.109	201.0 113 113 790.0 7	0.686	0.03	0.033 0.102 0.031	0.099	0.078	C.CS4 C.CS5 C.CS5	0.033	0.101
-	STATES REGULATING THE UTILI PORTLAND CENERAL ELECTRIC CO STATES REGULATING THE UTILI			Penns) C 0. 284 //88 N18	0 0	0.096	0.092	0.095	0.030	C.(50	0-092	0.066
	STATES REGULATING THE UTILI PENNSYLVANIA POWER & LIGHT <u>PHILATIPHIA FLECTRIC CO</u> DUQUESNE LIGHT CC	0.504	C.091 C.105	0.084 0.102	0.078 2.082 0.053	<u>C.074</u>	0.076 0.183 0.091	0.C86 0.C84 0.C89	0.091 0.033 0.086	920.0 920.0 930.0	(.(58 <u>(69</u> (51) .)	C.C95 0.093 C.O38	C.CEE 0.085 0.092
	STATES REGULATING THE UTILI South carclina fiec & gas			0.102	Gaeoli 2.254	0.081	0.075	<u>C.C31</u>	0.075	0.080	6.(59	0.095	0.088
	STATES REGULATING THE UTILL SCUTHWESTERN PUBLIC SERV CO SCUTHWESTERN ELEC SERVICE	TIES BELC 0.374 0.371	ARE C.093 C.031	400XAS		0 0.11C 0.007	0.116	0.109 C.100	0.108 0.103	0.120	C.1C9 C.1C4	C.119 0.103	0.109 0.097
	STATES REGULATING THE UTILI GREEN MOUNTAIN POWER CORP	TIES BELC	4 4 6 E C. C76	48erm	оъх с.074	0 0.075	0.039	0,040	0-061	0.087	c.cso	0.089	0.073

STATES REGULATING THE UTILITI PUGFT SCUND POWER & LIGHT	ES_8ĒLŐ₩ 0.476	ARE	4 3 163 (11) 0.063	ອ້າອີເອີ້ອີ 160-061	0.063	0.066	0.073	0.072	0.091	C . C \$2	0.091	0.073
STATES PEGULATING IFF HITLITI MADISUN GAS & ELECTRIC CO WISCONSIN ELECTRIC PCKER WISCONSIN POWER & LIGHT	ES <u>BFICW</u> 0-367 0.140 0.419	ARE C.C77 C.097	A0154048 0.075 0.085 0.112	0.088 0.092 0.107 0.107 0.116	0.084	0.08C 0.088	0.077	0.094 0.118 0.151	0.108	C.113 C.1C6 C.123 C.1C1	01CS 0.116 C.140	C.CE2 0.100
OKLAHOMA GAS E ELECTRIC SIEKRA PACIFIC PCWEF CO	0.342	C.105 C.C68	0.105 C.070 14:57ATR		0.103 0.120 0.073	0.093 0.11 0.074	0.078	0.117	0.1 <u>C</u> 0.035	<u> </u>	C.140 0.092 0.101	
STATES REGULATING THE UTILITE UTAH POWER & LIGHT STATES ASSOCIATING THE UTILITE	ES AGLEN	ARE	030.0	2 24	0.075	0_076	0.082	0.077	0.074	<u>C.(85</u>	0.107	162.0
ATTES DESCRIPTION OF CONTRACTOR WASHINGTON WATER PC VEP UNITA ELECTRIC CC SOUTHERN INDIANA GAS & ELEC ICMA-ILLINGIS GAS & ELEC EMPIRE DISTRICT ELECTRIC CO	0.282 0.403 0.445 0.734	C.C73 C.C81 C.113 C.113 C.113	0.080 0.082 0.117 0.105	0.080 0.083 0.119 0.059	0.081 0.087 0.120 0.088	0.082 0.114 0.075	0.080 0.065 C.126 0.110	0.081 0.074 0.130 0.095	0.085 0.115 0.095	C.CE7 C.LIS C.LIS C.LIS C.LIS	C.C98 <u>U.C99</u> 0.128 0.112	0.083 0.080 C.120 0.100
STATES A SUCATING THE CHILIT	0.326 ES SELCA 0.481	C.111 C.096	0.115. 20.099	0.IG4 0.094	0.109	0.097	0.094	0.094	0.094	C.C58	0.102	0.102
GULF STATES UTILITIES CC PUBLIC SERVICE CC CF N H	0°444 0°504	C.103 C.C83	0.105 0.088	0.103 0.089	0.098	C.C95 0,C72	0.099	0.097	C.1C2 0.C82	C.C93 C.ICO	0.092	0.099
CTATES DECIDENTIAL TESTINALIAL POTUMAC SLECTRIC FOVER LAKE SUPERIOR DIST FOVER CO	0.460 0.315	C.076	0.074 0.088	0.063 0.077	0.066	0.067	C.C77 0.C92	0.083	C.C88 0.085	C.C67 C.C57	0.094	0.075
MISCONSIN PUBLIC SERVICE I <u>GMA FIFCIRICI IGHT SPAR</u> INTERSTATE POWER CC PACIFIC POWER & LIGHT	0.291 0.713 0.436 0.487	C.106 0.091 C.C9C C.065	0.097 0.097 0.091 0.051 0.057	C.051 C.088 O.053 O.053	0.091 0.085 0.088 0.070	0.086 0.075 0.083 0.078	0.099 0.089 0.089 0.081	0.105 0.036 0.087 0.077	0.104 0.064 0.088 0.071	C.127 <u>C.C82</u> C.CE9 C.CE9 C.C78	0.147 0.093 0.088 0.082	0.105 0.084 0.085 0.074
NORTHAESTERN PUBLIC SERV CO	0.392	C.C89	0.088	0.093	0.097	0.103	0.099	0.090	0.088	C.(83	0.096	0.053
SINTER DECHANTING THE UTILITY COMMUNITY PUBLIC SERVICE EL PASO ELECTRIC CC	0.358	C.125	0.089 C.13C	0.133	<u>C.102</u> 0.127	<u>C.1C4</u> 0.122	<u>C.109</u> 0.125	0.107	0.056	<u>C.C96</u> C.IC7	0.107 0.113	0.059
STATES COLLETING TO STATES	<u> </u>	<u> </u>	<u>45</u>	2.067	0.62	0_051	<u> </u>	0,032	0.064	<u></u>	0-091	<u>0.0.67</u>
VIRGINIA ELECTRIC I E UTICATI VIRGINIA ELECTRIC I E CLER <u>DITERIAL PC * E CC</u> NORTHERN STATES PC * ER IDAHO PCWER CC	0.017 1.291 0.477	C.C96 C.C96 C.C56 C.O39	0.097 0.079 0.089	C.353 0.087 0.085	0.C84 C.090 Q.C88	C.C76 0.135 0.C35	0.074 0.103 0.045	0.020 0.024 0.024	0.065 <u>9.065</u> 0.075	C.CE8 C.CS1 C.1C5	0.090 0.105 0.110	0.085
IDAHO POWER GO <u>Stato</u> Bangor Hydro-elfo Co	0.363	0.074 C.102	0.081 1 1.095	0.087 16 2.087	0.092 0.078	0.096	0.094 0.085	0.035	0.096	C.C81 C.C89	0.093	0.088
STATES DEGULATING RE UTILITE BALILIDEE GAS & FLECTEL	E3 55007	AFE 112	20-113	0.112	Q <u>0.102</u>	0.055	0.689	0.039	0.074	<u>C.(83</u>	0.090	0.096
STATES DECULATING THE UTLETT DUKE POWER CO CAPOLINA POWER C LICHT IGWA PUBLIC SERVICE CC	0.612 0.609 0.304	C.108 C.096 C.103	33 0.105 0.099 0.110	0.094 0.091 0.103	0.066 0.066 0.073	0.071 0.078 0.100	0°C63 0°C93 0°C82	0.077	0.025	(.CSB <u>C.162</u> (.162	0.111 0.118 0.106	0.CEE 0.091 0.C97
SJALTE FEULATING THE STILLT		<u></u> <u></u> <u></u> <u></u>	<u>17.123</u>	20.122	0.167	0.058	0.093	0.099	<u>0.076</u>	<u>C.109</u>	0.059	0.105
STATES RECENTED A COTTETA	0.311	AFE C.119	20.114 41	0.125	U.127	0.123	0.120	0.116	0.160	C.C90	0.075	0.111
STATES RESULATELS ILE UTILITE BLACK HILLS POWER & LIGHT CO	0.428	6.083	0.084	0.081	0.077	0.098	0.102	0.104	0.055	C.1C1	0.091	0.092
		. R	ATE OF R	LE NC.5.2 Eturn pe								
CEMPANY NAPE	RISK	1967	1968	1969	1970	1971	1972	1973	1574	1575	1976	AVERAGE
nau an san san san san san san san san san	9995-00-0000-00-00-00-00-00-00-00-00-00-00-	MOTHER CONTROL AND MEMORY CONTROL	anten en de service de service de la serv	*	-Constant-D-Gradowing-y-Indian (C-12) and	nder 6 72 million in Anna Gan Ganadiga	4 (1997) (1997) (1997) (1997) (1997) 4	thraditaite and the second statements	90	9400424 CALIMAN, AFRICA, BANK, AFRICA, BANK, AFRICA, BANK, AFRICA, BANK, AFRICA, BANK, AFRICA, BANK, AFRI	and the state of t	
STATES REGULATING HE UTILIT. ARIZONA PUBLIC SERVICE CO TUCSON GAS & ELECTRIC	1ES 8ELOW 0.491 0.532	ARE C.060 C.092	AR12 0.062 0.094	0.070	C.C75 0.C96	0.066 0.077	0.068 0.070	0.081 0.069	0.078	C.CS6 C.IC1	0.092 0.112	0.075 0.087
STATES REGULATING THE UTILIT PACIFIC GAS & ELECTRIC SAN DIEGO GAS & ELECTRIC SUITHERN CALLE EDISCN CC	IES 35LCW 0.240 0.511 0.382	ARE (.CSO C.C86 C.C76	C.081 0.081 0.087 0.087	C.081 0.091 0.066	0.072 0.082 0.070	0.080	0.076 0.065 0.071	0.080 0.066 0.073	0.C82 0.C83 0.111	C.C76 C.C58 C.C83	0.073 0.088 0.087	0.077 0.078 0.077
STATES REGULATING THE UTILIT PUBLIC SERVICE CO CF COLO			COLO 0.080	C.0.082	0.078	0.069	0.068	0.070	0.070	6.089	0.086	0.077
STATES REGULATING THE UTILIT UNITED ILLUMINATING CC			ະ 0.079 ໄດ້	0.093	0.085	C.C63	J.C92	0.067	3 8 2 . 0	C.(74	0.074	0.080
STATES REGULATING THE UTILIT DELMARVA FORER LIGHT STATES REGULATING THE UTILIT		0.049	0.099 Flok.	0.090	0.070	0.064	6.665	J.074	0.087	C.C75	0.071	0.079
TAMPA ELECTRIC CO	0.773	C.100	0.105 0.098	0.114 0.103 0.096	0.03	0.057 0.089 0.072	0.083 0.092	0.080 0.080 0.094	0.097 0.073 0.075	C.138 C.112 C.113	0.119 0.119 0.113	0.106 0.096 0.094
STATES REGULATING THE LITHIT SAVANNAH ELEC & POWER			<u>1600791</u> 0.093 Hawan		0.078	0.061	0.050	0.067	0.087	C.1C3	0.103	0.082
STATES REGULATING THE UTILIT HAWAIIAN FLECTRIC CL STATES REGULATING THE UTILIT			<u>), C83</u>	0.050	<u>0.084</u>	0.084	0-032	0.087	380.0		0.100	880_0
STATES REGULATING THE UTILIT ILLINGIS POWER CC COMMENNEALTH EDISCA CENTRAL ILL PUBLIC SERVICE CENTRAL ILLINCIS LIGHT	0.567 0.487	C.120 C.112 C.112 C.095	0.123 0.123 0.108 0.115 0.096	0.117 0.054 0.113 0.099	0.110 0.041 0.102 0.100	0.095 0.071 0.055 0.051	C.C87 C.C78 0.C32 0.091	0.093 0.087 0.087 0.089	6.093 782.0 6.03 6.03 6.03 6.03 6.03 6.03 6.03 6.	C.110 C.CS5 C.CS5 C.CS5 C.CE8	0.106 0.102 0.098 0.101	0.106 0.091 0.100 0.094
<u>STATES PEGHATIAG THE LILLI</u> PUBLIC SERVICE CG CF IND NORTHERN INJIANA PLELIC SERV INDIANAPOLIS POMEP & LIGHT		APE C.112 C.113 C.113 C.110	0.113 0.113 0.112 0.107	0.119	0.102 0.116 0.1CC	0.088 0.101 0.095	C.1C3 J.C96 Q.107	0,119 0.096 0.098	0.122 0.090 0.090	C.119 C.1C3 C.1C5	0.142 0.107 C.120	C.113 O.105 C.1C3
STATES REGULATING THE UTILIT ICWA POWER & LIGHT IOWA SOUTHERN UTILITIES CO	1ES 8ELC» 0.353 0.571	ARE C.094 C.106	19WA 0.091 0.112	0.087 0.129	0.076 0.127	0.084	C.C82 0.127	0.100	0.053	C.1C8 C.107	C.109 0.112	0.092 0.117
STATES REGULATING THE UTILIT KANSAS POWER & LICHT KANSAS GAS & ELECTFIC			6.11C 0.11C 0.11C	0.114 0.116	C.119 0.107	0.113 0.092	0.113 0.C81	0.112	U.053 0.086	C.1C1 C.111	0.102	0.107 0.100
STATÉS RECULATING THE UTILIT LOUISVILLE GAS & ELECTRIC	163 BELCW 0.436	AFE 0.132	KEN.	0.142	0.132	0.123	0.112	0.115	C.1C5	C.122	0.129	0.125
STATES REGULATING THE UTILIT	TES AFLOW	405	Me	A LANDAR CONTRACTOR	III-86							

	ČENTRAL VAINE POWER ČC	0.310 0.491	C. C97 C. C79	0.095 0.077	0.090 0.085	0.091 0.090	0.082	0.096	0.090	0.078	C.C86 C.C93	0.094 0.106	0.090
	STATES SECULATING THE UTILIT BOSTON FOISON CC FITCHBURG GAS & ELEC LIGHT	1 <u>55 BFLCW</u> 0.525 0.387	<u>ARE</u> C.089 C.078	MASS 0.085 0.087	C.080 C.083	0.063 0.083	C.C56 0.C82	0.046 0.093	0.069 0.074	U.C83 0.074	C.CSC C.CSC	0.091 0.096	0.070 J.082
-#####################################	STATES REGULATING THE UTILLT EDISCN SALLT ELECTRIC DETROIT EDISON CO UPPER PENINSULA PEVER	0.0 0.714 0.440	AGE C.113 C.C36 C.086	Mich U.114 U.081 V.086	0.101 0.081 0.086	0.054 0.054 0.074	0.078 0.060 0.072	C.C80 0.063 0.C54	0.094 0.068 0.097	0.105	C.C83 C.C65 C.C74	0.082	0.094 0.072 0.084
3	STATES REGULATING THE UTILIT MINNESOTA POWER & LIGHT	1ES BELOW	APE C.084	<u>0.096</u> MiNN 0.094	0.088 0.088	0.079	0.066	0.065	0.069 0.076	0.02£	<u> </u>	0.100	0.086
Ailus nass, syn	STATES REGULATING THE UTILIT MISSOURI PUBLIC SERVICE CO ST JOSEPH LIGHT & POWER	1ES dELUW 0.631 0.599	AKE C.C83 C.J80	18,5500 0.068 0.059	ໃນ 0.J73 0.J85	C.C.99 0.095	0.077	0.082	0.080 0.093	0.054	C.1CO C.CS6	G.111 J.101	0.086 J.094
5	STATES REGULATING THE LTILIT NEVIDA POWER CC	0.650	APE C.C32	19eu 0.087	0.085	C.074	0.075	6.082	0.073	0.045	(.(67	0.036	0.080
eli lada que anages	STATES REGULATING THE UTILLT CONCORD ELECTRIC CC	ົບູບ	ARE C.063	0.075 3NIJ.	0.076	0-075	0.073	0.082	0.073	363.0	6.110	0.105	G_382
-	STATES REGULATING THE UTILIT ATLANTIC CITY FLECTFIC PUBLIC SERVICE FLEC & GAS	0.609	C.083	0.082	<u>C.077</u> 0.077	0.062	<u>G.C6C</u> 0.07C	<u>0.070</u> 0.056	0.076	0.074	<u>C.1C3</u> C.C84	0.107	0.081
4 	STATES REGULATING THE UTILIT		and the second	NM <u>0.098</u> MV	220.094	0.102	0.057	<u> </u>	0.107	0.091	<u> </u>	0,102	<u>a.1c3</u>
	STATES REGULATING THE UTILIT LONG ISLANC LIGHTING NIAGARA MCHANK DEWES NEW YORK STATE ELEC 8 GAS	0.530 0.530 0.534	C.C82 0.071 C.C35	JAY. 0.081 0.057 0.077	0.098	C.C81 0.054 0.067	0.079 0.054 0.063	0.073	0.077 0.054 0.070	0.075	C.(54 <u>C.(86</u> (.(£C	0.107	0.084
	OPANGE & ROCKLAND UTILITIES ROCHESIER GAS & ELECTRIC CENTRAL HLOSON GAS F.ELEC	0.637 0.606 0.480	0.078 0.081 0.081	0.071 0.065 0.080	0.065 0.062 0.076	0.073 0.063 0.057	0.046 0.068 0.075	0.056 0.070 0.077	0.070	0.072 0.072 0.070 0.070 0.042	C • C 85 C • C 85 C • C 85	0.039 0.098 0.094	0.073 0.075 0.075
, assessments	CONSOLIDATED EDISCN OF N.Y. STATES REGULATING THE UTILIT CLEVELAND ELECTRIC TILUM	0.902	C.057	0.057 ØH10	0.354	0 - C 4 5	C.C48	0.046	0.056	0.073	6.(63	0.095	0.061
	CHID EDISCN CC	0.603	C.126 C.119 C.C99 C.103	0.123 0.118 0.092	0.107 0.115 0.083 0.107	0.097 0.097 0.067 0.056 0.056 0.054	0.090	0.080 C.C80 C.C66	0.085 0.090 0.077	<u> </u>	<u>C.C96</u> C.C91 C.113 C.113	0.103 0.095 0.102	0.096
12	TOLEDO EDISCN COMPENY CLYCINNATI DAS E ELECIRIC DAYTON POKER & LIGHT	0.413 <u>0.214</u> 0.479	C.120 C.120	0.106 0.119 0.102	0.110	0.098	0.035	0.032 0.092 0.074	0.086 0.097 0.067	0.034 0.044 0.071	C.115 C.285 C.160	J.111 0.086 0.102	0.097 0.057 0.088
	STATES REGULATING THE UTILIT PORTLAND GENERAL ELECTRIC CO			<u>or.</u> <u>0.077</u>	<u></u>	0.679	0.092	J.C33	J.082	<u>J.C84</u>	<u> </u>	0.105	<u>650.0</u>
14	STATES PEGULATING THE UTILIT PENNSYLVANIA POWER & LIGHT PHILADELPHIA ELECTRIC CO DUGUESNE LIGHT CC	TIES BELCH 0.441 <u>0.438</u> 0.504	ARE C.C.3 <u>C.U.S.</u> C.101	Pena J.077 J.082 J.082	0.071 0.073 0.083	0.056	285.0 285.0 285.0	0.076 0.068 0.075	0.087 0.077 0.083	0.105	(.1(1 <u>C.C96</u> (.112	C.100 0.102 0.095	0.082 0.031 0.089
-	STATES REGULATING THE UTILIT			45. C.	0.086	<u>Ú. C69</u>	0.065	<u>C.C71</u>	3.070	0.682	<u> </u>	0.106	0.085
14	STATES PEGULATING THE UTILIT SOUTHWESTERN PUBLIC SERV CO SOUTHWESTERN FLEC SERVICE	TIES BELCW 0.374 2.371	AFE C.092 C.040	4).098 0.098	0.106	0.107	C.111 0.CS8	0.107	0.110	0.124	C.116 C.1C4	C.121 U.103	0.109
	STATES REGULATING THE UTILIT GREEN MOUNTAIN FOWER CORP			Her 0.068	0.063	0.064	0.027	0.050	0.061	0.088	C.(91	0.090	0.068
	STATES REGULATING THE UTILIT PUGET SCUND POWER & LIGHT	TIES BELCW	ARE C.C58	10 ASH	0.060	0.061	0.062	0.676	0.071	Ú.CSE	C.(52	C.CS2	0.072
	STATES PEGLIATING THE UTILL MADISON GAS & ELECTRIC CO WISCONSIN PEECTRIC PEMER WISCONSIN PEWER & LIGHT DELAMEMA GAS & ELECTRIC	0.367	AEE C.C76 C.C97	AN:5. 0.077 0.085	0.084 0.086 0.0955	0.070 0.076	0.066	10.001 101.0 280.0	0.091 0.118 0.100	0.100	C.124 C.110	C.116 J.121 0.151	0.C86 0.099 0.108
2-100-000-000	WISCONSIN POWER & LIGHT <u>OKLAHOMA GAS & ELECIRIC</u> SIEPRA PACIFIC POWER CC	0.419 0.342 0.502	C.110 C.103 C.C65	0.109 0.101 0.065	0.067	0.098 0.114 0.069	0.083	0.083 0.114 0.070	0.100	0.107 117.0 280.0	C.136 C.111 C.C84	$ \begin{array}{r} 0.151 \\ 0.101 \\ 0.101 \\ 0.101 \end{array} $	0.108 0.110 0.076
1	STATES ASCULATING THE UTILY SUIAH POLEE S LICHT	HES BELLW C. 144	- <u>6. UZB</u>	Multis D.076	1718 -5 0.015	9-0-069		0.077	<u>0.075</u> .	N. C73	<u>C.C.F.7</u>	<u>C.114</u>	0.679
	STATES PECULITIAN HE UTICH WASHINGTON WATER PEVER UNION ELECTRIC CO	0.272	C.C73 C.076	J.079 0.077	12 0.079 0.075	0.C78 0.C77	0.077	0.074	0.081	0.084	C.CE8 C.CE8	0.098	0.081
	SCUTHERN INDIANA CAS & ELEC ICWA-ILLINCIS GAS & ELEC EMPIRE DISTRICT ELECTRIC CO	0.445 0.734 0.326	C.113 C.108 C.110	0.116 0.098 0.113	0.113 0.389 0.051	0.112 0.074 0.101	0.108 0.063 0.096	0.111 0.098 0.093	0.122 0.095 0.093	0.110 0.098 0.094	C.122 C.1C4 C.C58	0.135 0.114 0.103	0.117 0.094 0.099
,	STATES REGULATING THE UTILE KANSAS CITY POWER & LIGHT	1113 3515m 0.481	17E C.094	0.092	<u>រ</u> ុំប្រុះប្រុះប្រុះប្រុះប្រុះប្រុះប្រុះប្រុះ	0,085	0.082	0.077	0.078	0.089	¢.(95	0.104	0.089
ND OF	GULF STATES UTILITIES CC PUBLIC SERVICE CG CF N H	0.454 0.564	C.10C C.077	ປ.098 ປ.ປ84	0.095 0.086	U.C98 0.C78	0.037	C.C90 0.062	0.095 0.066	C.1C5 J.C34	C.1C3 C.1G1	0.100 0.094	0.090
No of	STATES JEGHATIAL IEL THE POTOMAC ELECTRIC POLER LAKE SUPERIOR DIST FELER CO WISCONSIN PUALIC SERVICE HUMA-ELECTRIC.LIGET & PWR	0.460 0.315	C.076 C.030	51 J.074 J.087	0.063	0.066 0.072	C.C67 0.C82	0.077	0.090	0.101	C.CE1 C.CS9	0.110	0.081
	INTERSTATE PUBER LL	0.430	C.105 0.034 C.086	0.094	0.084	0.085 <u>0.090</u> 0.086	0.076 0.065 0.038	0.091 0.086 0.071 0.083	0.105 0.071 0.084 0.076		C.C32 C.C32 C.C53 C.C75	0.089 C.156 0.093 0.093	0.105
,	PACIFIC POWER & LIGHT STATES SECTORES TO A CONTENT NORTHWESTER'S PUBLIC SERV CO	0.487	C.064	0.065	0.066 27.0 29.092	0.063	0.067	0.069	0.076	0.071	C.C91	0.083	0.070 0.093
_ \	STATES COLLATING THE STATE		46.083	43	31	0.101			0.107	0.095		0.108	
,,	EL PASO ELECTRIC CC STATES SECULATING THE STILL CENTRAL VERVINT PLE SERV	0.353	C.123	0.089 0.123	0.128	0.124	0.103	<u>C.168</u> C.120	0+150	0.116	<u> </u>	0.117	<u>9,099</u> 0,120
1			AFE COF		33, 292	0.052	<u></u>	0.055	0.031	0_065	<u> </u>	0.095	<u> </u>
12	STATES RECENTATING THE STILL VIRGINIA ELECTRIC & POWER OTTER TAIL POWER CC NORTHERN STATES POWER IDAHO POWER CC	0.617 0.251 0.477 0.363	ARE C.C95 C.DH5 C.C83 C.C83 C.C68	C.091 D.079 J.C85 D.081	0.083 0.086 0.082 0.082 0.087	C.070 0.090 0.078 0.091	C.C56 0.103 C.C76 0.095	0.C49 0.C97 C.C80 C.C80 C.C90	0.068 <u>0.102</u> 0.075 0.084	0.066 101 0.101 0.021 0.090	C.CS6 C.1C4 C.111 C.C83	C.101 C.106 C.117 C.117 C.095	0.077 0.094 0.087 0.086
1	STATES SECULIES IN THE SECOND	0.303	C.10C	0.093		0.091	0.045	0.085	0.061	0.09C	C.C93	0.063	0.000
14	STATES JEGULATING THE UTILE		AFG. C.LL2		38 0.107	daliga	0.091	0.069	U_D94	0.675	<u> </u>	<u>G.103</u>	0.054
	STATES PEOULATIAS THE UTILL Duke power CC Caeolina Power e light		C.104 C.090	0°096	40 0.082 0.085 0.100	0,050	0.052	0.047	0.065	C.C84	C.1C1	0.123	0.080
1	IOWA PUBLIC SERVICE CC	0.304	C.102	J.109	0.100	C.C87	0.056	0.080	0.085	0.085	6.162	0.110	0.036
) francesson (STATES FEELD ATTAC THE OTHER KENTUCKY UTILITIES CC	0.405		 	0.11? 50	0.097	<u>0.090</u>	0.035	0.099	0,035	<u> (.116 </u>	0.167	<u>Q.1C4</u>
	MONTANA POWER CC	0.311	C.116	- Ŭ.111		C.127	0.122	0.118	0.118	0.104	C.C91	0.074	0.111
					TT	1_87							

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States regulating the utili BLACK HILLS POWER & LIGHT C	C 0.428 0.		0.076	0.077	0.098	0.102	0-105	0.107	2،106	0.102	0.094
ĸĸĹĸĸġĸĸġĸĸġĸġġġġġġġġġġġġġġġġġġġġġġġġġ	zz sze adlaktikistossaga előrikonson ganga előkötönninnen		NE NO.63	ASURE 3	IGORCUPATION IN COMMUNICATION	and the second secon			202273724967************************************		
CCMPANY NAME	RISK 1	.967 1968	1969	1970	1971	1972	1973	1974	1575	1976	AVERAGL
	and a start of the	and the second	aman (2001) 100-100 av 100-000 (710000)	7627470/7070109000000000000000000000000000000	Trade of the state	-					و المحرك المالي المراجع الم
STATES REGULATING THE UTILI AKIZONA PUBLIC SERVICE CO TUCSON GAS & ELECTRIC		102 0.120 180 0.179	0,134 0,183	0.143 0.185	0.124 0.144	0.124 0.139	0.131 0.122	0.105	C.146 C.150	0.117 0.166	0.125
STATES REGULATING THE UTILI PACIFIC GAS & ELECTFIC SAN DIEGO GAS & ELECTRIC SGUTHERN CALLE FILSCN CO	TIES BELOW AFE 0.240 0. 0.511 0. 0.392 C	161 0.159 165 0.169 143 0.125	C	0.131 0.147 0.123	C.145 0.129 0.105	0.142 0.090 0.112	0.135 0.081 0.111	0.120	C.C86 C.C42 C.123	0.090 0.125 0.127	0.13
STATES REGULATING THE UTILI PUBLIC SERVICE CO (F CCLU		201 158 0.165	6.161	0.150 [°]	C.128	0.134	0.129	0.094	C.158	0.141	0.14
STATES REGULATING THE UTILI UNITED TILUMINATING CC STATES RECULATING THE UTILI		205 0.186	<u>60.203</u>	0.174	G.107	C.213	0.118	0.145	C.111	0.102	0.15
DELMARVA FOWER & LICHT STATES REGULATING 114 UTILI	J.472 C.	.203 0.216	0.154	0.138	C.138	C.130	0.124	0.117	6.690	0.032	0.143
FLUEIDA PENER ALIGET FLUEIDA PENER CERP TAMPA ELECTRIC CG	0.636 C 0.773 C	187 Ú 203 192 0.206 228 0.203	0.194 0.210 0.198	0.171 C.133 O.18C	0.133 0.171 0.118	0.164 C.174 C.179	0.178 0.147 0.170	0.13= 0.091 0.105	<u> </u>	0.134 0.155 0.177	0.17 0.17 0.17
STATES RECULATING THE UTILI SAVANNAH ELLO & POWER	0.537 0	e <u>ire</u> .162 J.183 e H .	0.173	C.153	G.119	0.699	J.J78	0.093	C.137	0.118	0.131
STATES PECULATING HE UTILI HAWATTAN ELECTRIC (C STATES RECULATING THE UTILI			0.162	0.147	0.135	<u>C.129</u>	<u> </u>	0.135	<u> </u>	0_155	<u> </u>
STATES RECULATING THE UTILI ILLINGIS PEARR CO COMPANIAL FOISTA CONTRAL ILL PUBLIC SERVICE CENTRAL ILLINGIS LICHT	0.567 C 0.487 C	E 19 0.274 219 0.215 245 0.245 197 0.186	0.270 0.191 0.238 0.192	C.244 C.164 C.208 O.208 O.203	G.186 <u>G.144</u> C.198 O.187	0.165 <u>C.161</u> 0.158 0.175	0.154 <u>0.154</u> 0.145 0.141	0.143 0.134 0.145 0.112	C.179 C.144 C.159 C.111	0.151 0.147 0.145 0.153	0.205 0.163 0.189 0.16
STATES REGULATING THE UTIL PURLIC SERVICE CO OF INC NORTHERN INVIANA PURLIC SER INDIANAPOLIS POWER & LIGHT	1715 35LC% AF 0.423 C V 0.337 C C.694 C	E (2) .210 J.223 .247 U.241 .247 D.245	0.217 0.231 0.238	C.205 0.240 0.213	C.165 0.197 0.208	0.196 C.200 0.239	0.205 0.181 0.194	C.153 0.136 0.136	C.18C C.164 C.169	0.232 0.191 C.180	C.2C 0.203 C.207
STATES REGULATING THE UTIL IGWA POWER & LICHT IGWA SOUTHERN UTILITIES CU	TTES BELEW AP	والمرجع فالمترجع ومعاد معاد المحاصر والمتحافظ والمحافظ والمحافظ والمحافظ والمحافظ	0.19C	0.145 0.230	0.160	G.150 0.222	0.185 0.186	0.154 0.171	C.159 C.174	0.178	0.17
STATES REGULATING THE UTIL KANSAS POWER & LIGHT KANSAS GAS & ELECTRIC	ITIES BELOW AR 0.281 C 0.558 C	E 0.202 .19C 0.202 .222 0.221	0.211	C.217 0.214	C.211 C.189	C.194 0.170	0.188	0.148	C.16C C.153	0.151	0.187
STATES REGULATING THE UTIL LOUISVILLE GAS & ELECTRIC	ITLES DELCH AR	.247 0.263		0.240	0.223	0.198	0.198	G.155	C.195	0.184	0.21
STATES REGULATING THE UTIL CENTRAL MAINE POWER CC MAINE PUBLIC SERVICE	1TIES 3FLCW AR 0.310 C 0.491 C	E Me 191 0.136 144 0.135	0.176	0.174 0.155	0.144 0.124	0.174 0.137	0.153	0.117	C.136 C.162	0.145 0.190	0.160 0.158
STATES RECHLATING THE UTIL BOSTON EDISON CO FITCHBURG GAS & ELEC LIGHT	0.525 0	E Ms .167 0.168 .133 J.151	0.126	0.126 0.116	0.109	0.091 0.125	0.039	0.096	C.115 C.115	C.110 0.141	0.12
STITES REGULATING THE UTIL EDISCN SAULT ELECTRIC DETROIT ECISCN CO UPPER PENINSULA POWEP CUNSUMERS POWEP CC	0.0 0	F 0.225 .232 0.225 .160 0.155 .169 0.164 .198 0.186	0.152 0.153 0.157	0.16C 0.118 0.123 0.157	0.130 0.107 0.121	0.136 0.121 0.176	0.100 0.103 0.175	0.197 0.084 0.088	C.138 C.CES C.115 C.114	C.116 0.088 0.192 0.192	0.169 0.118 0.147 0.147
STATES PEGULATING THE UTIL MINNESOTA POWER & LIGHT			0.184	0.166	0.175	C.161	0.156	0.150	(.195	C.184	0.17
STATES REGULATING THE UTIL MISSOURI PUBLIC SERVICE CO ST JOSEPH LIGHT & PCWER	ITIES BELCW AP	E Mo. 215 0.194 .179 0.205	J.194 0.175	0.201	C.161 0.220	0.186	0.144 0.158	0.173 0.14Ĕ	C.15G C.154	C.216 0.153	0.187
STATES RECULATING THE UTIL NEVADA POWER CC		E. 157 0.166	0.162	0.137	0.128	0.153	0.106	0.096	C.C58	0.111	0.12
STATES REQULATING THE UTIL CONCORD ELECTRIC CC		10C G.139		0.122	C.126	0.142	0.103	0.133	C.220	C.188	0140
STATES REGULATING INE UTIL ATLANTIC CITY ELECTRIC PUBLIC SERVICE ELEC & GAS	0.609 (0.159 0.160		0.139	0.120	0.148 0.089	0.137	0-122 0-103	C.167 C.120	0.169 0.161	0.15
STATES REGULATING THE UTIL				0 0.192	<u>176</u>	0.195	0-195	0-137	<u>C.16C</u>	0.128.	<u> </u>
STATES REGULATING THE UTIL LONG ISLANC LIGHTING MIACAPA YCHALK COVER NEW YORK STATE FLECTS GAS	0.534		9 0.115 9 0.14C	0,120	0.167	0.143	0.129	0.115	C.146 C.130 C.114	0.154	0.15
ORANGE & ROCKLAND LTILITIE ROCHESTER GAS & ELECTRIC CENTERL HIRSON CAS & ELEC CONSULIDATED ESISCN OF N.Y	0.506 (C.177 0.16 C.17C 0.14 C.17C 0.17 C.C99 0.10		0.109	0.050 0.105 <u>0.163</u> 0.649	0.082 0.112 <u>0.133</u> 0.063	0.108 0.151 0.142 0.072	0.082 0.087 0.062 0.097	C.147 C.120 <u>C.136</u> C.130	0.169 0.127 <u>0.154</u> 0.150	0.120
STATES REGULATING THE UTIL	ITIES BELOW A	E Ch 228 0.23 C.241 0.23	5 0.225	0.190	0.172	0.169	0.145	0.175	<u>C 141</u> C 127	- 0.153 0.131	0.18
OAIG EDISCN CC CCLUMBUS & SOUTHERN CHIC TOLEON EDISCN CCMPANY CITA INNATI CAS & ELECTRIC DAYTON POWER & LIGHT	0.503 0.419 0.214 0.479	C.241 0.23 C.201 0.19 C.247 0.25 C.255 0.25 C.277 0.23	3 0.175 7 0.250 1 0.266	0.221	0.158 0.097 0.202 <u>0.184</u> 0.154	C.122 0.202 1.201 J.142	0.159 0.126 0.178 0.185 0.103	0.103 0.055 0.117 0.134 0.096	C.181 C.167 <u>C.127</u> C.166	0.154 0.147 0.125 0.160	0.14
STATES REGULATING THE UTIL	TIES BELOW A			0_121	0.153	0.141	<u>118</u>	<u> </u>	<u> </u>	0,133	<u> </u>
STATES REGULATING THE UTIL PENNSYLVANIA POKEP S LIGHT 2HILADELPHIA ELECTRIC CO DUDUESNE LIGHT CC	LTIES BELCW A 0.441 0.433 0.504	RE Pe. C.195 U.18 C.175 D.15 C.244 0.23	1 0.154 6 0.208	0.059 0.113 0.154	0,13C 0,13C 0,137 0,173	0.156	0.160 0.125 0.132	G.18C J.114 0.126	C.177 C.127 C.148	0.153 0.130 0.116	0.15 0.13 0.16
STATES REGULATING THE UTIL		RE 52	officerences		•		0.101	0.108		0.144	Q4
STATES REGULATING THE UTIL SOUTHWESTERN PUELIC SERVICE SOUTHWESTERN FLEC SERVICE	1TIES JELCW A C 0.374 0.371	KE 400 C.199 U.21 C.190 U.18	and the second second second	events call to a log of the log o	0.235	0.209 0.210	0.213	0.24 E	C.217 C.205	0.245	0.22
STATES REGULATING THE UTIL GREEN MOUNTAIN POWER COPP	ITIES BELOW A 1.063	FE 4/0. C.163 0.15			0.003	0.088	0.049	0.135	(.155	C.166	0.11
			III	- 88							

	STATES REGULATING THE UTILITI PUGET SCUND POWER & LIGHT		ARE C.096	47JA.	0.090	0.087	0.095	0.115	0.105	C.151	C.151	0.142	0.113
1	MADISÓN GÁS 6 ÉLECTFIC CÓ WISCONSIN ELECTRIC FOWEP WISCONSIN POWER & LIGHT OKLAHOMA GAS 5 FLECTRIC	ES <u>3E1 CW</u> 0.367 0.140 0.419 <u>0.342</u>	ARE C.118 C.187 C.225 C.226	34); 0.122 0.155 0.234 0.230	0.14C 0.17C 0.224 0.259	0.117 0.146 0.213 0.260	C.128 O.158 O.177 O.237	C.119 0.209 0.178 0.229	0.160 0.239 0.180 0.221	0.13E 0.195 0.163 0.184	C.157 C.153 C.233 C.169	C.171 0.197 0.264 0.144	C.141 O.185 C.209 O.216
	SIERRA PACIFIC FOWER CO STATES OF SULATING THE UTILITY UTAH POWER & LICHT	0.502	C.114	0.113 49/411	0.104 IISTATE 0.138	0.103 0.129	0.110	0.121	0.126	0.128	C.118	0.163	0.120
]	STATES RESULTION IN STREET			Ú.156	0.156	0.146	eccial	0.137			C.149		0.147
	SCUTHERN INDIANA GAS & ELEC	Ű=445	C.218 C.215 C.209	0,163	0.164	$\frac{1.167}{0.227}$	C.144 C.11C O.214 C.12C	0.086 0.236	0.137 0.110 0.236 0.153	0.142 0.094 0.197 0.197	C.156 C.158	0.173 0.187 0.213 0.187	0,220
\$ 	ICHA-ILLINCIS GAS & ELEC EMPIRE DISTRICT ELECTRIC CO GATERS CALLER FOR ELECTRIC KANSAS CITY POWER & LIGHT	0.734 0.326	C. 209	0:221	0.196	0.157	0.12C 0.17C	0.214 0.161	0.153	C.162 0.147	C.181 C.155	0.187 0.165	0.180
à	STATES DECLATING IF UTILITIES CC	Subana Subana Sugar	employee and the second	0.190	0.178	0.156	0.155	0.148	0.131	0.143	C.152	0.151	J.159
	PUBLIC SERVICE CD CF N H	0.434 0.564	C.216 C.165	0.221 0.185	0.205 0.192	0.188 0.166	0.163 0.118	0.178 0.116	0.172 0.104	0.176 0.105	C.152 C.172	0.145 0.142	0.182 0.146
) discussions	POTOMAC ELECTRIC POWER LAKE SUPERIOR DIST POWER CO WISCONSIN PUBLIC SERVICE	0.460 0.315 0.291 0.713	C.144 C.149 C.232 C.176	0.133 0.169 0.213 0.174	0.195 0.140 0.156	0.094 0.124 0.199 0.156	0.095 0.147 0.154 0.126	C.127 0.174 0.185	0.140 0.155 0.194	C.143 0.156 0.133	C.175 C.175 C.248	0.159 0.141 0.295	0.120 0.153 0.210
ĝ 	INTERSTATE POWER CC PACIFIC POWER & LIGHT	0.713 0.436 0.487	C.176 C.204 C.108	0.174 0.201 0.113	0.167 0.205 0.114	0.156 0.199 0.112	0.126 C.19C C.137	0.163 C.193 0.142	0.194 0.125	0.153 0.245 0.186 0.290	C.179 C.179 C.12	0.295 0.148 0.156 0.17	C.140 C.190 O.117
, <u> </u>	STATES THE STERN PUBLIC SERV CO	0,392	0.176	0.173	27 0.181	0.192	0.208	0.196	J.157	G.137	C.1C7	0.168	0,169
.0	STATES RECULATING THE UTILITY COMMUNITY PURCES SERVICE EL PASO ELECTRIC CC	<u></u>	4RE C.162 C.232	<u></u>	0.128 0.254	0.185 0.233	<u> </u>	<u>C.202</u> 0.230	0.193 0.212	0.144	6.151	<u></u>	3:176
1	STATES RESEATING IFE CITETT			45.131	32 0.110	0.040	6.651	0-086	-0_004	0.065		0.135	6.053
	STATES ASSOCATING IFF UTILITI VIRGINIA ELECTRIC & POWER MITER TALL POWER CO	LS SELCA	C.153	46 0.189 0.152	33 C.175 O.168	8 0.15C 0.173	0.114	0.106	0.111	0.072	C.12C	C.124	0.135
12	NORTHERN STATES PEWER IDAHO POWER CC	0.477 0.363	C.173 C.199 C.131	0.152 0.202 0.148	0.168 0.197 0.160	0.173 0.179 0.169	0.176 0.176 0.190	0.190 0.190 0.174	0.151 0.147	0.138 0.144 0.147	C.152 C.152 C.112	0.187 C.192 0.143	0.174 0.182 0.151
:]	SANGUR HYCRO-ELEC CC	0.524	C.213	C.192	3.0 0.176	0.145	0.111	0.169	0.100	<u>4.118</u>	C.178	C.C79	0.148
} 4	ALLINCE GIS & ELECTRIC	<u>23 2528</u> 0.423	24 C . 24 C	0.247	3-3-2-38	<u> </u>	<u> </u>	0.150	0.148	2.C9E	<u> </u>	<u> </u>	
15	STATES REGULATING THE UTILITY Duke Power Co Casciina Power & Licht	0.612 0.612	C. 216 C. 136	J.216 0.201	0.186	0.093	C.139	C.C91 C.182	0.113	0.121 J.J.E	C.152 C.167	0.188	0.148
•	IOWA PUBLIC SERVICE CC SCITES RESULATING THE CTILIT KETTICKY LITH LITES CC	0.304	C.200	0-213	0.197	0.169	0.198	0.147	0.139	0.153	C.180	0.168	0.175
14	KETTICKY LILLIIES CC GTATES RECLATING THE UTILIT MONTANA POWER CC			20.204 20.190	-0.207 30	0.178	6	0.149	0.155	<u> </u>	<u></u>	0.148	<u>C.169</u>
	STATES TECHNALLAS IN UTILIA BLACK HILLS POWER & LIGHT CO		C.200	41 0.147	0.221	0.213	0.203	C.194 0.170	0.187	0.154 J.165	C.139	0.094	0.179
, allestonsaleigen	BEAGA MILLS FUNLA & LIGHT CO	0.720			LE NO.54			· · · · · · · · · · · · · · · · · · ·					
1			R	ATE OF R									-71
	CCMPANY NAME	. RISK	1967	1968	1969	1970	1971	1972	1973	1574	1575	1976	AVERAGE
]	na hafar in an			ra eren 1999 gan gan gan an a						1999-1993-1994-1994-1994-1994-1994-1994-			Prato presidente la 18 de 19 an
\$	STATES REGULATING THE UTILIT	IES BELCW	ARE 0.098	0.104	0.122 0.17C	0.139	0.115	0.106	0-149	0.164	C.374 C.295	0.284	0.165 0.155
5	TUCSON GAS & ELECTRIC	0.532	C.165 AFE C.149	0.172 CA 0.151	i den marten ander	0.176	ui#	0 1 2 0	0.138	-0.072			
	STATES REGULATING THE UTILIT PACIFIC GAS & ELECTFIC SAN DIEGO GAS & ELECTFIC SCUTHERN CALLE FOLSON CC	0.511	C.162	0.166	0.147 0.174 0.174	0.142	0.133 0.117 0.096	0.120 0.030 0.136	0.072	0.154 0.125 0.253	C.C58 C.C23 C.160	0.108 0.213 0.193	0.132 0.127 0.139
7	STATES REGULATING THE UTILIT PUBLIC SERVICE CC (F CCLD			0.152	0.157	0.135	GallC	0.108	0-118	C.12C	Ç.219	0.191	0.146
	STATES REGULATING THE UTILIT UNITED ILLUMINATING CC			CONN J.154 Del	C.2C1	0.173	0.164	0.202	0.146	2.526	C.143	0.112	0.394
8	DELMARVA POWER & LIGHT	0.472	6.201	0.206 F1	G.175	0.111	0.086	0.679	0.112	0.130	C.1C6	0.089	0.134
¢	STATES REGULATING THE UTILIT ELORIDA POWER C LIGHT FLORIDA POWER CORP TAMPA ELECTRIC CC	0.636 0.773	C.187 C.189 C.210	0.197	0.194 0.192 0.176	0.171 0.169 0.149	0.155 0.144 0.109	0.124 0.133 C.160	0.193 0.155 0.178	0.061	C.446 C.446 C.255	0.212	0.236 0.212 0.182
18	STATES RECULATING THE UTILIT SAVANNAH ELEC & POWER			16-e 10-131	0.162	0.127	0.075	C. C66	0.059	0.140	C.279	0.191	0.144
12	STATES REGULATING THE UTILIT			12 A 0.156	0.157	0,137	0_128	0.118	0.132	0_136	0.166	0.161	0.143
	STATES REGULATING THE UTILIT			2.5		0.223 C.136	0.173	G.145 0.126	0.168	U.181 0-162	C.225	0.197	0.209
12	COMPONDEALTH EDISCN CENTRAL ILL PUBLIC SERVICE CENTRAL ILLINCIS LICHT	0.307 0.567 0.467	C.212 C.242 C.174	0.203 0.243 0.177	0.172 0.235 0.187	<u>C.136</u> J.157 0.191	0.106 0.171 0.158	0.126 0.132 0.153	0.154 0.149 0.163	0.162 0.179 0.196	C.234 C.234 C.376	J.223 J.251 C.231	0.143 0.203 0.201
13	STATES REGULATIAS THE UTILIT PUBLIC SERVICE CO OF IND NORTHERN INDIANA PLELIC SERV INDIANAPCLIS POWER & LIGHT	LES BELCL 0.423 0.337 0.694	ABE C.203 C.237 C.231	0.214 0.230 0.225	0.204 0.224 0.210	0.187 0.230 0.204	0.152 0.188 0.192	0.193 0.179 0.209	0.240 0.216 0.188	U.32C 0.223 0.172	C.257 C.267 C.325	C.326 0.254 C.711	0.233 0.225 0.267
14	STATES REGULATING THE UTILIT IOWA POWER & LIGHT IOWA SOUTHERN UTILITIES CO	IES BELOW		IGWA	0.131	0 0.139 0.228	0.155	0.143 0.218	0.212	0.187 0.261	C.241 C.2C4	0.247	C.191 0.217
3	STATES REGULATING THE UTILIT KANSAS POWER & LIGHT KANSAS GAS & ELECTFIC			ZA-	C.2C4 0.231	0.198 0.198	C.199 0.158	0:194	0.137 0.137 0.123	0.144	C.174 C.317	0.232	0.192
18	STATES PEGULATING THE UTILIT LUJISVILLE GAS & ELECTRIC			ke	0.231	0.240	0.223	0.120	0.123	0.145	C.261	J.333	0.284
	STATES PEGHATING THE UTILIT			Me			~ ~ j	9679		A.766			
					ттт	0.0							

ČENTRAL MAIRE POGEP ČC	0.310 0.491	C.191 0.143	0.185 0.133	C.172 0.153	0.166 0.153	0.139 0.123	0.174 C.136	0.156	0.123 0.195	G.155 C.157	0.182 0.181	0.164 0.155
STATES REC'LATING THE UTILIT BUSTUN EDISCN CC FITCHBURG GAS & ELEC LIGHT	0.525 0.387	C.156 C.131	0.157 0.149	0.133 0.125	0.085	0.048	0.018 0.119	0.078 0.096	0.103.	C.131 C.111	0.114 0.150	0.102 0.117
STATES PECHATIAG THE UTILITI EDISON SAULT ELECTFIC DETROIT EDISON CO UPPER PERINSULA POWER CONSUMERS POCER CC	0.0 0.0 0.714 0.440	ARE C.229 C.149 C.165	Mich 0.224 0.141 0.162	0.192 0.142 0.156 0.156	0.159 0.C94 0.121	C.129 0.073 C.119	0.136 0.078 0.174	0.168 0.085 0.172	0.262 0.08C 0.088	C.127 C.C79 C.114	0.116 0.094 0.185	0.168 0.101 0.145
STATES REGULATING THE UTILIT	<u> </u>	<u>C_193</u>	<u>0.178</u> 24.0 0.190	0.178	0.138	<u>0.148</u>	<u>č čáj</u> 0.107	0.128	0.157	<u> </u>	-0.229	0.168
STATES PEGULATING THE UTILIT. MISSOPE PUBLIC SERVICE CG ST JOSEPH LIGHT & PCWER			210 0.126 0.190	0.129	0.192	0.153	0.175	0.142	C.182 0.192	C.2C3 C.152	0.226	0.171 0.187
STATES REGULATING THE UTILIT NEVADA POWER CC		4FE C.143	Ne 0.152	0.146	0.103	C.104	0.129	0.106	<u><u>s</u><u>e</u><u>l</u>é</u>		0.147	60129 600129
STATES REGULATING THE UTILIT CUNCORD FLECTRIC CC	0.0	L.C.S.7	C.136	0.127	0.119	0.120	0.133	0.105	0.137	C.223	G.187	0.135
STATES REGULATING THE UTILIT ATLENTIC CITY ELECTRIC PUBLIC SERVICE ELEC & GAS	0.639	C.152	NJ. 0.149	<u>C.140</u> C.130	0.110	0.096	<u> </u>	0.153	0.217 J.146	C.182	<u>C.323</u> J.316	<u> </u>
STATES REGULATING THE UTILIT			N M N Y N Y 162	<u>Gal81</u>	1.185	0.149	<u> </u>	83	0.170	<u> </u>	- <u>0 -</u>	0.127
STATES REGULATING THE UTILIT LUNG ISLAND LIGHTING NIAGARA NCHALK POLIS NEJ YJRK STATE ELEC 5 GAS DEANGE COCKLAND LITUTES	0.534	C.172	<u> </u>	0.181 0.353 C.105 0.122	0.152 0.C77 0.1C5	0.143	0.118	0.142	0.202	C.152 C.152 C.155	50.323 0.232 0.232	5.225 0.107 0.140
ORANGE & ROCKLAND UTILITIES RECHESTER GAS & ELECTRIC CENTRAL HUDSEN GAS & FLEC CONSCLICATED EDISEN OF N.Y.	0.637 0.606 <u>0.480</u> 0.802	C.171 0.155 <u>C.151</u> C.C94	0.148 0.122 0.165 0.091	0.091	0.141 0.039 0.075 0.041	C.C2C 0.104 0.134 0.C-7	0.048 0.109 0.139 0.030	0.112 0.159 0.169 0.063	0.091 0.092 0.060 0.123	C.140 C.161 C.143	0.183 0.160 0.184 0.184	0.119 0.122 0.138 0.088
STATES REGULATING THE LILLIT CLEVELAND ELECTRIC ILLUM CHIC EDISCA CC	0.432	C.230	O.224	60.150 0.218	C.164 C.173	0.154	<u>C.144</u> C.129	0.164 V.194	0.48E	<u>C 273</u>	· Azzaniju	1-5
CHLUMBUS & SOUTHERN CHIC TOLEDO EDISON COMPANY CINCTINATI GAS & ELECTRIC DAYTON POWER & LICHT	0.603 0.418 <u>1.234</u> 0.479	C.154 C.237 C.249 C.269	0.161 0.244 0.245 0.219	0.156 0.243 0.225 0.186	0.098 0.210 0.185 0.132	0.065 0.176 0.157 0.135	0.033 0.164 <u>0.172</u> 0.121	0.128 0.319 0.210 0.103	0.047 <u>- 0.147</u> 0.147 0.118	6.889	0.396	0.225 0.228
STATES PEGULATING THE UTILIT			De	6 <u>0_135</u>	0.115	0.142	0_116_	<u>D-134</u>	-O-	- 0-	0-619	0.187
STATES REGULATING THE LILLIT PENNSYLVANIA POWEP & LIGHT PHILADELPHIA ELECTRIC CO	185 5ELCW 0.441 0.438	ARE C.151	0.158 0.145	G.13C	0.068	0.034	0.120	0.167	0.325	C.356	0.391	0.199
DUQUESNE LIGHT CC STATES PEGULATING THE UTILIT SCUTH CARCUINA FLEET & GAS	0.50÷ TES_BELC⊮	C.231 ARE C.186	0.222 50	0.174 <u>0.157</u>	0.103	0.139 <u> </u>	J.116 <u>G.C89</u>	0.150	0.276	C.275	C.184	0.197
STATES REGULATING THE UTILIT SOUTHWESTERN PUELIC SERV CG SOUTHWESTERN PLFC SERVICE	1ES 8610w 0.374 0.371	ARE C.194 C.178	0.209	0.227	0.23C 0.23C	C.226	0.206	0.234	0.306	C.312	0.333	0.248
STATES REGULATING THE UTILIT GREEN MOUNTAIN POWEF CORP			Ve C.126	0.095	0.055	-0.045	C.C39	0.049	0.142	C.168	C.175	0.096
STATES REGULATING THE UTILIT PUGET SCUNC PCHER & LIGHT	6.476	ARE 6.090	ANA 0.094 AN 1	0.087	0.086	C.C35	C.105	0.107	0.215	C.216	0.176	0.126
STATES REGULATING THE VILLI MADISON GAS & ELECTRIC CO WISCONSTI ELECTRIC POWER WISCONSIN POWER & LIGHT	0.357 0.140 0.419	C.115 C.157 C.223 C.223	0.119 0.155 0.226 0.219	0.131 0.155 0.200 0.248	C.100 0.123 0.199	C.CE8 0.144 0.147	C.C70 C.197 J.138	0.221 0.242 0.236	0.212	C.2C0 C.213 C.229 C.258	0.221 0.218 0.340 0.267	0.207 0.185 0.236 0.239
SIERRA PACIFIC POWER CC SIERRA PACIFIC POWER CC SIERRA PACIFIC POWER CC	0.502	C.105	0.058	14 151 ST	C second	0.095	C.114	0.132	0.127	C.119	0.173	0.110
A MITAH PRIVER STATEMENT STATES SEGULATING THE CITETI WASHINGTON WATER PENER UNITON FLECTILC CC	1.344		0.151	120,135	0.114	<u>a.106</u>	0,131	0.125	<u>C_105</u>	<u>(152</u>	0.291	0.145
INTENELECTALICATES SOUTHERN INCLANA GAS & ELEC ICMA-ILLINCIS GAS & ELEC EMPIRE DISTRICT ELECTRIC CO	0.445	C.217 C.205 C.205 C.207	0.148 0.228 0.190 0.215	0.152 0.138 0.218 0.162 0.172	0.138 0.134 0.209 0.115	0.131 0.031 0.197 0.082 0.169	0.120 0.199 0.199 0.180	0.137 0.107 0.222 0.163	G.145 0.163 U.205 0.181	C.153 C.257 C.210 C.196	0.240 0.211 0.211	0.145 <u>0.150</u> 0.215 0.168
ANSAS CITY POWER & LIGHT	0.326		0.171	0.165	0.186 C.148	G.140	0.160	0.152	0.149 0.16E	C.158 C.158	0.259	0.174
GULF STATES UTILITIES CC PULF STATES UTILITIES CC	0.484 0.564	. C.207 . C.147	C.201 U.173	10.183 0.183 0.181	0.159	C.144 0.104	C.156 0.092	0.181 0.094	Ú.253 0.127	C.261 C.155	0.283 0.184	0.203
STATES PERMUATIAN TES HILLE PUTUMAC ELECTRIC OCHER CO HAKE SUPERIOR DIST PCHER CO WISCONSIN PUBLIC SERVICE	Contraction of the second s	G.144 G.149	0.133	0.135 0.174	0.094 0.123 0.179	C.C95 0.147	0.127	0.135	0.337	C.168 C.185		0.167 0.160
WISCONSIN PUBLIC SERVICE ICHA ELECIRIC LIGHT SPWR INTERSTATE POWER CC PACIFIC PCWER & LIGHT	0.460 0.315 0.291 0.713 0.436 0.487	C.190 C.190 C.190 C.190	0.203 0.166 0.198 0.109	0.174 0.164 0.207 0.108	0.179 0.143 0.184 0.093	0.119 0.055 0.189 0.103	0.145 0.106 0.190 0.190	0.259 0.106 0.203 0.132	-C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22 -C.22	C.225 C.118 C.283 C.135	0.299 0.147 0.344 0.148 0.538 0.538 0.146	C-232 C-118 0-239 C-115
NORTHWESTERN PUBLIC SERV CO	0.487	C.100	0.109	0.108	0.189	C.200	0.175	0.240	1.457	C.380	0.206	0.337
COMMUNITY PUALIC SERVICE EL PASO ELECTRIC CC	1103 320 9 0.435 0.358	<u>C.158</u> C.228	0.173	<u></u>	0,194 0,226	0.195	<u>C.20C</u> 0.219	0.192	0.143	<u> (151</u>	0.196	0.176
STATES RESULATING THE UTILIT CENTRAL VERVENT DIE SERV				340.077	0.030	0.018	0.059	-0.008	0.074	<u> </u>	161	0.023
STATES PEOLATING THE UTILL VIRGINIA ELECTRIC & POWER UTTER TALL POWER CE NORTHERN STATES POWER IDANG POWER CC	0.617 0.281	ARE C.189 C.171	46 0.175 0.151	33 0.149 0.166	+8 0 . 108 0 . 108 0 . 172	0.206	C.C33	0.086	0°C54 4°234	(.381 C.362	0.515	0.174
C.T. C.C. C.C. C.C. C.C. C.C. C.C. C.C.	0.477 0.363	Report	0.147	0.159	0.147 0.169	C.133 0.178	0.143	0.133	0.186 0.152	C.251 C.118	0.263 0.155	0.184 0.152
BANGOR HYCRO-LLEC CC	0.524	C.210	0.198 20 0.243	0.165	0-128	0.111	0.169	0.102	0.124	C.190	0.081	0.147
DUKE POWER CO		C.204		0.146 0.151	0.038 0.038 0.052	0.040	0.017	0.077	0.210	C.246	0.429	2 140
IOWA PUBLIC SERVICE CC	0,304	C.199	0.210	0.185	U-154	0.162	0.128	0.098 0.144	<u>, , 181</u>	C.205	0.654 0.206	0.178
STATES REGULATING THE GITTE XENIUCXY LITTES CC STATES COLLATING THE UTILE MUNIANA PEWER CC		C.203	1.201 20.183	0.218	0.155	<u>G.141</u> 0.201	0.129	<u>0.182</u> 0.198	<u> </u>	C.164	0.214	0.180
MUNIANA PLZER CC GTALES TEBULATING TRE-LITET BLACK HILLS PCWER & LIGHT C		C.195	ann an the second s	0.218	2 0 0.122	0.171	G.170	0.179	0.225	(.257	0.372	0.190
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APPENDIX 6

Ten-Year Returns for Airlines

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CCMPANY NAPE	RISK	1967	1968	1969	1970-	1.971	1972	1973	1974	1575	1976	AVERAGE
ASKA AIRLINES INC LEGHENY AIRLINES INC LEGICAN AIRLINES INC	<u> </u>	C.C15 C.C38 C.O80	0.008 0.008 0.056	0.065 0.020 0.057	-0.055 -0.002	0.036 0.036 0.026 0.071	0.673 0.073 0.024	0.068	0.04 0.04 0.034	- 0.165 C.C.8 - C.C.2	0 <u>.179</u> 0.064 0.058	0.044 0.044 0.032
RANIFF INTL CCRP ADITOL INTL AIRWAYS ONTINENTAL AIR LINES INC ELTA AIR LINES INC ASTERN AIR LINES INC ASTERN AIR LINES INC	1.276 1.599 1.511 0.726 1.587	C.250 C.145 C.281 C.281 C.068	0.071 0.146 0.045 0.173 0.018	0.058 0.031 0.04C 0.156 0.034	0.026 -0.012 0.044 0.149 0.046	0.071 -0.045 0.057 0.081 0.081 0.042	0.094 0.063 0.064 0.107 0.056	0.112 0.055 0.039 0.156 -0.010	0.126 -0.005 0.078 0.180 0.056	C.CSO C.CSO C.C27 C.C88 C.C88 C.C3	0.099 0.132 0.061 0.102 0.102 0.071	C.C.80 C.C.72 C.060 0.147 0.C.39
AULTICA ATRLICES INC AWAITAN AIRLINES INC LM ROYAL DUTCH AIFLINES ATIONAL AIRLINES INC OTTH CENTRAL AIRLINES INC	0.626 0.997 1.415 1.210	C.C17 C.C17 C.C75 C.173 C.173 C.660	0.021 C.057 0.091 0.167 0.040	-C.0C6 -C.0C6 0.079 0.132 0.011		0.024 0.024 0.002 0.002 0.002	0.095 0.095 0.007 0.094 0.128	0.104 0.104 0.006 0.095 0.117	0.171 0.14C 0.CC3 0.132 0.167	C.C10 C.C20 C.C20 C.C54 C.C67	0.112 0.065 0.030	0.061 0.061 0.038 0.092 0.084
GRTHWEST AIRLINES INC VERSEAS NATIONAL AIRWAYS ZARK AIR LINES INC SA INC	1.113 0.328 0.985 1.394	C.253 C.113 C.C46 C.C99	0.178 0.103 0.033 0.073	0.122 0.035 -0.008 0.077	0.022 0.022 0.022	0.027 0.025 0.108	C.C27 -0.008 0.C83 C.C81	0.070 -0.073 0.037 0.046	0.109	C.C44 C.C44 C.C45 -C.C44	0.096 -0.003 0.129 0.076	0.100 0.032 0.062 0.064
AN AMERICAN WCRLC AIRWAYS PIEDMONT AVIATICA INC EABOARC WCRLC AIRLINES AUTICEN AIRWAYS LAC OUTIWEST AIRWAYS LAC	1.503 1.731 1.469 3.694	C.106 0.081 C.C88 	0.072 0.032 0.063 0.063	-0.001 0.014 0.029 	-0.005 0.033 0.043 -0.043	-0.001 C.C56 0.C54 -0.C54 -0.C11	0,003 0.079 0.090 	0.013 0.083 0.063 -0.070 -0.070	-0.049 0.119 0.070 0.112	-(.(C1 (.(45 (.(19 -(.)C0 -(.)25	0.030 0.085 0.013 	0.017 0.063 0.057
IGER INTERNATICNAL RANS WGRLD AIRLINES IAL INC IESTERN AIR LINES INC IEN AIR ALASKA	1.050 1.597 0.940 1.238 0.617	C.C96 C.C72 C.C93 C.126 C.C68	0.018 0.036 0.069 0.068 0.028 0.152	0.076 0.039 0.070 -0.035 0.053	0.121 -0.039 0.036 0.036 0.047	0.132 0.025 0.024 0.057 0.057	0.114 0.C54 <u>0.C41</u> 0.C81 0.038	0.116 0.060 0.069 0.127 0.062	0.215 0.675 0.621 0.113 0.138 0.183 0.635	C.C80 -C.C19 -C.C21 C.C33 C.138 C.C66	0.079 0.079 0.034 0.079 0.098	0.091 0.032 0.054 0.071 0.076
ORLO AIRHAYS INC	1.428	C.204	U . 1 7 2	0.092	0.037	0.076	0.043	0.008	0.635	1.100	-0.006	0.071
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ССМРАКУ МА⊁Е	RISK	1967	1968	1969	1970	1971	1972	1973	1974	1975	1976	AVERAGE
ALASKA ALPLINES INC	1-544	C-C25	0.008	0 <u>+0/5</u> 0+020	-0.141 0.055	0.121	0.072	0-072-	0.178	¢.ić/. Ç.Ça	0.064	0.044
ALEGNERA AIRLINES INC BRANIFF INTL CCFP CAPITOL INTL AIRHAYS CONTINENTAL AIR LINES INC DELTA AIR LINES INC	1.564 1.196 1.276 1.599 1.511	C.C38 C.C8C C.C50 C.262 C.149	0.056 0.071 0.146 0.045	0.058 0.058 0.031 C.040 0.157	-0.002 0.026 -0.012 0.045 0.150	0.036 0.027 0.072 -0.045 0.058 0.058 0.082	0.024 0.024 0.095 <u>0.045</u> 0.045	-0.015 0.113 -0.055 0.039	0.034 0.127 -0.025 0.075	-C.CC2 C.CSO <u>C.CS6</u> C.C27	0.058	0.032 0.030 0.072 0.061
EASTERN AIR LINES MANTIER AIRLINES INC HAWAIIAN AIRLINES INC (IM ROYAL DUITCH AIRLINES	0.726 1.597 0.626 0.997	C.281 C.C68 C.C17 C.C17 C.075	0.173 0.018 0.057 0.057 0.091	C.034 -0.072 -0.006	0.047 -0.000 0.024	0.043	0.108 0.057 0.095 0.095 0.007	0.159 -0.010 -132 0.104 0.006	0.182 0.056 0.140 0.003	C.C28 C.CC3 C.CC3 C.C10 C.C20	0.062 0.102 0.071 0.165 0.113 0.065	0.148 0.039 0.062 0.038
NATIONAL AIRLINES INC. ACRIMCENTRAL AIRLINES INC. ORTHWEST AIRLINES INC. IVERSEAS NATICNAL AIRHAYS IZARK AIR LINES INC.	1.415 1.210 1.113 0.328 C.985 1.394	C.173 C.253 C.113	0.167 0.040 0.178 0.103	0.079 0.135 0.123 0.123 0.035 -0.008	0.056 0.042 0.087 0.062 0.022 0.022 0.022 0.025	-0.024 0.003 0.061 0.027 0.025 0.025 0.109	0.096 0.123 0.028 -0.008 0.083	0.098 0.117 0.071 -0.073 0.037	0.0C3 0.136 0.167 0.11C 0.C61 0.12	C • C20 C • C55 C • C67 C • C67 C • C44 C • C45	0.065	0.038 0.093 0.084 0.100 0.032 0.032 0.062
PAN AMERICAN WORLD /IFWAYS Piedmont aviation inc Seaboard world Airlines	1.503	C.046 C.C99 C.106 C.C81 C.088 C.088	0.033 0.073 0.072 0.032 0.063	-0.001 -0.001 0.014 0.029	-0.006 0.033 0.043	0.045 -0.001 0.056 0.054 0.054	0.03 0.03 0.079 0.090	0.046 0.014 0.083 0.063	-0.045 -0.045 0.115 0.070	- <u>C.C44</u> -C.CC1 C.C45 C.C19 C.C19	0.030 0.030 0.085 0.013	0.064 0.017 0.063 0.057
SOUTHWEST AIRLINES TIGER INTERNATIONAL TRANS WORLD AIRLINES UAL INC	0.654 0.090 1.050 1.597 0.940	C.096 C.096 C.072 C.099	0.036 0.036	0.076 0.039 0.076	0.043 0.000 0.121 -0.039 0.003	0.132 0.030	0.114 0.055 0.041	0.070 0.116 0.060 0.069	0.021 0.075 0.021 0.021 0.021	-C.Cl9 C.Cl9 -C.Cl9 -C.Cl9	0.044 0.229 0.079 0.066 0.034	0.032
WESTERN AIR LINES INC WIEN AIR ALASKA WORLD AIRHAYS INC	1.238 0.617 1.428	C.126 C.068 C.206	0.028 0.028 0.152	-0.035 0.053 0.092	0.036 0.047 0.037	0.057 0.045 0.076	0.082 0.039 0.043	0.128 0.063 0.008	0.141 0.185 0.035	C.(34 C.141 C.C66	0.080 0.098 -0.006	0.072 0.077 0.071
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