FILED January 20, 2022 INDIANA UTILITY REGULATORY COMMISSION

## STATE OF INDIANA

#### INDIANA UTILITY REGULATORY COMMISSION

PETITION OF NORTHERN INDIANA PUBLIC ) **SERVICE COMPANY LLC FOR (1) AUTHORITY TO** ) MODIFY ITS RATES AND CHARGES FOR GAS UTILITY SERVICE THROUGH A PHASE IN OF **RATES: (2) APPROVAL OF NEW SCHEDULES OF** ) RATES AND CHARGES, GENERAL RULES AND ) **REGULATIONS, AND RIDERS; (3) APPROVAL OF** ) **REVISED DEPRECIATION RATES APPLICABLE TO** ) ITS GAS PLANT IN SERVICE: (4) APPROVAL OF ) **MECHANISM TO MODIFY RATES PROSPECTIVELY** ) FOR CHANGES IN FEDERAL OR STATE INCOME ) TAX RATES, UTILITY RECEIPTS TAX RATES, AND ) PUBLIC UTILITY FEE RATES; (5) APPROVAL OF ) NECESSARY AND APPROPRIATE ACCOUNTING ) **RELIEF; AND (6) AUTHORITY TO IMPLEMENT** ) TEMPORARY RATES CONSISTENT WITH THE ) **PROVISIONS OF IND. CODE § 8-1-2-42.7.** )

**CAUSE NO. 45621** 

#### **INDIANA OFFICE OF UTILITY CONSUMER COUNSELOR'S**

## PUBLIC'S EXHIBIT NO. 5 – TESTIMONY OF OUCC WITNESS LEJA D. COURTER

January 20, 2022

Respectfully submitted,

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## NORTHERN INDIANA PUBLIC SERVICE COMPANY, INC. CAUSE NO. 45621 TESTIMONY OF OUCC WITNESS LEJA D. COURTER

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## NORTHERN INDIANA PUBLIC SERVICE COMPANY, LLC CAUSE NO. 45621 TESTIMONY OF OUCC WITNESS LEJA D. COURTER

## I. <u>INTRODUCTION</u>

- 1 Q: Please state your name and business address.
- 2 A: My name is Leja D. Courter. My business address is 115 West Washington Street, Suite
- 3 1500 South, Indianapolis, IN 46204.

## 4 Q: By whom are you employed and in what capacity?

- A: I am employed by the Indiana Office of Utility Consumer Counselor ("OUCC") as a
  Chief Technical Advisor. For a summary of my educational and professional
  experience, as well as my preparation for presenting testimony in this case, please see
  Appendix LDC-1 attached to my testimony. Appendix LDC-1 also includes the
  Discounted Cash Flow ("DCF") Model and Capital Asset Pricing Model ("CAPM")
  mechanics.
- 11 Q: What is the purpose of your testimony?
- 12 A: The purpose of my testimony is to discuss the cost of equity and capital structure 13 proposed by Northern Indiana Public Service Company LLC ("NIPSCO" or 14 "Petitioner"). My testimony addresses the OUCC's recommended cost of equity and 15 capital structure. My testimony also addresses the OUCC's recommendations 16 regarding the sharing of rate case expenses and customer bill transparency.
- 17Q:To the extent you do not address a specific item or adjustment, should that be<br/>construed to mean you agree with Petitioner's proposal?
- 19 A: No. Not addressing a specific item or adjustment NIPSCO proposes does not indicate
- 20 my agreement or approval. Rather, the scope of my testimony is limited to the specific
- 21 items addressed herein.

- 1 **Q**: What are your recommendations in this Cause? 2 A: Based on the results of the DCF method, CAPM and macroeconomic analyses, I 3 conclude a cost of equity of 9.30% would be a reasonable and appropriate cost of 4 equity for NIPSCO. To further support the reasonableness of my proposed cost of 5 equity, I address NIPSCO's witness Mr. Vincent V. Rea's cost of equity 6 methodologies and use of a Non-Regulated proxy group. I propose a capital structure 7 of 49.47% equity and 36.30% debt as reflected on Petitioner's Exhibit No. 3, 8 Attachment 3-A-S2, page 5. The capital structure will be updated to actual December 9 31, 2022, amounts in NIPSCO's Step 2 compliance filing. 10 **Q**: What else are you addressing in your testimony? 11 I address Petitioner's proposed rate case expense of \$1,615,098 and recommend rate A: 12 case expenses be equally shared between shareholders and NIPSCO's customers.
- Finally, I recommend NIPSCO provide more transparency in its residential customerbills.

## 15 Q: Please summarize your cost of equity testimony.

16 My estimate of Petitioner's cost of equity is 9.30%. I use both a Discounted Cash 17 Flow ("DCF") and a Capital Asset Pricing Model ("CAPM") analyses to estimate 18 Petitioner's cost of equity. My DCF model produces a cost of equity range between 19 8.90% and 9.80%. My CAPM analysis produces a range of estimates from 9.29% 20 to 9.46%. A cost of common equity of 9.30% results in a weighted cost of capital 21 of 6.28%. (Public's Exhibit No. 1, Attachment MHG-1, Schedule 8, sponsored by 22 OUCC witness Mark Grosskopf). This resulting overall cost of capital, if adopted by 23 the Indiana Utility Regulatory Commission ("Commission"), will allow NIPSCO to earn the prevailing opportunity cost of capital, maintain its financial integrity, and
 attract capital at reasonable terms.

II. <u>NIPSCO'S PROPOSED COST OF EQUITY</u>

3 **O**: What is NIPSCO's current authorized cost of equity? 4 A: NIPSCO's current cost of equity is 9.85% as a result of a settlement agreement 5 approved in the Commission's Order in Cause No. 44988. In re NIPSCO, Cause No. 6 44988, Final Order p. 9 (Ind. Util. Regul. Comm'n Sept. 19, 2018.) 7 **O**: What is NIPSCO's proposed cost of equity? 8 A: NIPSCO's witness Rea recommends a cost of equity of 10.50%. (Petitioner's 9 Exhibit No. 15, page 5, line 11.) 10 **Q**: Why does your proposed cost of equity differ from Petitioner's proposed cost 11 of equity? 12 My estimate of NIPSCO's cost of equity is 120 basis points less than Mr. Rea's A: 13 estimated cost of equity. Mr. Rea's use of 1) a CAPM with size adjustment, 2) an 14 Empirical CAPM ("ECAPM"), 3) a Risk Premium Method ("RPM") using an 15 historical return based solely on an arithmetic mean, 4) a flotation cost adjustment, 16 and 5) a non-regulated proxy group, produces unreasonably high cost of equity 17 results, which for the reasons I discuss, should be disregarded. 18 Data on bond yields, dividend yields, inflation and economic growth do not 19 support projections of a 10.5% rate of return. Moreover, regulated public utilities 20 tend to be less risky than the market, and are not comparable to the companies in 21 Mr. Rea's Non-Regulated group.

## 1 Q: Does NIPSCO obtain capital financing under its own name or through its parent 2 holding company, NiSource?

A: NIPSCO obtains its capital financing through NiSource. NiSource owns all the
 common stock of NIPSCO. NIPSCO is an Indiana corporation and a wholly owned
 subsidiary of NiSource. NiSource is a holding company whose stock is publicly traded
 and listed on the New York Stock Exchange.

## 7 Q: How does NiSource's financial strength compare to the proxy group?

8 A: Value Line grades NiSource's financial strength rating as B+. (Attachment LDC-9 1, page 1.) Value Line's financial strength ratings range from A++ to C. Value 10 Line's financial strength ratings consider balance sheet leverage, business risk, the 11 level and direction of profits, cash flow, earned returns, cash, corporate size, and stock 12 price. All those factors contribute to a company's relative position on the scale. The 13 amount of cash on hand, net of debt, is also an important consideration. I reviewed the 14 Value Line financial strength ratings for the utilities in Mr. Rea's Combination Utility 15 group. CMS Energy and Northwestern are rated B++. Alliant Energy, Black Hills, 16 Eversource Energy, and Sempra Energy are rated A. Con. Ed., MGE Energy, and WEC 17 Energy are rated A+. (Attachment LDC-2, pages 1-9.)

I also reviewed the Value Line financial strength ratings for the utilities in Mr.
Rea's Gas LDC group. South Jersey Inds., ONE Gas, Inc., and Spire have B++ financial
strength ratings. Northwest Natural and Southwest Gas are rated at A. Atmos Energy
and New Jersey Res. are rated at A+. (Attachment LDC-3, pages 1-7.)

NiSource's ranking at the lower end of Value Line's range of ratings is not a
 concern for the Commission. NIPSCO has offered no evidence that NiSource is unable
 to access capital markets under reasonable terms. Furthermore, in July 2020, the

Commission approved NIPSCO's \$949 million Transmission Distribution Storage
 System Improvement Charge ("TDSIC") plan, which provides NIPSCO with tracker
 recovery of 80% of approved costs. *In re NIPSCO*, Cause No. 45330, Final Order,
 pages 3, 29 (Ind. Util. Regulatory Comm'n, Jul. 22, 2020). This massive infrastructure
 program will be financed by customers without NIPSCO needing to access capital
 markets.

7 In December 2021, the Commission also approved NIPSCO's \$76 million 8 Federally Mandated Cost Adjustment ("FMCA") mechanism to recover federally 9 mandated pipeline safety costs. In re NIPSCO, Cause No. 45560, Final Order, pages 4, 10 23-24, (Ind. Util. Regulatory Comm'n, Dec. 1, 2021). Similar to the TDSIC plan, the 11 FMCA mechanism provides NIPSCO with tracker recovery of 80% of approved costs. 12 Combined, the TDSIC and FMCA plans allow NIPSCO to recover over \$1.2 billion in 13 capital improvements, which will be financed by customers through six-month tracker 14 filings.

## 15 Q: Why is a 9.3% cost of equity reasonable?

A: My DCF model indicates a cost of equity of 8.9% for the Combination Utility
group and 9.8% for the Gas LDC group. (Attachment LDC-4, page 1; Attachment
LDC-5, page 1.) Mr. Rea's unadjusted DCF for the Combination Utility group
ranged between 8.4% and 8.8%. (Petitioner's Exhibit No. 15, page 60, lines 6-8.)
Mr. Rea's unadjusted DCF for the Gas LDC group was 10.0%. (*Id.*, page 59, lines
6-7.)

22 My CAPM analysis results indicate a cost of equity of 9.29% for the 23 Combination Utility group. (Attachment LDC-6, page 1.) The cost of equity for the

1	Gas LDC group is 9.46%. (Attachment LDC-7, page 1.) Mr. Rea's CAPM results
2	are considerably higher because he uses a 3.24% risk-free rate. (Petitioner's Exhibit
3	No. 15, Schedule 7, page 4.)
4	Bond yields remain in a low range. My review of 5-year, 10-year, 20-year,
5	and 30-year constant maturity Treasury bonds does not produce a CAPM risk-free
6	rate above 2.03% for twelve months through December 2021. (Attachment LDC-
7	6, page 2.) Therefore, I am using a 2.50% normalized risk-free rate based on
8	calculations by Duff & Phelps (Attachment LDC-8, page 1). Also, Duff & Phelps'
9	current recommended Equity Risk Premium ("ERP") is 5.5%. (Id.) Together the
10	risk-free rate and the ERP yield a market return of 8.0%. Duff and Phelps' ERP and
11	normalized risk-free rate applies across the U.S. equity markets and includes companies
12	with higher business risks than those of a regulated gas utility.
13	In my DCF analysis I use Value Line's historical and forecasted growth
14	rates in earnings per share ("EPS"), dividends per share ("DPS"), and book value per

share ("BVPS") for the Combination Utility and Gas LDC groups. (Attachment

LDC-4, page 3; Attachment LDC-5, page 3.) I considered the Congressional

Budget Office's ("CBO") long-term growth rates in the U.S. economy to produce

a reasonable growth rate for NIPSCO. Economic and financial trends do not justify

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a higher cost of equity.

## III. <u>MACROECONOMIC TRENDS</u>

1	Q:	Do macroeconomic factors and trends influence the cost of equity?
2	A:	Yes. The most noteworthy of these factors are interest rates, economic growth, and
3		inflation.
4	Q:	How do inflation and interest rates influence cost of equity estimates?
5	A:	Anticipated inflation influences interest rates. Interest rates influence the cost of equity.
6		Interest rates have been increasing and forecasted inflation is expected to increase over
7		the short term. Mr. Rea states, "the strong GDP growth rates and higher actual and
8		anticipated inflation rates witnessed by the U.S. economy are expected to put additional
9		upward pressure on long-term interest rates going forward, which is consistent with a
10		higher cost of equity." (Petitioner's Exhibit No. 15, page 16, lines 3-6.)
11 12	Q:	Do you agree with Mr. Rea's assessment of forecasted inflation and long-term interest rates going forward?
13	A:	No. I examined historical and projected rates of inflation from government sources,
14		including the CBO. The CBO is not forecasting high inflation through 2031. The
15		CBO's Update to the Budget and Economic Outlook: 2021 to 2031, forecasts Core PCE
16		("Personal Consumption Expenditures") price inflation of 2.0% in 2022, 2.2% in 2023-
17		2025, and 2.1% in 2026-2031. (Attachment LDC-9, page 4.)
18	Q:	What is the Core PCE price index?
19	A:	The Core PCE price index forecasts change in items individuals consume but excludes
20		prices for food and energy. (Id.)
21 22	Q:	Why is it important to consider the Core PCE price index when setting a cost of equity?
23	A:	It is important because the Core PCE is one of the indices the Federal Reserve reviews
24		when it attempts "to strip out some of that (price) volatility." (Attachment LDC-10,

1		page 1, Forecasting Inflation, Econ Focus, 4th Quarter, 2021.)
2	Q:	Please discuss bond yields as an influencing factor on the cost of equity.
3	A:	Bond yields are important factors influencing cost of equity. Yields on U.S. Treasury
4		Bonds are commonly used to establish the risk-free rate of return in CAPM and other
5		risk premium analyses. Changes in bond yields and interest rates affect investor
6		expectations. Long-term Treasury bond yields were as high as 2.34% in April 2021 but
7		have averaged less than 2.00% during the last 3 and 6 months. (Attachment LDC-6,
8		page 2.)
9	Q:	Have you reviewed information from the Federal Reserve regarding inflation?
10	A:	Yes. The Federal Reserve Bank of Richmond recently published an article titled
11		Forecasting Inflation. (Attachment LDC-10.) The article discusses the challenges of
12		predicting inflation for policymakers and market participants.
13 14	Q:	What rate of inflation does the Federal Reserve consider to be consistent with its monetary policy?
15	A:	The Federal Reserve considers inflation that averages 2 percent over time to be
16		consistent with its price stability mandate. (Id., page 1.)
17	Q:	Is the Federal Reserve committed to maintaining inflation at 2 percent?
18	A:	Yes. Federal Reserve Chair Jerome Powell stated in November 2021:
19		We are committed to our longer-run goal of 2 percent inflation and to
20		having longer-term inflation expectations well-anchored at this goal. If
21		we were to see signs that the path of inflation or longer-term inflation
22		expectations, was moving materially and persistently beyond levels
23		consistent with our goal, we would use our tools to preserve price
24		stability.
25		(Id. at 4, emphasis added.)

#### **Q**: What conclusions have you reached regarding the macroeconomic trends that 1 2 influence cost of equity? 3 Short-term inflation expectations are high. However, "[i]n the end, it is policy that pins A: 4 down inflation, not expectations." (Id., emphasis added.) The Federal Reserve is 5 committed to maintaining long-run inflation at 2 percent. Trends in interest rates, 6 inflation, and economic growth do not suggest a return to an inflationary economy. 7 The growth rate of 5.7%, which I use in my Combination Utility group DCF 8 analysis, is lower than the 7.2% nominal gross domestic product ("GDP") growth rate 9 forecast by the CBO for 2022. (Attachment LDC-9, page 4.) But the 5.7% growth rate 10 is higher than the 3.4% to 3.8% nominal GDP growth rates the CBO forecasts for 2023-11 2031. (Id.) The CBO's forecasted inflation, as measured by the Core PCE index, at 12 2.2% or less through 2025, and at 2.1% for 2026-2031, is consistent with a lower cost 13 of equity. Long-term Treasury bond rates also do not indicate a trend toward an 14 inflationary economy. (Attachment LDC-6, page 2.) Consequently, my recommended 15 cost of equity of 9.30% is in line with current and projected economic conditions.

## IV. PROXY GROUPS USED FOR THE OUCC'S COST OF EQUITY ANALYSES

Q: Please describe how you derived the proxy groups for your DCF and CAPM studies.
A: My Gas LDC group and Combination Utility group comprise the same companies as
Mr. Rea's proxy groups. Mr. Rea's testimony describes the Gas LDC and Combination
Utility groups' selection criteria. (Petitioner's Exhibit No. 15, page 24, lines 3-14; page
36, line 15 to page 37, line 8.)

1 2	Q:	Mr. Rea also used a third proxy group which he named the Non-Regulated group. Did you use the Non-Regulated group in your analysis?
3	A:	No. Mr. Rea's Non-Regulated Group comprises eleven publicly traded companies,
4		including Coca-Cola, Comcast, McDonald's, PepsiCo, and United Parcel Service. (Id.,
5		Schedule 6, page 1.) These companies, and the rest of the companies in Mr. Rea's Non-
6		Regulated group, face different risks than NIPSCO and the companies in the two
7		regulated utility proxy groups. The utility industry has relatively low risk compared to
8		the market. Mr. Rea's Non-Regulated group produces overstated cost of equity results,
9		which the Commission should not consider.
10	Q:	Please describe your approach to estimate NIPSCO's cost of equity.
11	A:	I relied on the DCF model and CAPM analysis to estimate NIPSCO's cost of equity.
12	Q:	Can you apply the DCF model and CAPM directly to NIPSCO?
13	A:	No. NIPSCO is not publicly traded. As a result, much of the data that would be
14		available for publicly traded companies is not available for NIPSCO. This fact makes
15		it impractical to apply the DCF and CAPM directly to NIPSCO. Therefore, I calculated
16		NIPSCO's cost of equity based on a proxy group of publicly traded utility companies.

## V. <u>DISCOUNTED CASH FLOW ANALYSIS</u>

17 Q: Please describe DCF Analysis.

A: DCF analysis helps investors determine the appropriate price to pay for particular
assets, such as utility stocks. The model has been adapted for regulatory proceedings
to determine the cost of utility equity capital. The DCF model is a model which
maintains that the value (price) of any security or commodity is the discounted present
value of all future cash flows. This discount rate equals the cost of capital. With utility

1	stocks and dividends as the relevant cash flows. A detailed description of the DCF
2	mechanics is included in my Appendix LDC-1.

# 3 Q: What are the results of your forward dividend yield calculations for your proxy 4 groups?

A: My calculation resulted in a 3.2% forward dividend yield for the Combination Utility
group. (Attachment LDC-4, page 2.) My calculation resulted in a 3.8% forward
dividend yield for the Gas LDC group. (Attachment LDC-5, page 2.) This forward
dividend yield calculation applies the "half year method" to the data from Value Line.

## 9 Q: Please describe the results of your growth calculations.

- 10 A: I conclude 5.7% is a reasonable growth rate for the Combination Utility group and 11 6.0% is a reasonable growth rate for the Gas LDC group. (Attachment LDC-4, page 3; 12 Attachment LDC-5, page 3.) These rates result from analyzing Value Line's historical 13 and projected EPS, DPS, and BVPS growth rates for the proxy groups. My projected 14 5.7% and 6.0% growth rates are lower than the 7.2% nominal gross domestic product 15 ("GDP") growth rate forecast by the CBO for 2022. (Attachment LDC-9, page 4.) The 16 nominal GDP reflects the projected long-term growth rate of the whole U.S. economy. 17 Both growth rates are higher than the 3.4% to 3.8% nominal GDP growth rates the
- 18 CBO forecasts for 2023-2031. (*Id.*)

# 19Q:Why have you listed two average forecasted EPS percentages on Attachment20LDC-5, page 3?

A: The 7.4% average forecasted EPS is calculated using 7.0% for Atmos, 1.5% for New
Jersey, 5.5% for N.W. Natural, 6.5% for ONE Gas, 11.5% for South Jersey, 9.5% for
Southwest, and 10.0% for Spire. The high forecasted EPS for the last three utilities is
unsustainable. These growth rates are higher than the CBO's forecasted nominal GDP
growth rates for 2022 to 2031. (Attachment LDC-9, page 4.) EPS growth may be higher

1		than nominal GDP growth for a short-term period. But in the long-term, the rate of
2		growth of the equity investment will not exceed the rate of growth in the economy.
3 4	Q:	Did you make an adjustment to the average forecasted EPS for the Gas LDC group?
5	A:	Yes. I used a forecasted EPS of 7% for South Jersey, Southwest, and Spire. This is the
6		same forecasted EPS as Atmos, which has the highest forecasted EPS of the four
7		remaining utilities in the Gas LDC group. This percentage is higher than the 5-year and
8		10-year historical EPS results for South Jersey and Spire. It is also higher than the most
9		recent 5-year historical EPS for Southwest. Therefore, I consider a 5.9% average
10		forecasted EPS, and 6.0% average growth rate, to be reasonable.
11	Q:	What have you concluded based on your DCF analysis?
12	A:	My DCF calculations result in a cost of equity of 8.90% for the Combination Utility
13		group, and 9.8% for the Gas LDC group. (Attachment LDC-4, page 1; Attachment LDC-
14		5, page 1.)

## VI. <u>CAPITAL ASSET PRICING MODEL</u>

- 15 Q: Please describe the CAPM.
- A: The CAPM is another analysis frequently relied upon by this Commission to help
  determine a reasonable cost of utility equity capital. The CAPM's underlying
  assumption is the stock market compensates investors for risk that cannot be eliminated
  by means of a diversified stock portfolio. A detailed description of the CAPM
  mechanics is included in my Appendix LDC-1.

## 21 Q: Please describe the results of your CAPM analysis.

A: I used the Duff & Phelps normalized risk-free rate of 2.50%, which is 47 basis points
above the average 30-year Treasury bond yield for the twelve months ended December

1	2021. (Attachment LDC-6, page 2.) I used the betas from <i>Value Line</i> , and balanced the
2	weight given to the geometric mean and arithmetic mean approaches, consistent with
3	prior Commission guidance. For the Combination Utility Group, my CAPM estimate
4	is 9.29%. (Id., page 1.) For the Gas LDC group, my CAPM estimate is 9.46%.
5	(Attachment LDC-7, page 1.)

### VII. OUCC'S ESTIMATED COST OF EQUITY

## 6 Q: Please explain the estimation of your proxy groups' cost of equity.

7 A: My DCF analysis produces an 8.9% cost of equity for the Combination Utility group 8 and 9.8% cost of equity for the Gas LDC group. My CAPM analysis produces a 9.29% 9 for the Combination Utility group and 9.46% for the Gas LDC group. My DCF 10 analysis, based on all estimators of growth, and my CAPM analysis, based on historical 11 risk premiums, are consistent with past Commission orders determining the cost of 12 equity. NIPSCO's parent company, NiSource, has a market capitalization of \$10 13 billion. (Attachment LDC-1, page 1.) This capitalization amount is larger than three of 14 the companies in the Combination Utility group, and larger than six of the seven 15 companies in the Gas LDC group. Based on all the above, I recommend a 9.30% cost 16 of equity.

# Q: Do you have any company-specific information that supports the reasonableness of your proposed cost of equity?

- 19 A: Yes. The OUCC requested the following information from Petitioner:
- 20For the portion of NIPSCO/NiSource pension funds that are invested in21equities, what rate of return does NIPSCO/NiSource assume the pension22funds will earn over what period of time. Please explain why that rate23of return was used. (Attachment LDC-11; NIPSCO Response to OUCC24DR 12-21.)

1		Petitioner replied:
2 3 4 5 6 7 8		<b>7.66%</b> is the forward looking rate of return for the pension assets invested in equities. The rate of return is for a 30 year time period. We use our investment consultant LCG Associates and our actuary AON as the basis for the estimate and compare it versus other actuaries and investment consultants for reasonableness. The equity rate of return considers various economic inputs including interest rates, GDP growth estimates and inflation. (Emphasis added.)
9	Q:	Did the OUCC ask a similar question regarding Petitioner's OPEB funds?
10	A:	Yes, and Petitioner provided a similar response:
11 12 13 14 15 16 17		<ul> <li>7.50%* is the <i>forward looking</i> rate of return for the NIPSCO Union OPEB assets invested in equities. The rate of return is for a 30 year time period.</li> <li>7.57%* is the <i>forward looking</i> rate of return for the Non Union OPEB assets invested in equities. The rate of return is for a 30 year time period.</li> <li>*The rate of return is a blended rate of return and the asset allocations of the OPEB pools differ slightly.</li> </ul>
18		(Attachment LDC-12; NIPSCO Response to OUCC DR 12-22, emphasis added.)
19	Q:	Why should Petitioner's assumed rate of return for these funds be considered?
20	A:	Petitioner's response indicates its forecasted equity rate of return has considered
21		various economic inputs including interest rates, GDP growth estimates and inflation.
22		Those same economic inputs are considered by the Commission when setting cost of
23		equity rates. The <i>forward-looking</i> rates of return are between 7.50% and 7.66% for a
24		30-year period. The Commission is setting the rate of return in this Cause for a future
25		time period. Petitioner has made long-term investments in equities for the future benefit
26		of its employees. These investments are forecast to provide rates of return almost 300
27		basis points less than Mr. Rea is recommending in this Cause. It is unreasonable for
28		NIPSCO's customers to pay for a rate of return at 10.5%, when NIPSCO believes a
29		rate of return of 7.66% is reasonable for its employees.

## VIII. MR. REA'S COST OF EQUITY ANALYSIS

1	Q:	Please summarize Mr. Rea's cost of equity analysis.
2	A:	Mr. Rea's estimated cost of equity for Petitioner is 10.50%. Mr. Rea's analysis uses a
3		DCF model, a CAPM, a CAPM with size adjustment, an Empirical CAPM
4		("ECAPM"), and a Risk Premium model. He applies each of his models to the Gas
5		LDC, Combination Utility, and Non-Regulated proxy groups. (Petitioner's Exhibit No.
6		15, page 9, Table 2.)
7 8	Q:	Do you agree with all the models Mr. Rea uses to determine NIPSCO's return on equity?
9	A:	No. I agree with the use of the CAPM and DCF models, without Mr. Rea's proposed
10		adjustments to those models. I do not agree with the size adjusted CAPM, ECAPM,
11		and Risk Premium models.
12	Q:	Why don't you agree with the last three models?
13	A:	For decades, the Commission has consistently and primarily used the DCF and CAPM
14		models when setting the cost of equity. Cost of equity testimony filed by utilities,
15		intervenors, and the OUCC includes the DCF and CAPM models. Other models are
16		presented in testimony, but I am not aware of Commission decisions setting cost of
17		equity rates of return outside the recommended DCF range. As explained later in my
18		testimony, these models, as presented by Mr. Rea, produce over-estimated costs of
19		equity, and therefore, should not be used to determine Petitioner's reasonable cost of
20		equity.

## IX. MR. REA'S DCF ANALYSIS

1	Q:	Please summarize your disagreements with Mr. Rea's DCF analysis.
2	A:	Mr. Rea's DCF analysis produces an average unadjusted estimated cost of equity of
3		10.00%. This estimate is based on forecasted earnings from Yahoo Finance - 8.90%;
4		Zacks – 9.20%; and Value Line – 11.80%. (Petitioner's Exhibit No. 15, page 58, Table
5		6.) Mr. Rea then adds a flotation cost adjustment of 7 basis points, and a Market Value-
6		Book Value adjustment of 23 basis points to derive a new estimated cost of equity of
7		10.30%. ( <i>Id</i> .)
8		I disagree with Mr. Rea's reliance on an historical return based on an arithmetic
9		mean rather than an equal weight between the arithmetic and geometric means. It is
10		more appropriate, and consistent with the Commission's established cost of equity
11		analysis, to rely on both historical and forecasted growth rates in EPS, DPS, and BVPS,
12		as I have done in my DCF analysis. I discuss later in my testimony, my disagreement
13		with Mr. Rea's flotation cost and Market Value-Book Value adjustments.
14	Q:	Please explain why the DCF model requires a long-term growth rate.
15	A:	The equation used for the DCF model assumes an infinite time frame. Some investors
16		may have short-term perspective on their investments, but this does not change the
17		mathematics of the DCF model. I am familiar with multi-stage DCF analyses that
18		include short or intermediate term growth rates for a portion of the calculation. While
19		these types of DCF analyses can, if performed reasonably, offer an alternative to a
20		classic DCF computation, my DCF analysis adheres to the traditional approach.

**Q**: Do any of the companies in Mr. Rea's Gas LDC group have forecasted EPS 1 2 growth rates you would characterize as unsustainable? 3 Yes. As previously discussed, South Jersey Inds.' forecasted EPS is 11.50%, while it's A: 4 5-year average EPS is -1.50%, and 10-year average EPS is 1.50%. Spire Inc's. 5 forecasted EPS is 10.00%, as compared to a 5-year average EPS of 4.5%, and 10-year 6 average EPS of 1.50%. Southwest Gas has a forecasted EPS of 9.5%. Southwest Gas' 7 5-year average EPS is 5.50%, and 10-year average EPS is 7.50%. (Attachment LDC-8 5, page 3.) In the long-term, the rate of growth of the equity investment will not exceed 9 the rate of growth in the economy. As previously discussed, the CBO has forecast the 10 rate of growth in the U.S. economy, as reflected in the nominal GDP, at 7.2% in 2022, 11 and between 3.4% and 3.8% for 2023 to 2031. (Attachment LDC-9, page 4.) 12 **Q**: Can a five-year growth rate be used and assume the stock will be sold after five 13 years? 14 A: The assumption can be made. However, the price of the stock will need to be *estimated* 15 at the end of the fifth year. Implicit in *any* estimated stock price at the end of the fifth 16 year is growth in EPS, DPS, and BVPS that will take place after the fifth year. 17 Therefore, using a five-year time frame in a DCF analysis does not avoid the need to 18 use a growth rate in dividends that recognizes investor expectations beyond the fifth 19 year. Regardless of the investor's investment horizon, the DCF model requires a long-20 term growth rate. 21 **Q**: What data should the Commission use to estimate growth (g) in a DCF analysis? 22 A: The Commission should follow its established practice, and review and give weight to

both historical and forecasted data of growth rates in EPS, DPS, and BVPS.

23

## 1 Q: Please summarize your comments on Mr. Rea's estimates of growth (g).

A: The goal in estimating growth (g) in the DCF model is to derive a reasonable long-term or sustainable estimate of growth in dividends. Mr. Rea's DCF analysis relies heavily on intermediate-term forecasts in EPS to estimate the growth in his DCF model. Even assuming there is no upward bias in analysts' estimates, the estimates used by Mr. Rea are still intermediate-term (not long-term) forecasts and therefore, may not be sustainable over the long-term. Mr. Rea's optimistic growth rates (g) overstate the results of his DCF analysis.

9 As part of his analysis, Mr. Rea completes a similar DCF analysis on a proxy 10 group of nine Combination Utility and eleven Non-Regulated companies. The concerns 11 I have indicated above particularly apply to his DCF analysis for his Non-Regulated 12 group. Several of the companies in his Non-Regulated group have forecasted growth 13 rates in EPS above 10.0%. (Petitioner's Exhibit No. 15, Schedule 6, page 1.) As 14 explained above, these high growth rates exceed the forecasted nominal GDP growth 15 rate of the U.S. economy. (Attachment LDC-9, page 4.) The high forecasted EPS growth rates are not sustainable and should not be used in isolation in a DCF analysis 16 17 to estimate cost of equity.

18 19 20

# Q: Mr. Rea makes a financial leverage or market-to-book adjustment, which he discusses on page 59 of Petitioner's Exhibit No. 15, and Schedule 7, pages 4 and 5. Do you agree with this adjustment?

A: No. In most jurisdictions, including Indiana, rates of return are set on book value.
Investors know this and take it into account when they determine the price they are
willing to pay for a utility's stock. Investors do not need additional compensation
because they have bid the price of the stock above its book value. Also, rating agencies,
such as Standard & Poor's, assess financial risk based on the book value capital

1	structure, not the market value capital structure. Financial publications, such as Value
2	Line, use book values - not the market value - when they calculate long-term debt and
3	common equity ratios. Three previous cases in which NIPSCO proposed a financial
4	leverage adjustment were settled, and the Commission's Orders in those Causes did not
5	address the reasonableness of the financial leverage adjustment. (Attachment LDC-13,
6	NIPSCO Response to IG DR 8-20.)

## X. MR. REA'S CAPM ANALYSIS

7 **Q**: Does the CAPM give a better indication of required returns than the DCF model? 8 A: Not necessarily. The CAPM is typically more controversial and less reliable than the 9 DCF model. Eugene Brigham and Phillip Daves comment on the use of CAPM on pages 117-118 of their text Intermediate Financial Management (12<sup>nd</sup> Edition): 10 11 When applied in practice, the CAPM appears to provide neat, precise 12 answers to important questions about risk and required rates of return. 13 However, the answers are less clear than they seem. The simple truth 14 is that we do not know precisely how to measure any of the inputs 15 required to implement the CAPM. These inputs should all be ex ante, 16 yet only *ex-post* data is available. Furthermore, historical data on r<sub>M</sub> and 17 r<sub>RF</sub>, and betas vary greatly depending on the time period studied and the 18 methods used to estimate them. Thus, even though the CAPM 19 appears to be precise, estimates of r<sub>i</sub> found through its use are subject 20 to potentially large errors. (Emphasis added, footnote omitted.) 21 **Q**: Does Mr. Rea use any other analyses in addition to the DCF and CAPM? 22 A: Yes. In addition to his DCF and CAPM analyses, Mr. Rea uses an ECAPM and CAPM 23 with size adjustment. 24 **Q**: Do you agree with Mr. Rea's ECAPM to estimate an appropriate cost of equity 25 for NIPSCO? 26 A: No. Mr. Rea's ECAPM produced an estimated cost of equity, with a flotation cost 27 adjustment, of 10.54% for his Gas LDC group. (Petitioner's Exhibit No. 15, page 84,

1		Table 11.) The ECAPM is designed to address a theoretical downward bias in risk by
2		increasing the risk factor, called "beta." This is accomplished by giving a 25% weight
3		to the Market Risk Premium and a 75% weight to a traditional CAPM risk premium
4		for the proxy group. ECAPM essentially limits the impact of the beta calculated for the
5		proxy group.
6 7	Q:	Has the Commission expressed an opinion on the use and results of an ECAPM approach?
8	A:	Yes. The Commission has rejected the use of ECAPM in at least two previous Causes
9		(Cause Nos. 40003 and 42359). In its Final Order in Cause No. 42359, the Commission
10		affirmed its previous finding the ECAPM is unreliable for ratemaking purposes:
11 12		With respect to the ECAPM analysis performed by Dr. Morin we note that the Commission rejected this model in Cause No. 40003, and found
13 14		that: "the Empirical CAPM is not sufficiently reliable for ratemaking purposes." Cause No. 40003 at 32. We went on to conclude that the
15		ECAPM " would adjust, in essence, future expectations with regard
16 17		to investor perceptions of relative risks for further change which may
18		believe exercises in approximating future cost of capital are conducive
19		to such precise estimation as the Empirical CAPM would suggest." Id.
20		We find that nothing presented in this Cause has changed our prior
21		determination that ECAPM is not sufficiently reliable for ratemaking
22		purposes and hereby reject the model in this proceeding.
23 24		<i>In re PSI Energy</i> , Cause No. 42359, Final Order, p. 56 (Ind. Util. Regulatory Comm'n May 18, 2004.)
25 26	Q:	Did Mr. Rea also estimate a cost of equity using a CAPM with size adjustment approach?
27	A:	Yes, and it resulted in an estimated cost of equity of 11.15%, which includes a flotation
28		cost adjustment adder. (Petitioner's Exhibit No. 15, page 58, Table 6.)

## 1 Q: Do you agree with Mr. Rea's CAPM with size adjustment to estimate an 2 appropriate cost of equity for NIPSCO?

A: No. The applicability of a small size adjustment to regulated public utilities is
 questionable. Regulation reduces the financial risks faced by Petitioner. Annie Wong
 of Western Connecticut State University writes that business and financial risks are
 very similar among utilities regardless of size in *Utility Stock and the Size Effect: An*

7 *Empirical Analysis:* 

8 The fact that the two samples show different, though weak, results 9 indicates that utility and industrial stocks do not share the same 10 characteristics. First, given firm size, utility stocks are consistently less 11 risky than industrial stocks. Second, industrial betas tend to decrease 12 with firm size, but utility betas do not. These findings may be attributed 13 to the fact that all public utilities operate in an environment with 14 regional monopolistic power and regulated financial structure. As a 15 result, the business and financial risks are very similar among the 16 utilities regardless of their size. Therefore, utility betas would not 17 necessarily be related to firm size.

- 18The objective of this study is to examine if the size effect exists in the19utility industry. After controlling for equity values, there is some weak20evidence that firm size is a missing factor from the CAPM for industrial21but not utility stocks. This implies that although the size phenomenon22has been strongly documented for industrials, findings suggest that there23is no need to adjust for the firm size in utility regulation. (Emphasis24added.)
- (Attachment LDC-14, page 4; Annie Wong, "Utility Stock and the Size Effect: An
   *Empirical Analysis*," Journal of the Midwest Finance Association, 1993, page 98.)
- 27 Michael Paschall and George B. Hawkins, authors of *Do Smaller Companies Warrant*
- 28 *a Higher Discount Rate for Risk?: The "Size Effect" Debate*, state that privately held
- 29 companies should be analyzed individually to determine if a size premium is
- 30 appropriate:

31A size premium does not automatically apply in every case. Each32privately held company should be analyzed to determine if a size33premium is appropriate in its particular case. There can be unusual

1 2 3 4	circumstances where a small company has risk characteristics that make it far less risky than the average company, warranting the use of a very low risk premium. One possible example of this is a private water utility (monopoly situation, very low risk, near guarantee of payments).
5 6 7 8	Paschall and Hawkins, <i>Do Smaller Companies Warrant a Higher Discount Rate for Risk?: The "Size Effect" Debate</i> , CCH Business Valuation Alert, page 3, December 1999. (https://www.businessvalue.com/resources/Valuation-Articles/Small-Company-Cap-Rates.pdf)
9	Also, the Commission has found an application of Ibbotson's small company
10	adjustment can ignore the fact that the risk of regulated utilities is not as great as small
11	companies:
12 13 14 15 16 17 18	We are familiar with the Ibbotson-derived 400 basis point small company risk premium used by Mr. Beatty. The rationale behind this approach is that, all other things being equal, the smaller the company, the greater the risk. However, to blindly apply this risk premium to Petitioner is to ignore the fact that Petitioner is a regulated utility. The risks from small size for a regulated water utility are not as great as those small companies facing competition in the open market.
19 20	In re South Haven Sewer, Cause No. 40398, Final Order, pp. 30-31 (Ind. Util. Regulatory Comm'n May 28, 1997.)
21	In an Indiana-American rate case order in Cause No. 43680, the Commission
22	stated that regulated utilities have different risks than other small companies:
23 24 25 26	The Commission rejects Petitioner's equity size premium adjustment because it cannot be directly applied to regulated water utilities. Regulated water utilities do not experience the same risks as other small companies.
27 28	In re Indiana-American Water, Cause No. 43680, Final Order, p. 47 (Ind. Util. Regulatory Comm'n Apr. 30, 2010.)
29	The Commission can apply the same rationale for rejecting equity size
30	adjustments to the natural gas companies it regulates.

## XI. MR. REA'S RISK PREMIUM METHOD ("RISK PREMIUM") ANALYSIS

1	Q:	Please discuss Mr. Rea's Risk Premium model.
2	A:	Mr. Rea uses a Risk Premium model with a Total Market Approach and Public Utility
3		Approach. (Petitioner's Exhibit No. 15, Schedule 8, page 1.) His Total Market
4		Approach uses a Historical Equity Risk Premium of 5.70% and a Prospective Equity
5		Risk Premium of 7.14%. (Id., page 4.) He gives equal weight to each premium and
6		calculates a Total Market Equity Risk Premium, adjusted for beta, of 5.97%. (Id.)
7		Mr. Rea's Public Utility Approach produces an Equity Risk Premium of 5.38%.
8		(Petitioner's Exhibit No. 15, Schedule 8, page 5.) Mr. Rea averages the Total Market
9		and Public Utility Risk Premiums to produce an Equity Risk Premium of 5.68%, and a
10		cost of equity for the Gas LDC group of 10.36% and 10.29% for the Combination
11		Utility group. (Id., pages 1 and 7.)
12 13 14	Q:	Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?
12 13 14 15	<b>Q:</b> A:	Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis? Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This
12 13 14 15 16	<b>Q:</b> A:	<ul><li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li><li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large</li></ul>
12 13 14 15 16 17	<b>Q:</b> A:	<ul> <li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li> <li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large company common stocks from the 2021 SBBI Yearbook. (Id., page 91, lines 16-19.) As</li> </ul>
12 13 14 15 16 17 18	<b>Q:</b> A:	<ul> <li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li> <li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large company common stocks from the 2021 SBBI Yearbook. (Id., page 91, lines 16-19.) As explained previously in my testimony, the sole reliance on an arithmetic mean</li> </ul>
12 13 14 15 16 17 18 19	<b>Q:</b> A:	<ul> <li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li> <li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large company common stocks from the 2021 SBBI Yearbook. (Id., page 91, lines 16-19.) As explained previously in my testimony, the sole reliance on an arithmetic mean calculation overstates an equity risk premium and has been consistently rejected by the</li> </ul>
12 13 14 15 16 17 18 19 20	<b>Q:</b> A:	<ul> <li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li> <li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large company common stocks from the 2021 SBBI Yearbook. (Id., page 91, lines 16-19.) As explained previously in my testimony, the sole reliance on an arithmetic mean calculation overstates an equity risk premium and has been consistently rejected by the Commission.</li> </ul>
12 13 14 15 16 17 18 19 20 21 22	Q: A: Q:	<ul> <li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li> <li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large company common stocks from the 2021 SBBI Yearbook. (Id., page 91, lines 16-19.) As explained previously in my testimony, the sole reliance on an arithmetic mean calculation overstates an equity risk premium and has been consistently rejected by the Commission.</li> <li>Do you agree with the other models Mr. Rea uses to estimate NIPSCO's cost of equity?</li> </ul>
12 13 14 15 16 17 18 19 20 21 22 23	Q: A: Q: A:	<ul> <li>Mr. Rea's Total Market Approach Risk Premium model uses an historical risk premium analysis. Do you have any concerns with Mr. Rea's historical risk premium analysis?</li> <li>Yes. Mr. Rea's historical risk premium analysis uses the Ibbotson SBBI yearbook. This risk premium is based on the arithmetic mean historical monthly returns on large company common stocks from the 2021 SBBI Yearbook. (Id., page 91, lines 16-19.) As explained previously in my testimony, the sole reliance on an arithmetic mean calculation overstates an equity risk premium and has been consistently rejected by the Commission.</li> <li>Do you agree with the other models Mr. Rea uses to estimate NIPSCO's cost of equity?</li> <li>No. Mr. Rea's other models produce results above the DCF and CAPM results, which</li> </ul>

1	The other models' results also are above the cost of equity approved by other state
2	utility commissions in 2021. (Attachment LDC-15, page 1.)

## XII. <u>REGULATORY AND BUSINESS RISKS</u>

# Q: Please discuss Mr. Rea's testimony of the various regulatory and business risks to consider when determining an appropriate cost of equity.

5 A: Mr. Rea considers small size risk, flotation costs, and financial leverage.

### 6 Q: Does Mr. Rea make an adjustment for small size risk?

- 7 A: Yes. As previously discussed, Mr. Rea proposes specific adjustments for small size.
- 8 (Petitioner's Exhibit No. 15, Schedule 7, pages 2-3.) An adjustment for small size is
- 9 not warranted. NIPSCO has approximately 850,000 customers, and is a subsidiary of a
- 10 large holding company, NiSource. NiSource had net profits of \$562.6 million in 2020
- 11 and estimated net profits of \$525 million in 2021. NiSource had a market capitalization
- 12 of \$10 billion on October 25, 2021. (Attachment LDC-1, page 1.) As previously
- 13 discussed, NiSource's market capitalization is larger than three of the companies in the
- 14 Combination Utility group, and larger than six of the seven companies in the Gas LDC
- 15 group.

## 16 Q: Does Mr. Rea make an adjustment for flotation costs?

- 17 A: Yes. Mr. Rea calculates a flotation cost adjustment of 7 basis points for the Gas LDC
  18 Group and 6 basis points for the Combination Utility Group. (Petitioner's Exhibit No.)
- 19 15, page 84, Table 11.)

## 20 Q: Do you agree with Mr. Rea's flotation cost adjustments?

A: No. Mr. Rea has not provided evidence that his flotation cost adder is based on recovery
 of known and measurable flotation costs incurred by NIPSCO. Therefore, the
 Commission should reject NIPSCO's request for a flotation cost adder.

## 1 Q: Does Mr. Rea make an adjustment for financial leverage?

A: Yes. As previously discussed, I recommend Mr. Rea's financial leverage adjustment
be rejected.

## XIII. <u>CAPITAL STRUCTURE</u>

## 4 Q: Briefly explain NIPSCO's proposed December 31, 2022, capital structure as 5 reflected on Petitioner's Exhibit No. 3, Attachment 3-B-S2, CS Module.

6 A: NIPSCO has proposed budget adjustments to all items in the capital structure except 7 customer deposits. Column D on the referenced CS Module represents budget 8 adjustments to move from the normalized twelve months ended December 31, 2020 9 amounts to the 2021 budget amounts. Column F on the referenced CS Module 10 represents budget adjustments to move from the 2021 budget amounts to the 2022 11 budget amounts. I have not located any supporting documentation for these amounts to 12 move between the budget numbers. NIPSCO then makes ratemaking adjustments in 13 Column H for common equity, long-term debt, and deferred income taxes to arrive at 14 the pro forma twelve months ending December 31, 2022 amount included in the capital 15 structure.

## 16 Q: Do you agree with NIPSCO's proposed December 31, 2022, capital structure.

A; Conditionally. For Step 2 rates, NIPSCO proposes to update to the actual amounts for
rate base, capital structure, and annualized depreciation expense as of December 31,
2022. (Verified Petition, page 11, paragraph 17.) The OUCC reserves the right to
review and dispute the proposed actual amounts when NIPSCO makes the Step 2 filing.

## XIV. <u>RATE CASE EXPENSES</u>

1	Q:	How much is NIPSCO seeking to recover from its customers in rate case expenses?
2	A:	NIPSCO wants its customers to pay \$1,615,098 in rate case expenses. (Petitioner's
3		Exhibit No. 19-S2, page 773, Workpaper AMTZ 7-22R, Page [.2].)
4	Q:	Do you agree this entire amount should be paid by NIPSCO's customers?
5	A:	No. Rate case expenses should be shared equally by NIPSCO's shareholders and its
6		customers. NIPSCO shareholders benefit from rate cases as much as NIPSCO's
7		customers.
8	Q:	What benefits do NIPSCO's shareholders receive from rate cases?
9	A:	Shareholders receive the benefit of an updated rate base, updated revenue requirements,
10		and an updated cost of service. Shareholders also receive an updated and reasonable
11		return on equity, which allows NIPSCO to attract capital and provide dividends to its
12		shareholders.
13 14	Q:	Does Indiana statute allow NIPSCO to recover rate case expenses from its customers?
15	A:	Yes. However, Indiana statute does not prohibit the Commission from allowing rate
16		case expenses to be shared between shareholders and utility customers. Ind. Code § 8-
17		1-2-42.7 provides the Commission with jurisdiction over utility rate case proceedings.
18		The language of the statute does not prohibit the Commission from requiring a utility's
19		shareholders to pay an equitable portion of rate case expenses. Furthermore, Ind. Code
20		§ 8-1-2-4 states:
21 22 23 24		The charge made by any public utility for any service rendered or to be rendered either directly or in connection therewith <i>shall be reasonable and just</i> , and every unjust or unreasonable charge for such service is prohibited and declared unlawful. ( <i>Emphasis</i> added.)

1 2	Q:	Are you aware of any cases where the Commission has specifically addressed the sharing of rate case expenses between a utility's shareholders and its customers?
3	A:	Yes. In 1987, the Commission did not require the utility's shareholders to pay any rate
4		case expenses. In re Kokomo Gas and Fuel Co., Cause No. 38096, Final Order, p. 13
5		(Ind. Util. Regul. Comm'n July 29, 1987.) The Commission indicated the OUCC's
6		proposal appeared to be peculiarly disadvantageous to the small public utilities in
7		Indiana, which do not have in-house personnel and counsel to handle their rate cases.
8		( <i>Id.</i> )
9		Also, the Commission did not require the utility's shareholders to pay any rate
10		case expenses in a Community Natural Gas rate case, indicating rate case expense is a
11		cost of doing business. In re Community Nat. Gas Co. Inc., Cause No. 44768, Final
12		Order, p. 22 (Ind. Util. Regul. Comm'n Mar. 22, 2017.)
13 14	Q:	Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?
13 14 15	<b>Q:</b> A:	<ul><li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li><li>I agree small public utilities probably do not have the financial ability to have in-house</li></ul>
13 14 15 16	<b>Q:</b> A:	<ul><li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li><li>I agree small public utilities probably do not have the financial ability to have in-house counsel or some other experts required for presenting a rate case. However, that fact</li></ul>
13 14 15 16 17	<b>Q:</b> A:	<ul> <li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li> <li>I agree small public utilities probably do not have the financial ability to have in-house</li> <li>counsel or some other experts required for presenting a rate case. However, that fact</li> <li>does not mean rate case expenses should not be shared between shareholders and</li> </ul>
13 14 15 16 17 18	<b>Q:</b> A:	<ul> <li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li> <li>I agree small public utilities probably do not have the financial ability to have in-house</li> <li>counsel or some other experts required for presenting a rate case. However, that fact</li> <li>does not mean rate case expenses should not be shared between shareholders and</li> <li>customers. Rate case expenses must be reasonable regardless of who is responsible for</li> </ul>
13 14 15 16 17 18 19	<b>Q:</b> A:	Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities? I agree small public utilities probably do not have the financial ability to have in-house counsel or some other experts required for presenting a rate case. However, that fact does not mean rate case expenses should not be shared between shareholders and customers. Rate case expenses must be reasonable regardless of who is responsible for paying those costs of doing business.
13 14 15 16 17 18 19 20 21	Q: A: Q:	<ul> <li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li> <li>I agree small public utilities probably do not have the financial ability to have in-house counsel or some other experts required for presenting a rate case. However, that fact does not mean rate case expenses should not be shared between shareholders and customers. Rate case expenses must be reasonable regardless of who is responsible for paying those costs of doing business.</li> <li>You mentioned the reasonableness of rate case expenses. Did NIPSCO send requests for proposals ("RFP") to consultants for rate case expenses in this Cause?</li> </ul>
13 14 15 16 17 18 19 20 21 22	Q: A: Q: A:	<ul> <li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li> <li>I agree small public utilities probably do not have the financial ability to have in-house counsel or some other experts required for presenting a rate case. However, that fact does not mean rate case expenses should not be shared between shareholders and customers. Rate case expenses must be reasonable regardless of who is responsible for paying those costs of doing business.</li> <li>You mentioned the reasonableness of rate case expenses. Did NIPSCO send requests for proposals ("RFP") to consultants for rate case expenses in this Cause?</li> <li>No. NIPSCO did not solicit RFPs for this rate case. (Attachment LDC-16, page 1;</li> </ul>
13 14 15 16 17 18 19 20 21 22 23	Q: A: Q: A:	<ul> <li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li> <li>I agree small public utilities probably do not have the financial ability to have in-house counsel or some other experts required for presenting a rate case. However, that fact does not mean rate case expenses should not be shared between shareholders and customers. Rate case expenses must be reasonable regardless of who is responsible for paying those costs of doing business.</li> <li>You mentioned the reasonableness of rate case expenses. Did NIPSCO send requests for proposals ("RFP") to consultants for rate case expenses in this Cause? No. NIPSCO did not solicit RFPs for this rate case. (Attachment LDC-16, page 1; NIPSCO response to OUCC DR 1.3.) Petitioner has not provided evidence of efforts</li> </ul>
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> </ol>	Q: A: Q: A:	<ul> <li>Do you agree sharing rate case expenses between shareholders and customers could be disadvantageous to small public utilities?</li> <li>I agree small public utilities probably do not have the financial ability to have in-house counsel or some other experts required for presenting a rate case. However, that fact does not mean rate case expenses should not be shared between shareholders and customers. Rate case expenses must be reasonable regardless of who is responsible for paying those costs of doing business.</li> <li>You mentioned the reasonableness of rate case expenses. Did NIPSCO send requests for proposals ("RFP") to consultants for rate case expenses in this Cause? No. NIPSCO did not solicit RFPs for this rate case. (Attachment LDC-16, page 1; NIPSCO response to OUCC DR 1.3.) Petitioner has not provided evidence of efforts at cost containment, and consequently that these rate case expenses have been prudently</li> </ul>

1		as reasonably possible. One way to do so is to solicit RFPs and receive competitive
2		bids for legal expenses, cost of equity, cost of service and depreciation experts. Another
3		way to control rate case expenses is to perform some of the work in-house. This is
4		especially true for NIPSCO, which could have its legal work done within the
5		NIPSCO/NiSource legal department. Finally, the best and most fair way to incentivize
6		the utility to control rate case expenses is to allocate those expenses equally between
7		shareholders and utility customers.
8 9 10	Q;	Would NIPSCO be at a disadvantage compared to other large, regulated utilities in Indiana if NIPSCO's shareholders were required to pay half of NIPSCO's rate case expense?
11	A:	No. As previously discussed, shareholders benefit from rate cases, and sharing the rate
12		case expense will make rates more affordable for NIPSCO's customers.
13 14	Q:	Are you aware of any jurisdictions where the state commission has disallowed rate case expenses?
15	A:	Yes. The Missouri Supreme Court on February 9, 2021, upheld a Missouri Public
16		Service Commission ("MPSC") decision to disallow certain rate case expenses claimed
17		by Spire Missouri, Inc. ("Spire"). (Attachment LDC-17, page 2.) Spire is one of the
18		utilities in the Gas LDC proxy group.
19 20	Q:	What was the legal basis the MPSC used to disallow a portion of the rate case expenses?
21	A:	The MPSC concluded that because it is required under section 393.130.13 to set rates
22		that are "just and reasonable," it had the broad discretion to determine whether it was
23		just and reasonable for Spire's shareholders to share the burden of rate case expenses
24		with ratepayers. (Id., page 3.)

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1	Q:	Is there a similar legal standard in Indiana which the Commission must follow?
2	A:	Yes. Ind. Code § 8-1-2-4 requires charges for utility service must be reasonable and
3		just.
4	Q:	Why did the MPSC disallow a portion of the rate case expenses?
5	A:	The Missouri Supreme Court Opinion states:
6 7 8 9 10 11 12 13 14		The PSC determined that approximately half the litigated issues in this case were driven by Spire and among these issues were the proposed use of various shareholder-favorable ratemaking tools, including a revenue stabilization mechanism, a rate of return on equity of 10.35 percent (which would have been the highest of any large utility in Missouri), tracking mechanisms to limit shareholder risk, and earnings-based incentive compensation. The PSC further determined Spire "padded" its revenue requirement by pursuing positions it did not expect to win.
15		(Attachment LDC-17, page 4, emphasis in original.)
16		The Opinion also states: "the PSC concluded that including all of these
17		expenditures in setting Spire's future rates was not <i>just</i> because some of the expenses
18		were not fair to ratepayers in that they only were incurred to benefit (if anyone) Spire's
19		shareholders." (Id. at 12, emphasis in original.)
20	Q:	Are there issues in this Cause like the Missouri case?
21	A:	Yes. Similar to Spire's 10.35% request, NIPSCO is proposing a rate of return of
22		10.50%, which would be higher than any cost of equity awarded to a natural gas utility
23		in Indiana in over a decade. NIPSCO has capital and expense trackers that limit
24		shareholder risk. NIPSCO concluded a 7-year TDSIC mechanism to track and recover
25		capital costs from customers under Cause No. 44403. NIPSCO has a Federally
26		Mandated Cost Adjustment ("FMCA") plan under Cause No. 45007, which concludes
27		in 2023. NIPSCO has started a new 5-year TDSIC plan under Cause No. 45330, and a
28		new FMCA plan under Cause No. 45560.

1	Q:	Did the Missouri Supreme Court state that ratepayers benefit from rate cases?
2	A:	Yes. The Opinion states:
3		Generally, ratepayers benefit from rate cases because they have an
4		interest in ensuring the financial well-being of the utilities that serve
5		them. Therefore, ratepayers justly and reasonably can be expected to
6		pay a utility's expenses in bringing such a case.
7		(Attachment LDC-17, page 12.)
8		However, the Opinion also states:
9		But this does not mean there cannot be limits. A utility cannot spend
10		any amount it pleases secure in the knowledge or expectation that
11		ratepayers will foot the bill, particularly when those expenses include
12		items seeking to subordinate ratepayers' interests to those of the utility's
13		investors.
14		(Id. at 12-13, emphasis added.)
15		The Missouri Supreme Court concluded the MPSC did not err in its decision to
16		exclude a portion of those expenses in setting "just and reasonable" rates because they
17		served only to benefit shareholders and minimize shareholder risk with no
18		accompanying benefit (or potential benefit) to ratepayers. (Id. at 13, emphasis in
19		original.)
20	Q:	Is there a State policy protecting the affordability of utility service?
21	A:	Yes. Ind. Code § 8-1-205 states:
22		The general assembly declares that it is the continuing policy of the
23		state, in cooperation with local governments and other concerned public
24		and private organizations, to use all practicable means and measures
25		including financial and technical assistance in a manner calculated to
25 26		create and maintain conditions under which utilities plan for and invest
20 27		in infrastructure necessary for operation and maintananae while
21 20		m minastructure necessary for operation and maintenance while
2ð		protecting the affordability of utility services for present and future
29		generations of Indiana citizens. (Emphasis added.)

# Q: Will sharing the rate case expense help protect the affordability of utility services for NIPSCO's present and future customers?

3 A: Yes. A reduction of rate case expense that customers pay results in lower, more
affordable utility service rates.

## 5 Q: What is your recommendation regarding rate case expenses?

A: Based on the reasonable and just standard of the Indiana Code, the State's statutory
policy of protecting the affordability of utility services, and similar facts in this Cause
to those presented in the Missouri case, I recommend rate case expenses be shared
equally between NIPSCO's shareholders and customers. OUCC witness Poole uses my
recommendation to share rate case expense in her discussion of NIPSCO's rate case
amortization adjustment in her testimony.

## XV. <u>CUSTOMER BILL TRANSPARENCY</u>

### 12 Q: How are NIPSCO's residential customer bills itemized?

- 13 A: Currently, NIPSCO's residential customer bills are itemized as follows: Gas
- 14 Commodity Charge, Interstate Transportation and Storage Charges, Delivery Charges,
- 15 and Sales Tax. (Attachment LDC-18, page 2.)

## 16 Q: Does this itemization provide sufficient transparency to residential customers?

- 17 A: No. The residential customer bill should be itemized to include the customer service
- 18 charge, TDSIC charge, FMCA charge, and universal service fund charge. If other
- 19 charges are included in the customer's bill, then those should be itemized as well.

## 20Q:Is NIPSCO complying with the Commission's Administrative Code in the way21Petitioner is submitting its bills to its customers?

- 22 A: Yes, in a literal sense NIPSCO is complying with the current requirements of 170
- 23 I.A.C. 5-1-13(A). However, further itemization is needed for transparency. The code
- section was approved in 1976 *prior* to the numerous trackers that now exist. The code

1 section has not changed in the last 45 years. (Attachment LDC-19, pages 5-6; Cause 2 No. 34613, current 170 I.A.C. 5-1-13(A).) 3 Why is it necessary for NIPSCO to provide itemized bills to each residential **O**: 4 customer? 5 A: The default (regular) customer bill should be an itemized bill, which is transparent and 6 provides a thorough breakdown of the charges being paid. Customers should not have 7 to contact NIPSCO customer service personnel to receive a transparent, itemized bill. 8 **O**: What is your recommendation? 9 A: In addition to the charges currently indicated on the bill, I recommend the Commission 10 order NIPSCO to provide its customers with itemized bills to include the customer 11 service charge, TDSIC charge, FMCA charge, and universal service fund charge. If 12 other charges are included in the customer's bill, then those should be itemized as well. 13 Alternatively, the Commission should order NIPSCO to include a bold face notation 14 on the bill that customers may call NIPSCO's customer service representatives if 15 customers want an itemized breakdown of their bills. The itemized bills should be 16 provided at no cost to NIPSCO's customers.

## XVI. <u>SUMMARY AND RECOMMENDATIONS</u>

### 17 Q: Please summarize your testimony on DCF calculations for the proxy groups.

A: I calculated a 3.2% forward dividend yield for the Combination Utility group. I also
performed calculations and analyses in which I concluded a DCF growth rate, *g*, of
5.7% is reasonable. I calculated a 3.8% forward dividend yield and 6.0% growth rate
for the Gas LDC group. These estimates were made using historical and projected
growth rates from *Value Line*, and economic growth data from the CBO. I considered

1		both projected and historical data. My DCF calculations results in an 8.9% cost of
2		equity for the Combination Utility group and 9.8% for the Gas LDC group.
3 4	<b>Q:</b> A:	<b>Please summarize your testimony on CAPM calculations for the proxy groups.</b> Based on <i>Value Line</i> betas and using the same Combination Utility group as Mr. Rea,
5		I calculated an average beta of 0.87 for the Combination Utility group. As the beta is
6		less than 1.0, it also describes a relatively low-risk industry. I used the Duff & Phelps
7		normalized risk-free rate of 2.5%. I reviewed 5-year, 10-year, 20-year, and 30-year
8		Treasury bond yield data for 2021 in arriving at this estimate. The Duff & Phelps risk-
9		free rate was higher than the Treasury bond yield data. Conservatively, I used the higher
10		Duff & Phelps rate. Giving equal weight to both the geometric mean and arithmetic
11		mean approaches, I calculated a market risk premium of 4.95%. This results in a CAPM
12		cost of equity for the Combination Utility group of 9.29%. My CAPM analysis of the
13		Gas LDC group resulted in a cost of equity of 9.46%.
14 15	Q:	Please summarize your testimony on macroeconomic and capital market trends influencing cost of equity.
16	A:	Short-term inflation expectations are high. However, the Federal Reserve is committed
17		to maintaining long-run inflation at 2 percent. Trends in interest rates, inflation, and
18		economic growth do not suggest a return to an inflationary economy.
19	Q:	Please summarize your recommendation for NIPSCO's cost of equity.
20	A:	I recommend the Commission authorize a 9.30% cost on equity for NIPSCO. This
21		recommendation is higher than the range of my DCF and CAPM calculations for the
22		Combination Utility group. The DCF calculation for the Gas LDC group was 9.8%.
23		NIPSCO is a combination gas and electric utility, and therefore, more comparable to
24		the utilities in the Combination Utility group. Therefore, I give more weight to the 8.9%
1		DCF result for the Combination Utility group, than the 9.8% DCF result for the Gas
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2		LDC group, and recommend a 9.3% cost of equity.
3	Q:	Please summarize your recommendation regarding rate case expenses.
4	A:	I recommend rate case expenses be shared equally, and affordably, between NIPSCO's
5		shareholders and its customers.
6 7	Q:	Please summarize your recommendation regarding residential customer bill transparency.
8	A:	In addition to the charges currently indicated on the bill, I recommend the Commission
9		order NIPSCO to provide its customers with itemized bills to include the customer
10		service charge, TDSIC charge, FMCA charge, and universal service fund charge. If
11		other charges are included in the customer's bill, then those should be itemized as well.
12		Alternatively, the Commission should order NIPSCO to include a bold face notation
13		on the bill that customers may call NIPSCO's customer service representatives if
14		customers want an itemized breakdown of their bills. The itemized bills should be
15		provided at no cost to NIPSCO's customers.
16	Q:	Does this conclude your testimony?

17 A: Yes.

#### APPENDIX LDC-1 TO TESTIMONY OF OUCC WITNESS LEJA D. COURTER

1	Q:	Please describe your educational background and experience.
2	A:	I graduated from Ball State University in Muncie, Indiana with Bachelor of Science
3		degrees in Finance and Economics. I received my Juris Doctorate from the University
4		of Dayton. In previous years, I have been engaged in the private practice of law, and I
5		also served as an in-house counsel at Indiana Gas Company. I have been an attorney at
6		the OUCC for over twenty years. I was the Director of the OUCC's Natural Gas
7		Division for twelve years. I became a Chief Technical Advisor at the OUCC in
8		December 2021.
9	Q:	Have you previously testified before the Indiana Utility Regulatory Commission?
9 10	<b>Q:</b> A:	Have you previously testified before the Indiana Utility Regulatory Commission? Yes.
9 10 11	Q: A: Q:	<ul><li>Have you previously testified before the Indiana Utility Regulatory Commission?</li><li>Yes.</li><li>Please describe the review and analysis you conducted to prepare your testimony.</li></ul>
9 10 11 12	Q: A: Q: A:	<ul> <li>Have you previously testified before the Indiana Utility Regulatory Commission?</li> <li>Yes.</li> <li>Please describe the review and analysis you conducted to prepare your testimony.</li> <li>I reviewed NIPSCO's petition, testimony, exhibits, and supporting documentation</li> </ul>
9 10 11 12 13	Q: A: Q: A:	<ul> <li>Have you previously testified before the Indiana Utility Regulatory Commission?</li> <li>Yes.</li> <li>Please describe the review and analysis you conducted to prepare your testimony.</li> <li>I reviewed NIPSCO's petition, testimony, exhibits, and supporting documentation</li> <li>submitted in this Cause. I prepared and reviewed discovery requests, and reviewed</li> </ul>
9 10 11 12 13 14	Q: A: Q: A:	<ul> <li>Have you previously testified before the Indiana Utility Regulatory Commission?</li> <li>Yes.</li> <li>Please describe the review and analysis you conducted to prepare your testimony.</li> <li>I reviewed NIPSCO's petition, testimony, exhibits, and supporting documentation</li> <li>submitted in this Cause. I prepared and reviewed discovery requests, and reviewed</li> <li>NIPSCO's responses. I reviewed numerous financial reports and articles that discuss</li> </ul>
<ol> <li>9</li> <li>10</li> <li>11</li> <li>12</li> <li>13</li> <li>14</li> <li>15</li> </ol>	Q: A: Q: A:	<ul> <li>Have you previously testified before the Indiana Utility Regulatory Commission?</li> <li>Yes.</li> <li>Please describe the review and analysis you conducted to prepare your testimony.</li> <li>I reviewed NIPSCO's petition, testimony, exhibits, and supporting documentation</li> <li>submitted in this Cause. I prepared and reviewed discovery requests, and reviewed</li> <li>NIPSCO's responses. I reviewed numerous financial reports and articles that discuss</li> <li>market returns. I reviewed the Final Order in NIPSCO's last base rate case, Cause No.</li> </ul>
<ol> <li>9</li> <li>10</li> <li>11</li> <li>12</li> <li>13</li> <li>14</li> <li>15</li> <li>16</li> </ol>	Q: A: Q: A:	<ul> <li>Have you previously testified before the Indiana Utility Regulatory Commission?</li> <li>Yes.</li> <li>Please describe the review and analysis you conducted to prepare your testimony.</li> <li>I reviewed NIPSCO's petition, testimony, exhibits, and supporting documentation</li> <li>submitted in this Cause. I prepared and reviewed discovery requests, and reviewed</li> <li>NIPSCO's responses. I reviewed numerous financial reports and articles that discuss</li> <li>market returns. I reviewed the Final Order in NIPSCO's last base rate case, Cause No.</li> <li>44988. I reviewed Commission Orders concerning cost of equity issues.</li> </ul>

#### I. DISCOUNTED CASH FLOW ("DCF") ANALYSIS

#### 17 A. Introduction to DCF Model

#### 18 Q: Please describe the DCF model.

A: The DCF model is typically used by investors to determine the appropriate price to pay
 for a security. This model assumes the price of a security should be determined by its
 expected cash flows discounted by the company's cost of equity. On a one-year

1		horizon, the price of a stock $(P_0)$ is equal to the anticipated dividends paid during the
2		year (D <sub>1</sub> ), plus the anticipated price of the stock at the end of the year (P <sub>1</sub> ) divided by
3		one plus the company's cost of equity (k). In turn, this year's year-end price (P1) is
4		determined by next year's anticipated dividends (D <sub>2</sub> ) and next year's anticipated year-
5		end price (P <sub>2</sub> ) divided by one plus the company's cost of equity (k).
6		Because investors may plan to hold securities for extended periods, the DCF
7		equation can be restated for an infinite or unknown number of periods as follows:
8		$P_0 = D_1/(k-g)$
9		[Where the price of a security $(P_0)$ equals the anticipated dividends paid over the current
10		period $(D_1)$ divided by the company's cost of equity $(k)$ minus the expected growth rate
11		of dividends (g)].
12		The company's cost of equity must be greater than its expected dividend growth
13		rate of this model to be valid. By rearranging the model, the familiar DCF formula used
14		in regulatory proceedings can be obtained.
15		$\mathbf{k} = (\mathbf{D}_1 / \mathbf{P}_0) + \mathbf{g}$
16		[Where the cost of equity (k) equals the forward dividend yield (D1/P0) plus the
17		expected growth rate in dividends per share (g). To estimate the cost of equity (k), the
18		forward yield $(D1/P_0)$ and the expected growth rate in dividends (g) must be estimated.]
19	В.	Dividend yield
20 21	<b>Q:</b> A:	How did you calculate the forward yields (D1/P0) in your analysis? To calculate a forward yield ( $D_1/P_0$ ), the current yield ( $D_0/P_0$ ) must be calculated first.
22		A company's current yield equals its current annual dividends (D <sub>0</sub> ) divided by its
23		current stock price (P <sub>0</sub> ).

1	Q:	How do you convert current yields $(D_0/P_0)$ into forward yields $(D_1/P_0)$ ?
2	A:	I use the following equation to convert a current yield to a forward yield:
3		$D_1/P_0 = (D_0/P_0) * (1 + .5g)$
4		For example, if Company N had a current dividend yield of 4.0% and an expected
5		growth rate of 2%, I would multiply the 4% current dividend yield by 1 plus 2% or 1.01
6		(1% is one-half of the 2% expected growth rate). This results in a forward dividend
7		yield of 4.04%, or an increase of 4 basis points over the current dividend yield. Mr. Rea
8		also uses the one-half year's growth methodology. (Petitioner's Exhibit No. 15,
9		Appendix A, DCF Analysis.)
10	Q:	What dividend yields do you use in your DCF analyses?
11	A:	Attachment LDC-4, page 2 and Attachment LDC-5, page 2, contain the average
12		dividend yields for my proxy groups.
10	C	Dividend growth rate
13	C.	Dividend growth rate
13 14 15	C. Q:	How did you estimate the long run dividend growth component (g) of the DCF model?
13 14 15 16	<b>Q:</b> A:	Dividend growth rate         How did you estimate the long run dividend growth component (g) of the DCF model?         The DCF model assumes investors expect earnings per share (EPS), dividends per share
13 14 15 16 17	<b>Q:</b> A:	<ul> <li>Dividend growth rate</li> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share</li> <li>(DPS), and book value per share (BVPS) to all grow at the constant long run growth</li> </ul>
13 14 15 16 17 18	<b>Q:</b> A:	<ul> <li>Dividend growth rate</li> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share (DPS), and book value per share (BVPS) to all grow at the constant long run growth rate (g). When the data is available, to estimate (g), I use both historical and forecasted</li> </ul>
13 14 15 16 17 18 19	С. Q: А:	<ul> <li>Dividend growth rate</li> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share</li> <li>(DPS), and book value per share (BVPS) to all grow at the constant long run growth rate (g). When the data is available, to estimate (g), I use both historical and forecasted growth rates of EPS, DPS, and BVPS. I use Value Line as my source of growth rates.</li> </ul>
13 14 15 16 17 18 19 20 21	Q: A: Q:	<ul> <li>Dividend growth rate</li> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share (DPS), and book value per share (BVPS) to all grow at the constant long run growth rate (g). When the data is available, to estimate (g), I use both historical and forecasted growth rates of EPS, DPS, and BVPS. I use Value Line as my source of growth rates.</li> <li>What is your estimated long run dividend growth component (g) of the DCF model using Value Line growth rates in EPS, DPS, and BVPS?</li> </ul>
13 14 15 16 17 18 19 20 21 22	C. Q: A: Q: A:	<ul> <li>Dividend growth rate</li> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share</li> <li>(DPS), and book value per share (BVPS) to all grow at the constant long run growth rate (g). When the data is available, to estimate (g), I use both historical and forecasted growth rates of EPS, DPS, and BVPS. I use Value Line as my source of growth rates.</li> <li>What is your estimated long run dividend growth component (g) of the DCF model using Value Line growth rates in EPS, DPS, and BVPS?</li> <li>My estimate of growth is 5.7% for the Combination Utility group and 6.0% for the Gas</li> </ul>
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> </ol>	Q: A: Q: A:	<ul> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share (DPS), and book value per share (BVPS) to all grow at the constant long run growth rate (g). When the data is available, to estimate (g), I use both historical and forecasted growth rates of EPS, DPS, and BVPS. I use Value Line as my source of growth rates.</li> <li>What is your estimated long run dividend growth component (g) of the DCF model using Value Line growth rates in EPS, DPS, and BVPS?</li> <li>My estimate of growth is 5.7% for the Combination Utility group and 6.0% for the Gas LDC group. (Attachment LDC-4, page 3; Attachment LDC-5, page 3.) To estimate</li> </ul>
<ol> <li>13</li> <li>14</li> <li>15</li> <li>16</li> <li>17</li> <li>18</li> <li>19</li> <li>20</li> <li>21</li> <li>22</li> <li>23</li> <li>24</li> </ol>	Q: A: Q: A:	<ul> <li>How did you estimate the long run dividend growth component (g) of the DCF model?</li> <li>The DCF model assumes investors expect earnings per share (EPS), dividends per share (DPS), and book value per share (BVPS) to all grow at the constant long run growth rate (g). When the data is available, to estimate (g), I use both historical and forecasted growth rates of EPS, DPS, and BVPS. I use Value Line as my source of growth rates.</li> <li>What is your estimated long run dividend growth component (g) of the DCF model using Value Line growth rates in EPS, DPS, and BVPS?</li> <li>My estimate of growth is 5.7% for the Combination Utility group and 6.0% for the Gas LDC group. (Attachment LDC-4, page 3; Attachment LDC-5, page 3.) To estimate growth for the Value Line data, I average the forecasted and historical growth rates of growth rates at a value Line data, I average the forecasted and historical growth rates of growth rates data, I average the forecasted and historical growth rates of growth rates data, I average the forecasted and historical growth rates of growth rates of growth rates of growth rates of growth rates data, I average the forecasted and historical growth rates of growth rates of growth rates of growth rates data, I average the forecasted and historical growth rates of growth rates data, I average the forecasted and historical growth rates of growth rates of growth growth</li></ul>

1Q:To estimate the dividend growth (g) for your DCF analysis, did you include2negative growth rates or zero growth rates?

3 A: No. I excluded zero and negative growth rates to estimate (g) in my DCF analysis.

4 **Q**: Why haven't you eliminated low (positive) growth rates from your DCF analysis? 5 A: Low growth rates are not ignored by investors. While investors may not expect low 6 growth rates to occur (especially in perpetuity), if a company has experienced low 7 historical growth rates or is forecasted to experience low growth rates, then those low 8 growth rates are considered by and relevant to investors when they estimate a 9 company's future growth rate. The purpose in estimating a growth rate in the DCF 10 model is to infer the investor's long-term (perpetual) forecast in growth of the 11 company. Relevant factors are not ignored. Also, one should consistently use or reject, 12 both high positive growth rates and low positive growth rates. While growth rates as 13 high as 14.0% or as low as 1.0% by themselves may not reflect investor expectations, 14 neither should be ignored - or alternatively, both should be disregarded.

15 D. DCF Model conclusions

16

Q: What do you conclude from your DCF study?

A: The results of my DCF analysis are 8.9% for the Combination Utility group, and
9.8% for the Gas LDC group. (Attachment LDC-4, page 1; Attachment LDC-5,
page 1.) My DCF analysis uses both historical and forecasted growth rates in EPS,
DPS, and BVPS. It is based on a broader review of growth rates, and it is most
consistent with prior Commission decisions on how to estimate a growth rate in a
DCF analysis. As discussed above, analysts' forecasts of intermediate term growth

rates in EPS may be optimistic and should not be used by themselves to estimate
 long-term growth (g) in a DCF analysis.

#### II. <u>CAPITAL ASSET PRICING MODEL (CAPM) ANALYSIS</u>

#### 3 Q: Please describe your CAPM analysis.

A: The Capital Asset Pricing Model, or CAPM, is a form of risk premium analysis
used to estimate the cost of capital. The CAPM is based on the premise that
investors require a higher return for assuming additional risk. Total risk is divisible
into two categories: systematic risk and unsystematic risk. Systematic risk is risk
that affects the entire market, including inflation, monetary policy, fiscal policy, or
politics. Unsystematic risk is risk unique to the company, and may include strikes,
management errors, merger activity, or individual financing policy.

11 Investors can eliminate unsystematic risk through diversification. Because 12 returns on individual securities of a portfolio do not usually move in the same 13 direction at the same time, the total risk of a portfolio is less than the risk of the 14 individual securities that make up the portfolio. The market does not compensate 15 investors for assuming unsystematic risk because investors can eliminate 16 unsystematic risk through diversification. Conversely, systematic risk, also 17 referred to as market risk, cannot be eliminated through diversification. However, 18 because investments will move with different relationships to the market, investors 19 can form a portfolio to assume the amount of market risk they wish. An investor's 20 required return depends on the market risk that the investor assumes.

Q:	How is systematic (marke	et) risk measured?											
A:	Beta is the measurement	of an investment's relationship to the market. More											
	specifically, beta measures an asset's price volatility compared to the stock market.												
	The market has a beta of one. The market refers to the returns on all assets. It is												
	difficult to measure the return on all assets. Therefore, analysts typically rely on												
	market index, such as the Standard & Poor's 500 Index, as a proxy for the market.												
	Assets more volatile than the market will have a beta greater than one, and thus,												
	are considered riskier than the market. Assets that are less volatile will have a beta												
	less than one and are considered less risky than the market.												
	The CAPM formula can be stated as follows:												
	K =	Rfc + B (Rm-Rf)											
	where,												
	К	Cost of Equity											
	Rfc	Current Risk-Free Rate of Return											
	В	Beta											
	Rm-Rf	Expected Market Equity Risk Premium											
	Rm	Market Equity Return											
	Rf	Risk Free Rate of Return											
	The return on an asset (K)	equals the risk-free rate of return (Rfc) plus its beta (B)											
	multiplied by the market	equity risk premium (Rm - Rf). The market equity risk											
	premium equals the marke	et equity return minus the risk-free rate of return.											
	Q: A:	Q:How is systematic (marka A:A:Beta is the measurement specifically, beta measures The market has a beta of 											

Appendix LDC-1 Cause No. 45621 Page 7 of 11

#### 1 Q: Is the CAPM controversial?

A: The CAPM is typically more controversial and less reliable than the DCF model.
Different applications of CAPM may result in vastly different cost of equity
estimates. For example, the source of beta can influence the results of a CAPM
analysis. If a market risk premium of 5.0% is used, a difference in beta of only
0.10 changes the results of a CAPM analysis by 50 basis points.

7 The method used to estimate the market risk premium can also be 8 particularly controversial. An historical risk premium can be calculated, but a 9 decision must be made between using a geometric mean or an arithmetic mean calculation. This decision is important because the use of the arithmetic mean 10 11 can produce results that are over 140 basis points higher than the geometric mean. (Attachment LDC-6, page 1.) The geometric mean calculation is 12 13 preferable over the arithmetic mean calculation because the geometric mean 14 calculation more accurately measures the change in wealth over multiple periods. Selecting the appropriate period to calculate a historical risk premium 15 16 is not only controversial, it also dramatically affects the results. When relying 17 on a historical risk premium, the longest historical period for which accurate 18 historical data exists should be used to estimate a risk premium.

## 1 A. <u>Geometric vs. Arithmetic Mean</u>

2 3	Q:	In your CAPM analysis did you use a geometric mean risk premium or an arithmetic mean risk premium?
4	A:	When relying on historical returns; I consider the geometric mean a better
5		representation of expected returns than the arithmetic mean. However; both
6		calculations can provide meaningful insight to estimate a market risk premium
7		for a CAPM analysis. My CAPM analysis weighs both geometric and
8		arithmetic mean risk premiums equally.
9 10	Q:	How has the Commission ruled on the issue of arithmetic mean premiums versus geometric mean risk premiums?
11	A:	For more than 25 years this Commission has consistently given weight to both the
12		arithmetic mean risk premium and the geometric mean risk premium. In the Peoples
13		Gas and Power Company case, the Commission stated:
14		As in the Indiana Cities case, [Cause No. 39166, July 8, 1992] we find
15		there is merit in using both the arithmetic and geometric means and that
10 17		Peoples Gas and Power Company, Cause No. 39315 Final Order p. 12
18		(Ind. Util. Regulatory Comm'n October 21, 1992.)
19		The Commission reaffirmed its position in Indiana-American Water Company:
20		The debate over the proposed use of the arithmetic and geometric
21		means is one we consider resolved. As we stated in Indianapolis Water
22		Company, Cause No. 39713-39843, each method has its strengths and
23		weaknesses, and neither is so clearly appropriate as to exclude
24		consideration of the other. In re Indiana-American Water Company,
25		Cause No. 40103, Final Order p. 41 (Ind. Util. Regulatory Comm'n
26		May 30, 1996, <u>emphasis</u> added.)
27		The Commission also reaffirmed its position in another Indiana-American Water
28		Company case in 2010 when it stated:

1 2 3 4 5 6 7 8		Neither the arithmetic risk premium nor the geometric mean risk premium should be excluded in favor of the other, and nothing has caused us to change our opinion regarding the appropriate application of both arithmetic and geometric mean risk premiums. Therefore, the Commission will continue to give both the geometric and arithmetic mean risk premiums substantial weight. <i>In re Indiana-American Water</i> <i>Company</i> , Cause No. 43680, Final Order p. 48 (Ind. Util. Regulatory Comm'n April 30, 2010.)
9 10	Q:	When calculating a market risk premium, do you use total returns or income returns?
11	A:	I use total returns. Investors who buy long-term bonds (both risk-free and utility
12		bonds) do not earn just income returns, but total returns. Therefore, a determination
13		of the risk premium should be based on total returns for both equity and debt
14		investments when estimating a risk premium. In Indiana-American Water
15		Company Inc.'s, Cause No. 42520, the Commission agreed with the testimony of
16		Intervenor witness Michael Gorman that total returns and not income returns
17		should be used to estimate an historical risk premium. The Order states:
18 19 20 21 22 23 24 25 26 27 28 29		Another area of disagreement in the CAPM analysis is whether the model should use total returns or income returns. We find Mr. Gorman's analysis in this area to be most persuasive. The income return on Treasury bonds is simply the average of Treasury bond yield quotes over the historical period, and this yield quote does not measure the actual return investors earn by making investments in Treasury bonds. Investors simply cannot invest only in Treasury bond income returns. Rather, investors must take the risk of variations in bond prices before they invest in treasury bonds. Therefore the actual return experienced by investors in Treasury securities is measured by total return, not simply the income return. <i>In re Indiana-American Water Company, Inc.</i> , Cause No. 45520, Final Order p. 59 (Ind. Util. Regulatory Comm'n Nov. 18, 2004.)
30	B.	Risk-free rate of return

#### 31 Q: Is the risk-free rate of return also controversial?

- 32 A: Yes. Aside from the market risk premium controversy, financial analysts do not agree
- 33 on the determination of the risk-free rate. Theoretically, the risk-free rate is the rate of

6	Q;	How did you estimate the risk-free rate?
5		longer term Treasury instruments as an estimate of the risk-free rate.
4		However, the volatility of 91-day Treasury Bills rates has led many analysts to use
3		the yield on 91-day Treasury Bills as a proxy for the theoretical risk-free rate of return.
2		United State Treasury securities as a proxy for the risk-free rate. An analyst could use
1		return on a completely risk-free asset. In practice, analysts typically use yields on

How did you estimate the risk-free rate? Q;

7 A: I reviewed short, intermediate, and long-term risk-free rates. I used one-year Treasury 8 securities as an estimate of short-term yields, the average of five-year and ten-year 9 Treasury securities as an estimate of intermediate-term yields, and 30-year Treasury 10 securities as an estimate of long-term yields. Although I reviewed short-term, 11 intermediate-term and long-term interest rates, I give most of my emphasis to long-12 term interest rates, some emphasis to intermediate-term interest rates and no emphasis 13 to the results generated from the use of short-term interest rates.

14 C. Beta.

#### What source did you review to estimate beta? 15 **Q**:

16 I relied on Value Line as my source of beta. Based on Value Line, Combination Utility A: 17 group produces an average beta of 0.87%. (Attachment LDC-6, page 3.) The Gas LDC 18 group produces an average beta of 0.90. (Attachment LDC-7, page 3.)

19 D. **Conclusions on CAPM analysis** 

20 **Q**: Please review the results of your CAPM analysis.

21 A: The cost of equity based on my CAPM analysis for the Combination Utility group is 22 9.29%. (Attachment LDC-6, page 1.) The cost of equity based on my CAPM analysis 23 for the Gas LDC group is 9.46%. (Attachment LDC-7, page 1.)

Appendix LDC-1 Cause No. 45621 Page 11 of 11

1	To estimate cost of equity, I calculated both a geometric mean risk premium
2	and an arithmetic mean risk premium. I averaged the risk premiums and combined the
3	risk premiums with the risk-free interest rates described above. I used Duff and Phelps
4	risk-fee rate of 2.50%. (Attachment LDC-8, page 1.)

Attachment LDC-1 Cause No. 45621

#### 25.54 P/E RATIO 18.0 (Trailing: 18.9) RELATIVE 0.95 DIVD Median: 21.0) P/E RATIO 0.95 VLD VALUE e 1 of 1 NISOURCE INC. NYSE-NI RECENT PRICE 3.4% LINE 24.0 17.7 33.5 24.8 44.9 32.1 30.7 24.7 26.6 21.1 TIMELINESS 4 Lowered 6/4/21 High: 18.0 49 2 26.9 278 28 1 30.5 26.2 **Target Price Range** 14.1 22.3 16.0 19.0 21.7 19.6 Low: 2024 | 2025 | 2026 SAFETY 3 Lowered 3/19/21 LEGENDS 0.50 x Dividends p sh divided by Interest Rate Relative Price Strength 80 TECHNICAL 3 Lowered 10/15/21 60 BETA .85 (1.00 = Market) Options: Yes 50 Shaded area indicates recession **18-Month Target Price Range** 40 Low-High Midpoint (% to Mid) 30 1<sup>1111</sup>1.1111111 25 \$18-\$28 \$23 (-10%) .20 2024-26 PROJECTIONS 15 Ann'l Total Return Price Gain 10 (+95%) (+35%) 50 35 20% 11% 7.5 % TOT. RETURN 10/21 ·... Institutional Decisions VL ARITH. INDEX THIS 4Q2020 1Q2021 202021 Percent 30 20 198 219 252 188 256 197 vr 11.3 55.5 shares 65 64 6 3 yr. traded 10 361696 23.3 104.1 Hld's(000) 359962 367884 5 yr 2010 2011 © VALUE LINE PUB. LLC 2006 2007 2008 2009 2022 24-26 2005 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 12.65 13.50 Revenues per sh 15.95 27.37 28.96 32.36 24.02 22.99 21.33 16.31 18.04 20.47 14.58 13.90 14.46 13.74 13.63 11.95 3.18 3.20 3.32 3.19 2.98 3.13 3.41 3.60 2.27 2.71 2.07 2.86 3.17 3.15 3.10 3.30 "Cash Flow" per sh 4.10 2.96 1.14 1.34 .84 1.06 1.05 1.37 1.57 1.67 .63 1.00 .39 1.30 1.31 1.32 1.35 1.50 Earnings per sh A 2.15 1.14 Div'd Decl'd per sh<sup>B</sup> = 1.04 .92 .92 .92 .92 .92 .92 94 .98 1.02 83 64 .70 .78 .80 .84 .88 .92 2.33 2.88 3.54 2.81 2.88 3.99 4.83 5.99 6.42 5.03 4.88 4.72 4.49 4.55 4.50 Cap'l Spending per sh 4.35 4.26 4.57 18.32 18.52 17.24 17.54 17.63 17.71 17.90 18.77 19.54 12.04 12.60 12.82 13.08 13.36 12.66 13.15 13.80 Book Value per sh C 16.80 272.62 273.65 274.18 274.26 276.79 279.30 282.18 310.28 313.68 316.04 319.11 323.16 337.02 372.36 382.14 391.76 395.00 400.00 Common Shs Outst'g D 415.00 Avg Ann'l P/E Ratio 19.0 19.2 18.8 12.1 14.3 15.3 19.4 17.9 18.9 22.7 37.3 23.2 NMF 19.3 21.3 18.7 Bold figures are Valı 1.04 1.00 .73 95 97 1.22 1.14 1.06 1.19 1.88 1.22 NMF 1.04 1.13 .96 **Relative P/E Ratio** 1.05 esti tes Avg Ann'l Div'd Yield 4.2% 4.3% 5.7% 7.6% 5.7% 4.5% 3.8% 3.3% 2.7% 3.5% 2.8% 2.8% 3.1% 2.9% 3.4% 2.5% CAPITAL STRUCTURE as of 9/30/21 5657.3 6470.6 4651.8 4492.5 4874.6 5114.5 5208.9 4681.7 6620 6019.1 5061.2 5000 5400 Revenues (\$mill) Total Debt \$9623.9 mill. Due in 5 Yrs \$2651 mill. 303.8 410.6 490.9 530.7 198.6 328.1 128.6 478.3 549.8 562.6 525 595 Net Profit (\$mill) 880 LT Debt \$9188.2 mill. LT Interest \$379 mill. 19.0% 35.0% 34.4% 34.8% 36.9% 41.6% 35.7% 71.0% 19.7% 17.0% 18.3% 19.0% 19.0% Income Tax Rate (Interest cov. earned: 2.2x) (58% of Cap'l) 2.9% 2.0% 2.0% 2.0% AFUDC % to Net Profit 2.0% 55.6% 55.1% 56.3% 56.9% 60.7% 59.8% 63.5% 55.3% 56.8% 61.2% 60.0% 60.0% Long-Term Debt Ratio 60.0% Leases, Uncapitalized Annual rentals \$32.7 mill 44.4% 44.9% 43.7% 43.1% 39.3% 40.2% 36.5% 37.9% 36.9% 32.9% 40.0% 40.0% Common Equity Ratio 40.0% Pension Assets-12/20 \$2.1 bill. Oblig. \$2.1 bill. 11264 12373 13480 14331 9792.0 10129 11832 12856 13843 15058 16200 16585 Total Capital (\$mill) 18180 Pfd Stock \$880 mill. Pfd Div'd \$28.5 mill. Net Plant (\$mill) 11800 12916 14365 16017 12112 13068 14360 15543 16912 16620 16750 17000 17500 4.4% 5.3% 5.0% 2.6% 5.1% 5.3% 5.0% 3.5% 3.5% Return on Total Cap'l 5.0% 5.0% 5.2% 4.0% 6.1% 7.4% 8.3% 8.6% 5.2% 8.1% 3.0% 8.3% 9.2% 9.6% 8.5% 9.5% Return on Shr. Equity 11.0% Common Stock 392,704,679 shs. 9.5% Return on Com Equity 10.5% 8.5% 11.0% as of 10/25/21 6.1% 7.4% 8.3% 8.6% 5.2% 8.1% 3.0% 9.6% 9.7% MARKET CAP: \$10.0 billion (Large Cap) .9% 2.5% 3.1% 3.4% NMF 3.0% NMF 4.0% 3.8% 3.7% 2.5% 3.0% Retained to Com Eq 5.5% CURRENT POSITION 2019 2020 9/30/21 All Div'ds to Net Prof 85% 67% 62% 61% NMF 63% NMF 60% 64% 67% 71% 67% 52% (\$MILL.) than 1%. Generating sources, coal, 69.4%; purchased & other, Cash Assets BUSINESS: NiSource Inc. is a holding company for Northern Indi-139.3 116 5 38.5 1714.6 1542.9 1432.9 ana Public Service Company (NIPSCO), which supplies electricity 30.6%. 2020 reported depreciation rates: 2.9% electric, 2.2% gas. Current Assets 1853.9 1659.4 1471.4 and gas to the northern third of Indiana. Customers: 479,185 elec-Has 7,304 employees. Chairman: Richard L. Thompson. President 487.2 435.7 323.7 Accts Payable Debt Due 666.0 589.0 tric in Indiana, 3,200,000 million gas in Indiana, Ohio, Pennsylvania, & Chief Executive Officer: Joseph Hamrock. Incorporated: Indiana. 17836 526.3 Kentucky, Virginia, Maryland, through its Columbia subsidiaries. Address: 801 East 86th Avenue, Merrillville, Indiana 46410. Tele-1296.2 1164.1 Revenue breakdown, 2020: electrical, 31%; gas, 69%; other, less phone: 877-647-5990. Internet: www.nisource.com Current Liab. 3745.8 2279.4 2246.6 Fix. Chg. Cov 250% 250% 255% NiSource Inc. recently posted solid progressing nicely and augur well for pros-Past Est'd '18-'20 ANNUAL RATES Past September-period financial results. pects in this year and beyond. Once apto '24-'26 Revenues advanced 6.3%, to \$959.4 milof change (per sh) 10 Yrs. 5 Yrs. proved, these efforts should help NiSource -7.0% -.5% -6.0% 3.5% 5.5% Revenues "Cash Flow" lion, thanks primarily to a 10.8% uptick in achieve a healthy return on capital growth .5% -3.0% -5.0% 2.0% -1.5% 8.5% 4.5% volumes at the Northern Indiana Public projects. In fact, management has roughly Earnings Dividends Service Company (NIPSCO) electric utili-\$10 billion earmarked for expansion initia-**Book Value** -3.0% 4 5% ty. At the same time, the Gas Distribution tives through 2024. QUARTERLY REVENUES (\$ mill.) arm registered a low single-digit percent-The balance sheet is in decent shape. Full Mar.31 Jun.30 Sep.30 Dec.31 Year Although cash reserves fell about 65% so age increase in volumes. On the profitabil-1007.0 895.0 1461.7 ity front, overall expenses decreased 500 far this year, that cushion still sits at 1750.8 5114. 1869.8 1010.4 1397.2 \$38.5 million. And the long-term debt load 931.5 5208.9 basis points as a percentage of the top line. Combined, these factors drove the bottom line 22% higher, to \$0.11 a share. 1605.5 962.7 902.5 1211.0 4681. remains at 58% of total capital, which is in 959.4 1545.6 986.0 1509 5000 line with the industry. 1645 1085 1060 1610 5400 This was in line with our earlier call. These shares are not attractive in the EARNINGS PER SHARE A Full We have left our 2021 earnings outshort term. Indeed, our Timeliness Rank-Mar.31 Jun.30 Sep.30 Dec.31 Year ing System has NI stock ranked to underlook unchanged at the moment. The .77 .38 1.30 holding company of NIPSCO appears well perform the broader market averages in .07 .10 .82 .05 .45 1.31 positioned to log a nearly 7% rise in revethe coming year (Timeliness: 4). That said, .76 .13 .09 .34 1.32 nues this year, to \$5.0 billion. This ought patient accounts could utilize a near-term .77 .13 .11 .34 1.35 to be supported by continually increasing correction to afford them an attractive .17 .38 1.50 .80 .15 contributions from both the Electricity and entry point. NI does offer well above-QUARTERLY DIVIDENDS PAID B the Gas Distribution segments. NIPSCO average capital appreciation potential for Full Mar.31 Jun.30 Sep.30 Dec.31 Year the pull to 2024-2026. What's more, filed for a gas base-rate increase of \$115 .70 million annually. That rate hike would go income-seeking accounts may be drawn by .175 .175 .175 .175 .195 .195 .195 .195 .78 towards infrastructure modernization and the attractive dividend yield, which is .200 .200 .200 .200 .80 reliability upgrades. Elsewhere, Columbia above the Value Line median, if on par for

(A) Dil. EPS. Excl. nonrec. gains (losses): '05, (4¢); gains (losses) on disc. ops.: '05, 10¢; '06, (11¢); '07, 3¢; '08, (\$1.14); '15, (30¢); '18, (\$1.48). Next egs. report due late Jan. Qtl'y

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egs. may not sum to total due to rounding. (B) Div'ds historically paid in mid-Feb., May, Aug., Nov. ■ Div'd reinv. avail. (C) Incl. intang in '20: \$1485.9 million,

(D) In mill. (E) Spun off Columbia Pipeline Group (7/15)

Novembe	r 26, 2021
ompany's Financial Strengt	h B+
tock's Price Stability	100

20

45

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this industry.

Bryan J. Fong

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Maryland all have rate cases that are \$3.79/sh

Gas of Ohio, Pennsylvania, Kentucky, and

### Cause No. 45621

ALL	.IAN	TEN	VER(	<b>GY</b> NI	DQ-lnt		R	ecent Rice	57.28	B P/E RATI	₀ <b>21</b> .	6 (Traili Medi	ng: 22.6 an: 19.0 <b>)</b>	RELATIV P/E rati	<b>1.1</b>	9 DIV'D YLD	3.0	% V		Ee 1	of 9			
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234.07	232.25	15.1	13.4	13.9	12.5	14.5	14.5	15.3	16.6	18.1	227.67	231.35	236.06	245.02	249.87	250.50 Bold fig	251.00 ures are	Avg Ann	I Shs Out I P/E Rat	io	252.50			
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Pensior	Assets	-12/20 \$	984 mill.	Oblia \$13	351 mill.	50.9%	48.4%	50.8%	47.5%	50.0%	46.1%	49.8%	45.7%	47.6%	44.9%	47.0%	45.5%	Common Total Car	Equity R	atio	45.0%			
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Commo	n Stock	250,360	,857 shs.			9.5%	10.1%	11.3%	11.2%	10.0%	9.7%	10.0%	11.2%	10.3%	10.8%	11.0%	11.0%	Return of	n Com Ec	uity ⊨	11.5%			
	T CAP:	\$14 billio	on (Large	e Cap)		3.3%	3.9%	4.9%	4.6%	3.6%	2.8%	4.0%	4.4%	4.2%	4.2%	4.5%	4.0%	Retained	to Com I	Eq	4.0% 64%			
			2018	2019	2020	BUSIN	BUSINESS: Alliant Energy Corporation, formerly named Interstate dustrial, 29%; wholesale, 7%; other, 3%. Fuel sources:										ces: da	s. 34%:						
Avg. Indust.	Use (MWH) Rove por Ki		11830	11448	11134	Energy	Energy, is a holding company formed through the merger of WPL									coal, 22%; wind, 16%; other, 1%; purchased, 27%. Fuel costs: 4 of revs. '20 reported depreciation rates: 2.8%-6.3%. Has 3.400 e								
Capacity at	Peak (Mw) Summer (Mv	v)	5459 5459	5626 5626	5496 5496	Holdings, IES Industries, and Interstate Power. Supplies electricity to 977,000 customers and gas to 420,000 customers in Wisconsin,									ployees. Chairman, President & CEO: John O. Larsen. Inc.: V consin. Address: 4902 N. Biltmore Lane. Madison. Wiscol						c.: Wis-			
Annual Load % Change (	Factor (%)	") r-end)	NA + 4	NA + 6	NA + 6	Iowa, and Minnesota. Electric revenue by state: WI, 42%; IA, 57%; MN, 1%. Electric revenue: residential, 37%; commercial, 24%; in-									consin. Address: 4902 N. Biltmore Lane, Madison, Wisconsi 53718-2148. Tel.: 608-458-3311. Internet: www.alliantenergy.com.									
Fixed Charg	e Cov. (%)		260	265	251	Allia	Alliant Energy has raised its earnings									ment. However, we also assume normal								
ANNUA		S Past	Pa	st Est'd	1 '18-'20	targ	target for 2021, issued guidance for 2022, and announced its expectation								weather conditions. Favorable weather boosted share profits by \$0.08 in the first									
Revenu	(per sn)	-1.0	. 511 1%	rs. to .5%	24-26	for	for the dividend in 2022. Upon report-								nine months of 2021. This growth rate we expect is below Alliant's target of 50% 70%.									
Earning	-IOW" IS	7.0	% 6. % 6.	0% 5%	7.0% 5.5%	ing help	ing third-quarter profits, which were helped by favorable weather patterns								because the weather benefit in 2021									
Book V	alue	5.0	1% 7. 1% 6.	5%	5.0%	man	agem	ent ra	ised a	nd na	arrow	ed its	tar-	make	es the	comp	arison	tough	1.					
Cal-	QUAR Mar 31	TERLY RE	EVENUES (	(\$ mill.)	Full	gete \$2.5	geted range for share net in 2021 from 4 \$2,50-\$2,64 to \$2,61-\$2.67 Alliant's guid-								Alliant's utilities plan to add renewa- ble energy capacity in Wisconsin and									
2018	916.3	816.1	928.6	873.5	3534.5	ance	for 2	2022 i	s \$2.6	5-\$2.7	79 a s	hare.	The	Iowa WDI	. The	Wisc	onsin	comm	nissior	ı gra	nted			
2019	987.2 915.7	790.2 763 1	990.2 920 0	880.1 817 2	3647.7	tion	for t	aiso a he ar	nnual	divid	end i	s expe n 202	22 is	of ca	perm	y. The	e com	ipany	is as	sking	the			
2021	901.0	817.0	1024.0	958	3700	\$1.7	1 a sh	nare, a	a raise	of \$(	0.10 (6 , to d	3.2%). oclaro	The	Iowa	comn	nissio	n to a	pprov	e a pi	ropos	al to			
2022 Cal-	1000 EA	850 RNINGS F	PER SHAR	975 E A	3900 Eull	next	divid	end ir	Janu	ary.	10 u	eciale	; the	batte	ry sto	rage.	Howe	ver, so	me of	f Alli	ant's			
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	Wise ing	consi: a dec	n Pov	ver a	nd L s reg	ight ulato	is aw rv se	vait- ttle-	capit	al spe ostpon	ending ed fro	g on re om 20	enewa 22 an	ble er d 202	nergy 3 to	will 2024			
2018 2019	.52 .53	.43 .40	.87 .94	.37 .46	2.19 2.33	men	t. If t	his is	appro	ved b	y the	Wisco	nsin	due t	o infl	ation	and su	upply-	chain	conc	erns.			
2020	.72	.54	.94 1 02	.26	2.47	tv's	missio electri	n, at c rate	the sta s will	art of be ra	t 2022 ised h	the 1 y \$70	utili- mil-	Some	e of th from	tax-e	aıng f quitv	or the partne	se pro ershin	ojects s.	will			
2022	.00	.57	1.02	.35	2.05	lion	(6%)	and	as tar	iffs v	vill be	hike	d by	This	stoc	k's v	aluat	ion r	emai	ns h	igh.			
Cal-	QUART	ERLY DIV	DENDS PA		Full	a15 equi	millio ty wil	11 (8%) l rema	). WPI ain at 1	⊿s all 10%.	owed and tl	retur: ne allo	n on owed	avera	aivide age. 7	ena y Iotal	returr	is bel 1 pote	ow tl ntial	over	the			
2017	.315	.315	.315	.315	1.26	com	non-e	quity	ratio	will r	rise fr	om 55	2.5%	18-m	onth	span	is dec	ent, b	ut wit	th th	e re-			
2018	.335	.335	.335	.335	1.34	$  \mathbf{W} \mathbf{e}^{10} \mathbf{b}^{4}$	• <sup>70.</sup> estin	nate	that	earn	ings	will	ad-	cent quotation well within the equity's 3- to 5-year Target Price Range, total return										
2020	.38	.38	.38	.38	1.52	van Wige	ce 4%	b in 2	2022.	We a	ssume	that	the	potential is low. $Paul E Debbas CE^{\Delta}$ December 10 2021										
2021 (A) Dilute	.4025 d EPS 1	.4025 Excl. non	ecurrina	.4025 losses: '1	 11.   Mav		nd Nov	∎ Divider	nd reinves	tment I	base: Ori	a. cost	Rates all	d on con	1. ea. in		mpanv's	Financial	Strengt	, 10, h	A			
1¢; '12, 8	¢. '20 EF	PS don't	sum due t	to roundir mid_Fe	ng. plan	avail. † S	Sharehold	der invest	ment plan	avail.	in '20: va	arious; in	WI in '2	20: 10%; Regulato	earned or	on Sto	ck's Pric	e Stabilit	y ence		95 65			
(B) Divid	lends h	istorically	paid in	n mid-Fe	b., \$8.0	1/sh. (D)	In million	ns, adj. fo	or split. (E)	Rate	WI, Abov	e Averag	je; lowa,	Average.	, <i>s</i>	Ear	nings Pr	edictabili	ity		95			

Next earnings report due mid-Feb., (C) incl. deferred charges. In 20: \$2002 mill., avg. com. eq., 20: 11.3%. Hegulatory Climate: (B) Dividends historically paid in mid-Feb., (Sol.1sh. (D) In millions, adj. for split. (E) Rate | WI, Above Average; Iowa, Average. © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

Cause No. 45621

BL/	<b>ICK</b>	HIL	LS C	ORP	) I NYS	Е-вкн	R	ecent Rice	63.1	2 <sup>P/E</sup> RATI	o <b>15</b> .	7 (Traili Media	ng: 16.8) an: 18.0)	RELATIV P/e rati	<b>6 0.8</b>	5 DIV'D YLD	3.8	%		E 2	of 9
TIMELIN	iess 4	Lowered	4/16/21	High:	34.5	34.8	37.0	55.1 36.9	62.1 47 1	53.4 36.8	64.6 44.7	72.0	68.2 50.5	82.0 60.8	87.1 48 1	72.8		-	Targe	t Price	Range
SAFETY 2 Raised 5/1/15 LEGENDS						ands n sh		00.0	77.1	00.0		07.0	00.0	00.0	-10.1	50.2			2024	2025	2026
TECHN	CAL 1	Raised 1	0/1/21	div Re	vided by In elative Pric	terest Rate e Strength															200
BETA 1	.00 (1.00	= Market)	Danna	Options: Shaded	Yes area indica	ates recess	sion														
18-MO	ith larg	et Price	to Mid)												11	-				•	100 80
\$34-\$93	\$64	(0%)	to mila)						N <sup>111</sup> 111		mm	1 mil	1		Thun 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				+	-60
202	4-26 PR	OJECTIO	ONS					11 <sup>1111111</sup>		in l <sub>h</sub> ill	ľ										40
	Price	Gain	nn'l Total Return	·		ull <sub>er</sub> ull	ասվու														30
High Low	95 (+ 70 (+	⊦50%) ⊦10%)	14% 7%		·····*··.	••••	•••••		·····.	*****	••••••••••••••••••••••••••••••••••••••		<u> </u>					 •/ то	 T DETUC	0/01	_20
Institu	tional D	Decisio	ns							••••					••••	•••.		^0 10	THIS STOCK	VL ARITH.*	
to Buy	130	132	202021 91	Percen shares	t 30 20	d hu					<b>I</b> II	t			1.1			1 yr. 3 yr	21.4	50.6 43.9	F
Hid's(000)	53730	54420	55341	traded	10 -													5 yr.	18.9	89.2	<u> </u>
2005	10.60	19./1	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022		JE LINE P	UB. LLC	24-26
41.97	5.04	5.29	20.03	5.41	4.88	4.01	5.59	5.93	6.25	5.67	6.28	7.15	6.61	7.02	7.41	7.65	7.95	"Cash F	low" per	sh	29.25 9.25
2.11	2.21	2.68	.18	2.32	1.66	1.01	1.97	2.61	2.89	2.83	2.63	3.38	3.47	3.53	3.73	3.90	4.05	Earning	s per sh	A	4.75
1.28	9.24	1.3/	1.40	1.42	1.44	1.46	1.48	1.52	1.56	1.62	1.68	1.81	1.93	2.05	2.1/	2.29	2.41	Div'd De Can'l Sn	cl'd per s ending n	sh¤∎ ersh	2.80
22.29	23.68	25.66	27.19	27.84	28.02	27.53	27.88	29.39	30.80	28.63	30.25	31.92	36.36	38.42	40.79	42.85	44.90	Book Va	lue per si	h <sup>C</sup>	52.00
33.16	33.37	37.80	38.64	38.97	39.27	43.92	44.21	44.50	44.67	51.19	53.38	53.54	60.00	61.48	62.79	64.50	65.50	Commo	n Shs Ou	tsťg D	68.50
.92	15.8	.80	NMF	9.9	18.1	1.95	17.1	18.2	19.0	.81	1.17	.98	.91	1.13	.87	Bold fig Value	ures are Line	Avg Ann Relative	P/E Ratio	(10 )	17.5 .95
3.5%	3.8%	3.4%	4.2%	6.2%	4.8%	4.6%	4.4%	3.2%	2.8%	3.5%	2.9%	2.7%	3.3%	2.7%	3.4%	estin	ates	Avg Ann	ı'l Div'd Y	ield	3.4%
CAPITA	LSTRU	CTURE a	as of 6/30	/21		1272.2	1173.9	1275.9	1393.6	1304.6	1573.0	1680.3	1754.3	1734.9	1696.9	1875	1850	Revenue	es (\$mill)		2000
LT Debi	ebt \$436 \$3530.2	7.1 mill. <b>l</b> ? mill. <b>l</b>	Jue in 5 1	rs \$1335 st \$141.6	5.3 mill. mill.	40.4	86.9 35.5%	115.8	128.8	128.3	140.3	186.5	192.5	214.5	232.9	250	265	Net Prof	it (\$mill) Tax Pate		325
(LT inte	rest earn	ed: 2.7x)	nnual ron	tale \$ Q n	oill	65.0%	5.4%	2.4%	2.4%	2.7%	5.3%	2.7%	1.4%	3.3%	2.5%	2.0%	2.0%	AFUDC	% to Net I	Profit	1.0%
Leases	oncapi			iais 4.9 ii		51.4%	43.2%	51.6%	47.9%	56.0%	66.5%	64.5%	57.5%	57.1%	57.9%	60.5%	55.5%	Long-Te	rm Debt F	Ratio	49.0%
Pensio	1 Assets	-12/20 \$	473.7 mill <b>C</b>	<b>)blia</b> \$51	4.0 mill.	48.6%	2171 4	48.4%	52.1% 2643.6	44.0%	33.5%	35.5%	42.5%	42.9%	42.1%	39.5%	44.5%	Common Total Ca	1 Equity F	Ratio III)	51.0%
Pfd Sto	ck None					2789.6	2742.7	2990.3	3239.4	3259.1	4469.0	4541.4	4854.9	5503.2	6019.7	6425	6765	Net Plan	t (\$mill)	,	7725
Commo	n Stock	63,480,2	270 shs.			3.3%	5.5%	5.5%	6.1%	4.9%	4.0%	5.2%	5.0%	4.9%	5.0%	4.5%	5.0%	Return o	n Total C	ap'l	5.5%
as of 7/	31/21					3.3%	7.1%	8.9% 8.9%	9.4% 9.4%	8.8%	8.7%	10.9%	8.8%	9.1%	9.1%	9.0%	9.0%	Return o	n Snr. Eq on Com E	uity auity E	9.0% 9.0%
MARKE	T CAP:	\$4.0 billi	on (Mid C	Cap)		NMF	1.8%	3.7%	4.3%	3.8%	3.3%	5.3%	3.9%	3.8%	3.8%	3.5%	3.5%	Retained	to Com	Eq	4.0%
ELECT	RIC OPE	RATING	STATIST 2018	ICS 2019	2020	NMF	75%	58%	54%	57%	62%	52%	55%	58%	58%	59%	59%	All Div'd	s to Net F	Prof	59%
% Change I	Retail Sales (I	(WH)	+2.7	+2.1	7	BUSIN Hills F	ESS: Bla	ck Hills ( hich serv	Corporations 214 0	on is a h 00 electr	olding co ic. custon	mpany fo ners in C	or Black	rev. bre General	akdown:	res'l, 31	%; comn	n'l, 34%; other 1	ind'l, 18 2%: pur	%; othe	r, 17%. 6 Euel
Avg. Indust.	Revs. per Kl	VH (¢)	7.41	7.38	7.31	WY an	d MT, an	d 1.1 mil	lion gas o	customer	s in NE,	IA, KS, C	O, WY,	costs: 2	9% of re	evs. '20 c	leprec. ra	ate: 3.2%	. Has 3,	000 em	loyees.
Peak Load,	Summer (Mw	i)	1104	1022	1050	and AH. Has coal mining sub. Acq'd Cheyenne Light 1/05; utility ops. from Aquila 7/08; SourceGas 2/16. Discont. telecom in '05; oil									an: David 7001 Mol	I R. Emer unt Rushr	ry. Pres. more Rd.	& CEO: I ., P.O. B	Jnn Evar ox 1400,	ns. Inc.: Rapid (	SD. Ad- City, SD
% Change (	Customers (yr	-end)	+.8	+1.1	+.9	marketing in '06; gas marketing in '11; gas & oil E&P in '17. Electric									400. Tel	.: 605-72	1-1700. l	nternet: w	vww.blac	khillscor	p.com.
Fixed Charg	je Cov. (%)		276	278	285	Blac	ek Hil	ls ha	s bec	ome	more	activ	e in	Desp	pite	some	ch	allen	ging	fact	ors,
ANNUA		S Past	Pas	st Est'd	1 '18-'20	utili	tv has	s read	<b>y are</b> hed a	e <b>na t</b> settl	<b>nıs y</b> lemen	t in (	Colo-	in 20	ings 021 a	snou nd 20	10 ao 122. A	cold	e res	in Fe	abiy ebru-
Revenu		-1.0	. 511 1%	5. IU 	.5%	rado	(subj	ect to	appro	val b	y the	state	com-	ary ł	urt t	he bot	tom 1	ine by	\$0.1	5 a s	hare,
Earning	-low″ Js	4.5 10.0	% 3. % 5.	5% 0%	4.5% 5.0%	mission) that will raise gas rates by \$6.5 million at the start of 2022, based on a									ugh s	ome o t perio	f this	is bei	ng re	cover	ed in
Book V	ds alue	3.5 3.5	% 5. % 5.	5% 5%	5.5% 5.0%	9.2%	reti	arn (	on eq	uity	and	a 50	ty will result in higher average shares out-								
Cal-	QUAR	TERLY RE	EVENUES (	\$ mill.)	Full	comi	non-e	quity	ratio.	In Io	owa, t	the ut	tility	stand	tanding each year. In 2022, a reduction in						
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	lion,	base	a gas d on a	a 10.1	111Cre 15% F	ase of a ROE a	nd a	50%	powe	r con	tract	will	be ar	i a p nother	neg	ative
2018	575.4 597.8	355.7 333.9	322.0 325.5	501.2 477.7	1734.9	comí	non-e	quity	ratio.	An i	nterir	n hike	e (of	facto	r. Ev	en so	, rate	e relie	ef and	dhea	althy
2020	537.0	326.9	346.6	486.4	1696.9	June	undise	closed Kans	amo as B	unt) lack	took Hills	effect	t in for	grow	th at Our S	the ut 2021	and f	5 point 2022	; to hi share	gher -net	prot- esti-
2021	533.4 595	372.0 375	359 360	510 520	1850	\$5.3	millio	on, ba	sed of	n a 1	0.15%	ROE	and	mate	s are	at th	e mid	lpoint	of B	lack	Hills'
Cal-	EA	RNINGS F	PER SHAR	E A	Full	a 5	0.3%	com	non-ec	uity	ratio	. Bes	sides	guida	ance o	of \$3.	80-\$4	.00 ai	nd \$3	.95-\$	4.15,
endar 2010	Mar.31	Jun.30	Sep.30	Dec.31	Year	five-	er rai year	regula	tory	mech	anism	$\frac{1}{10}$ in 1	lowa	We	exped	et a	divid	end	incre	ease	this
2018	1.73	.45	.32 .44	1.13	3.47	(and	a re	newal	of th	is, in	Kans	sas) te	o re-	quar	ter.	In rec	ent y	ears,	the k	ooard	has
2020	1.59 1.54	.33 ⊿∩	.58	1.23	3.73 3 an	cove tarif	r saf fs in∃	ety-io lowa a	used and K	expe ansas	shou	res. Id tak	e ef-	\$0.0	raisi 3 a sh	ng th hare. \$	e qua and w	arterly ve thi	nk th	is pa	itern
2022	1.65	.40 .45	.65	1.30	4.05	fect	in the	first	quarte	er of 2	2022.			will	contin	ue. B	lack 1	Hills'	goal i	s at	least
Cal-	QUAR	FERLY DIV	IDENDS P	AID <sup>B</sup> =	Full	Uth The	er rat	e app		to fi	are u	pcom	ing.	5% a Thie	nnual	divid	end g	rowth	throu	igh 20 divid	)25. Iend
endar 2017	Mar.31	Jun.30	Sep.30	Uec.31	1 01	Arka	insas	by ye	arend	and	an ele	ctric	peti-	i- yield that is about average for a utili-							
2018	.445	.445	.445	.505	1.93	tion	in W	yomir	g in	mid-2	022.	When	the	ty. T	otal 1	return	pote	ntial	is lov	v for	the
2019	.505	.505	.505	.535	2.05 2.17	occu	r is u	ne ar hknow	n. Bla	ack H	ills' la	st ele	ctric	c 5-year period.							
2021	.565	.565	.565		<u> </u>	case	in tha	at stat	e did	not g	o well			Paul	E. De	ebbas,	CFA	(	Octobe	er 22,	2021
(A) Dil. E (\$1.55);	PS. Exc 09, (28¢	l. nonrec ); '10, 1	gains (le 0¢; '15, (	osses): '0 \$3.54); '1	08, 23¢; 6, don'	'12, (16)	¢); '17, (3 e to roun	81¢); '18, ding. Nex	(12¢). '1 t egs. du	9 EPS e early	chgs. In base: Ne	'20: \$24 t orig. co	.49/sh. (I	D) In mil all'd on o	l. <b>(E)</b> Ra com. eq.	in Sto	npany's ck's Pric	Financia e Stabili	l Strengt	th	A 85

(\$1.26); '17, 14¢; '18, \$1.31; '19, (25¢; '20, Nov. (B) Div'ds pd. early Mar., Jun., Sept., & SD in '15: none; in CO in '17: 9.37%; earn. on (8¢); discontinued ops.' '08, \$4.12; '09, 7¢; '11, Dec. = Div'd reinv. plan avail. (C) Incl. def'd avg. com. eq., '20: 9.5%. Regul. Climate: Avg. © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

## Cause No. 45621

CM	S EN	IER(	GY C	ORF	) I NYS	E-CMS	R P	ecent Rice	61.1	3 P/E RATIO	o <b>23</b> .	9 (Traili Media	ng: 22.4) an: 19.0)	RELATIVI P/E RATI	<b>5</b> 1.3	2 DIV'D YLD	2.9	% Y		<b>e</b> 3	of 9
TIMELI	IESS 3	Raised 4	/30/21	High: Low:	19.3 14.1	22.4 17.0	25.0 21.1	30.0 24.6	36.9 26.0	38.7 31.2	46.3 35.0	50.8 41.1	53.8 40.5	65.3 48.0	69.2 46.0	65.8 53.2			Target	Price	Range
SAFET	2	Raised 3	/21/14	LEGE	NDS 70 x Divide	ends p sh		_											2024	2025	160
TECHN	CAL C	Lowered	12/10/21	div Re	vided by In elative Price	terest Rate e Strength															120
18-Moi	th Targ	et Price	Range	Shaded	area indica	ates recess	sion														100
Low-Hi	jh Mid	point (%	to Mid)											սորդեր	III I I I I I I I I I I I I I I I I I	1,1 <sup>11</sup> 11 <sup>1</sup> 11					60
\$53-\$82	\$68	(10%)								سار را	all lines		mu								40
202	4-26 PR		DNS nn'l Total					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,		[										- 30
High	70 (-	Gain ⊦15%)	Return		ارى مەلىرىپ						•••••		<u> </u>		•• <sup>•</sup> •••••						20
Institu	tional E	-20%) Decisio	-1% ns	111111111111		•••••	••••	•••••••••		·····		,	******	P. * 0 *				% тот.		N 10/21	- 15
to Buy	102021 268	202021 293	302021 261	Percen	t 30					1.1.								1 yr.	тоск -2.0	INDEX 55.5	-
to Sell Hid's(000)	262 259761	245 263668	244 270396	traded	10 -							nhhnilt				n III III		3 yr. 5 yr.	31.4 64.0	64.6 104.1	F
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALU	E LINE PL	JB. LLC	24-26
28.52 3.43	30.57 3.22	28.95 3.08	30.13	27.23	25.77 3.70	25.59 3.65	23.90	24.68 4.06	26.09 4.22	23.29 4.59	22.92 4.88	23.37	24.25	24.11	6.24	25.05	25.70 6.90	Revenue:	s per sh ow" per s	sh	27.75 8.25
1.10	.64	.64	1.23	.93	1.33	1.45	1.53	1.66	1.74	1.89	1.98	2.17	2.32	2.39	2.64	2.65	2.85	Earnings	per sh 4		3.50
2.69	3.01	.20 5.61	.36	.50	.66 3.29	.84 3.47	.96 4.65	1.02 4.98	1.08 5.73	1.16 5.64	1.24 5.99	1.33	1.43	1.53	1.63	1.74 8.65	1.80	Div'd Dec Cap'l Spe	ndina per sl	h¤∎ ersh	2.10
10.53	10.03	9.46	10.88	11.42	11.19	11.92	12.09	12.98	13.34	14.21	15.23	15.77	16.78	17.68	19.02	22.05	23.15	Book Val	ue per sh	С	27.75
220.50	0         222.76         225.15         226.41         221.89         249.00         254.10         264.10         266.10         27.20         27/.16         29.21         281.65         283.37           6         22.2         26.8         10.9         13.6         12.5         13.6         15.1         16.3         17.3         18.3         20.9         21.3         20.3           7         1.20         1.42         .66         .91         .80         .85         .96         .92         .91         .92         1.10         1.07         1.10           -         -         1.2%         2.7%         4.0%         4.3%         4.2%         3.8%         3.6%         3.4%         3.0%         2.9%         3.0%           TAL STRUCTURE as of 9/30/21         6503.0         6503.0         6506.0         7179.0         6456.0         6583.0         6873.0														288.94	289.70 Bold fig	289.70	Common	Shs Out	st'g D	295.00
.67	22.2         26.8         10.9         13.6         12.5         13.6         15.1         16.3         17.3         18.3         20.9         21.3         20.3           7         1.20         1.42         .66         .91         .80         .85         .96         .92         .91         .92         1.10         1.07         1.10           -         1.2%         2.7%         4.0%         4.0%         4.2%         3.8%         3.6%         3.4%         3.0%         2.9%         3.0%           rAL STRUCTURE as of 9/30/21         650.0         6312.0         6566.0         7179.0         6456.0         6583.0         6873.0         384.0         413.0         454.0         479.0         525.0         553.0         610.0         659.0           b1 \$1265 mill         L1 Interest \$479 mill         .90 for 0.00         20.90         21.3         20.90         555.0         610.0         659.0														1.21	Value	Line	Relative I	P/E Ratio		.95
	22.2         26.8         10.9         13.6         12.5         13.6         15.1         16.3         17.3         18.3         20.9         21.3         20.3           1.20         1.42         .66         .91         .80         .85         .96         .92         .91         .92         1.10         1.07         1.10           -         1.2%         2.7%         4.0%         4.0%         4.2%         3.8%         3.6%         3.4%         3.0%         2.9%         3.0%           . STRUCTURE as of 9/30/21         6503.0         6312.0         6566.0         7179.0         6456.0         6399.0         6583.0         6873.0           \$\$12075 mill.         LT Interest \$479 mill.         384.0         413.0         454.0         479.0         525.0         553.0         610.0         659.0           \$\$12075 mill.         LT Interest \$479 mill.         38.40         413.0         454.0         479.0         34.0%         33.1%         31.2%         14.9%           mill. finance leases.         2.6%         2.9%         2.0%         2.7%         31.4%         114.9%         14.4%														2.6%	estin	ates	Avg Ann'	l Div'd Yi	eld	3.5%
CAPITA Total D	L STRU bt \$126	CTURE a 60 mill. <b>E</b>	as of 9/30 Due in 5 \	1/21 Yrs NA		6503.0 384.0	6312.0	6566.0 454.0	7179.0 479.0	6456.0 525.0	6399.0 553.0	6583.0	6873.0	6845.0 682.0	6680.0	7250	7450	Revenue:	s (\$mill) (\$mill)		8200 1050
LT Deb	69         3.01         5.61         3.50         3.59         3.29         3.47         4.65         4.98         5.73         5.64         5.99         5.99           .53         10.03         9.46         10.88         11.42         11.19         11.92         12.09         12.98         13.34         14.21         15.23         15.50           222.78         225.15         226.41         227.89         249.60         254.10         266.10         275.20         277.16         279.21         281           2.6         22.2         26.8         10.9         13.6         12.5         13.6         15.1         16.3         17.3         18.3         20.9         2           .67         1.20         1.42         .66         .91         .80         .85         .96         .92         .91         .92         1.10         1            1.2%         2.7%         4.0%         4.3%         4.2%         3.8%         3.6%         3.4%         3.0%         2.4%           Jbebt \$12660 mill.         LT Interest \$479 mill.         56.00         6312.0         6566.0         7179.0         6456.0         6399.0         6458.0         61.9%         2.6% </td <td>15.0%</td> <td>13.0%</td> <td>13.0%</td> <td>Income T</td> <td>ax Rate</td> <td></td> <td>13.0%</td>														15.0%	13.0%	13.0%	Income T	ax Rate		13.0%
(LT inte	rest earn	ed: 2.9x)				2.6%	2.9%	2.0%	2.3%	2.7%	3.1%	1.1%	1.4%	2.1%	1.1%	1.0%	2.0%	AFUDC %	to Net P	rofit	1.0%
Leases Pensio	, Uncapr 1 Assets	12/20 \$	nnual ren 3402 mill.	itals \$10 r	nill.	32.6%	31.6%	32.2%	31.0%	31.4%	32.6%	32.4%	30.7%	29.4%	28.6%	34.0%	34.5%	Common	Equity R	atio	34.5%
Pfd Sto	<b>ck</b> \$261	L2.0         L0.0         10.0         10.0         10.0         10.1         10.3         10.3         20.9         21.3         20.3           1.20         1.42         .66         .91         .80         .85         .96         .92         .91         .92         1.10         1.07         1.10            1.2%         2.7%         4.0%         4.0%         4.3%         4.2%         3.8%         3.6%         3.4%         3.0%         2.9%         3.0%           STRUCTURE as of 9/30/21         bt \$12666 mill.         Dt \$12666 mill.         0.43%         4.2%         3.8%         3.6%         3.4%         3.0%         2.9%         3.0%           \$12075 mill.         LT Interest \$479 mill.         6503.0         6312.0         6566.0         7179.0         6456.0         619.0         659.0           \$12075 mill.         LT Interest \$479 mill.         36.8%         39.4%         39.9%         34.3%         34.0%         31.2%         14.9%           Uncapitalized Annual rentals \$10 mill.         36.8%         67.9%         67.5%         68.7%         68.3%         67.1%         67.3%         69.0%           Assets-12/20 \$3402 mill.         Dblig \$3266 mill.         92.0															19375	Total Cap	ital (\$mil	I)	23600
Incl. 37	3,148 shs	1.2%         2.7%         4.0%         4.3%         4.2%         3.8%         3.6%         3.4%         3.0%         2.9%         3.0%           STRUCTURE as of 9/30/21         6503.0         6312.0         6566.0         7179.0         6456.0         6399.0         6583.0         6873.0           st 212660 mill. Due in 5 Yrs NA         384.0         413.0         454.0         479.0         525.0         553.0         610.0         659.0           st carned: 2.9x)         36.8%         39.4%         39.9%         34.3%         34.0%         33.1%         31.2%         14.9%           st carned: 2.9x)         Oblig \$3266 mill.         2.6%         2.9%         2.0%         2.3%         2.7%         3.1%         1.1%         1.4%           S2.6%         31.6%         32.2%         31.0%         31.4%         32.6%         32.4%         30.7%           S2.6%         31.6%         32.2%         31.0%         31.4%         32.6%         32.4%         30.7%           S2.6%         31.6%         32.2%         31.0%         31.4%         32.6%         32.4%         30.7%           S2.6%         31.6%         32.2%         31.0%         31.4%         32.6%															24250	Return or	(\$mill) Total Ca	l'ae	28000
Commo	n Stock	STRUCTURE as of 9/30/21 tt \$12660 mill. Due in 5 Yrs NA \$12075 mill. LT interest \$479 mill. mill. finance leases. set earned: 2.9x)         6503.0         6312.0         6566.0         7179.0         6456.0         6399.0         6578.0         6873.0           384.0         413.0         454.0         479.0         525.0         553.0         610.0         659.0           384.0         413.0         454.0         479.0         525.0         553.0         610.0         659.0           36.8%         39.9%         34.3%         34.0%         33.1%         31.2%         14.9%           Uncapitalized Annual rentals \$10 mill. Assets-12/20 \$3402 mill.         Oblig \$3266 mill. 9279.0         67.5%         68.7%         68.3%         67.1%         67.3%         69.0%           9279.0         10101         10730         11846         12534         13040         13692         15476           148 shs. \$4.50 \$100 par, cum., callable at 9,200,000 shs. 4.2%, \$25 par, cum.         5.3%         6.0%         5.7%         5.7%         5.8%         5.9%         5.6%           12.5%         12.8%         13.0%         13.2%         13.2%         13.8%         13.8%         13.8%         13.8%         13.8%         13.8%         13.8%         13.8%         13.8%         13.															12.0%	Return or	Shr. Eq	uity	12.5%
as of 10	)/11/21 T CAP:	36.8%       39.4%       39.9%       34.3%       34.0%       33.1%       31.2%       14.9%         111.       finil.       fini															12.5%	Return or Retained	to Com Ec	uity E	12.5%
ELECT	RIC OPE	Oblig \$3266 mill.         9279.0         10101         10730         11846         12534         13040         13892         15476           148 shs. \$4.50 \$100 par, cum., callable at 9,200,000 shs. 4.2%, \$25 par, cum.         9279.0         10101         10730         11846         12534         13040         13892         15476           148 shs. \$4.50 \$100 par, cum., callable at 9,200,000 shs. 4.2%, \$25 par, cum.         1633         11551         12246         13412         14705         15715         16761         18126           6.3%         5.9%         6.0%         5.7%         5.7%         5.8%         5.9%         5.6%           12.5%         12.8%         13.0%         12.9%         13.2%         12.9%         13.6%         13.8%           12.6%         12.9%         13.1%         13.0%         13.3%         13.0%         13.7%         13.8%           12.6%         5.6%         5.0%         5.2%         5.0%         5.2%         5.3%         62%         62%           IC OPERATING STATISTICS         2019         2020         2018         2019         2020         55%         61%         60%         62%         61%         63%         62%         62%         62%         62%         62%															63%	All Div'ds	to Net P	rof	60%
% Change	Retail Sales (	earned: 2.9x)       2.6%       2.9%       2.0%       2.3%       2.7%       3.1%       1.1%       1.4%         septablized Annual rentals \$10 mill.       66.9%       67.9%       67.5%       68.7%       68.3%       67.1%       67.3%       69.0%       7         Sets-12/20 \$3402 mill.       Oblig \$3266 mill.       32.6%       31.6%       32.2%       31.0%       31.4%       32.6%       32.4%       30.7%       2         \$261 mill.       Pfd Div'd \$11 mill.       18 shs. \$4.50 \$100 par, cum., callable at 200,000 shs. 4.2%, \$25 par, cum.       10633       11551       12246       13412       14705       15715       16761       18126       1         10633       11551       12246       13412       14705       15715       16761       18126       1         2AP: \$18 billion (Large Cap)       12.5%       13.0%       13.3%       13.0%       13.7%       13.8%       1         12.6%       12.9%       13.1%       13.0%       13.3%       13.0%       13.7%       13.8%       1         2018       2019       2020       55%       61%       60%       62%       61%       63%       62%       62%         Sper KWH(%       7.63       7.94       8.14															l, 23%; (	gas, 17%;	renewa	bles, 4	%; pur-
Avg. Indust Avg. Indust	Use (MWH) Revs. per Kl	9,200,000 shs. 4.2%, \$25 par, cum.       5.3%       5.9%       5.6%       5.9%       5.6%         Stock 289,697,389 shs.       12.5%       12.8%       13.0%       13.2%       12.9%       13.6%       13.8%         1/21       CAP: \$18 billion (Large Cap)       12.9%       13.1%       13.0%       13.3%       13.0%       13.7%       13.8%         CAP: \$18 billion (Large Cap)       5.6%       5.0%       5.2%       5.0%       5.2%       4.8%       5.2%       5.3%         Coperating statistics       2018       2019       2020       -3.7       -3.1       -3.1       61%       60%       62%       61%       62% <td>a gas, 9.8</td> <td>3% other.</td> <td>s. 20 re Has 8,10</td> <td>00 full-tir</td> <td>ne em-</td>															a gas, 9.8	3% other.	s. 20 re Has 8,10	00 full-tir	ne em-
Capacity at Peak Load,	Peak (MW) Summer (Mv	()	8084	8039	NA 8215	custom city. D	ers. Has iscontinu	1,234 m ed EnerE	egawatts Bank in ''	of nonre 21. Elect	gulated g tric rever	jenerating nue brea	g capa- kdown:	ployees Rochow	. Chairm	nan: Johr II. Addres	າ G. Rus s: One E	ssell. Pres Energy Pla	sident & za. Jack	CEO: son. MI	Garrick 49201.
% Change	DiFactor (%) Customers (y	-end)	NA +.3	NA +.9	NA +1.0	resider	itial, 48%	; comm	ercial, 33	3%; indu	strial, 13	3%; othe	er, 6%.	Tel.: 51	7-788-05	50. Interr	net: www.	.cmsenerg	y.com.		.02011
Fixed Charg	e Cov. (%)		250	235	240	CMS	S Ene	rgy h	as co	mple	ted tl	ne sal	le of	tariff	s tak	ing et	ffect a	at the	start	of 2	2022.
ANNUA	L RATE	S Past	Pa	st Est'd	'18-'20	solid	ly pro	fitabl	e, but	was	y. ine not a	e ban core l	k is busi-	tion	this n	nonth	and	its nex	t ele	e app ctric	peti-
Revenu	ies	-1.5	% % 6	5%	2.5%	ness	for a	com	pany	that	is pri	maril	y an	tion	in the	e first	quart	er of 2	2022.	Decis	sions
Earning	js de	7.5	% 7. % 7.	0%	6.0%	abou	it \$1 k	illion	in cas	sh, wh	ne sa nich w	ill ob	viate	We of	expec	t sol	id ea	arning	s gr	owth	s. i in
Book V	alue	5.0	% 7. % 5.	5%	7.5%	the	comp	any's	expe	ected	equi	ty n	eeds	2022	. Ĉon	nsume	rs En	nergy	shoul	d ber	nefit
Cal-	QUAR Mar 31	TERLY RE	VENUES (	\$ mill.) Dec 31	Full	book	a pr	etax g	ain of	5 \$660	) milli	ion on	the	end	of C	MS I	Energy	y's typ	bically	nai nai	rrow
2018	1953	1492	1599	1829	6873.0	sale	in the	e curr	ent qu	arter	, which	ch we	will	guida	ince o	of \$2.8	35-\$2.3	87 a s	hare.	Man	age-
2019	2059 1864	1445 1443	1546 1575	1795 1798	6845.0 6680.0	incoi	me fro	om dis	r earr	ued o	prese	ions.	n as This	is 6%	5 tar 5-8%.	get 10	r ann	iuar ea	rning	s gro	owun
2020	2013	1558	1725	1954	7250	busi	ness v	vas ex	pected	to co	ntrib	ute \$(	0.20-	We e	expec	t a d	ivide	nd in	creas	e in	the
2022	2100	1600 RNINCS	1750 FR SHAP	2000 F A	/450	φ0.22 this	incor	ne, ea	arning	nns ye s wil	ear, s l pro	bably	ap-	timin	<b>qua</b> ng of t	the bo	ard's	action	. How	vever,	the
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	prox	imate	the \$	2.64 ta	ally of	f 2020		-	hike	will a	almost	certa	inly be	e lowe	er tha	in in
2018	.86 75	.49	.59	.38	2.32	clud	rate led, a	nd t	e is wo m	abou ore a	ire u	pcom	ing.	longe	r yea	t of C	MS E	nergy.	the p	ayou	t ra-
2020	.85	.48	.76	.55	2.64	Cons	sumer	s Ene	rgy is	seek	ing ai	n incr	ease	tio is	s abov	ve the	comp	pany's	long-	term	tar-
2021	1.09 <b>.95</b>	.55 <b>.60</b>	.54 <b>.75</b>	.47 .55	2.65 2.85	ty of	10.5 f $10.5$	mon, % and	la co	mmor	retur i-equi	ty rat	equi- io of	This	stoc	k has	s a h	igh v	aluat	ion.	The
Cal-	QUAR	TERLY DIV	IDENDS P	AID B =	Full	52%	The	staff o	of the	Michi	gan co	ommis	ssion	divid	end y	vield i	sac	cut be	low t	he ut	tility
endar	Mar.31	Jun.30	Sep.30	Dec. 31	Year	an an	osea ROE	a nike of 9.7	÷ог\$ 7% ат	oom: nda	comn	base non-ec	u on juitv	next	1. 1 ne 18 m	equit onths.	y aoe With	the re	ana o ecent	ui 101 quota	tion
2017 2018	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													withi	n ou	ır 3-	to a	5-year	Targ	get I	Price
2019 $3825$ $3825$ $3825$ $3825$ $3825$ $1.53$ recommended a \$35 million increase, Range, total return po 2020 $4075$ $4075$ $4075$ $4075$ $1.63$ based on the same ROE and equity ratio this time frame.													potenti	ai is	10W	over					
2021 $435$ $435$ $435$ $435$ $435$ as the staff. A ruling is due soon, with new Paul E. I												E. De	ebbas,	CFA	Dec	embe	r 10,	2021			
(A) Dilute	A) Diluted EPS. Excl. nonrec. gains (losses): (40¢); '09, 8¢; '10, (8¢); '11, 1¢; '12, 3¢; '21, intang. In '20: \$9.18/sh. (D) In n 5. (\$1.61): '06. (\$1.08): '07. (\$1.26): '09. (7¢): 128c: 4Q '21. <i>\$1.70.</i> Next eqs. report due early base: Net orig. cost. Rate all'd (											) In mill. (	E) Rate	n Sto	npany's ck's Pric	Financial	Strengt	h	B++		
'10, 3¢; '	11, 12¢;	'12, (14¢	); '17, (53	B¢); gains	Feb.	(B) Div'o	ls histori	ally paid	late Feb.	, May,	21: 9.9%	elec.; in	'19: 9.9%	6 gas; ea	rn. on av	/g. Pric	e Growt	h Persist	ence		65

(c) coses) on discort ops: '05, 7¢; '06, 3¢; '07, Aug., & Nov. = Div'd reinv. plan avail. (C) Incl. com. eq., '20: 14.4%. Reg. Clim.: Above Avg. © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without waranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

## Cause No. 45621

<b>CO</b>	N. E	DISC	) N NY	SE-ED			R	ecent Rice	76.1	1 P/E Rati	o <b>17</b> .	3 (Traili Media	ng: 17.3 an: 17.0 <b>)</b>	RELATIVE P/E RATI	0.9	4 DIV'D YLD	4.2	%		<b>E</b> e 4	of 9
TIMELIN	iess 5	Lowered	7/16/21	High: Low:	51.0 41.5	62.7 48.6	66.0 53.6	64.0 54.2	68.9 52.2	72.3 56.9	81.9 63.5	89.7 72.1	84.9 71.1	95.0 73.3	95.1 62.0	80.4 65.6		-	Target	Price	Range
SAFET	′ 1	New 7/2	7/90	LEGEN	NDS 53 x Divide	ends p sh													2024	2025	320
TECHN	CAL 4	Lowered	11/12/21	div Re	vided by In elative Price	terest Rate e Strength															
18-Mor	th Targ	et Price	Range	Shaded	area indica	ates recess	ion														160
Low-Hig	gh Mid	point (%	to Mid)																		120
\$54-\$11	2 \$83	(10%)						$\langle$			1111-11		Timeter		<b>u</b>	սյուս շ					80
202	4-26 PR	OJECTI	DNS nn'l Total	•	ياس.				·	1,,T'u				$\sim$	-						60
High 1	Price 05 (-	Gain ⊦40%)	Return 12%	ייייייייייייייייייייי	•••••	••••	••••	····*,			•••••										40
Low Institu	85 (+ tional [	⊦10%) Decisio	7% ns	-				····	••••••••	••••••	•••	•••••••••••	••••	•••••	• •			% TO1		N 10/21	
to Buy	4Q2020	102021	2Q2021	Percen	t 21 -					1 1.	L 1.							1 yr.	STOCK 0.0	INDEX 55.5	= <sup>18</sup>
to Sell Hid's(000)	368 206575	425 208737	348 216551	traded	7													3 yr. 5 yr.	10.3 19.1	64.6 104.1	F
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VAL	JE LINE P	UB. LLC	24-26
47.66	47.14 5.28	48.23	49.62	46.36	45.69 6.24	44.17	41.62	42.27	44.11	42.85	39.59 7.89	38.82	38.44	37.80	35.78 9.48	38.15 1010	38.90	Revenue "Cash F	es per sh low" per s	sh	42.00 11 75
2.99	2.95	3.48	3.36	3.14	3.47	3.57	3.86	3.93	3.62	4.05	3.94	4.10	4.55	4.08	3.94	4.50	4.50	Earning	s per sh	A	5.00
2.28	2.30	2.32	2.34	2.36	2.38	2.40	2.42	2.46	2.52	2.60	2.68	2.76	2.86	2.96	3.06	3.10	3.20	Div'd De Can'l Sn	cl'd per s	h <sup>B</sup> ∎ ersh	3.50
29.80	31.09	32.58	35.43	36.46	37.93	39.05	40.53	41.81	42.94	44.55	46.88	49.74	52.11	54.18	55.06	56.60	58.15	Book Va	lue per si	h C	63.25
245.29         257.46         272.02         273.72         281.12         291.62         292.87         292.87         292.88         293.00         305.00         310.00         320.96         332.63         342.30         354.00         360.00         Common Shs Outst           15.1         15.5         13.8         12.3         12.5         13.3         15.1         15.4         14.7         15.9         15.6         18.8         19.8         17.1         21.1         20.1         Bold figures are Value Line estimates         Avg Ann'l P/E Ratio           5.0%         5.0%         4.8%         5.7%         6.0%         5.2%         4.5%         4.1%         4.3%         4.4%         4.1%         3.6%         3.4%         3.7%         3.4%         3.9%         Avg Ann'l Div'd Yiel           CAPITAL STRUCTURE as of 6/30/21         12938         12188         12381         12919         12554         12075         12033         1237         12246         13500         14000         Revenues (\$mill)															tst'g <sup>D</sup>	370.00					
.80	15.1         15.5         13.8         12.3         12.5         13.3         15.1         15.4         14.7         15.9         15.6         18.8         19.8         17.1         21.1         20.1         Bold figures are Value         Avg Ann'l P/E Ratio Relative P/E Ratio           3.0         .84         .73         .74         .83         .85         .95         .98         .83         .84         .79         .99         1.00         .92         1.12         1.03         Value         Value <t< td=""><td>)</td><td>18.0</td></t<>															)	18.0				
5.0%	15.1       15.5       13.8       12.3       12.5       13.3       15.1       15.4       14.7       15.9       15.6       18.8       19.8       17.1       21.1       20.1       Bold figures are Value Line estimates       Avg Ann'l P/E Ratio Relative P/E Ratio         .80       .84       .73       .74       .83       .85       .95       .98       .83       .84       .79       .99       1.00       .92       1.12       1.03       Bold figures are Value Line estimates       Avg Ann'l P/E Ratio         5.0%       5.0%       4.8%       5.7%       6.0%       5.2%       4.5%       4.1%       4.3%       4.4%       4.1%       3.6%       3.4%       3.7%       3.4%       3.9%       P/E Ratio         Avg Ann'l P/E Ratio         Avg Ann'l Div'd Yield         CAPITAL STRUCTURE as of 6/30/21       12938       12188       12381       12919       12554       12075       12033       12337       12574       12246       13500       14000       Revenues (\$mill)         Total Debt \$24065 mill. Lt Interest \$867 mill.       162.0       1141.0       1157.0       1066.0       1193.0       1266.0       1424.0       1343.0       1324.0       1565       1605															3.7%					
.80         .84         .73         .74         .83         .85         .95         .98         .83         .84         .79         .99         1.00         .92         1.12         1.03         Value/Line estimates         Relative P/E Rational controls           5.0%         5.0%         4.8%         5.7%         6.0%         5.2%         4.5%         4.1%         4.3%         4.4%         4.1%         3.6%         3.4%         3.7%         3.4%         3.9%         estimates         Avg Ann'l Div'd Y           CAPITAL STRUCTURE as of 6/30/21         12938         12188         12381         12919         12554         12075         12033         12337         12574         12246         13500         14000         Revenues (\$mill)           Total Debt \$24065 mill.         LT Interest \$867 mill.         1062.0         1141.0         1157.0         1066.0         1193.0         1286.0         1424.0         1343.0         1324.0         1565         1605         Net Profit (\$mill)           (LT interest earned: 2.7x)         34.5%         31.8%         34.0%         33.6%         35.3%         36.6%         20.1%         17.1%         12.0%         16.0%         AFUDC \$to Net           (LT interest earned: 2.7x)         1.6%																15500					
LT Deb	\$21666	mill.	T Interes	st \$867 m	ill.	36.1%	34.5%	20.1%	1343.0	1324.0	1565	16.0%	Income	Tax Rate		1880					
(LT inte	TAL STRUCTURE as of 6/30/21         12938         12188         12381         12919         12554         12075         12033         12337         12           Debt \$24065 mill.         Due in 5 Yrs \$5988 mill.         1062.0         1141.0         1157.0         1066.0         1193.0         1189.0         1266.0         1424.0         134           bt \$21666 mill.         LT Interest \$867 mill.         36.1%         34.5%         31.8%         34.0%         33.6%         35.3%         36.6%         20.1%         17           ise, Uncapitalized Annual rentals \$79 mill.         46.5%         45.9%         46.1%         48.0%         47.9%         50.8%         48.9%         49           52.5%         54.1%         53.9%         52.0%         52.1%         49.2%         51.1%         48.9%         49															2.0%	2.0%	AFUDC	% to Net F	Profit	2.0%
Leases	bbt \$24065 mill.         Due in 5 Yrs \$5988 mill.         1062.0         1141.0         1157.0         1066.0         1193.0         1266.0         1424.0         1343.0           t \$21666 mill.         LT Interest \$867 mill.         36.1%         34.5%         31.8%         34.0%         33.6%         35.3%         36.6%         20.1%         17.1%           , Uncapitalized Annual rentals \$79 mill.         46.5%         45.9%         46.1%         48.0%         47.9%         50.8%         48.9%         51.1%         50.7%           states 12/20 \$17022 mill.         0blig \$18965 mill.         21794         21933         22735         24207         25058         29033         30149         34221         36549           oblig \$18965 mill.         25093         26939         28436         29827         32209         35216         37600         41749         43889															52.5% 47.5%	51.5%	Long-Te	rm Debt F D Fauity F	Ratio Ratio	51.5% 48.5%
Pensio	Construction         Construction<															pital (\$mi	II)	48100			
Pfd Sto	Stock None         36.1%         34.5%         31.8%         34.0%         33.6%         35.3%         36.6%         20.1%         17.1%         12.0%         16.0%         16.0%         16.0%         16.0%         16.0%         2.0%         2.3%         2.0%															Net Plan	t (\$mill)	an'l	56900		
Commo	1.6%         .5%         .5%         .3%         .7%         1.3%         1.5%         2.0%         2.3%         2.0%         A         AFU           ases, Uncapitalized Annual rentals \$79 mill.         46.5%         45.9%         46.1%         48.0%         47.9%         50.8%         48.9%         51.1%         50.7%         52.0%         52.5%         51.5%         Long           unsion Assets-12/20 \$17022 mill.         52.5%         54.1%         53.9%         52.0%         52.1%         49.2%         51.1%         48.9%         48.0%         47.5%         48.5%         Com           25093         26939         28436         29827         32209         35216         37600         41749         43889         46555         48600         50.6%         Net           50mmon Stock 353,381,808 shs.         9.1%         9.6%         9.4%         8.5%         9.1%         8.3%         8.2%         8.5%         7.5%         7.0%         8.0%         7.5%         Retu           9.2%         9.6%         9.4%         8.5%         9.1%         8.3%         8.2%         8.5%         7.5%         7.0%         8.0%         7.5%         Retu															Return o	n Total C n Shr. Eq	uity	5.0% 8.0%		
as of 7/	snsion Assets-12/20 \$17022 mill.         52.5%         54.1%         53.9%         52.0%         52.1%         49.2%         51.1%         48.9%         49.3%         48.0%         47.5%         48.5%         Common           oblig \$18965 mill.         21794         21933         22735         24207         25058         29033         30149         34221         36549         39229         42325         43200         Total Cap           25093         26939         28436         29827         32209         35216         37600         41749         43889         46555         48600         50675         Net Plant           6.2%         6.5%         6.4%         5.6%         6.0%         5.3%         5.4%         5.3%         4.9%         4.5%         5.0%         Return or           s of 7/31/21         9.1%         9.6%         9.4%         8.5%         9.1%         8.3%         8.2%         8.5%         7.5%         7.0%         8.0%         7.5%         Return or           ARKET CAP: \$27 billion (Large Cap)         3.1%         3.6%         3.6%         3.5%         3.0%         3.0%         3.0%         3.0%         3.0%         2.3%         1.9%         2.3%         2.0%         Retained															n Com E	quity E	8.0%			
ELECT	Oblig \$18965 mill.         21734         21933         24207         2000         29033         30149         34221         30549         39229         42325         43200         Iotal Capital (\$mill)           fd Stock None         25093         26939         28436         29827         32209         35216         37600         41749         43889         46555         48600         50675         Net Plant (\$mill)           common Stock 353,381,808 shs.         6.2%         6.5%         6.4%         5.6%         6.0%         5.3%         5.4%         5.3%         4.9%         4.5%         5.0%         Return on Total Capital (\$mill)           sof 7/31/21         9.1%         9.6%         9.4%         8.5%         9.1%         8.3%         8.2%         8.5%         7.5%         7.0%         8.0%         7.5%         Return on Sonc Com Equity         9.2%         9.6%         9.4%         8.5%         9.1%         8.3%         8.2%         8.5%         7.5%         7.0%         8.0%         7.5%         Return on Com Equity         9.2%         9.6%         9.4%         8.5%         9.1%         8.3%         8.2%         8.5%         7.5%         7.0%         8.0%         7.5%         Return on Com Equity         9.2%         <															Eq Prof	2.5% 67%				
% Channe I	Retail Sales (	KWH)	2018	2019	2020	BUSIN	ESS: Co	onsolidate	d Edisor	n, Inc. is	a holdir	ng comp	any for	portuniti	es throu	gh three	wholly c	owned su	ubsidiarie	s. Enter	ed into
Avg. Indust.	Use (MWH) Bevs per K)	NH (e)	NĂ	NĂ	NA	Consol	idated Ec	dison Cor	npany of	New Yor	k, Inc. (C	ECONY)	, which	midstrea	am gas j ar Fuel c	oint vent	ure 6/16;	sold it i	7/21. Pur	chases	most of
Capacity at Peak Load	Peak (Mw) Summer (Mv	/)	NA 14156	NA 13835	NA 13170	Westch	iester Co	ounty. A	so owns	Orange	and R	ockland	Utilities	3.2%-3.	5%. Has	14,100 e	empls. Ch	nairman:	John Mc/	Avoy. Pr	esident
Annual Loa % Change (	d Factor (%) Sustomers (vi	r-end)	NMF	NMF	NMF	(O&R), electric	which op , 1.2 mil	perates i I. gas cu	n New Yo Istomers.	ork and N Pursues	New Jers compet	ey. Has : itive ene	3.7 mill. rgy op-	& CEO: York, N	Timothy Y 10003.	Cawley Tel.: 212	. Inc.: N 2-460-460	Y. Addre )0. Intern	ss: 4 Irv et: www.	ing Plac	e, New n.com.
Fixed Charr		(ind)	306	267	257	Con	solida	ated	Edise	on's	earni	ngs	will	seeki	ng ele	ectric	and g	as inc	rease	s of \$	327.8
ANNUA		S Past	Pa	st Est'd	'18-'20	prob	ably	adv	ance	sig	nifica	intly	in	millio	n ai	nd \$8	8.6 n	nillion	, res	specti	vely.
of change Revenu	e (per sh) Jes	10 Yrs -2.5	. 5Yr % -3.	rs. to 0%	<b>24-'26</b> 2.0%	marl	set ch	comp	arisor	an a	isy, as iccoun	ting	item	turn	on ec	a its juity a	appilo and a	50%	on a comm	9.5% 000-e0	o re-
"Cash Earning	Flow"	4.5	% 4. % 1.	0% 5%	4.0% 3.0%	asso	ciated	with	renev	vable	energ	y red	uced	ratio.	New	tarif	ffs wi	ll tak	e effe	ect at	the
Divider Book V	ds alue	2.5 4.0	% 3. % 4.	0% 5%	3.0% 2.5%	snar   On	e net the d	by 50 other	hand hand	a 50. . the	se tw	spectr 70 fac	ctors	We e	01 202 estim	22. ate fl	lat sh	are o	earni	ngs i	ıext
Cal-	QUAR	TERLY RE	EVENUES (	\$ mill.)	Full	boos	ted pr	ofits b	y \$0.1	19 a s	hare i	n the	first	year	. The	comp	any v	vill be	enefit	from	the
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	clud	nonth ed fro	sor2 omm	anage	ement	's def	inition	s <i>ex-</i> 1 of	CEC	pna ONY	and i	i the rate r	elief	at $O\delta$	&R. I	How-
2018	3364 3514	2696 2744	3328 3365	2949 2951	12337	oper	ating	earnii	ngs.) A	Aside	from t	this fa	vor-	ever,	the co	ompar	rison v	will be	e toug	h bec	ause
2020	3234	2719	3333	2960	12246	able subs	swing idiary	g, the	comj solidat	pany's ted E	large	est ut Comp	anv	we a avera	ıssum ıge sh	e no ares (	accou outsta	inting	inco will	me. ⊿ be hi	Also, gher
2021	3800	3100	3750	3350	14000	of N	ew Yo	rk, re	ceived	l the	second	l phas	se of	due t	o equ	ity iss	uance	es.			
Cal-	EA Mor 21	RNINGS I	PER SHAR	E A Dag 21	Full	a thi   The	ree-ye renew	ar rat vable-	e hike	e at th 7 busi	ie sta: nesse:	rt of 2 s are	2021. ben-	Our char	earn ges s	lings temn	pres	entat from	the	exclu exit	ides of a
2018	1.37	.60	1.52	1.06	4.55	efiti	ng as i	they a	idd pr	ojects				gas	pipel	ine j	oint	vent	ire. [	Гhe_́а	asset
2019	1.31	.46	1.42	.88	4.08	The   proy	New zed a	Yorl	s Sta emen	te co t resc	mmis	sion mat	ap- ters	sale : had t	raised	te dov	) milli wn th	on. H e valı	oweve	er, Co its in	nEd vest-
2020	1.12	.57 .56	1.47 1.55	.78 .81	3.94 <b>4.50</b>	rela	ted t	o sei	vice	disru	ptio	is in	re-	ment	. This	s amo	unted	to c	harge	s tota	aling
2022	1.45	.60	1.60	.85	4.50	cent	total	rs. Th \$82	le cost	t to C	onEd	s util	ities 35 9	\$147	millio	on (\$0 2021	.43 a	share	) in th	ne firs	st six
Cal- endar	QUAR Mar.31	Jun 30	Sep.30	AIU <sup>B</sup> ■ Dec.31	Full Year	milli	on th	at ha	as alr	ready	been	incui	rred.	This	high	1-qua	lity s	stock	is v	intim	ely,
2017	.69	.69	.69	.69	2.76	The	utiliti	es wi	ll forg	o som	e rev	enues	and	but	has	an a	bove	-aver	age (	divid	end
2018	.715 74	.715 74	.715 74	.715 74	2.86	resu	lt of th	he agr	eemei	nt.	uing .	years	as d	retur	n pot	ential	is de	ecent	for th	e nex	t 18
2020	.765	.765	.765	.765	3.06	Ora	nge a	ind R	lockla rate	and is	s awa	uting	an is	mont	hs an $E D_{2}$	d the	$\frac{3-\text{ to }}{CFA}$	5-year	perio	od. r 19	2091
(A) Dilute	.//5 ed FPS	.//5 Excl_no	.//5 nrec naii	ns (losse	s): roun	dina No	xt earnin		t due mi	d-Feh	(D) In mi		te hase.	net orig	cost Ra	te Cor	npanv's	Financia	Strengt	, 1∠, th	A+
'13, (320 (13¢): '20	c); '14, (66¢);	9¢; 16,	15¢; 17	, 84¢; '1	8, <b>(B)</b>	Div'ds hi	storically	paid in i	mid-Mar.,	June,	allowed o	n com. e	q. for CE	CONY in	20: 8.8°	%; Sto	ck's Pric	e Stabili h Persis	ty		90 40

(13e); '20, (66¢); '21, (43e); gain on disc. operations: '08, \$1.01. '19 EPS don't sum due to avail. (C) Incl. intrangibles. In '20: \$24.50/sh. |'20: 7.1%. Regulatory Climate: Below Average. 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.



#### Cause No. 45621

EVE	RS	OUR	CE E	ENEF	RGY	NYSE	ES P	ecent Rice	84.7	5 P/E RATI	o <b>22</b> .	<b>8</b> (Traili Medi	ng: 24.7) an: 19.0)	RELATIV P/E RATI	<b>1.2</b>	3 DIV'D YLD	3.0	)% V		E e 5	of 9
TIMELIN	IESS 5	Lowered	10/8/21	High: Low:	32.2 24.7	36.5 30.0	40.9 33.5	45.7 38.6	56.7 41.3	56.8 44.6	60.4 50.0	66.1 54.1	70.5 52.8	86.6 63.1	99.4 60.7	92.7 76.6		1	Target 2024	Price	Range 12026
		Raised 5	/22/15	LEGEN 0.8	NDS 80 x Divide vided by In	ends p sh terest Rate	,														200
BETA .9	0 (1.00 =	= Market)	11/12/21	Options:	elative Price Yes area indica	e Strength	sion														-160
18-Mor	th Targ	et Price	Range			100 10003									ال <sub>الالا</sub> رال	יויייון	~~				100
\$62-\$15	0 \$10	6 (25%)	to wia)					$\sim$		ų					1"						- <u>60</u>
202	4-26 PR	OJECTIO						II,II	հուսել,						•						40
l High 1	Price 00 (-	Gain +20%)	Return 7%	ملاشن ال			•••••			•	·····			•••••							-30
Low Institu	85 tional [	(Nil) Decisio	3% ns	1					*******				···			***•		% тот		N 10/21	-20
to Buy	402020 387	1 <b>Q2021</b> 331	202021 360	Percen	t 30 -													1 yr.	STOCK 0.1	INDEX 55.5	F
to Sell Hid's(000)	293 263115	369 266387	326 266114	traded	10					uuliu								3 yr. 5 yr.	46.0 79.0	64.6 104.1	-
<b>2005</b> 41.85	44.64	37.27	37.22	30.97	2010	2011 25.21	19.98	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	Revenue	JE LINE P s per sh	UB. LLC	24-26 31.25
5.46	3.69	4.82	6.16	4.96	5.68	4.88	4.03	5.22	4.56	4.94	5.46	5.84	6.64	6.65	6.89	7.20	7.90	"Cash F	low" per	sh	9.00
.98 .68	.82 .73	1.59	1.86	1.91	2.10	1.10	1.89	2.49	2.58 1.57	2.76 1.67	2.96	3.11	2.02	2.14	3.55 2.27	3.50 2.41	4.05 2.56	Earnings Div'd De	s per sn 4 cl'd per s	h₿∎	5.00 3.05
5.89 18.46	5.49 18.14	7.14	8.06	5.17	5.41	6.08 22.65	4.69	4.62	5.06	5.44	6.24	7.41	7.96	8.83	8.58 41.01	10.25 42 30	10.20 44.15	Cap'l Sp Book Va	ending po	ersh	8.50 50.25
131.59	154.23	156.22	155.83	175.62	176.45	177.16	314.05	315.27	316.98	317.19	316.89	316.89	316.89	329.88	342.95	344.00	347.00	Common	n Shs Out	sťg <sup>D</sup>	357.00
19.8 1.05	27.1 1.46	18.7	13.7	12.0	13.4 .85	15.4 .97	19.9 1.27	16.9 .95	17.9 .94	18.1 .91	18.7 .98	19.5	18.7	22.1	24.3 1.24	Bold fig Value	ures are Line	Avg Ann Relative	'I P/E Rat P/E Ratic	io	18.5 1.05
3.5%	3.3%         2.6%         3.2%         4.2%         3.6%         3.2%         3.5%         3.5%         3.4%         3.3%         3.2%         3.1%         3.3%           AL STRUCTURE as of 6/30/21         4465.7         6273.8         7301.2         7741.9         7954.8         7639.1         7752.0         8448.2           Debt \$19172 mill. Due in 5 Yrs \$8382.1 mill.         400.3         533.0         793.7         827.1         886.0         949.8         995.5         1040.5           t\$16327 mill. LT Interest \$597.2 mill.         29.9%         34.0%         35.0%         36.2%         37.9%         36.8%         21.7%           s, Uncapitalized Annual rentals \$11.4 mill.         86%         2.3%         1.4%         2.4%         2.9%         3.9%         4.7%         6.1%															estin	ates	Avg Ann	'l Div'd Y	ield	3.3%
CAPITA Total De	Constr         Low         Constr         Const         Const         Const															9800 1220	10000	Revenue	es (\$mill) it (\$mill)		11000 1760
LT Debt (LT inter	\$16327 rest earn	mill. LT ed: 3.9x)	Interest	\$597.2 mi	ill.	29.9%	34.0%	35.0%	36.2%	37.9%	36.9%	36.8%	21.7%	19.7%	22.2%	20.0%	20.0%	Income 1	fax Rate		20.0%
Leases	Uncapi Assets	talized Á	nnual ren 5409.2 mi	ntals \$11.4 ill.	4 mill.	8.6% 53.4%	43.7%	1.4%	2.4% 45.9%	45.6%	3.9% 44.8%	4.7%	6.1% 52.4%	6.3% 52.8%	5.4% 52.4%	5.0% 53.0%	53.5%	Long-Tei	% to Net F	atio	4.0%
Pfd Sto	Superind Construction         29.9%         34.0%         35.0%         36.2%         37.9%         36.9%         36.8%         21.7%           s, Uncapitalized Annual rentals \$11.4 mill.         assets-12/20 \$5409.2 mill.         8.6%         2.3%         1.4%         2.4%         2.9%         3.9%         4.7%         6.1%           sock \$155.6 mill.         Pd Div'd \$7.6 mill.         53.4%         43.7%         44.3%         45.9%         45.6%         44.8%         51.2%         52.4%           sock \$155.6 mill.         Pd Div'd \$7.6 mill.         45.3%         55.4%         54.8%         53.2%         53.6%         54.4%         48.2%         46.9%           systematic transmitted to the state of the stat															46.5%	46.0%	Common	n Equity F	latio	44.5%
Incl. 2,3	Bits         Bits <th< td=""><td>31425 33275</td><td>35650</td><td>Net Plan</td><td>t (\$mill)</td><td>")</td><td>40200</td></th<>															31425 33275	35650	Net Plan	t (\$mill)	")	40200
\$54.00;	Oblig \$7045.3 mill.         45.3%         55.4%         54.8%         53.2%         53.6%         54.4%         48.2%         46.9%           sck \$15.6 mill.         Pfd Div'd \$7.6 mill.         8856.0         16675         17544         18738         19313         19697         23018         24474           324,000 shs \$1.90-\$3.28 rates (\$50 par) not to mandatory redemption, call. at \$50.50-; 430,000 shs 4.25%-4.78% not subject to tory redemption, call. at \$102.80-\$103.63.         10403         16605         17576         18647         19892         21351         23617         25610           5.9%         4.2%         5.5%         5.3%         5.5%         5.8%         5.2%         <															5.0% 8.5%	5.0% 9.0%	Return o Beturn o	n Total C n Shr. Fo	ap'l uitv	5.5% 9.5%
Commo	Duck, out sits 91:30-30.2c hates (s00 par) flot         10403         16605         17576         18647         19892         21351         23617         25610           to mandatory redemption, call. at \$50.50- tory redemption, call. at \$102.80-\$103.63.         5.9%         4.2%         5.5%         5.3%         5.5%         5.2%         5.2%         5.2%           sono Stock 343,643,255 shs. as of 7/31/21         9.8%         5.7%         8.1%         8.2%         8.4%         8.7%         8.9%         9.9%           ET CAP: \$29 billion (Large Cap)         5.0%         1.6%         3.4%         3.5%         3.4%         3.5%         3.5%         3.4%           Retail Sales (KWH)         +2.2         -3.3         2019         2020         22.7         BUSINESS: Eversource Energy (formerly Northeast Utilities) is the															8.5%	9.0%	Return o	n Com Eq	quity E	10.0%
ELECTI	I30,000 shs 4.25%-4.78% not subject to ry redemption, call. at \$102.80-\$103.63.       9.7%       5.7%       8.1%       8.2%       8.4%       8.7%       8.9%       8.9%         n Stock 343,643,255 shs. as of 7/31/21       9.8%       5.7%       8.2%       8.2%       8.5%       8.8%       8.9%       9.0%         IC OPERATING STATISTICS       2018       2019       2020       50%       72%       59%       58%       61%       60%       61%       62%         Bus per KiWI(c)       NA       N															2.5% 69%	3.5% 63%	All Div'd	to Com I s to Net F	=q Prof	3.5% 62%
% Change F	subject to mandatory redemption, call. at \$50.50- \$54.00; 430,000 shs 4.25% -4.78% not subject to nandatory redemption, call. at \$102.80-\$103.63.       100-01       100-01       100-01       120-02       21-01       2010       27-05       30003       3027       30000       Net Plant (smill)         sb54.00; 430,000 shs 4.25% -4.78% not subject to nandatory redemption, call. at \$102.80-\$103.63.       5.9%       4.2%       5.5%       5.5%       5.8%       5.2%       5.1%       5.0%       5.0%       Return on Total Cap'l Return on Come Equity         MARKET CAP: \$29 billion (Large Cap)       5.0%       1.6%       3.4%       3.5%       3.5%       3.5%       3.4%       8.5%       9.0%       Return on Com Equity       E         Support       5.0%       1.6%       3.4%       3.5%       3.4%       3.5%       3.4%       3.6%       3.3%       2.5%       8.5%       9.0%       Return on Com Equity       E         Market CAP: \$29 billion (Large Cap)       5.0%       1.6%       3.4%       3.5%       3.4%       3.5%       3.4%       3.6%       3.3%       2.5%       8.5%       9.0%       Return on Com Equity E       E         Support       5.0%       1.6%       3.4%       3.5%       3.4%       3.5%       3.4%       3.6%       3.3%       2.5%															Electric					
Avg. Indust. Avg. Indust.	Use (MWH) Revs. per Kl	WH (¢)	NA NA	NA NA	NA NA	custom	of utilitie: ers. Sup	s with 3.2 plies pow	er to mo	st of Col	nnecticut	and gas	to part	other, 6	акdown: %. Fuel d	residentia costs: 34	al, 56%; % of revs	commerces. '20 repo	orted dep	rec. rate	al, 5%; e: 3.0%.
Peak Load,	Winter (Mw)		NA NA NA	NA NA NA	NA NA NA	of Con tion; su	necticut; Ipplies po	supplies ower to w	power to estern Ma	3/4 of N assachus	lew Ham setts and	pshire's parts of	popula- eastern	Has 9,3 CEO: Jo	300 emp be Nolan	loyees. ( . Inc.: MA	Chairman A. Addres	i: James s: 300 Ci	J. Judg adwell Di	e. Pres ive, Spr	ident & ingfield,
% Change (	Customers (y	r-end)	+.5	+.7	+.8	MA & g	gas to cei	ntral & ea	stern MA	; supplie	s water to	D CT, MA	, & NH.	MA 011	04. Tel.:	413-785-	5871. Int	ernet: wv	w.everso	ource.co	m.
Fixed Charg	e Cov. (%)	6 Daet	319 <b>P</b> a	319 st Est'd	345	app	regu roved	llator	rs 1n ttlem	Coni ent a	nection iffection	ing E	iave ver-	spend	. As a ding o	lways n elec	, Eve	rsourc ransm	e ben ission	efits , whi	from ch is
of change	(per sh)	10 Yrs. -2 0	. 5 Yr	rs. to	24-26	sour the	rce E state.	nergy Conn	y's ele lecticu	e <b>ctric</b> t Ligl	c con ht & F	<b>ipany</b> Power	7 <b>in</b> was	recov Earr	erable	e in ra shou	ates co ald in	ontem	poran se m	eousl ateri	y. i <b>allv</b>
"Cash I Earning	Flow" Is	2.0 5.5	% 6. % 5.	5% 5%	5.0% 6.5%	criti	cized	for it	s perf	orma	nce fo	ollowii	ng a	in 20	)22. 7	he co	mpar	ison v	vill be	e eas	y be-
Dividen Book V	ds alue	8.5 6.5	% 6. % 4.	5% 0%	6.0% 4.5%	the	comm	ission	threa	atene	d to	lower	the	credi	ts, an	d we	assum	ie no	transi	tion	costs
Cal-	QUAR Mar 21	TERLY RE	EVENUES (	(\$ mill.)	Full	utili tion	ty´s al to a	lowed penal	retur ty th	n on at cos	equity st the	, in a	lddi- panv	assoc Incor	nated ne fro	with m Eve	the ga	as util ce's tr	lity ac ansm	quisi issior	tion. 1 op-
2018	2288	1854	2271	2035	<b>Year</b> 8448.1	\$0.0	7 in	the f	irst q	uarte	r. Th	e allo	wed	erati	ons sh	nould	advar	ice fui	ther.	The	com-
2019 2020	2416 2373	1884 1953	2176 2344	2050 2234	8526.5 8904.4	to p	rovide	cust	omers	with	\$75	millio	n of	targe	t is $5^{\circ}$	%-7%.		uai ea	arning 	s gro	JWUII
2021	2826	2122	2461 2550	2391 2400	9800 10000	bill Ever	credit sourc	s and e took	l assi a cha	stance arge o	e. As of \$0.1	are l7as	sult, hare	Ever proje	soure ects t	ce is hrou	build gh a	ling o ioint	offsho vent	ore v ure v	vind with
Cal-	EA	RNINGS	PER SHAR	EA	Full	agai	nst th	ird-qu	arter	resul	ts, wl	nich i	s in-	Orst	ed, a	a Eu	rope	an c	ompa	ny.	The
endar 2018	Mar.31	Jun.30	Sep.30	Dec.31	Year 3.25	We	have	lowe	red o	our 2	2021	earni	ings	ment	wou	ld pro	ovide	1,760	meg	awati	ts of
2019	.97	.74	.98	.76	3.45	esti This	mate woul	by § d resu	<b>30.25</b> ilt in	<b>a sh</b> a slig	a <b>re,</b> ht de	to \$3 cline	<b>3.50.</b> even	capao as pl	city be anned	eginni I. this	ng in will a	late 2 accelei	2023. rate tl	lf all 1e coi	goes mpa-
2021	1.06	.77	.82	.85	3.50	from	the n-role	2020 ted. cr	tally,	whic	h was	s hur	t by	ny's o	earnin	igs gr	owth,	but in	nvesto	rs sh	ould
2022 Cal-	QUAR	.87 FERLY DIV	IDENDS P	.93 AID <sup>B</sup> ∎	4.05 Full	ted v	with t	he pu	rchase	ofa	gas ut	tility.	(The	cant	consti	uction	n risk	· .	11è	10 518 1	,
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	acqu lowe	isition red s	n costs hare	s cont net b	ınued y \$0.	into 05 in	2021, the	and first	This has	top- a be	quali low-a	ty b avera	ut ur ge di	itime ivide	ly si nd v	tock vield
2017 2018	.475 .505	.475 .505	.475 .505	.475 .505	1.90 2.02	nine	mont	hs.) P	ositive	facto	ors the	is yea	r in-	for a	utili	ity. To	otal re	turn	poten	tial is	s at-
2019 2020	.535 .5675	.535 .5675	.535 .5675	.535 .5675	2.14 2.27	acqu	ired g	as con	mpany	v and	a full	year	's ef-	for th	$10^{10}$ $10^{$	o 5-ye	ear pe	riod.	-	, but	IUW
2021	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$													2021							
(losses): (64¢). Ne	'05, (\$1 ext earni		(19¢); '1 ort due la	10, 9¢; '1 te Feb. <b>(</b>	<ul> <li>B) \$28.</li> </ul>	rred ch 98/sh. ([	arges. I D) In mi	n '20: II. <b>(E)</b> Ra	\$9939.3 ate allow	mill., ed on	9.3%; in eq., '20:	NH: '21, 9.0%. Re	9.3%; e egulatory	arned on Climate:	avg. cor CT, Belo	n. Sto w Pric	ck's Pric	e Stabili h Persist	ty tence		85 65

 (04c): Next earlings report due faite Peb. (b)
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 (b)
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Attachment LDC-2 Cause No. 45621

#### VALUE e 6 of 9 MGE ENERGY INC. NDQ-MGEE RELATIVE DIV'D Yld recent Price 75.25 P/E RATIO 26.9 (Trailing: 25.0) Median: 22.0 Trailing: 25.0 P/E RATIO **1.49** 2.1% LINE TIMELINESS 3 Raised 5/21/21 High: Low: 31.9 24.7 48.0 35.7 29.1 37.4 28.7 40.5 48.0 66.9 68 7 68.9 80.8 83.3 82.9 Target Price Range 21.4 33.4 36.5 44.8 60.3 47.2 51.1 56.7 63.0 2024 | 2025 | 2026 LEGENDS 0.90 x Dividends p sh divided by Interest Rate Relative Price Strength 3-for-2 split 2/14 SAFETY New 1/3/03 TECHNICAL 3 Lowered 12/3/21 160 120 BETA .75 (1.00 = Market) 100 Options: Yes Shaded area indicates recession **18-Month Target Price Range** . . . . . III notice 80 \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ \_ Low-High Midpoint (% to Mid) .60 50 \$67-\$98 \$83 (10%) 40 2024-26 PROJECTIONS 30 Ann'l Total Return ultri ultri Price Gain 20 High Low (+20%) (-5%) 90 70 7% 1% 15 % TOT. RETURN 10/21 Institutional Decisions L. VL ARITH. INDEX THIS 1Q2021 2Q2021 302021 Percent 6 to Buy to Sel vr 19.2 55.5 72 58 69 4 shares 65 17787 3 ýr. 5 yr. 291 64 6 85 62 18137 traded 2 18080 43.8 104.1 HId's(000) © VALUE LINE PUB. LLC 24-26 2006 2007 2008 2009 2010 2022 2005 2011 2012 2013 2014 2015 2018 2019 2020 2021 15.36 16.85 Revenues per sh 18.75 16.73 16.13 16.33 17.35 15.40 15.76 15.61 17.04 17.88 16.27 15.71 16.24 16.15 16.41 15.32 16.30 2.00 2.34 2.46 2.68 2.76 2.94 2.98 3.28 3.49 3.47 3.73 4.06 4.57 4.74 5.05 5.20 "Cash Flow" per sh 5.75 2.66 3.33 1.05 1.37 1.51 1.59 1.47 1.67 1.76 1.86 2.16 2.32 2.06 2.18 2.20 2.43 2.51 2.60 2.95 3.00 Earnings per sh A 3.50 Div'd Decl'd per sh B = 1.45 1.85 .92 .93 .94 .96 .97 99 1.01 1.04 1.07 1.11 1.16 1.21 1.26 1.32 1.38 1.52 1.59 2.80 2.94 4.14 3.08 2.35 1.76 1.88 2.84 3.43 2.08 2.41 3.12 6.12 4.73 5.78 4.75 5.60 Cap'l Spending per sh 4.75 2.67 11.21 11.93 12.99 13.92 14.47 16.71 17.81 19.02 19.92 20.89 22.45 23.56 24.68 27.76 28.45 29.85 Book Value per sh C 34.50 15.14 15.89 34.36 36.16 36.16 Common Shs Outst'g D 30.68 31.46 32.93 34.67 34.67 34.67 34.67 34.67 34.67 34.67 34.67 34.67 34.67 34.67 36.16 36.16 22.4 Avg Ann'l P/E Ratio 15.9 15.0 14.2 15.1 15.0 15.8 17.2 17.0 17.2 20.3 24.9 29.4 25.1 28.4 26.4 Bold fia 23.0 ires are Valu 1.19 .86 .80 .85 1.01 95 99 1.09 .96 .91 1.02 1.31 1.48 1.36 1.51 1.37 **Relative P/E Ratio** 1.45 esti tes Avg Ann'l Div'd Yield 2.1% 2.3% 3.9% 4.3% 4.1% 4.2% 4.4% 4.0% 3.6% 3.2% 2.9% 2.8% 2.8% 2.2% 2.0% 2.2% 1.9% CAPITAL STRUCTURE as of 9/30/21 546.4 541.3 590.9 619.9 564.0 544.7 563.1 559.8 568.9 538.6 Revenues (\$mill) 680 590 610 Total Debt \$620.2 mill. Due in 5 Yrs \$103.9 mill. 80.3 86.9 60.9 64.4 74.9 71.3 75.6 76.1 84.2 92.4 105 110 Net Profit (\$mill) 125 LT Debt \$615.3 mill. LT Interest \$24.8 mill. 16.0% 37.1% 37.7% 37.5% 37.5% 36.7% 36.0% 36.4% 24.6% 18.5% 17.4% 17.0% 16.5% Income Tax Rate Incl. \$17.5 mill. finance leases 5.7% 1.3% 2.1% 2.1% 5.2% 3.6% 8.7% 9.0% 5.0% AFUDC % to Net Profit 5.0% 5.6% (LT interest earned: 5.7x) 36.2% 39.6% 38.2% 39.3% 37.5% 34.6% 33.8% 37.7% 38.0% 35.5% 38.5% 39.0% Long-Term Debt Ratio 40.0% Leases, Uncapitalized Annual rentals \$1.8 mill. 60.4% 61.8% 60.7% 62.5% 63.8% 65.4% 66.2% 62.3% 62.0% 64.5% 61.5% 61.0% Common Equity Ratio 60.0% Pension Assets-12/20 \$429.5 mill. 911.9 937.9 1016.9 1054.7 1081.5 1106.9 1176.3 1310.0 1379.4 1512.8 1665 1765 Total Capital (\$mill) 2075 Oblig \$461.2 mill. 995.6 1073.5 1160.2 1208.1 1243.4 1282.1 1341.4 1509.4 1642.7 1769.4 1865 1990 Net Plant (\$mill) 2325 Pfd Stock None 6.5% Return on Total Cap'l 7.0% 7.8% 7.9% 8.3% 8.6% 7.5% 7.7% 7.3% 7.2% 7.1% 6.8% 7.0% 10.4% 9.8% 10.3% 10.2% 9.5% 10.5% 10.0% Return on Shr. Equity 10.0% Common Stock 36,163,370 shs. 11.1% 11.1% 12.1% 12.2% 10.3% 11.1% 10.4% 9.8% 10.3% 10.2% 9.5% 10.5% 10.0% Return on Com Equity D 10.0% as of 10/31/21 11.1% 12.1% 12.2% 10.3% MARKET CAP: \$2.7 billion (Mid Cap) 4.7% 4.9% 6.1% 6.4% 4.5% 4.7% 4.2% 4.7% 4.6% 4.2% 5.0% 4.5% Retained to Com Eq 4.5% 57% 56% 50% 48% 56% 55% 57% 54% 55% 56% 51% 53% All Div'ds to Net Prof 54% ELECTRIC OPERATING STATISTICS 2018 2019 2020 BUSINESS: MGE Energy, Inc. is a holding company for Madison purchased power, 24%. Fuel costs: 28% of revenues. '20 reported % Change Retail Sales (KWH) Avg. Indust. Use (MWH) Avg. Indust. Revs. per KWH (¢) Capacity at Peak (Mw) Peak Load, Summer (Mw) +1.6 1802 -2.3 NA ·3.5 NA Gas and Electric Company (MGE), which provides electric service depreciation rates: electric, 3.5%; gas, 2.2%; nonregulated, 2.3%. 7 70 7.43 NA 7.16 NA to 157,000 customers in Dane County and gas service to 166,000 Has about 700 employees. Chairman, President & CEO: Jeffrey M. ŇĂ customers in seven counties in Wisconsin. Electric revenue break-Keebler. Incorporated: Wisconsin. Address: 133 South Blair Street, NA NA NA NA NA NA 686 down: residential, 37%; commercial, 50%; industrial, 3%; other, P.O. Box 1231, Madison, Wisconsin 53701-1231. Telephone: 608-Annual Load Factor (% NA 10%. Generating sources: coal, 47%; gas, 15%; renewables, 14%; 252-7000. Internet: www.mgeenergy.com % Change Customers (avg.) We have raised our 2021 and 2022 MGE Energy's utility subsidiary has 429 645 465 Fixed Charge Cov. (%) earnings estimates by \$0.10 a share reached a settlement of its general ANNUAL RATES Past Past Est'd '18-'20 rate case. For 2022, Madison Gas and each year. Third-quarter share net easily of change (per sh) 10 Yrs. 5 Yrs. to '24-'26 2.5% Electric filed for electric and gas rate increases of \$23.1 million (5.9%) and \$5.3topped our estimate of \$0.85. Favorable Revenues -1.5% "Cash Flow" Earnings 6.0% 3.0% 4.5% 4.5% 5.5% 5.0% weather conditions helped, as they have so 5.0% 3.5% 5.5% million (3.0%), respectively, based on a far this year. Economic improvement as 5.0% 5.5% Divide ds Book Value 9.8% return on equity and a 55.6% common-equity ratio. For 2023, the utility the economy reopens has been another 6.0% positive factor. We assume in our 2022 es-QUARTERLY REVENUES (\$ mill.) Cal-Full timate that the commission approves the sought no increase for electricity (but endar Mar.31 Jun.30 Sep.30 Dec.31 Year wanted to reopen the case under certain regulatory settlement. Despite the ex-140.1 2018 157.6 124.3 137.8 559.8 pectation of rate relief, we look for just a circumstances, such as a change in the 2019 167.6 122.2 138.2 140.9 568.9 federal tax rate), and asked for a \$3.0 milslight earnings increase because we also 2020 149.9 117.0 135.2 136.5 538.6 lion (1.6%) boost in gas tariffs. The compaassume normal weather patterns. 2021 167.9 130.7 145.9 145.5 590 The utility is adding renewable generny reached a settlement with the staff of 2022 175 135 150 150 610 ating capacity. A 50-megawatt solar the Wisconsin commission and various in-EARNINGS PER SHARE A Cal Full project is close to completion at a cost of tervenors that calls for electric and gas in-Mar.31 Jun.30 Sep.30 Dec.31 endar Year creases of \$20.5 million (5.2%) and \$4.2 \$65 million, and a similar facility is sched-2018 .58 2.43 .53 .85 .47 million (2.2%), respectively, in 2022. Electric tariffs would be flat in 2023 (with a uled for commercial operation in late 2022. 2.51 .69 .88 .48 2019 .45 Besides these projects, MGE's plans call .44 2020 .75 .53 .88 2.60 clause allowing for a reopener under cerfor the addition of 127 mw of solar, wind, .97 .63 97 .38 2021 2.9 tain circumstances) and gas rates would climb \$1.8 million (1.0%). The allowed .50 3.00 and battery storage at a cost of \$185 mil-.90 .55 .95 2022 lion from 2022 through 2024. QUARTERLY DIVIDENDS PAID B = † Cal-Full This stock has one of the highest ROE and common-equity ratio would be endar Mar.31 Jun.30 Sep.30 Dec.31 Year what MG&E requested. We consider this a valuations of any utility issue. The div-2017 .3075 .3075 .3225 .3225 1.26 constructive regulatory settlement. An oridend yield is well below the industry 2018 .3225 .3225 .3375 3375 1.32 2019 .3375 .3375 .3525 .3525 1.38

2021 .37 .37 .3875 (A) Diluted earnings. Excludes nonrecurring gain: '17, 62¢. '19 earnings don't sum due to rounding. Next earnings report due late Feb. (B) Dividends historically paid in mid-March,

.3525

.37

.37

1.45

.3525

2020

der from the regulators is expected by yearend, with new tariffs taking effect at the start of 2022.

mean. The recent quotation is within our 2024-2026 Target Price Range.

Paul E. Debbas, CFA December 10, 2021

June, September, and December. 

Dividend
(D) In millions, adjusted for split. (E) Rate al-lowed on common equity in '21: 9.8%; earned reinvestment plan available. † Shareholder investment plan available. (C) Includes regulatory assets. In '20: \$178.6 mill., \$4.94/sh. Climate: Above Average.

on common equity, '20: 10.1%. Regulatory

· ·	
Company's Financial Strength	A+
Stock's Price Stability	100
Price Growth Persistence	60
Earnings Predictability	100

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#### Cause No. 45621

NO	RTH	WES	STER	RN ND	Q-NWE		R	ecent Rice	57.4	9 P/E RATI	o <b>15</b> .	5 (Traili Media	ng: 16.0) an: 17.0)	RELATIV P/E RATI	E <b>0.8</b>	4 DIV'D YLD	4.4	% V		<b>e</b> 7	of 9
TIMELIN	iess 4	Lowered	8/6/21	High: Low:	30.6 23.8	36.6 27.4	38.0 33.0	47.2	58.7 42.6	59.7 48.4	63.8 52.2	64.5 55.7	65.7 50.0	76.7 57.3	80.5 45.1	70.8		-	Target	Price	Range
SAFET	2	Raised 7	/27/18		NDS 51 x Divide	ends p sh		00.1	12.0	10.1	02.2	00.7	00.0	07.0	10.1	00.2			2024	2025	2026
TECHNI	CAL 2	Raised 1	0/1/21	div Re	vided by In elative Pric	terest Rate e Strength															160
18-Mor	th Tarc	et Price	Range	Shaded	res area indica	ates recess	sion														
Low-Hig	jh Mid	point (%	to Mid)							1				1 <sup>000100</sup>		ո <sup>րութ</sup>					
\$44-\$93	\$69	(20%)							<u>, """"</u>						- Intitu						
202	4-26 PR	OJECTIO	DNS nn'l Total	••	<u>، الألن</u>						•_										-30
High	Price 85 (·	Gain +50%)	Return 14%	1411 <sup>912</sup>	·····	••••	••*•	*****	••••••	·	· ·	••••	<u> </u>	*****							20
Low Institu	65 (· tional [	+15%) Decisio	<u>8%</u> ns	-									P		•••••	•.•*•		% тот		N 9/21	-15
to Buy	4Q2020	1Q2021	2Q2021	Percent	t 30 –													1 yr.	22.6	INDEX 50.6	-
to Sell Hid's(000)	135 47664	130 47776	125 47852	traded	10		mminth							ulluttu				3 yr. 5 yr.	9.4 20.0	43.9 89.2	F
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALU	E LINE PL	JB. LLC	24-26
32.57 4.00	31.49 3.62	30.79	35.09	31.72	30.66 4.76	30.80 5.42	28.76	29.80 5.45	25.68 5.39	25.21 5.92	26.01	26.45	23.81	24.93	23.70	24.30	24.30	Revenue "Cash Fl	s per sh ow" per s	sh	26.25 8.00
1.71	1.31	1.44	1.77	2.02	2.14	2.53	2.26	2.46	2.99	2.90	3.39	3.34	3.40	3.53	3.06	3.65	3.75	Earnings	per sh A		4.00
1.00	2.81	1.28	1.32	1.34	1.36	1.44	1.48	1.52	1.60	1.92	2.00	2.10	2.20	2.30	2.40	2.48	2.56	Div'd Dee Can'l Spe	l'd per sl	hB∎† Arsh	2.80
20.60         20.65         21.12         21.25         21.86         22.64         23.68         25.09         26.60         31.50         33.22         34.68         36.44         38.60         40.42         41.10         43.00         44.15         Book           35.79         35.97         38.97         35.93         36.00         36.23         36.28         37.22         38.75         46.91         48.17         48.33         49.37         50.32         50.45         50.59         54.50         Com           17.1         26.0         21.15         12.9         12.6         15.7         16.9         16.2         18.4         17.2         17.8         16.8         19.9         19.5         Bold figures are Avg J           .91         1.40         1.15         18.4         .77         3.37%         3.3%         3.6%         3.4%         3.5%         3.9%         3.3%         4.0%           3.4%         3.6%         4.1%         5.4%         5.7%         4.9%         4.2%         3.7%         3.3%         3.6%         3.4%         3.5%         3.9%         3.9%         3.3%         4.0%															Book Val	ue per sh	C	48.00			
20.00       20.05       21.12       21.25       21.86       22.64       23.68       25.09       26.60       31.50       33.22       34.68       36.44       38.60       40.42       41.10       43.00       44.15       Book Value per sh         35.79       35.97       35.97       35.93       36.00       36.23       36.28       37.22       38.75       46.91       48.17       48.33       49.37       50.32       50.45       50.59       54.50       54.50       Common Shs Outs         17.1       26.0       21.7       13.9       11.5       12.9       12.6       15.7       16.9       16.2       18.4       17.2       17.8       16.8       19.9       19.5       Bold tigures are value Line estimates       Avg Ann'l P/E Ratic         3.4%       3.6%       4.1%       5.4%       5.7%       4.9%       4.5%       4.2%       3.7%       3.3%       3.6%       3.4%       3.5%       3.9%       3.3%       4.0%       estimates       Avg Ann'l P/E Ratic         3.6%       4.1%       5.4%       5.7%       4.9%       4.5%       4.2%       3.7%       3.3%       3.6%       3.4%       3.5%       3.9%       3.3%       4.0%       Avg Ann'l Div'd Yie </td <td>sťg D</td> <td>57.00</td>															sťg D	57.00					
35./9         35.9/         36.9/         36.00         36.23         36.28         37.22         38.75         46.91         48.17         48.33         49.37         50.32         50.45         50.59         54.50         54.50         Common           17.1         26.0         21.7         13.9         11.5         12.9         12.6         15.7         16.9         16.2         18.4         17.2         17.8         16.8         19.9         19.5         Bold figures are Value Line estimates         Avg Ann'l           3.4%         3.6%         4.1%         5.4%         5.7%         4.9%         4.5%         4.2%         3.7%         3.3%         3.6%         3.4%         3.6%         3.4%         3.5%         3.9%         3.3%         4.0%         estimates         Avg Ann'l           CAPITAL STRUCTURE as of 6/30/21         1117.3         1070.3         1154.5         1204.9         1214.3         1257.2         1305.7         1395.1         1325         Revenue:           Total Debt \$2519.5 mill. Due in 5 Yrs \$782.2 mill.         92.6         83.7         94.0         120.7         138.4         162.2         171.1         179.3         155.2         195         205         Net Porti <td< td=""><td>P/E Ratio</td><td></td><td>1.05</td></td<>															P/E Ratio		1.05				
17.1       26.0       21.7       13.9       11.5       12.9       12.6       15.7       16.9       16.2       18.4       17.2       17.8       16.8       19.9       19.5       Bold igures are Value Line estimates       Avg Ann'l P/E Ratio Relative P/E Ratio         3.4%       3.6%       4.1%       5.4%       5.7%       4.9%       4.5%       4.2%       3.7%       3.3%       3.6%       3.4%       3.5%       3.9%       3.3%       4.0%       Avg Ann'l P/E Ratio Avg Ann'l Div'd Yield         CAPITAL STRUCTURE as of 6/30/21         Total Debt \$2516.7 mill.       1117.3       1070.3       1154.5       1204.9       121.4.3       1257.2       1305.7       1198.1       1257.9       1198.7       1325       Net Profit \$\mathbf{mill}\$         Incl. \$13.4 mill. finance leases.       9.8%       9.6%       13.2%        7.6%        1.6%       6.0%       6.0%       AFUDC \$to bet Profit         State       9.6%       9.6%       13.2%        13.7%        7.6%        1.6%       6.0%       6.0%       12.0%       Income Tax Rate         Molt function       9.0%       9.6%       13.2%       5.6 40%       5.2%       3.4%       4.6%															eld	3.7%					
11.1       20.0       21.7       13.9       11.5       12.9       10.7       10.9       10.2       18.4       17.2       17.8       16.8       19.9       19.5       Bold figures are Value Line estimates       Avg Ann'l P/E Ratio         3.4%       3.6%       4.1%       5.4%       5.7%       4.9%       4.5%       4.2%       3.7%       3.3%       3.6%       3.4%       3.5%       3.9%       3.3%       4.0%       estimates       Avg Ann'l P/E Ratio         CAPITAL STRUCTURE as of 6/30/21         Total Debt \$2519.5 mill. Due in 5 Yrs \$782.2 mill.       1117.3       1070.3       1154.5       1204.9       121.7       138.4       164.2       162.7       171.1       179.3       155.2       195       205       Net Profit \$mill\$         Incl. \$13.4 mill. finance leases.        9.6%       13.2%        13.7%        7.6%        Nil       5.0%       AFUDC % to Net Profit \$mill\$         Pension Assets-12/20       5688 5 mill       47.8%       46.9%       63.4%       53.4%       53.1%       52.2%       52.5%       52.5%       50.5%       50.5%       Long-Term Debt Ratio																1500					
LT Debt	3.6%         1.7%         5.4%         5.7%         4.9%         4.5%         4.2%         3.7%         3.85         .93         .90         .90         .91         1           1%         3.6%         4.1%         5.4%         5.7%         4.9%         4.5%         4.2%         3.7%         3.3%         3.6%         3.4%         3.5%         3.9%         3.1%         5.2%         3.4%         4         52.2%         52.9%         52.2%         52.2%         52.2%         52.2% <td>Nil</td> <td>5.0%</td> <td>Income T</td> <td>ax Rate</td> <td></td> <td>12.0%</td>															Nil	5.0%	Income T	ax Rate		12.0%
(LT inte	est earn	inance ie ied: 3.0x)	ases.			3.3%	9.4%	5.2%	3.4%	4.6%	6.3%	6.0%	12.0%	AFUDC %	to Net P	rofit	4.0%				
Pensio	The         Orac         The         Orac         The         Orac         Or															50.5% 49.5%	50.5% 49.5%	Long-Ter Common	m Debt R Equity R	atio atio	49.0% 51.0%
Dfd Sto	tal Debt \$2519.5 mill. Due in 5 Yrs \$782.2 mill.       92.6       83.7       94.0       120.7       138.4       164.2       162.7       171.1       179.3       155.2       15         r Debt \$2516.7 mill. LT Interest \$87.8 mill.       92.6       83.7       94.0       120.7       138.4       164.2       162.7       171.1       179.3       155.2       15         92.6       83.7       94.0       120.7       138.4       164.2       162.7       171.1       179.3       155.2       15         10 abs \$2516.7 mill.       Debt \$2516.7 mill.       9.8%       9.8%       4.3%       5.2%       3.4%       4.6%       6.3%       6.0         9.8%       9.8%       4.3%       5.2%       52.8%       50.5       52.8%															4745	4860	Total Cap	vital (\$mil	l)	5375
	92.6       83.7       94.0       120.7       138.4       164.2       162.7       171.1       179.3       155.2       19.         Debt \$2516.7 mill.       LT Interest \$87.8 mill.       9.8%       9.6%       13.2%        13.7%        7.6%        16.6%        M.         1.\$13.4 mill. finance leases.       3.0x)       9.4%       8.7%       8.9%       9.8%       4.3%       5.2%       3.4%       4.6%       6.3%       6.0%         nsion Assets-12/20 \$688.5 mill.       Oblig \$821.0 mill.       777.1       2020.7       2215.7       3168.0       340.86       349.9.9       3614.5       406.46       4289.8       4409.1       477.2%       495.5         1797.1       2020.7       2215.7       3168.0       3408.6       3493.9       3614.5       406.46       4289.8       4409.1       477.2%       495.5       4214.9       4358.3       4521.3       470.9       4952.9       521         mmon Stock 51,561,227 shs.       7.0%       5.5%       5.5%       4.8%       5.2%       5.2%       5.2%       5.2%       5.2%       5.5%       5.5%       5.6%       5.2%       5.2%       5.5%       5.5%       5.5%       5.6%       5.2%<															5215	5610	Net Plant	(\$mill) n Total Ca	an'l	6350 5.5%
as of 7/	3.3%         9.4%         8.7%         8.9%         9.8%         4.3%         5.2%         3.4%         4.6%           in Assets-12/20 \$688.5 mill.         52.2%         53.8%         53.5%         53.4%         53.1%         52.0%         50.2%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.5%         52.5%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.5%         52.2%         52.2%         52.5%         52.2%															8.5%	8.5%	Return of	n Shr. Eq	uity	8.5%
MARKE	n Assets-12/20 \$688.5 mill. Oblig \$821.0 mill.         47.8%         46.2%         46.5%         46.6%         46.9%         48.0%         49.8%         47.8%         47.8%           Oblig \$821.0 mill.         1797.1         2020.7         2215.7         3168.0         3408.6         3493.9         3614.5         4064.6         4289           on Stock 51,561,227 shs.         2213.3         2435.6         2690.1         375.80         4059.5         4214.9         4358.3         4521.3         4700           y[23/21]         7.0%         5.5%         5.5%         4.8%         5.2%         5.9%         5.6%         5.2%         <															8.5%	8.5%	Return or Retained	1 Com Eq	uity E	8.5%
ELECTI	2213.3         2435.6         2690.1         3758.0         4059.5         4214.9         4358.3         4521.3         4700.5           23/21         7.0%         5.5%         5.5%         4.8%         5.2%         5.9%         5.6%         5.2%         6.2%         6.4%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%         8.8%<															67%	68%	All Div'de	to Net P	rof	2.3 <i>%</i> 69%
% Change F	ension Assets-12/20 \$688.5 mill.       02.2 /r/0       03.0 /r/0       03.1 /r/0       02.1 /r/0       02.1 /r/0       02.2 /r/0       02.2 /r/0       02.1 /r/0       02.2 /r/0       02.2 /r/0       02.0 /r/0       02.1 /r/0       02.1 /r/0       02.2 /r/0       02.0 /r/0       03.1 /r/0       02.1 /r/0       02.2 /r/0       02.2 /r/0       02.0 /r/0       02.0 /r/0       03.1 /r/0       02.1 /r/0       02.2 /r/0       02.0 /r/0       02.0 /r/0       03.1 /r/0       02.0 /r/0       02.0 /r/0       02.0 /r/0       03.1 /r/0       02.0 /r/0       02.0 /r/0       02.0 /r/0       03.0 /r/0       03.0 /r/0       03.1 /r/0       02.0 /r/0															; wind,					
Avg. Indust. Avg. Indust.	Oblig \$821.0 mill.         Oblig \$821.0 mill.         1797.1         202.07         2215.7         3168.0         3408.6         3493.9         3614.5         406.6         428.8         4409.1         47.42°         49.3°         Lormon Equity Hatio         5           ommon Stock 51,561,227 shs. s of 7/23/21         1797.1         2020.7         2215.7         3168.0         3408.6         3493.9         3614.5         4064.6         4289.8         4409.1         4745         4860         Total Capital (\$mill)         10.8%         50.7%         5.5%         5.2%         4.5%         5.0%         5.0%         Return on Total Capit         10.8%         9.0%         8.8%         9.0%         8.8%         7.5%         8.5%         Return on Total Capit         10.8%         9.0%         9.1%         8.2%         8.6%         9.8%         9.0%         8.8%         7.5%         8.5%         Return on Total Capit         10.8%         9.0%         9.1%         8.2%         8.6%         9.8%         9.0%         8.8%         7.5%         8.5%         Return on Com Equity #         10.8%         9.0%         8.8%         7.5%         8.5%         Return on Com Equity #         10.8%         9.0%         8.8%         7.5%         8.5%         Return on Com Equity # <t< td=""><td>ies. '20 airman:</td></t<>															ies. '20 airman:					
Capacity at Peak Load,	Peak (Ŵw) Winter (Mw)		NA 2173	NA 2237	NA NA	South	Dakota s	and 294,	000 gas	custome	ers in Me	ontana (	85% of	Dana J	Dykhou	se. CEO:	Robert (	C. Rowe.	Presiden	t & COO	): Brian
Annual Load % Change (	l Factor (%) Customers (y	r-end)	NA +1.2	NA +1.2	NA +1.2	revenu	e breakd	own: resi	dential, 3	%), and 9%; com	mercial,	47%; ind	lustrial,	57108.	Tel.: 605	-978-290	0. Interne	et: www.no	orthweste	ernenerg	jy.com.
Fixed Charg	e Cov. (%)		275	284	237	Nor	thWe	stern	s ear	nings	are	likely	y to	capa	city.	In	Sout	h Da	ikota,	a	60-
ANNUA		S Past	Pa	st Est'd	'18-'20	com	<b>d up</b> pariso	mucl n with	n imp n the S	rove 2020	<b>d in</b> 1 tallv i	2021. Is eas	The v In	mega	watt	gas-fi f \$80 i	red fa millio	acility n Thi	ıs b∈ sisst	eing ∣ ill ex	built pect-
Revenu	(per sn)	-3.0	. 511 1% -2.	s. to 0%	24-26 1.5%	2020	, pro	fits v	vere h	urt	by co	ronavi	irus-	ed to	be o	n line	in la	te 202	21, bu	it cor	nple-
Earning	-low" Is	4.0 5.5	% 4. % 3.	5% 2 5% 3	2.5% 3.0%	relat	ed co	osts, a cha	unfavo arge fo	orable or the	wea disall	ther	pat-	tion	might	i gila dd anw	nto ea other	arly 20 30 my	)22. T v-40 r	'he u' nw ir	tility
Book V	ds alue	5.5 6.0	1% 6. 1% 5.	5% 3	3.5% 3.0%	powe	$e^{r} \cos^{3}$	ts. Tl	nis ye	ar, th	ie we	ather	has	state	in 20	$23^{\circ}_{at}$	an e	xpecte	d cost	tofa	bout
Cal-	QUAR	TERLY RE	EVENUES (	\$ mill.)	Full	been book	nea ed an	r no	rmal, mal (h	and	the	comp	pany ring)	\$60 plans	millio s to bi	n. In uild a	Mon 175-r	itana, nw ga	Nort s-fired	n Wes 1 plau	tern nt at
endar 2018	341.5	261.8	279.9	314.9	Year 1198 1	cred	it of	\$0.13	as	hare	in th	ie se	cond	an ez	specte	d cost	of \$2	275 mi	llion (	inclu	ding
2019	384.2	270.7	274.8	328.2	1257.9	quar	ter. N uidan	/lanag ce of	ement \$3 43-	; excl \$3 58	udes asha	this f	rom	the	Allow tructi	ance	for 1	funds	Used	1 Du	ring
2020	335.3 400.8	269.4 298.2	280.6 <b>300</b>	313.4 <b>326</b>	1198.7 <b>1325</b>	estin	nate o	f \$3.6	5 is al	pove t	his ra	nge.	, our	seeki	nga	certifi	cate o	f need	from	the s	state
2022	390	300	300	335	1325	The	comj finar	pany	<b>is issι</b> canit	uing : al bu	stock	. This	will	regul	ators	becau t is c	ise it omnle	wants	to en v late	sure	that 3 or
Cal- endar	EA Mar.31	Jun.30	ск SHAR Sep.30	Dec.31	Full Year	up it	ts bal	ance s	heet.	(Nort	hWest	ern h	as a	early	2024	. This	s is no	ot incl	uded	in No	orth-
2018	1.18	.61	.56	1.06	3.40	nega	tive	outlo	ok fr islv tl	om a he co	a cre	edit-ra v had	ting ex-	West	ern's	tive-y Ther	ear c	apital risk	spen of a w	ding	ex- off if
2019 2020	1.44 1.00	.49 .43	.42 .58	1.18 1.06	3.53 3.06	pecte	ed to	issue	\$200	mill	ion o	f com	mon	the d	ommi	ssion	deem	s the	proje	ct im	pru-
2021	1.24	.72	.60	1.09	3.65	equi	ty thr	ough ree-ve	an at	-the-n	narket	t prog	ram nent	dent,	but t	his w ved if	ould a the	almost utility	certa	inly thr	have
Cal-	QUART	ERLY DIV	DENDS PA	1.25 \DB∎†	5.75 Full	now	inten	ds to f	inish	this b	y yea	rend.		the a	pprov	al pro	cess.				- ug 11
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	We Cross	look ise in	for ju 2029	ist a	secor	t ear	nings arter	s in-	This	stoc divi	k is dend	unti	mely, d. Thi	but	offer	sa the
2017	.525	.525 55	.525	.525	2.10	paris	son v	vill b	e diff	icult.	Also	, ave	rage	utilit	y ave	rage. ]	Prospe	ects fo	r the	18-m	onth
2019	.575	.575	.575	.575	2.30	shar	es ou	tstand	ling w	vill be	e high	er du	ie to	span	are	good, for the	but	the e	juity r peri	does	not
2020	.60 .62	.60 .62	.60 .62	.60	2.40	Nor	thWe	stern	is a	ıddin	g ge	nerat	ting	Paul	E. De	bbas,	CFA	<u>(</u>	)ctobe	r 22,	2021
(A) Dilute	d EPS.	Excl. gair	n (loss) or	n disc. op	s.: mid-	Feb. (B)	Div'ds	historical	ly paid i	n late	allowed	on com.	eq. in	MT in	19 (elec	.): Cor	npany's	Financia	Strengt	h	B++
'15, 27¢;	'18, 52¢	; '19, 45	¢. '18, '20	2, 390 no	n't avai	l. (C) Incl	. def'd ch	arges. In	20: \$20.	93/sh.	spec.; in	NE in '	07: 10.4	%; earne	d on av	g. Pric	ck S Fild	h Persist	ence		45

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## Cause No. 45621

SEI	<b>NPR</b>	A El	VER	<b>GY</b> NY	<b>/SE-</b> SR	E	R P	ECENT 1 RICE	23.1	3 P/E RATI	₀ <b>31</b> .'	7 (Traili Media	ng: 17.8 an: 20.0 <b>)</b>	RELATIV P/E RATI	5 <b>1.7</b>	1 DIV'D YLD	3.7	%		<b>e</b> 8	of 9
TIMELIN	IESS 5	5 Lowered	10/8/21	High: Low:	57.2 43.9	56.0 44.8	72.9 54.7	93.0 70.6	116.3 86.7	116.2 89.4	114.7 86.7	123.0 99.7	127.2 100.5	154.5 106.1	161.9 88.0	144.9 114.7			Target	Price	Range
SAFET		2 Raised 7	/29/16	LEGEI	NDS 80 x Divide	ends p sh													2024	2020	640
BETA 1	UAL 2 .00 (1.00	Haised 1 () = Market)	0/22/21	Options:	elative Pric Yes	e Strength															480
18-Mor	th Targ	get Price	Range	Shaded	area indica	ates recess	ion														320
Low-Hig	jh Mid z €15	Ipoint (%	to Mid)														~ _				240
\$97-\$21 202	4-26 PR	7 (30%)	ONS											,		, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					160
	Price	A Gain	nn'l Total Return						1 <sup>1111111</sup>	""""""",""	ull'''''''	ריייייקן	in the second	~	[ <b> </b> '						80
High 1 Low 1	90 ( 40 (	+55%) +15%)	14% 7%	·*.		en Poulu												% TOT		N 9/21	60
Institu	tional   402020	Decisio 102021	ns 202021	III'II' ***		,,	••••	********		********	•••••••••••••••••••••••••••••••••••••••	•••••••		•••••					THIS V STOCK	L ARITH.*	L
to Buy to Sell	374 359	412 325	434 272	shares	16 - 8 -						Huuuld.			<b></b>		••••••••••••••••••••••••••••••••••••••		1 yr. 3 yr.	9.6 21.6	50.6 43.9	E
Hid's(000) 2005	<b>240266</b>	254378	266791	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALL	JE LINE PI	JB. LLC	24-26
45.64	44.89 6 74	43.79	44.21	32.88	37.44	41.83	39.80 8.92	43.18	44.80 9.41	41.20	40.71	44.59	42.69	37.12	39.41	37.60	39.75	Revenue "Cash Fl	s per sh ow" per s	sh	46.50 18 50
3.52	4.23	4.26	4.43	4.78	4.02	4.47	4.35	4.22	4.63	5.23	4.24	4.63	5.48	5.97	6.58	4.00	8.50	Earnings	per sh <sup>4</sup>	A _	10.75
1.16 5.46	1.20	1.24	1.37	1.56 7.76	1.56 8.58	1.92 11.85	2.40 12.20	2.52 10.52	2.64 12.68	2.80 12.71	3.02 16.85	3.29 15.71	3.58 13.82	3.87 12.71	4.18	4.40 17.85	4.62 15.70	Div'd De Cap'l Sp	cl'd per s ending pe	h <sup>B</sup> ∎ ersh	5.50 13.00
23.95	28.66	31.87	32.75	36.54	37.54	41.00	42.42	45.03	45.98	47.56	51.77	50.41	54.35	60.58	70.11	75.75	79.65	Book Val	ue per sh	C	94.00
11.8	11.5	14.0	11.8	10.1	12.6	239.93	242.37	244.46	246.33	248.30	250.15	251.36	2/3.//	291.71	288.47	322.00 Bold fig	322.00 ures are	Avg Ann	'I P/E Rat	io	322.00
.63 2.8%	.62 2.5%	.74	.71	.67	.80	.74 3.6%	.95 3.7%	1.11	1.15	.99 2.7%	1.28	1.22	1.10	1.20	1.01	Value estin	Line ates	Relative	P/E Ratio 'I Div'd Yi	eld	.85 3.3%
CAPITA	L STRU		as of 6/30	)/21	0.170	10036	9647.0	10557	11035	10231	10183	11207	11687	10829	11370	12100	12800	Revenue	s (\$mill)		15000
Total Debi	ebt \$248 \$22090	363 mill. I ) mill. I	Due in 5 ` LT Intere:	Yrs \$8430 st \$828 m	) mill. Iill.	1088.0	1079.0	1060.0	1162.0	1314.0	1065.0	1169.0	1607.0	1825.0	2083.0	1400 NMF	2890	Net Profi	t (\$mill) av Bate		3635
Incl. \$12 (LT inte	94 mill. rest earr	finance le ned: 3.9x)	eases.			15.2%	17.2%	11.2%	14.4%	15.3%	22.2%	21.9%	12.6%	10.0%	9.7%	16.0%	8.0%	AFUDC 9	6 to Net F	Profit	6.0%
Leases Pensio	Uncapi Assets	italized Å s-12/20 \$	nnual rer 3002 mill	ntals \$73 ı	mill.	50.4% 49.2%	52.8% 46.7%	50.5% 49.4%	51.7% 48.2%	52.6% 47.3%	52.7% 47.3%	56.4% 43.5%	55.7% 38.4%	51.0% 43.4%	48.2%	48.0%	48.0%	Long-Ter Common	m Debt R Equity R	latio latio	48.5% 50.0%
Pfd Sto	<b>ck</b> \$145	4 mill.	Pfd Div'd	Oblig \$4 \$83 mill.	077 mill.	20015	22002	22281	23513	24963	27400	29135	38769	40734	45174	48525	51275	Total Cap	pital (\$mil	I)	60700
5.75 mil shs. 6%	l. shs. 6. cum., \$	.75% mar 25 par.; 9	nd. conv. 100,000 s	pfd.; 811, hs. 4.875	073 % cum.	6.7%	6.1%	6.0%	6.1%	6.4%	5.0%	5.1%	5.1%	5.5%	5.5%	43925	6.5%	Return o	n Total Ca	ap'l	7.0%
Commo as of 8/	n Stock 2/21	319,328	,331 shs.			10.9%	10.4% 10.4%	9.6% 9.6%	10.2%	11.1%	8.2%	9.2% 9.2%	9.4%	9.1% 9.5%	8.9% 9.5%	5.0% 5.0%	10.5%	Return o Return o	n Shr. Eq n Com Ec	uity uitv ⋿	11.5% 11.5%
MARKE	T CAP:	\$39 billi	on (Large	e Cap)		6.5%	5.1%	4.1%	5.0%	5.8%	2.9%	3.3%	4.1%	3.9%	3.7%	NMF	5.0%	Retained	to Com I	q	5.5%
ELECT		ERATING	STATIST 2018	ICS 2019	2020	41% BUSIN	52% F <b>SS</b> : Se	58% mpra En	52%	48%	65%	65%	62%	chases	most of	its powe	or: the re	All Div'd	Has no	nutility	52% subsidi-
% Change I Avg. Indust.	Solver         Solver<															odities b	usiness	in '10.			
Capacity at Peak Load,	Peak (Mw) Summer (Mi	w)		NMF NMF	NMF NMF	to mos	t of South	thern Cal	ifornia. C	S Compa Dwns 80%	% of Ond	or (acq'o	d 3/18),	6.7%. H	las 14,70	0 employ	enues. /	airman, P	resident	& CEO:	Jeffrey
Annual Loa % Change (	Factor (%) Sustomers (y	/r-end)	NMF +.9	NMF +.8	NMF +.8	tric, 7.0	million	s electric gas. Elec	tric rever	xas. Cus nue breał	tomers: a down no	t availab	n elec- le. Pur-	W. Mar Tel.: 61	tin. Inc.: 9-696-20	CA. Addi 00. Interr	ess: 488 net: www	sempra.c	, San Di om.	ego, CA	92101.
Fixed Charg	e Cov. (%)		186	181	159	Sem	pra ł	nas co	mple	ted t	wo si	gnific	cant	The	litiga	tion	paym	ent is	s the	one i	neg-
ANNUA of change	L RATE (per sh)	S Past 10 Yrs	Ра . 5Ү	st Est'd rs. to	l '18-'20 '24-'26	chas	ed the	ons. e 30%	of IE	nova,	its M	exico	sub-	been		ood y	ear f	for Se	empra	a. Th	is is
Revenu "Cash	iës Flow"	.5 4.0	5% -1. 1% 4.	.5% 0%	2.5% 8.0%	sidia   IEno	ry, t va's	that rene	it di wable	idn't -energ	alrea rv a	.dy c nd	own. gas-	the i	first f ed na	full y atural	ear o gas	f oper facilit	ation v on	for the	a li- Gulf
Earning Dividen	ls ds	3.0 10.0	)% 5. )% 8.	.0% 1 .0%	0.0% 6.0%	pipel	ine o	perat	ions	were	combi	ned	with	Coas	t, whith $f \in \mathcal{S}$	ich is	expe	ected	to pro	oduce	net
Cal-		D.C RTERLY RI		(\$ mill.)	7.5% Full	form	Sem	pra I	nfrast	ructu	re. Se	cond,	the	ly. (T	The fa	cility	did r	ot ex	perien	ice hu	arri-
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	comp frast	oany s ructu	sold a re Pai	20% tners	stake to Kł	in S KR for	empra \$3.37	a In- 7 bil-	cane owne	dama d util	ige.) ( ity in	Oncor, Texas	the c s, is ex	ompai pandi	ny´s 8 ing ra	0%- .pid-
2018	2902	22304	2940	2943	10829	lion	in cas	sh. Th	e com	pany ce del	plans	to use	e the	ly an	id has	incre	eased	its ca	pital	budge	et as
2020	3029 3259	2526 2741	2644 <b>2800</b>	3171 <b>3300</b>	11370 <b>12100</b>	level	and f	for cap	pital s	pendi	ng.			come	grow	th.		10501	, in 5	10000	
2022	3400 F/	2850	3050	3500 F A	12800	has	com anno	unce	′s So d agr	CalG.	as su nts to	ibsidi o rese	ary olve	Earr norn	nngs nal le	will evel i	l lik n 202	ely 1 22. Sei	r <b>etur</b> mpra's	n to s util	<b>a</b> ities
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	litig	ation	In 1	2015, lity's	there	was al ga	a lea	k at	in C \$229	aliforr millio	nia w	ill ber rate re	nefit f elief V	rom a	a tota	al of ddi-
2018 2019	1.43 1.78	1.27 .85	1.23 2.00	1.55 1.34	5.48 5.97	facili	ties.	Resol	ution	of th	is m	atter	will	tiona	l grov	vth to	come	from	Semj	pra Ii	nfra-
2020	2.30 2.87	1.58 1.21	1.23 <b>d1.80</b>	1.43 <b>1.72</b>	6.58 <b>4.00</b>	caus \$1.13	e Sem 3 billi	ion (\$	о tаке 3.58-а	an ar a sha	tertax re) wl	nen tl	ge or hird-	struc Our	ture 1 earnii	n its igs es	nrst i stimat	ull yea æis w	ar of o vithin	the o	tion. com-
2022	2.75	1.90	1.95	1.90	8.50	quar vemi	ter re ber. V	esults Ve are	are r	elease <i>uding</i>	ed in this	early charg	No- e in	pany	's tar <del>2</del> .	rgeted	rang	ge of	\$8.10	)-\$8.7	0 a
Cal- endar	Mar.31	Jun.30	Sep.30	<u>Dec</u> .31	Full Year	our	earni	ngs p	resent	ation	beca	use it	re-	This	unti	imely	stoc	k ha	s a	divid	end
2017	.755	.8225	.8225	.8225	3.22	sulte	e slas	n son hed o	ur 202	g thai 21 sha	ı is op are-ne	t estir	nai, nate	retur	n pot	ential	is a	e f <b>or</b> a ttracti	ve fo	r the	18-
2019	2018 8225 895 895 895 351 from $\$$ 8.15 to $\$$ 4.00. The cash payment month period and average for the pull 2019 895 9675 9675 9675 380 from $\$$ 8.15 to $\$$ 4.00. The cash payment month period and average for the pull 2020 9675 1045 1045 1045 1045 1045 1045 1045 104													ll to							
2020	2021 1.045 1.10 1.10 1.10 4.0 1.045 1.045 4.10 depending upon insurance receipts. Paul E. Debbas, CFA October 22, 202												2021								
(A) Dil. E (26¢); '10	PS. Exc ), (\$1.05	i. nonrec ;; '11, \$1	. gains (le .15; '12,	osses): '0 (98¢); '13	9, ops. , due	: '19, 95¢ to chg. in	; '20, \$6. shs. Ne	.32. '20 E xt egs. re	PS don't port due	add early	\$12.57/sł cost. Rat	n. <b>(D)</b> In i e all'd on	mill. (E) F com. eq	Rate base .: SDG&E	: Net orig E in '20:	g. Cor Sto	npany's ck's Pric	Financia e Stabilit	Strengt	h	A 90
(30¢); '15 (\$2.06); '	5, 14¢; '1 19, 16¢;	16, \$1.23 `21, 16¢	; '17, (17 ; gains fro	¢); '18, om disc.	Nov. Div'o	. <b>(B)</b> Div'o d reinv. a	ls paid m /ail. <b>(C)</b> I	iid-Jan., A Incl. intan	Apr., July, g. In '20:	Oct. ■	10.2%; S avg. com	oCalGas . eq., '20	in '20: 1 : 10.6%.	0.05%; ea Reg. Clin	arned on nate: Avg	Price	ce Growt nings Pr	h Persist edictabil	ence		70 85

(30¢); '15, 14¢; '16, \$1.23; '17, (17¢); '18, (\$2.06); '19, 16¢; '21, 16¢; gains from disc. Nov. (B) Divds paid mid-Jan. Apr., July, Oct. – Divd reinv. avail. (C) Incl. intang. In '20: 10.2%; SoCal Gas in '20: 10.0%; earned on avg. com. eq., '20: 10.6%. Reg. Climate: Avg. Price Growth Persistence Earnings Predictability © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product

## Cause No. 45621

WE	C EI	VER	GY C	ROI		/SE-wi	EC P	ecent Rice	90.4	9 P/E Rati	₀ <b>21</b> .'	7 (Traili Media	ng: 21.8 an: 19.0 <b>)</b>	RELATIVE P/E RATI	5 <b>1.2</b>	<b>O</b> DIV'D YLD	3.2	% V		<b>e</b> 9	of 9
TIMELI	NESS 4	Raised 1	2/10/21	High: Low:	30.5 23.4	35.4 27.0	41.5 33.6	45.0 37.0	55.4 40.2	58.0 44.9	66.1 50.4	70.1 56.1	75.5 58.5	98.2 67.2	109.5 68.0	99.9 80.6			Target	Price	Range
SAFET	Y 1	Raised 3	/23/12		NDS 31 x Divide	ends p sh									× .				2024	2025	160
BETA	ICAL C 80 (1.00 =	Lowered Market)	12/10/21	div Re 2-for-1 sp	vided by in elative Pric ilit 3/11	e Strength										, ·····					120
18-Mo	nth Targ	et Price	Range	Options: Shaded	Yes area indica	ates reces	sion					$\sim$				11 <sup>11,11</sup> 1,0					100
Low-Hi	gh Mid	point (%	to Mid)					$\sim$					11-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		-						60
\$80-\$12	25 \$10	3 (15%)						սուրու	ստով,												40
202	24-26 PR		nn'i Total	*	, դրերու Անդրեն						••••				 						30
High	110 (+	6am +20%)	8%	Цµнч		••••		····	······	·····	····.	**********	····	••••		••••.••.					20
Institu	itional [	Decisio	ns															% ТОТ.	RETURI	N 10/21	
to Buy	102021 362	202021 405	302021 366	Percent	t 30 -													1 yr.	стоск -7.9	INDEX 55.5	E
to Sell Hld's(000	441 233922	378 231367	387 236130	traded	10					Hallim			linnt			Uluuu		3 yr. 5 yr.	42.5 74.7	64.6 104.1	-
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALU	IE LINE PL	JB. LLC	24-26
2.89	2.90	2.98	2.95	3.11	3.30	19.46 3.68	4.01	4.33	4.47	18.77 3.87	23.68 5.39	5.69	6.04	6.53	6.90	26.00	25.50 8.05	"Cash Fl	s per sn ow" per s	sh	28.75 10.00
1.28	1.32	1.42	1.52	1.60	1.92	2.18	2.35	2.51	2.59	2.34	2.96	3.14	3.34	3.58	3.79	4.10	4.35	Earnings	per sh 4	А L В	5.25
.44 3.40	4.17	.50 5.28	.54 4.86	.68 3.50	.80	1.04 3.60	3.09	1.45 3.04	1.56 3.26	4.01	1.98	6.21	6.71	2.36	2.53	6.90	2.89 9.35	Cap'l Spe	endina per s	n¤∎ ersh	3.45 9.00
11.46	12.35	13.25	14.27	15.26	16.26	17.20	18.05	18.73	19.60	27.42	28.29	29.98	31.02	32.06	33.19	34.40	35.75	Book Val	ue per sh	C	40.25
233.96	233.94	233.89	233.84	233.82	233.77	230.49	229.04	225.96	225.52	315.68 21.3	315.62	315.57	315.52	315.43	315.43	315.43 Bold fig	315.43		Shs Out	sťg ¤ io	315.43
.77	.86	.88	.89	.89	.89	.89	1.01	.93	.93	1.07	1.04	1.01	1.06	1.25	1.29	Value	Line	Relative	P/E Ratio		1.10
2.4%	4%         2.2%         2.1%         2.4%         3.2%         3.0%         3.3%         3.2%         3.5%         3.4%         3.5%         3.4%         3.3%         3.4%           PITAL STRUCTURE as of 9/30/21         4486.4         4246.4         4519.0         4997.1         5926.1         7472.3         7648.5         7679.3           al Debt \$14684 mill.         Due in 5 Yrs \$5541.0 mill.         514.0         547.5         578.6         589.5         640.3         940.2         998.2         1060.3           S12.1 mill. finance leases.         33.9%         35.9%         36.9%         38.0%         40.4%         37.6%         37.2%         13.8%           16.8%         9.4%         4.5%         1.3%         4.5%         3.8%         1.6%         2.1%															esun	ales	Avg Ann	l Div'd Yi	eld	3.4%
Total D	Internet         Entre															8200	8050	Revenue Net Profi	s (\$mill) t (\$mill)		9100 1660
LT Deb	<b>t</b> \$12678 2 1 mill fi	mill. L	T Interes	st \$445.2	mill.	33.9%	35.9%	36.9%	38.0%	40.4%	37.6%	37.2%	13.8%	9.9%	15.9%	13.5%	13.5%	Income T	ax Rate		13.5%
(LT inte	rest earn	ed: 4.2x)		1-1- ¢0 0		16.8%	9.4%	4.5%	1.3%	4.5%	3.8%	1.6%	2.1%	1.8%	2.4%	2.0%	2.0%	AFUDC %	6 to Net P	Profit	2.0%
Pensio	Debt S1207 o mill.         L1 interest \$445.2 mill.           33.9%         35.9%         36.9%         38.0%         40.4%         37.6%         37.2%         13.8%           1. \$12.1 mill. finance leases.         interest earned: 4.2x)         interest earned: 4.2x)         36.9%         36.9%         45.5%         1.3%         4.5%         3.8%         1.6%         2.1%           insion Assets-12/20 \$3225.0 mill.         Oblig \$3346.4 mill.         53.6%         51.7%         50.6%         48.5%         51.2%         50.5%         48.0%         49.4%         50.4%           d Stock \$30.4 mill.         Pfd Div'd \$1.2 mill.         0.000 shs. 3.60%, \$100 par.         10160         10572         10907         11258         19190         19916         21347         22001           7.5%         7.9%         8.1%         8.1%         4.5%         6.3%         6.6%         6.5%															45.5%	45.5%	Common	Equity R	atio	46.5%
Pfd Sto	\$12.1 mill. finance leases. interest earned: 4.2x)         53.3%         53.3%         53.0%         40.4%         57.5%         57.2%         13.8%           ses, Uncapitalized Annual rentals \$6.8 mill.         16.8%         9.4%         4.5%         1.3%         4.5%         3.8%         1.6%         2.1%           sion Assets-12/20 \$3225.0 mill.         0blig \$3346.4 mill.         53.6%         51.7%         50.6%         48.5%         51.2%         50.5%         48.0%         49.4%           Stock \$30.4 mill.         Pfd Div'd \$1.2 mill.         8608.0         8619.3         8626.6         8636.5         17809         18118         18238         19813           000 shs. 3.60%, \$100 par, callable \$101;         7.5%         7.9%         8.1%         4.5%         6.3%         6.6%         6.5%           12.9%         49.1%         51.2%         10.907         11258         19190         19916         21347         22001           10160         10572         10.907         142.6%         40.5%         6.3%         6.6%         6.5%															23975	24675	Total Cap	oital (\$mil	I)	27300
260,00	ss, Uncapitalized Annual rentals \$6.8 mill.         53.0%         51.7%         50.0%         48.5%         51.2%         50.5%         50.4%           ion Assets-12/20 \$3225.0 mill.         Oblig \$3346.4 mill.         46.0%         48.0%         49.1%         51.2%         48.6%         49.3%         51.9%         49.4%           tock \$30.4 mill.         Pfd Div'd \$1.2 mill.         8608.0         8619.3         8626.6         8636.5         17809         18118         18238         19813           00 shs. 3.60%, \$100 par, callable \$101;         10160         10572         10907         11258         19190         19916         21347         22001           7.5%         7.9%         8.1%         8.1%         6.3%         6.6%         6.5%         5.5%         10.5%         10.5%         10.5%         10.8%           8ths. 6%, \$100 par.         12.9%         13.1%         13.6%         13.2%         7.4%         10.5%         10.5%         10.5%         10.5%         10.5%         10.8%           12.9%         13.1%         13.6%         13.3%         7.4%         10.5%         10.5%         10.8%           6.8%         6.5%         5.9%         5.3%         2.1%         3.5%         3.6%         3.7%															6.5%	6.5%	Return of	n Total Ca	ap'l	33200
Comm	Oblig \$3346.4 mill.         8608.0         8619.3         8626.6         8636.5         17809         18118         18238         19813           tock \$30.4 mill.         Pfd Div'd \$1.2 mill.         10160         10572         10907         11258         19190         19916         21347         22001           00 shs. 3.60%, \$100 par.         non Stock 315,434,531 shs.         7.5%         7.9%         8.1%         8.1%         4.5%         6.3%         6.6%         6.5%           12.9%         13.1%         13.6%         13.2%         7.4%         10.5%         10.5%         10.8%           12.9%         13.2%         13.6%         13.3%         7.4%         10.5%         10.8%           12.9%         13.2%         13.6%         13.3%         7.4%         10.5%         10.8%           12.9%         13.2%         13.6%         13.3%         7.4%         10.5%         10.8%           12.9%         13.2%         5.3%         5.3%         2.1%         3.5%         3.6%         3.7%           KET CAP: \$29 billion (Large Cap)         6.8%         6.5%         5.9%         5.3%         2.1%         3.5%         3.6%         3.7%           TRIC OPERATING STATISTICS <td< td=""><td>12.0%</td><td>12.0%</td><td>Return or</td><td>n Shr. Eq</td><td>uity</td><td>13.0%</td></td<>															12.0%	12.0%	Return or	n Shr. Eq	uity	13.0%
MARK	Note statistics and the statistics           7.5%         7.9%         8.1%         4.5%         6.3%         6.6%         6.5%           8 shs. 6%, \$100 par.         non Stock 315,434,531 shs.         12.9%         13.1%         13.6%         13.2%         7.4%         10.5%         10.5%         10.8%           KET CAP: \$29 billion (Large Cap)         13.2%         13.6%         13.3%         7.4%         10.5%         10.5%         10.8%           TRIC OPERATING STATISTICS         2018         2019         2020         47%         51%         57%         60%         71%         67%         66%         66%           ge Retail Sales (KWH)         +2.5         -2.5         -2.6         10.4%         NA         NA <t< td=""><td>12.0%</td><td>12.0%</td><td>Return or Retained</td><td>n Com Ec to Com F</td><td>luity E ≣α</td><td>13.0%</td></t<>															12.0%	12.0%	Return or Retained	n Com Ec to Com F	luity E ≣α	13.0%
ELECT	In Stock 315,434,531 shs.         12.9%         13.1%         13.2%         14.4%         10.5%         10.8%           ET CAP: \$29 billion (Large Cap)         12.9%         13.1%         13.2%         13.3%         7.4%         10.5%         10.5%         10.8%           IRC OPERATING STATISTICS 2018         2019         2020         47%         51%         57%         60%         71%         67%         66%         66%           Steali Sales (KWH)         +2.5         -2.6         -2.6         -2.6         -2.6         service in WI         6.61         service in WI & gas service in IL, MN, & MI. Customers: 1.6 mill.															66%	66%	All Div'de	to Net P	rof	66%
% Change	Retail Sales (	Stock 315,434,531 shs.         12.9%         13.1%         13.6%         13.2%         7.4%         10.5%         10.8%           CAP: \$29 billion (Large Cap)         6.8%         6.5%         5.9%         5.3%         2.1%         3.5%         10.5%         10.5%         10.8%           COPERATING STATISTICS all Sales (KWH)         2018         2019         2020         2020         2020         BUSINESS: WEC Energy Group, Inc. (formerly Wisconsin Energy) is a holding company for utilities that provide electric, gas & steam service in WI & gas service in IL, MN, & MI. Customers: 1.6 mill. elec., 2.9 mill. gas. Acq'd Integrys Energy 6/15. Sold Point Beach nuclear plant in '07. Electric revenue breakdown: residential, 41%; small commercial & industrial.															ing sourc	es: coal,	31%; ga	s, 31%;	renew-
Avg. Indus Avg. Lg. C	10100 volume       1010 volume															oloyees.	Chair-				
Capacity a Peak Load	HIL OPERATING STATISTICS         2018       2019       2020         1 Retail Sales (KWH)       2019       2020         1 Retail Sales (KWH)       +2.5       -2.5       -2.6         1 Use (MWH)       NA       NA       NA         21 Resk (MWH)       NA       NA       NA         22 Resk (MWH)       NA       NA       NA         21 Resk (MWH)       NA       NA       NA         22 Resk (MWH)       NA       NA       NA         23 Resk (MWH)       NA       NA       NA         24 Resk (MWH)       NA       NA       NA         2															lappa. Pr	resident a an St	& CEO: k	Kevin Fle	tcher. Ir Milwauk	nc.:WI.
Annual Loa % Change	id Factor (%) Customers (yi	r-end)	NA +.7	NA +.6	NA +.7	small o	commerci	al & indu	strial, 319	%; large	commer	cial & inc	lustrial,	53201.	Tel.: 414	-221-234	5. Interne	et: www.w	ecenergy	/group.ce	om.
Fixed Char	ge Cov. (%)		323	300	338	WE	C Ene	ergy	Group	) is a	about	toc	om-	in lạ	te 202	23 <sub>.</sub> In	Illind	ois, No	orth S	Shore	Gas
ANNU/		S Past	Pa	st Est'd	'18-'20	plet ance	e anc e. The	other e comr	<b>year</b> pany is	of s s ben	solid efiting	<b>perto</b> g from	orm-	recer	ved ai tive S	n incre epter	ease o nber 1	1 \$4.1 15th. 1	millio	on (4. on a	5%), 1 re-
Reven	ues	2.5	% 3.	0%	24-20 3.5%	grow	th in	its s	ervice	area	s ecoi	nomy.	Fa-	turn	on e	quity	of 9.0	67% a	nd a	com	non-
Earnin	gs	7.5 8.0	%9. %7.	0% 5% 0	6.5%	vora In C	ble su bicag	ummei o. Pec	: weat	her p Fas h	atteri as a	ns hel regula	ped. itorv	equit	y rat: ted a	io of hike	51.6% e0f	). Micl \$9.3 1	nigan millioi	Gas n (6.	was 4%).
Book \	alue	7.5	% 8.	0%	6.5% 4.0%	mecl	nanisr	n that	allow	s the	utili	ty to	earn	based	l on a	n RO	E of 9	.85%	and a	comi	mon-
Cal-	QUAR	TERLY RE	VENUES (	\$ mill.)	Full	a re milli	on-\$3	on it 00 m	.s cap illion	anni	spend 1allv)	ing (3	⊉280 gas-	equit	y ratı t at th	o or 5 le star	1.3%. t of 2	new 1 022.	ariffs	W111	аке
2018	2286	1672	1643	2076	7679.5	mair	ı repl	aceme	ent. A	nothe	er fac	tor is	in-	Noni	regul	ated	rene	wable	ene	rgy i	is a
2019	2377	1590	1608	1947	7523.1	crea ener	sed in gv in	come vestm	from 1 ents (s	ionut see be	ility r elow).	enewa Upor	able-	sour billio	ceot nofi	<b>grow</b> nonuti	ilitv v	vEC E vind r	nergy project	has s ope	\$2.3 erat-
2020	2691	1676	1747	2086	<i>8200</i>	port	ing t	hird-q	uarter	ear	nings	ine	arly	ing o	or un	der c	onstru	uction.	The	se as	ssets
2022	2500	1700	1750	2100	8050	Sept shar	embei e-earr	r, WE nings	C Ene target	from	raised \$4.0	1ts 2 2-\$4.0	2021 5 to	provi than	de a the re	great egulat	ter re ed uti	eturn ility bı	on 11 1sines	ivestr s.	nent
Cal- endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year	\$4.0	5-\$4.0	7. We	raise	d our	• estir	nate l	by a	We e	expec	t a di	ivide	nd ind	creas	e in	ear-
2018	1.23	.73	.74	.65	3.34	nick men	el, to t is ty	\$4.10 picall	, consi v cons	derin servat	g tha tive ir	t man 1 its 9	age- ruid-	iy 20 share	JZZ. \ e (6.64	we es %) ani	timate nually	e a bo v. WEC	oost o C Ene	1 \$0.] rgv's	18 a tar-
2019	1.33	.74 .76	.74 .84	.77	3.58 3.79	ance	. We	have	also	lifted	lour	2022	es-	get fo	or the	payou	it rati	io is 6	5%-70	%.	•
2021	1.61	.87 <b>an</b>	.92 an	.70 90	4.10	tima wou	te by ld pro	the sa vide 6	ame ai % ear	noun nings	t, to \$ grow	4.35. th. wi	This	Desp the	pite V price	VEC ] e of :	Energ this	gy's so untin	olid s ielv	show stocl	ıng, s is
Cal-	QUAR	TERLY DIV	IDENDS P	AID B =	Full	WEC	Éne	rgy's	annua	l goa	1 of 6	%-7%	(up	dow	n 2%	this	year.	This	is like	ely ju	ist_a
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	from Som	15%-7 1e re	% pre gulata	viously orv n	y). 1atte	rs h	ive h	een	corre 2020	ction The	atter divide	a ste end vi	ellar p eld is	pertori a bit	manc below	e in 7 the
2017 2018	.52	.52 .5525	.52 .5525	.52 .5525	2.08 2.21	reso	lved.	The	Wis	sconsi	n co	mmis	sion	utilit	y ave	rage,	but t	otal re	eturn	poter	ntial
2019	.59	.59	.59	.59	2.36	gran	ted the	ne util	ity per al gas	rmissi facili	ion to ties '	build This 9	two \$370	for th	ne 18-	month risk-s	ı perio diust	odisa edbas	ttract	ive, e	espe-
2020	.6775	.6325 .6775	.6325 .6775	.0325 .6775	2.03	milli	on pr	oject i	s sche	duled	for c	omple	etion	Paul	E. De	bbas,	ČFA	Dec	cembe	r 10,	2021
2020       .0023       .0023       .0023       .0023       .0023       .0023       .0024         2021       .6775       .6775       .6775       .6775       .6775       .6775         (A) Diluted EPS. Excl. gains on discont. ops.:       Mar., June, Sept. & Dec. ■ Div/d reinvest. plan       10.3%; in IL in '15: 9.05%; in MN in '19: 9.7%; Company's Fit         11.6c: nonrecurring gains '17.65c:       18 EPS       Avail (C) loci intagin in '20: \$20 85(sh (D) ln in MI in '16: 9.9%; eagned on ava come equations of the second												IL in '15 16: 9.9%;	: 9.05%; earned	in MN in on avg. c	'19: 9.7% om. eq.,	6; Cor Sto	npany's ck's Pric	Financial e Stabilit	Strengt y	h	A+ 85

cont sum due to rounding. Next earnings mill., adj. for spiit. (c) Hate base: Net orig. cost. 1/20: 11.7%. Hegulatory Climate: WI, Above report due early Feb. (B) Div'ds paid in early
 Rates all'd on com. eq. in WI in '15: 10.0% Publicity Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

Earnings Predictability 100

## Cause No. 45621

<b>ATMOS ENERG</b>	Y CC	RP.	NYSE-	ATO P	ecent Rice	96.2 <sup>-</sup>	1 P/E Rati	o <b>18.</b>	<b>1</b> (Traili Media	ng: 18.8) an: 19.0)	RELATIVE P/E RATE	<b>0.9</b>	6 DIV'D YLD	2.9	%		e 1	of 7
TIMELINESS 4 Lowered 8/20/21	High: Low:	32.0 25.9	35.6 28.5	37.3 30.4	47.4 34.9	58.2 44.2	64.8 50.8	82.0 60.0	93.6 72.5	100.8 76.5	115.2 89.2	121.1 77.9	105.0 84.6			Target	Price	Range
SAFETY 1 Raised 6/6/14	LEGE	NDS 50 x Divide	ends p sh		0.110		0010		12.0		00.2		00			2024	2025	2026
TECHNICAL 5 Lowered 11/26/21	di Re	vided by In elative Price	terest Rate e Strength															200 160
BETA .80 (1.00 = Market)	Options: Shaded	Yes area indica	ates recess	ion								4u						100
Low-High Midpoint (% to Mid)										hhinn and	1 <sup>1-11-1</sup>	111111111	IJ <sup>₩₩</sup> ₩₽₩ Ź					80
\$81-\$136 \$109 (15%)						اير بير	لىر الىرىيا	100.010	[ 									-60
2024-26 PROJECTIONS						II'IIII			$\sim$									40
Ann'i Iotal Price Gain Return	الار الله أن		1 <sup>.</sup>															30
High 160 (+65%) 76% Low 130 (+35%) 10%	<u>'I</u> I';	*****			••••••				•••••• <sup>••</sup> •••						% тот	BETUR	 N 10/21	_20
Institutional Decisions				•••		••••							·····.			THIS V	L ARITH.*	
to Buy 280 256 247	Percen shares	t 24 -		.			II. u.u.	l				u diuu	II.u. u		1 yr. 3 yr.	3.1 5.4	55.5 64.6	F
Hid's(000) 107949 107920 109549		8 -												2022	5 yr.	38.0	104.1	14.00
61.75 75.27 66.03 79.52	53.69	53.12	48.15	38.10	42.88	49.22	40.82	32.23	2017	28.00	2019	2020	2021	2022	Bevenue	s per sh	A D. LLU	35.50
3.90 4.26 4.14 4.19	4.29	4.64	4.72	4.76	5.14	5.42	5.81	6.19	6.62	7.24	7.57	8.03	8.75	9.40	"Cash Fl	ow" per s	sh	11.00
1.72 2.00 1.94 2.00	1.97	2.16	2.26	2.10	2.50	2.96	3.09	3.38	3.60	4.00	4.35	4.72	5.12	5.45	Earnings	s per sh 4	AB ch C=	6.50 2 20
4.14 5.20 4.39 5.20	5.51	6.02	6.90	8.12	9.32	8.32	9.61	10.46	10.72	13.19	14.19	2.30	2.50 15.05	18.15	Cap'l Sp	ending pe	sn ≎∎ ersh	15.15
19.90 20.16 22.01 22.60	20.16         22.01         22.60         23.52         24.16         24.98         26.14         28.47         30.74         31.48         33.32         36.74         42.87         48.18         53           81.74         89.33         90.81         92.55         90.16         90.30         90.24         90.64         100.39         101.48         103.93         106.10         111.27         119.34         125           13.5         15.9         13.6         12.5         13.2         14.4         15.9         15.9         16.1         17.5         20.8         22.0         21.7         23.2         2           .73         .84         .82         .83         .84         .90         1.01         .89         .85         .88         1.09         1.11         1.17         1.24         1           4.7%         4.2%         4.8%         5.3%         4.7%         4.2%         4.1%         3.5%         3.1%         2.9%         2.4%         2.3%         2.2%         2.1%         2.															lue per sh	1	87.85
80.54 81.74 89.33 90.81	81.74         89.33         90.81         92.55         90.16         90.30         90.24         90.64         100.39         101.48         103.93         106.10         111.27         119.34         125.88           13.5         15.9         13.6         12.5         13.2         14.4         15.9         15.9         16.1         17.5         20.8         22.0         21.7         23.2         22.3           73         .84         .82         .83         .84         .90         1.01         .89         .85         .88         1.09         1.11         1.17         1.24         1.13           4.7%         4.2%         4.8%         5.3%         4.7%         4.2%         4.1%         3.5%         3.1%         2.9%         2.4%         2.3%         2.2%         2.1%         2.2%           AL STRUCTURE as of 6/30/21         4347.6         3438.5         3886.3         4940.9         4142.1         3349.9         2759.7         3115.5         2901.8         2821.1															1 Shs Out 1 P/F Bat	st'g D io	155.00 22.5
.86 .73 .84 .82	T         01.04         00.05         00.04         00.05         00.04         100.35         101.46         100.35         100.10         11.21         112.04         123.06         151.00         153.00															P/E Ratio		1.25
4.5% 4.7% 4.2% 4.8%	.1       13.5       15.9       13.6       12.5       13.2       14.4       15.9       15.9       16.1       17.5       20.8       22.0       21.7       23.2       22.3       18.8         16       .73       84       .82       .83       .84       .90       1.01       .89       .85       .88       1.09       1.11       1.17       1.24       1.13       .99         %       4.7%       4.2%       4.8%       5.3%       4.7%       4.2%       4.1%       3.5%       3.1%       2.9%       2.4%       2.3%       2.2%       2.1%       2.2%       2.6%         ITAL STRUCTURE as of 6/30/21         Debt \$7128.9 mill. Due in 5 Yrs \$410.0 mill.       4347.6       3438.5       3886.3       4949.9       4142.1       3349.9       2759.7       3115.5       2901.8       2821.1       3407.5       3565         199.3       192.2       20.7       289.8       315.1       350.1       382.7       444.3       511.4       580.5       665.6       735         btb \$7128.5 mill.       LT Interest \$370.0 mill.       36.4%       33.8%       38.2%       39.2%       38.3%       36.4%       36.6%       27.0%       21.4%       19.5%															'l Div'd Yi	eld	2.3%
CAPITAL STRUCTURE as of 6/30 Total Debt \$7328.9 mill. Due in 5	10.1       13.5       13.5       13.6       12.5       13.2       14.4       13.9       15.9       16.1       17.5       20.8       22.0       21.7       23.2       22.3       18.8       Avg Ann <sup>1</sup> PE         8.66       .773       .84       .82       .83       .84       .90       1.01       .89       .85       .88       1.09       1.11       1.17       1.24       1.13       .99       Avg Ann <sup>1</sup> PE         .5%       4.7%       4.2%       4.8%       5.3%       4.7%       4.2%       4.1%       3.5%       3.1%       2.9%       2.4%       2.3%       2.2%       2.1%       2.2%       2.6%       Avg Ann <sup>1</sup> PE         PITAL STRUCTURE as of 6/30/21       437.6       3438.5       3886.3       940.9       4142.1       3349.9       2759.7       3115.5       290.18       2821.1       340.7.5       3565       Revenues (\$n         Ald Debt \$7128.5 mill.       LT Interest \$370.0 mill.       199.3       192.2       230.7       289.8       315.1       350.1       382.7       444.3       511.4       580.5       665.6       735       Net Profit (\$m         Debt \$7128.5 mill.       LT Interest \$370.0 mill.       46.%       5.9%       5.9%       <															s (\$mill) <sup>/</sup> t (\$mill)	•	5500 1000
LT Debt \$7128.5 mill. LT Intere	.86         .73         .84         .82         .83         .84         .90         1.01         .89         .85         .88         1.09         1.11         1.17         1.24         1.13         .99         Relative P/E Rati           1.5%         4.7%         4.2%         4.8%         5.3%         4.7%         4.2%         4.1%         3.5%         3.1%         2.9%         2.4%         2.3%         2.2%         2.1%         2.2%         2.6%         Avg Ann'l Div'd Y           IPITAL STRUCTURE as of 6/30/21         4.7%         4.2%         4.1%         3.5%         3.1%         2.9%         2.4%         2.3%         2.2%         2.1%         2.2%         2.6%         Avg Ann'l Div'd Y           Ial Debt \$7328.9 mill.         Due in 5 Yrs \$410.0 mill.         199.3         192.2         230.7         289.8         315.1         350.1         382.7         444.3         511.4         580.5         665.6         735         Net Profit (\$mill)           Debt \$7128.5 mill.         LT Interest \$370.0 mill.         36.4%         38.2%         39.2%         38.3%         36.4%         36.6%         27.0%         21.4%         19.5%         18.8%         20.0%         Income Tax Rate           verage: 9.5x) <td>ax Rate</td> <td></td> <td>25.0%</td>															ax Rate		25.0%
(L1 Interest earned: 9.5x; total inte coverage: 9.5x)	.73         .84         .82         .83         .84         .90         1.01         .89         .85         .88         1.09         1.11         1.17         1.24         1.13         .99           4.7%         4.2%         4.8%         5.3%         4.7%         4.2%         4.1%         3.5%         3.1%         2.9%         2.4%         2.3%         2.2%         2.1%         2.2%         2.6%           L STRUCTURE as of 6/30/21         4347.6         3438.5         3886.3         4940.9         4142.1         3349.9         2759.7         3115.5         2901.8         2821.1         3407.5         3566           \$537.0 mill.         199.3         192.2         230.7         289.8         315.1         350.1         382.7         444.3         511.4         580.5         665.6         732           est earned: 9.5x; total interest e: 9.5x;         .0tal interest e: 9.5x;         36.4%         33.8%         38.2%         39.2%         38.3%         36.4%         36.6%         27.0%         21.4%         19.5%         18.8%         20.0%           e: 9.5x;         Uncapitalized Annual rentals \$20.4 mill.         49.4%         45.3%         44.3%         43.5%         38.7%         44.0%         34.															t Margin		18.2%
Leases, Uncapitalized Annual rer	300       1.02       0.04       0.04       0.04       0.05       0.05       0.06       1.09       1.11       1.11       1.11       1.24       1.13       3.99       Helative P/E Rational Argencies $n_0^{\prime \prime $															m Debt H Equity R	atio	40.0% 60.0%
Pfd Stock None	3.7.0       4.7.0       4.2.0       4.7.0       4.2.70       4.7.0       4.2.70       4.7.0       4.2.70       2.4.70       <															I)	22700	
Pension Assets-9/20 \$528.9 mill.	11AL S1HUC1UHL as of 6/30/21 al Debt \$7328.9 mill. Due in 5 Yrs \$410.0 mill. Debt \$7328.9 mill. S147.9 5475.6 6030.7 6725.9 7430.6 8280.5 925.2 10371 11788 13355 15065 16350 Net Plant (\$mill) Difts, \$604.2 mill.       3487.6 3438.5 3886.3 4940.9 4142.1 3349.9 2759.7 3115.5 2901.8 2821.1 3407.5 3565 Revenues (\$mill) 380.% 282.7 444.3 511.4 580.5 665.6 6735 Net Profit (\$mill) Difts, \$604.9 mill.         1 Stock None       48.4% 44.3% 44.3% 44.3% 43.5% 38.7% 44.0% 65.7% 61.3% 56.0% 65.7% 62.0% 60.0% 61.5% 60.0% 65.7% 62.0% 60.0% 65.7% 62.0% 60.0% 61.5% 60.0% 60.0% 61.5% 60.0% 60.0% 61.5% 60.0% 61.5% 60.0% 61.5% 60.0% 61.5% 60.0% 61.5% 60.0% 61.5% 60.0% 61.5% 60.5% 61.3% 51.5% 60.5% 61.3% 51.5% 60.5% 61.3% 51.5% 60.5% 61.3% 51.5% 60.5% 61.3% 51.5% 60.5% 61.3% 51.5% 60.0% 61.5% 60.0% 61.5% 51.5% 60.5% 61.5% 60.0% 61.5% 51.5% 61.5% 61.5% 60.5% 61															nn'i	19600 5 5%	
Oblig. \$6 Common Stock 130.790.813 shs.	seb \$\[\$/128.5 mill.         LT Interest \$\\$370.0 mill.         36.4%         33.8%         38.2%         39.2%         38.3%         36.4%         26.6%         27.0%         21.4%         10.5%         18.8%         20.0%         Income Tax Rate           rage: 9.5x;         bes.         yes.															n Shr. Eq	uity	7.5%
as of 7/30/21	19.5x)       11.01/2       0.01/2       0.01/2       10.01/2       10.01/2       11.01/2       10.01/2															n Com Ec	uity	7.5%
MARKET CAP: \$12.6 billion (Lar	None         4461.5         4315.5         5036.1         5542.2         5650.2         5651.8         6965.7         7263.6         9279.7         11323         1           ussets-9/20 \$528.9 mill.           Oblig. \$604.2 mill.           Stock 130,790,813 shs.           /21         6.1%         6.1%         5.9%         6.4%         6.6%         7.2%         6.4%         6.9%         6.1%         5.5%         11788         13355         1           CAP: \$12.6 billion (Large Cap)         8.8%         8.1%         8.9%         9.4%         9.9%         10.1%         9.8%         9.3%         8.9%         8.6%         6.6%         7.2%         6.4%         6.9%         6.4%         6.9%         6.4%         6.9%         6.1%         5.5%         11788         13355         1         5.5%         10.1%         9.8%         9.3%         8.9%         8.6%         6.6%         7.2%         6.4%         6.9%         6.4%         6.6%         7.2%         6.4%         6.9%         6.4%         6.6%         7.2%         6.4%         6.9%         6.6%         6.6%         7.2%         6.4%         6.9%         6.6%         6.6%         7.2%         6.4%															to Com E s to Net P	=q trof	3.5% 51%
CURRENT POSITION 2019	stock None       4461.5       4315.5       5036.1       5542.2       5650.2       5651.8       6965.7       7263.6       9279.7       11323       12835       14400       Total Capital (\$n         sion Assets-9/20 \$528.9 mill.       Oblig. \$604.2 mill.       5147.9       5475.6       6030.7       6725.9       7430.6       8280.5       9259.2       10371       11788       13355       15065       16350       Net Plant (\$mill)         umon Stock 130,790,813 shs.       6.1%       5.9%       6.4%       6.6%       7.2%       6.4%       6.9%       6.1%       5.5%       6.5%       Return on Total         xKET CAP: \$12.6 billion (Large Cap)       8.8%       8.1%       8.9%       9.4%       9.9%       10.1%       9.8%       9.3%       8.6%       8.5%       8.5%       Return on Com         3.3%       2.8%       4.0%       4.7%       4.9%       5.1%       4.9%       4.8%       4.6%       4.4%       4.5%       4.5%       A.5%       Retained to Cor         3.3%       2.8%       6.6%       50%       50%       51%       50%       50%       4.8%       4.6%       4.4%       4.5%       4.5%       A.5%       Retained to Cor         3.3%       2.8%       <															he compa	anv sold	Atmos
Cash Assets 24.5	20.8	524.6	distribu	tion and	sale of n	atural ga	s to ove	r three n	nillion cus	stomers	Energy	Marketing	g, 1/17.	Officers	and direc	tors own	approx	mately
Current Assets 458.0	471.3	1115.4	sion, V	l six regi Vest Tex	as Divisio	iural gas on, Mid-T	ex Divis	ion, Miss	issippi D	ivision,	tive Offi	commor cer: Kevi	n Akers.	Incorpora	ated: Tex	as. Addr	a Chief ess: Thr	ee Lin-
Accts Payable 265.0 Debt Due 464.9	235.8 .2	280.4 200.4	Colorad	do-Kansa	s Division	n, and Ke	entucky/l	Mid-State	s Divisio	n. Gas	coln Ce	ntre, Suit	te 1800,	5430 LB	J Freewa	y, Dallas	, Texas	75240.
Other <u>479.5</u> Current Liab. <u>1209.4</u>	546.4 782.4	581.7 1062.5	Δtm		n lor lise	a 2020.	00.0 %,	stan	$\frac{d}{d} t \alpha$		fiscal	2022	$\frac{1}{2}$ through the second	ugh f	iscal (	2026	to lie	he-
Fix. Chg. Cov. 990% 1	306%	1315%	once	e aga	in, in	fiscal	l 202	2. (Th	e yea	r be-	tween	n \$13	billio	n and	1 \$14	billio	n. A	sub-
ANNUAL RATES Past Pa of change (per sh) 10 Yrs. 5 Y	st Est'd rs. to	l '18-'20 '24-'26	gan	on O	ctober	1st.)	The 1	natura	al gas	dis-	stant	ial po	rtion	of the	e fund	s will	cont	inue
Revenues -8.5% -11 "Cash Flow" 5.5% 7.	.0% 0%	6.0% 6.5%	shar	e of	total	reven	ues,	may	enjoy	in-	year.	Sup	porteo	d by	heal	thy	corpo	rate
Earnings 8.0% 9 Dividends 5.0% 7	0% 5%	7.0% 7.5%	creas	sed c	onsum	ption	leve	ls, if	temp	era-	finan	ces, i	t app	ears t	that t	hese	objēct	ives
Book Value 7.5% 10	.0% 1	0.5%	gene	rally	favora	ible. A	n exp	pande	d cust	tom-	The The	quart	terly	comn	non st	tock (	divid	end
Fiscal QUARTERLY REVENUES ( Year Dec 31 Mar 31 Jun 30	Sep.30	Full Fiscal	er b	ase o	ught t	o helj	p, too	. Moi	eover	, we	was	incre	eased	alm	ost 9	%, to	\$0.6	8 a
<b>2018</b> 889.2 1219.4 562.2	444.7	3115.5	the	pipel	ine a	nd st	torage	e div	ision.	Al-	stead	y hik	es out	t to t	he 202	24-202	$\frac{1}{26}$ pe	riod.
<b>2019</b> 877.8 1094.6 485.7 <b>2020</b> 875.6 977.6 493.0	443.7 474 q	2901.8	thou	gົ່ມ	ncerta	inties	conc	erning	g COV	VID-	The	payou	t rați	o ovei	r that	span	ougł	nt to
<b>2021</b> 914.5 1319.1 605.6	568.3	3407.5	19 p arou	ersist nd 6%	, full-y 6. to §	year p 35.45 a	rofits a sha	migh re. ve	t adv rsus f	ance iscal	be 11 seem	n the s reas	neig sonabl	hborn le. Ho	lood ( wever	of 509 the	%, w divid	hich
2022 960 1385 630	590	3565 Full	2021	's \$5.	12 fig	ure. T	urnin	g to t	he fol	low-	yield	is no	ot spe	ectacu	lar co	mpare	ed to	the
Year Dec.31 Mar.31 Jun.30	Sep.30	Fiscal Year	ing y simi	vear, s lar ne	share : rcenta	net sta ge rat	ands e to	to inc \$5 80	rease as or	at a pera-	avera	ige of dustry	<i>Value</i> / grou	e <i>Line</i> p	's Nat	ural (	ias U	tılı-
<b>2018</b> 1.40 1.57 .64	.41	4.00	ting	margi	ins wi	den fu	rther		, us of		Ătme		nergy	sha	ares	hold	dec	ent,
<b>2019</b> 1.38 1.82 .68 <b>2020</b> 1.47 1.95 .79	.49 .53	4.35	Cap	ital s ed res	spend	ling f	tor t	he y	ear \$1.97	that hil₋	risk-	adjus	sted	total	retu	rn p	oten	t <b>ial.</b>
<b>2021</b> 1.71 2.30 .78	.37	5.12	lion	. App	roxim	ately	88%	of the	e expe	endi-	ities	are a	ippeal	ing, a	at the	rece	nt qu	iota-
Cal- QUARTERLY DIVIDENDS F	AID C=	5.45 Full	tures	s were	e used	to en	hance	e the s	safety	and	tion.	Divi	dend	grov	vth r	prospe	ects	look
endar Mar.31 Jun.30 Sep.30	Dec.31	Year	distr	ibutio	on an	d tra	insmi	ys na ssion	syste	gas ems.	is pe	egged	to u	nderp	erforn	n the	bro	ader
<b>2017</b> .45 .45 .45 .45	.485	1.84	Rega	rding	the r	new fis	scal y	ear, t	he bu	dget	mark	et ave	erages	duri:	ng the	next	six t	o 12
<b>2019</b> .525 .525 .525	.575	2.15	ıs ex It's	pecte also v	u to b vorth	e \$2.4 menti	oning	on—\$2 g that	2.5 bil man	non. age-	mont age).	ns (T	imelir	iess r	ank 4	r: Rel	ow A	ver-
<b>2020</b> .575 .575 .575 <b>2021</b> .625 .625 .625	.625 .68	2.35	men	t proj	ects to	otal ca	apital	spen	ding	from	Frede	erick I	L. Har	ris, Il	I Not	vembe	r 26,	2021
(A) Fiscal year ends Sept. 30th.	(B) Dilut	ed '17,	13¢. Nex	t egs. rpt	. due ear	ly Feb.	Aarch	(D) In mi	llions.	add du	to chan	ae in ch	Cor	npany's ck's Pric	Financia e Stabilit	l Strengt	h	A+ 95
(1¢); '18, \$1.43; '20, 17¢. Exclude	s discont	in- June	e, Sept., a	and Dec.	Div. reir	nvestmen	t plan.	outstandi	ng.			ə- 11 011	Pric	e Growt	h Persist	ence		70
aoa oporaciono. 11, 10%, 12, 21	ν, IU, 14	ישיוים ן, איי	οι σισσπ μ	anondod	piuri aval		- 1						Lai	yə r i	ourordUll			100

(16); '18, \$1.43; '20, 17c: Excludes discontinued operations: '11, 10c; '12, 27c; '13, 14c; Direct stock purchase plan avail. © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

#### Cause No. 45621

THE LARSE 4         Junction         Toget Field	<b>NEW JERSEY R</b>	ES. NYSE.	N.IR	R	ecent Rice	39.1	8 P/E RATI	₀ <b>17</b> .	3 (Traili Medi	ing: 14.8 an: 17.0	RELATIV P/E RATI	E 0.92	2 DIV'D YLD	3.7	% V		<b>De</b> 2	of 7
SAFETY         2         Construct         Co	TIMELINESS 4 Lowered 8/20/21	High: 22.0	25.2	25.1	23.8	32.1	34.1	38.9	45.4	51.8	51.2	44.7	44.4			Target	Price	Range
TECHACL, 33         TECHACL, 34	SAFETY 2 Lowered 4/17/20	LOW: 16.7	19.8	19.3	19.5	21.9	20.8	30.5	33.7	35.6	40.3	21.1	33.3			2024	2025	2026
Bit Dia - Laterial         Dia	TECHNICAL 3 Raised 11/19/21	divided by li	enas p sn nterest Rate se Strength	, –			0 for 1						-					-80
Debuting larger Proce Hange         Open Town         Open To	BETA 1.00 (1.00 = Market)	3-for-2 split 3/08 2-for-1 split 3/15	o ouongui				2-for-1						-					+60 +50
Dial Base Support         Dial Base Support <thdial base="" support<="" th="">         Dial Base Support</thdial>	18-Month Target Price Range	Options: Yes Shaded area indic	ates recess	sion			- U	րուրո	ր <sup>ուսո</sup>	h	····		linger Linger					+40
Description         Description         Description         Description         Description         Stot. RETWR 1021           Processor         100         100         Processor         Stot. RETWR 1021         Processor         Stot. RETWR 1021         Processor         Stot. RETWR 1021         Processor         Processor         Processor         Stot. RETWR 1021         Processor	\$20-\$44 \$32 (-20%)	•		n.,,,,,,,,,	թորութ	, լ,լ <sup>լ</sup> կսլ <sup>,</sup>			~				_					<sup>-30</sup>
Proc. Gal.         Proc. G	2024-26 PROJECTIONS		200 - 10					$\sim$			$\sim$							15
No.         No. <td>Ann'i Tota Price Gain Return</td> <td>••••••</td> <td>•••••</td> <td></td> <td></td> <td></td> <td></td> <td>••••••</td> <td></td> <td></td> <td>•••••</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td>	Ann'i Tota Price Gain Return	••••••	•••••					••••••			•••••							10
Institutional Docisione the state of the state	High 50 (+30%) 10% Low 35 (-10%) 2%				••••••		**••*			10 <sup>0</sup>					% TOT	DETIID	10/01	_7.5
bigs         cite         ass         ass </td <td>Institutional Decisions</td> <td></td> <td>••••</td> <td></td> <td>/* IUI.</td> <td>THIS V</td> <td>L ARITH.*</td> <td></td>	Institutional Decisions												••••		/* IUI.	THIS V	L ARITH.*	
Bitting roli         Bitting roli<	to Buy 132 105 102 to Soli 118 130 120	Percent 30 shares 20 -					1					1			1 yr. 3 yr	34.2	55.5 64.6	F
22005         22007 <th< td=""><td>Hid's(000) 71013 68468 68609</td><td>traded 10 -</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0000</td><td>5 yr.</td><td>29.8</td><td>104.1</td><td></td></th<>	Hid's(000) 71013 68468 68609	traded 10 -												0000	5 yr.	29.8	104.1	
131       137       122       138       135       137       138       136       137       138       130       138       130       138       130       138       135       120       138       138       137       128       138       138       120       138       138       120       138       138       128       138       138       128       138       1	<b>2005 2006 2007 2008</b> 3810 3981 3631 4537	31 17 32 05	36.30	2012	38.38	2014 44 40	32.09	2016	2017	33.24	2019	2020	2021	2022	© VALU Revenue	s per sh /	JB. LLC	24-26
asile         asile <t< td=""><td>1.31 1.37 1.22 1.81</td><td>1.58 1.63</td><td>1.70</td><td>1.86</td><td>1.93</td><td>2.73</td><td>2.52</td><td>2.46</td><td>2.68</td><td>3.72</td><td>2.99</td><td>3.30</td><td>3.50</td><td>3.55</td><td>"Cash Flo</td><td>ow" per s</td><td>sh</td><td>3.90</td></t<>	1.31 1.37 1.22 1.81	1.58 1.63	1.70	1.86	1.93	2.73	2.52	2.46	2.68	3.72	2.99	3.30	3.50	3.55	"Cash Flo	ow" per s	sh	3.90
21         21         21         23<	.88 .93 .78 1.35	1.20 1.23	1.29	1.36	1.37	2.08	1.78	1.61	1.73	2.72	1.96	2.07	2.20	2.30	Earnings	per sh <sup>B</sup>	oh C=	2.45
5.50         7.50         7.78         6.84         2.28         2.83         14.38         11.31         11.37         12.12         2.35         2.44         Boxt Numper and	.45 .46 .51 .50	.02 .00	1.13	1.26	1.33	1.52	3.76	4.15	3.80	4.39	5.83	4.65	4.10	4.10	Cap'l Spe	ending per	sn °∎ ersh	4.00
E206         E207         E208         E208 <th< td=""><td>5.30 7.50 7.75 8.64</td><td>8.29 8.81</td><td>9.36</td><td>9.80</td><td>10.65</td><td>11.48</td><td>12.99</td><td>13.58</td><td>14.33</td><td>16.18</td><td>17.37</td><td>19.26</td><td>20.35</td><td>21.40</td><td>Book Val</td><td>ue per sh</td><td></td><td>24.15</td></th<>	5.30 7.50 7.75 8.64	8.29 8.81	9.36	9.80	10.65	11.48	12.99	13.58	14.33	16.18	17.37	19.26	20.35	21.40	Book Val	ue per sh		24.15
as         as         bs         bs<	82.64 82.88 83.22 84.12 16.8 16.1 21.6 12.3	83.17 82.35	82.89	83.05	83.32	84.20	85.19	85.88 21.3	22.4	87.69	89.34 24.3	95.80	97.00 Bold fia	98.00 vres are	Common Ava Ann'	Shs Out	st′g⊏ io	100.00
13%         32%         33%         33%         34%         37%         25%         21%         25% <th25%< th=""> <th25%< th=""> <th25%< th=""></th25%<></th25%<></th25%<>	.89 .87 1.15 .74	.99 .95	1.05	1.07	.90	.62	.84	1.12	1.13	.84	1.29	.91	Value	Line	Relative I	P/E Ratio		.95
$ \begin{array}{c} Left has since (lumin be readed) \\ Left haves (lumin be readed) \\ Limit d, S43 and (lumin be readed) \\ Limit d, S43 million (lumin be readed) \\ Limit d,$	3.1% 3.2% 3.0% 3.3%	3.5% 3.7%	2.5%	3.5%	0005	0070	Avg Ann'	Div'd Yi	eld	3.7%								
LI Debt S221 6 mil. LT Interest 547.1 mil. microsoft S221 6 mil. LT interest 547.1 mil. microsoft S32 million and S45 and Laboratore in S. An and S45 and Laboratore in Laboratore in Laboratore in Laboratore in Laboratore in Laboratore in Laboratore	Total Debt \$2420.9 mill. Due in 5	<b>9/21</b> Yrs \$420.5 mill.	106.5	112.4	113.7	3738.1	2734.0	1380.9	149.4	2915.1	175.0	1953.7	2025	2250	Net Profit	s (\$mili) ' t (\$mill)		2460 245
3.5%         5.6%         5.5%         5.5%         5.5%         5.5%         5.5%         5.6% <th< td=""><td>LT Debt \$2221.6 mill. LT Intere</td><td><b>st</b> \$47.1 mill.</td><td>30.2%</td><td>7.1%</td><td>25.4%</td><td>30.2%</td><td>26.3%</td><td>15.5%</td><td>17.2%</td><td></td><td>NMF</td><td>5.0%</td><td>5.0%</td><td>5.0%</td><td>Income T</td><td>ax Rate</td><td></td><td>5.0%</td></th<>	LT Debt \$2221.6 mill. LT Intere	<b>st</b> \$47.1 mill.	30.2%	7.1%	25.4%	30.2%	26.3%	15.5%	17.2%		NMF	5.0%	5.0%	5.0%	Income T	ax Rate		5.0%
Build PH 50 tock None         Common Stock 80, 433, 901 shs.         64.5%         61.8%         61.8%         62.8% <th62.8%< th=""> <th62.8%< th=""> <th62.8%< <="" td=""><td>(LT interest earned: 5.0x; total inte</td><td>erest coverage:</td><td>3.5%</td><td>5.0%</td><td>3.6%</td><td>4.7%</td><td>5.6%</td><td>7.3%</td><td>6.6%</td><td>8.2%</td><td>6.7%</td><td>10.0%</td><td>10.6%</td><td>10.1%</td><td>Net Profit</td><td>: Margin m Debt B</td><td>atio</td><td>10.0%</td></th62.8%<></th62.8%<></th62.8%<>	(LT interest earned: 5.0x; total inte	erest coverage:	3.5%	5.0%	3.6%	4.7%	5.6%	7.3%	6.6%	8.2%	6.7%	10.0%	10.6%	10.1%	Net Profit	: Margin m Debt B	atio	10.0%
Oblig-Set3.0 mll         120.1         123.0	Pension Assets-9/20 \$404.4 mill.		64.5%	60.8%	63.4%	61.8%	56.8%	52.3%	55.4%	54.6%	50.2%	44.9%	46.0%	45.5%	Common	Equity R	atio	46.5%
Label in the control is the control	C Pfd Stock None	<b>blig.</b> \$643.0 mill.	1203.1	1339.0	1400.3	2230.1	2233.7	2599.6	3088.9	4104.2	4270	4595	Total Cap	ital (\$mil	I)	5215		
a cf ar 22/11MARKET CAP: SAS billion (Mill Cap)117%118%12% <td>Common Stock 06 433 001 che</td> <td></td> <td>6.4%</td> <td>5.6%</td> <td>6.0%</td> <td>6.0%</td> <td>Return or</td> <td>n Total Ca</td> <td>ap'l</td> <td>6.0%</td>	Common Stock 06 433 001 che		6.4%	5.6%	6.0%	6.0%	Return or	n Total Ca	ap'l	6.0%								
MARKE LAP: 33.8 billion (Min Cap)13/k12/k12/k12/k11/k12/k12/k11/k10/k11/k <th< td=""><td>as of 8/2/21</td><td>•</td><td>11.3%</td><td>10.6%</td><td>11.0%</td><td>11.0%</td><td>Return or</td><td>Shr. Eq</td><td>uity</td><td>10.0%</td></th<>	as of 8/2/21	•	11.3%	10.6%	11.0%	11.0%	Return or	Shr. Eq	uity	10.0%								
Community Cash Assets2.7117.04.75%5%5%60% </td <td>CUBBENT POSITION 2019</td> <td>Cap) 2020 6/30/21</td> <td>4.6%</td> <td>10.6%</td> <td>4.0%</td> <td>4.0%</td> <td>Return or Retained</td> <td>to Com Ec</td> <td>luity Ea</td> <td>10.0%</td>	CUBBENT POSITION 2019	Cap) 2020 6/30/21	4.6%	10.6%	4.0%	4.0%	Return or Retained	to Com Ec	luity Ea	10.0%								
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And control of any of the second of	Fix. Chg. Cov. 545%	545% 550%	We	look	for N	ew J	ersey	Rese	ource	s to	Reso	urces a	appea	rs we	ll posi	tione	d for	rev-
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ender 2017war.siJull.30Sep.30Dec.31rear year.pansion projects into service over the past year. On balance, these factors likely drove the bottom line about 6.5% higher, to \$2.20These good-quality shares are ranked to lag the broader market averages, and are trading inside our 3- to 5-year Target Price Range, suggesting limited upside potential.2019.2925.2925.2925.3125.3125.3125.325.325.325.325.325.257Company's Financial Strength Arity like and one projects into service over the past to \$2.20 a share.These good-quality shares are ranked to lag the broader market averages, and are trading inside our 3- to 5-year Target Price Range, suggesting limited upside potential.2021.3325.3325.3325.36251.04(A) Fiscal year ends Sept. 30th. (B) Diluted earnings. City. revenues and egs. may not sum to total due to rounding and hore not barre or widendifien. Neuro environting ender or our due to rounding and hore on on barre or widendifien. Neuro environting ender hore on on barre or suggesting to the origination of the origina	Cal- QUARTERLY DIVIDENDS F	AID C Full	the d	compa	ny bro	ought	nume	rous (	capita	l ex-	the q	uarter	ly pa	yout,	to \$0.5	3625.		
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This indice can ings, city, revenues and egs. (c) Dividence instructionary paid in early data, may not sum to total due to rounding and doctober.  Dividend reinvest- E(E) In millions, adjusted for splits. This is a subject of the s	<ul> <li>(A) Fiscal year ends Sept. 30th.</li> <li>(B) Diluted earnings. Qtly. revenues and egs.</li> <li>(C) Dividends historically paid in early Jan.,</li> <li>(D) Includes regulatory a million, \$5.51/share.</li> </ul>												5 Cor	npany's	Financial	Strengt	h	A+
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may not sum to total due to rounding and April, July, and October. Dividend reinvestment plan available. © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product

### Cause No. 45621

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21.28	22.01	22.52	23.71	24.88	26.08	26.70	27.23	27.77	28.12	28.47	29.71	25.85	26.41	28.42	29.05	33.85	37.10	Book Valu	le per sh	D D	45.30
17.0	15.9	16.7	18.1	15.2	17.0	19.0	20.92	19.4	27.20	27.43	26.9		26.6	30.47	25.0	Bold fig	ures are	Avg Ann'	P/E Rati	0	24.0
.91 3.7%	.86 3.7%	.89 3.1%	1.09	1.01	1.08	1.19	1.34	1.09	1.09 4.1%	1.19 4.0%	1.41	3.0%	1.44	1.65	1.30	Value estin	Line ates	Relative F	P/E Ratio	eld	1.35 2.6%
CAPITA	L STRU	CTURE a	s of 9/30	)/21	0.070	848.8	730.6	758.5	754.0	723.8	676.0	762.2	706.1	746.4	773.7	830	860	Revenues	s (\$mill)	ciu	995
Total De	bt \$131 \$916.0	5.8 mill. <b>E</b> mill. <b>L</b>	)ue in 5 \ T Interes	<b>′rs</b> \$360. st \$43.1 n	2 mill. nill.	63.9	59.9	60.5	58.7	53.7	58.9	d55.6	67.3	65.3	70.3	75.0	85.0	Net Profit	(\$mill)		100
(Total in	terest co	verage: 3	(1x)			40.4% 7.5%	8.2%	40.8%	7.8%	40.0% 7.4%	40.9% 8.7%	NMF	9.5%	8.8%	9.1%	9.0%	9.9%	Net Profit	Margin		21.0% 10.1%
Ponsior	Accoto	-12/20 \$	72 0 mill			47.3%	48.5%	47.6%	44.8%	42.5%	44.4%	47.9%	48.1%	48.2%	49.2%	49.0%	46.5%	Long-Terr	n Debt R	atio atio	43.0% 57.0%
Periota		-12/20 ψ	01 01	blig. \$598	5.2 mill.	1356.2	1424.7	1433.6	1389.0	1357.7	1529.8	1426.0	1468.9	1672.0	1748.8	2050	2150	Total Cap	ital (\$mil	l)	2550
Pid Sto		~~ ~~ ~				1893.9	1973.6	2062.9	2121.6	2182.7	2260.9	2255.0 NMF	2421.4	2438.9	2654.8	2640	2750	Net Plant	(\$mill)	m'l	3105
Commo as of 10	n Stock /27/21	30,730,2	74 share	S		8.9%	8.2%	8.1%	7.6%	6.9%	6.9%	NMF	8.8%	7.5%	7.9%	7.5%	7.5%	Return on	Shr. Eq	uity	4.0 <i>%</i> 7.0%
MARKE	T CAP \$	1.4 billio	n (Mid C	ap)		8.9%	8.2%	8.1%	7.6%	6.9%	6.9%	NMF NMF	8.8%	7.5%	7.9%	7.5%	7.5%	Return on Retained	Com Eq	uity a	7.0%
CURRE		ITION	2019	2020	9/30/21	73%	80%	81%	85%	92%	87%	NMF	76%	82%	79%	77%	72%	All Div'ds	to Net P	rof	63%
Cash A Other	ssets	2	9.6 84.1	30.2 293.0	19.5 338.7	BUSIN	ESS: No	rthwest N	latural Ho	olding Co	o. distribu	utes natu	iral gas	Pipeline	system	Owns	local un	derground	storage	e. Rev.	break-
Current	Assets	2	93.7	323.2	358.2	tomers	) and in a	southwes	t Washing	gton stat	e. Princip	al cities	served:	portatio	n, 41%.	Employs	1,167.	BlackRock	k Inc. o	wns 16	.4% of
Debt Du Other	le	2	24.2	399.9 129.3	399.8 237.2	tion: 3.	a and E 7 mill. (7	ugene, C 7% in OF	R; vanco R). Compa	any buys	gas sup	ce area ply from	popula- Canadi-	snares; David H	State	on. Inc.:	.4%; Off. Oregon.	Address: 2	220 NW	2nd Ave	e., Port-
Current	Liab.	4	82.2	627.1	734.9	an an	d U.S. p	oroducers	has tra	nsportat	ion rights	s on No	orthwest	land, O	R 97209.	Tel.: 503	3-226-42	11. Interne	t: www.n	wnatura	l.com.
ANNUA	L RATE	S Past	Pa	st Est'd	1'18-'20	Sinc	e ou thwe	ir Au st Na	igust tural	revi	ew, s ding	co. 1	s or have	over- ough	year t to k	adva be dri	nce o ven b	or aim oy top-	line	9%. growi	th of
of change Revenu	(per sh) es	<b>10 Yrs</b> . -3.5	5 Yr % -2.	rs. to 0%	' <b>24-'26</b> 4.0%	stag	ed a	corre	ection	I. In	fact,	the st	tock's	about of th	t 7.5%	, to \$	830 n	nillion.	A go	od po	rtion
"Cash F Earning	Flow" Is	.5 -1.5	% 1. % 1.	5% 5%	4.0% 5.5%	ly a	reflec	tion o	f the	challe	enging	g oper	ating	the f	ourth	quar	ter, o	wing t	o the	seas	sonal
Book V	ds alue	1.5 1.0	% . %		.5% 8.5%	envi Mea	ronme n <b>whi</b>	ent ove le. th	er the e reg	past ; ional	year. disti	ribute	or of	natu: the i	re of rate ca	NWN ases i	l's bu n Ore	siness. egon a	Whand W	at's r 'ashir	nore, gton
Cal-	QUAR Mar 31	TERLY RE	VENUES (	\$ mill.)	Full	natı	iral	gas	po	osted	lo	wer-t	han-	have	set in	ncreas	es th	at com	e in o	over	time,
2018	264.7	124.6	91.2	226.7	706.1	resu	ectea ılts.	Rever	ues	e <b>r-pe</b> adva	nced	<b>nna</b> 8.7%	, to	shou	ld allo	gurs w the	e comp	pany to	prosp focu	s on g	geog-
2019 2020	285.4 285.2	123.4 135.0	90.3 93.3	247.3 260.2	746.4 773.7	\$101	.4 mi	llion,	bolste	red b	y new	v cust	omer	raph:	ic exp	ansior ncial	1 and	system	upgi	rades	Tood
2021	315.9	148.9	101.4	263.8	830	case	incre	ases i	n Ore	gon. 1	in fact	t, the	com-	shap	e. Al	thoug	h cas	h rese	rves	fell a	bout
Cal-	EA	RNINGS F	ER SHAR	200 E A	Full	pany mete	7 has ers ov	added er the	almo e last	st 12, vear.	,000 n That	atura said	l gas	35% at \$1	so far 9.5 m	this illion.	year, . Mea	that cı nwhile	ushioi	n stil. long-	l sits term
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	top	line w	vas st	ill fair	ly be	low o	ur ou	tlook	debt	load	ticked	6.5%	highe	er, to	\$916	mil-
2010	1.50	.07	d.61	1.20	2.33	or a	all e	expens	es ir	ne pr	sed 1	111ty 1 180	basis	is act	tually	on th	e low	er side	for t	his ir	ndus-
2020 2021	1.58 1.94	d.17 d.02	d.61 d.67	1.50 <b>1.25</b>	2.30 2.50	poin	ts wh	en vie e prim	wed a	s a pe river	ercent	age of	f rev-	try. 1	Finally st inc	y, the	board	l recen	tly a rterly	pprov divi	ved a dend
2022	1.96	.01	d.57	1.30	2.70	oper	ating	and n	nainte	nance	item	s. All	told,	of jus	st und	er 1%	, to $\$$	0.483 p	er sh	are.	
Cal- endar	Mar.31	Jun.30	Sep.30	Dec.31	Full Year	thes near	e fac ly 109	tors % deei	drove ber int	bot to the	tom-li red.	ne l toad	osses eficit	Thes broa	e sh der 1	ares narke	are et av	ranke erages	a to s in	lag the o	the com-
2017	.47	.47	.47	.4725	1.88	of \$0	).67 a	share	we L	ovo	aheve	da	dime	ing	year.	That	said	, recei	nt vo	latilit	y in
2019	.475	.475	.475	.4775	1.90	off	our 2	021 s	hare-1	net e	stima	te, bi	ring-	price	leav	anu t es NV	WN v	with si	zable	reco	overy
2020 2021	.4775 .48	.4775 .48	.4775 .48	.48 .483	1.91	<b>ing</b>   look	that f	f <b>igure</b> d still	to \$2	2.50.	Our re a hes	evised althv	l out- vear-	poter Brva	ntial a	nd a s ong	solid d	lividen Nove	d yiel	ld. 26. 5	2021
(A) Dilute	ed earnir	ngs per s	hare. Exc	cludes no	on- (B)	Dividends	historica	ally paid in	n mid-Feb	oruary,	(D) Includ	des intan	gibles. In	2020: \$6	9.2 millio	n, Cor	npany's	Financial	Strengt	_ <i>,</i>	A
recurring \$0.06; M	items: ' ay not	06, (\$0.0 sum due	6); '08, ( to rour	\$0.03); '0 nding. Ne	09, May ext ∎ Di	, August, vidend re	and Nov investme	rember. nt plan ar	vailable.		\$2.26/sha	are.				Sto Pric	ck's Pric ce Growt	e Stability	/ ence		85 35
earnings	report di	ue in earl	y Feb.		(C)	In millions	S.									Ear	nings Pr	edictabilit	ty		10

Stock, Way not sum due to rounding. Next Visidend reinvestment plan available.
 (C) In millions.
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Attachment LDC-3 Cause No. 45621

ONE GAS, INC. NYSE-	OGS	RECENT PRICE	68.97	P/E Ratio	₀ <b>17.</b>	4 (Traili Media	ng: 18.1) an: NMF)	RELATIVE P/E RATIO	<b>0.9</b>	2 DIV'D YLD	3.6	% V		0. 4. <b>2</b> e 4	$\frac{5021}{\text{of }7}$
TIMELINESS 4 Lowered 6/11/21		High:	44.3 31 9	51.8 38.9	67.4 48.0	79.5	87.8	96.7 75.8	97.0 63.7	81.9		-	Target	Price	Range
SAFETY 2 New 6/2/17 LEGE	ENDS	7	01.0	00.0	10.0		UL.L	70.0	00.7	02.0			2024	2025	2026
TECHNICAL 4 Raised 11/26/21	divided by Interest Rate Relative Price Strength														+200 +160
BETA .80 (1.00 = Market) Options	: Yes d area indicates recession														Γ
18-Month Target Price Range		_						لالتسن	կես	1	_				$\pm^{100}_{80}$
Low-High Midpoint (% to Mid)						11 <sup>1111111</sup>	հոստ		1,000	իքուրի գ	-				60
2024-26 PBOJECTIONS				կորդիլ		$\sim$			/						+50 40
Ann'i Total			հորքը,		$\sim$	[		$\sim$							30
High 145 (+110%) 23%					•			·.•.•••••							_20
Institutional Decisions							•••••		· · · .			8 TOT.		10/21	
4Q2020 1Q2021 2Q2021 Perce	nt 21		••••••••••	·••••						····		l vr.	0.5	INDEX 55.5	-
to Sell 163 144 140 traded	s 14 d 7			hillin		llalaad		humhi				3 yr.	-8.2 24 1	64.6 104 1	F
The shares of ONE Gas, Inc. beg	an trad- 2011 20	012 2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALU	E LINE PU	IB. LLC	24-26
ing "regular-way" on the New Yor	k Stock		34.92	29.62	27.30	29.43	31.08	31.32	28.78	32.05	34.20	Revenue	s per sh		43.00
Exchange on February 3, 2014. If	hat hap		4.52	4.82	5.43	5.96	6.32	6.96	7.36	7.75	8.20	"Cash Flo	ow" per s	h	9.75
ONEOK's natural gas distribution on	peration.		2.07	2.24	2.05	1.68	1.84	2.00	2.16	2.32	2.48	Div'ds De	per sn ~ ecl'd per s	sh B∎	2.95
Regarding the details of the spinoff,	on Jan		5.70	5.63	5.91	6.81	7.50	7.91	8.87	9.00	9.20	Cap'l Spe	ending pe	rsh	9.75
uary 31, 2014, ONEOK distribut	ed one		34.45	35.24	36.12	37.47	38.86	40.35	42.01	46.05	49.50	Book Val	ue per sh		74.40
shares of ONFOK common stock	held by		52.08	52.26 19.8	52.28 22.7	23.5	23.1	25.3	21.7	53.50 Bold fig	53.50		Shs Outs	stg ⊂ o	25.0
ONEOK shareholders of record as	s of the		.94	1.00	1.19	1.18	1.25	1.35	1.11	Value	Line	Relative I	P/E Ratio	•	1.40
close of business on January 21. It should          2.3%       2.7%       2.3%       2.5%       2.3%       2.7%       estimates         close of business on January 21. It should          2.3%       2.7%       2.3%       2.5%       2.3%       2.7%       estimates         be mentioned that ONEOK did not retain any ownership interest in the new company.         1818.9       1547.7       1427.2       1539.6       1633.7       1652.7       196.4       205       215         CAPITAL STRUCTURE as of 9/30/21         38.4%       38.0%       37.8%       36.4%       23.7%       17.5%       17.0%       17.5%         Total Debt \$4019.1 mill. Due in 5 Yrs \$1020.0 mill.         6.0%       7.7%       9.8%       10.4%       10.5%       11.3%       12.0%       11.7%         LT Debt \$3683.1 mill.       LT Interest \$150.0 mill.         6.0%       38.7%       37.7%       41.5%       61.5%       60.6%															2.4%
any ownership interest in the new co	mpany		1818.9	1547.7	1427.2	1539.6	1633.7	1652.7	1530.3	1715	1830	Revenue	s (\$mill)		2450
CAPITAL STRUCTURE as of 9/30/21			109.8	119.0	37.8%	159.9	23.7%	186./	196.4	205	215	Net Profit	t (\$mill) av Rate		285
Total Debt \$4019.1 mill. Due in 5 Yrs \$102	20.0 mill.		6.0%	7.7%	9.8%	10.4%	10.5%	11.3%	12.8%	12.0%	11.7%	Net Profit	Margin		11.6%
LT Debt \$3683.1 mill. LT Interest \$150.0	0 mill		40.1%	39.5%	38.7%	37.8%	38.6%	37.7%	41.5%	61.5%	60.0%	Long-Ter	m Debt R	atio	47.0%
coverage: 4.8x)			59.9%	60.5%	61.3%	62.2%	61.4%	62.3%	58.5%	38.5%	40.0%	Common Total Car	Equity R	atio	53.0%
Leases, Uncapitalized Annual rentals \$7.9 Pfd Stock None	9 mill		2995.3	3042.9	3080.7	4007.6	4283.7	4565.2	4867.1	5150	5380	Net Plant	itai (şmii (\$mill)	)	8000 6000
Pension Assets-12/20 \$987.6 mill.			4.4%	4.7%	5.2%	5.8%	5.9%	6.4%	6.0%	5.0%	5.0%	Return or	Total Ca	ıp'l	5.0%
Common Stock 53,587,508 shs.		8.8%	8.8%	8.5%	8.0%	Return or	n Shr. Equ	uity	6.5%						
as of 10/25/21 MARKET CAP: \$3.7 billion (Mid Cap)	3.0%	Retained	to Com E	q	3.0%										
Leases, Uncapitalized Annual rentals \$7.9 mill.         2995.3       3042.9       3080.7       3153.5       3328.1       3415.5       8415.7       6400       6620       Total         Pd Stock None         3293.7       3511.9       3731.6       4007.6       4283.7       4565.2       4867.1       5150       5380       Net P         Pension Assets-12/20 \$987.6 mill.          4.4%       4.7%       5.2%       5.8%       5.9%       6.4%       6.0%       5.0%       5.0%       Retur         Common Stock 53,587,508 shs.         6.1%       6.5%       7.4%       8.2%       8.4%       8.8%       8.5%       8.0%       Retur         MARKET CAP: \$3.7 billion (Mid Cap)         4.0%       53%       52%       55%       56%       56%       56%       61%       6.2%       All D         (SMILL)       2019       2020       9/30/21         -40%       53%       55%       56%       56%       56%       56%       61%       6.2%       All D       6.5%       61%       6.5%       56%       56%       56%       56%       56%       6.5%															59%
.1 Debt \$3683.1 mill.       LT Interest \$150.0 mill. <t< td=""><td>mploy-</td></t<>														mploy-	
'ension Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mill.         4.4%       4.7%       5.2%       5.8%       5.9%       6.4%       6.0%       5.0%       Return on Total Cap'l       5.0%         'ommon Stock 53,587,508 shs. is of 10/25/21         6.1%       6.5%       7.4%       8.2%       8.4%       8.8%       8.5%       8.0%       Return on Total Cap'l       5.0%         'uARKET CAP: \$3.7 billion (Mid Cap)          4.4%       3.5%       5.5%       56%       56%       61%       6.2%       8.4%       8.8%       8.5%       8.0%       Return on Com Equity       6.5%         'uARKET CAP: \$3.7 billion (Mid Cap)          4.4%       53%       52%       55%       56%       56%       61%       62%       All Div'ds to Net Prof       6.5%         'URENT POSITION       2019       2020       9/30/21          40%       53%       52%       55%       56%       56%       61%       62%       All Div'ds to Net Prof         'Subscience       17.9       8.0       6.5       74.64       53%       52%       55%       56%       56%       61%       62%       All Div'ds to														rs and	
Accts Payable 120.5 152.3	127.5 ice. The c	ompany purcha	sed 153 E	Bcf of na	atural gas	supply i	n 2020,	directors	s, 1.9%	(4/21 F	roxy). C	EO: Rob	ert S. I	McAnna	lly. In-
Debt Due         516.5         418.2           Other         235.7         226.6	256.6 (fiscal 202	0): transportati	on, 58.3%	; reside	es delive ntial, 31.	rea by cl 7%; comi	ustomer mercial	homa 74	4103. Te	noma. A I.: 918-94	aaress:   7-7000.	Internet: w	inn Stree /ww.oneg	as.com	, Окіа-
Current Liab. 872.7 797.1	720.1 600% <b>ONE</b>	Gas appe	ars o	n tra	ck to	o regi	ster	Neve	rthele	ess. we	e belie	eve tha	t the	comr	bany
ANNUAL RATES Past Past Est	d'18-'20 highe	r earnin	gs in	202	1. D	uring	the	will k	be abl	e to h	andily	y meet	its va	ariou	s ob-
of change (per sh) 10 Yrs. 5 Yrs. to	6.0%   first n	ine montl	ns, sha n the	vear	et of -oarli	\$2.73 ar tote	was	ligati This	ons fo	or som	e tim	e.	nditu	Iros	in-
"Cash Flow" 8.0%	6.0% \$2.59.	This was	broug	ht ab	out pa	artiall	y by	clud	ing	asset	rei	moval	COS	sts,	are
Dividends 14.5%	7.0% benefit	ts from	new	rates.	, prii	narily	/ in	antic	cipate	ed to	be a	pprox	timat	ely \$	5 <b>40</b>
	Texas	ustomer a	growth	i. Ar in	Oklał	r posi ioma	and	the 2	<b>on.</b> ( 020 f	igure	of \$5	12.2 m	illion.	) Arc	bove
endar Mar.31 Jun.30 Sep.30 Dec.3	1 Year Texas.	The effe	ctive i	ncom	e tax	rate	was	70%	of the	budg	et is	devote	d to s	ysten	n in-
<b>2018</b> 638.5 292.5 238.3 464.4	1633.7 lower,	as well.	lf t d diam	here	are	no m	najor urth	tegrit	ty and	d pipe	eline i	replace	ment	proje	ects.
<b>2019</b> 661.0 290.6 248.6 452.5 <b>2020</b> 528.2 273.3 244.6 484.2	1652.7 pander 1530.3 guarte	r, we exp	ect fu	ll-vea	r pro	fits to	) in-	spend	ding	to b	e \$3	billio	$n^{(1)}$	540	mil-
<b>2021</b> 625.3 315.6 273.9 <b>500.2</b>	1715 crease	almost 5	%, to	\$3.85	5 a sł	nare,	com-	lion_	-\$640	millio	on ani	nually	) betw	een 2	2021
2022 650 355 310 515	1830 pared	to the 202	20 tally	y of \$	33.68.	Assui	ming	and 2	2025, of ca	with	rough	ly the	same	perc	ent-
Cal- EARNINGS PER SHARE A endar Mar.31 Jun.30 Sep.30 Dec.3	1 Full $1010101$	share net	might	adva	nce at	t a sin	nilar	prese	ently.	pitai	anoca	iteu t	0 101	ere i	15
<b>2018</b> 1.72 .39 .31 .83	3.25 percen	tage rate,	to \$4.	05.			<b>D</b>	Thes	e go	od-qu	ality	shar	es sh	ould	be
<b>2019</b> 1.76 .46 .33 .96	3.51 <b>The F</b>	the thir	Stren	igth	ratin	g is l ded	B++. cash	of in	teres	st to rith a	total long	retur torm	n-foc bont	used	in- nital
<b>2020</b> 1.72 .40 .39 1.09 <b>2021</b> 1.79 .56 .38 <b>1.12</b>	3.85 and e	quivalent	s were	e \$6.	5  mi	llion,	and	appre	eciatio	n po	tentia	lout	to 2	024-2	2026
2022 1.85 .62 .45 1.13	4.05 cash	flows we	erede	ecent.	. Fur	therm	nore,	looks	appe	aling,	when	stack	ed ag	ainst	the
Cal- QUARTERLY DIVIDENDS PAID B	Full there y	was $664$	millior	1 ava	ilable	(out (	ot \$1	Value	e <i>Lin</i> hv di	e mee viden	d gro	Consi wth r	der, a	also, cts	the But
2017 42 42 42 42 42	1 fear gram.	ONE Gas	also p	osses	sses a	\$1 bi	llion	right	now,	the e	equity	is pe	gged t	to un	der-
2018 .46 .46 .46 .46	1.84 revolvi	ing cred	it fac	ility	mat	uring	in	perfo	rm tĺ	ne bro	ader	mark	et ave	erage	s in
<b>2019</b> .50 .50 .50 .50 .50	2.00 March	, 2026. H nher perio	oweve	r, at g-ter	tne e m del	end of	the	the n 4· Ro	ext si low A	x to l verage	2 mor	ntns ('l	imelii	ness 1	rank
<b>2020</b> .54 .54 .54 .54 .54 .54 .54 .58 .58 .58 .58 .58 .58 .58 .58 .58 .58	$\begin{array}{cccccccccccccccccccccccccccccccccccc$													2021	
(A) Diluted EPS. Excludes nonrecurring g	2021       .58       .58       .58       .58       the heavy side (61.4% of total capital). Frederick L. Harris, III November 26, 202         A) Diluted EPS. Excludes nonrecurring gain:       (B) Dividends historically paid in early March,       Company's Financial Strength       B++												B++		
2017, \$0.06. Next earnings report due e Feb. Quarterly EPS for 2018 don't add up	arly June, Sept., and due plan. Direct stock	Dec. ■ Divider Divider Dec.	nd reinves n.	tment						Sto Pric	ck's Pric ce Growt	e Stabilit h Persist	y ence		95 60

plan. Direct stock purchase plan. (C) In millions. to rounding. © 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.

Price Growth Persistence Earnings Predictability 60 100

### Cause No. 45621

SOL	JTH	JER	SEY	' IND	<b>S</b> . NY	/SE-sji	R	ecent Rice	24.5	<b>4</b>   P/E RATI	₀ <b>14</b> .	5 (Traili Medi	ing: 14.2) an: 19.0)	RELATIV P/e rati	E 0.7	7 DIV'D YLD	5.3	% V		e 5	of 7
TIMELIN	IESS 3	Raised 1	0/29/21	High:	27.1	29.0	29.0	31.1	30.6	30.4 21.2	34.8	38.4	36.7	34.5	33.4	29.2		1.5	Target	Price	Range
SAFETY	3	Lowered	8/28/20	LEGE	NDS 70 x Divide	ends p sh		20.0	20.0	21.2	22.1	00.0	20.0	20.0	10.2	20.0			2024	2025	2026
TECHNI	CAL 5	Lowered	11/12/21	div Re	vided by In elative Pric	terest Rate e Strength															+80 +60
18-Mon	th Targ	et Price	Range	Options: Shaded	Yes <i>area indic</i>	ates reces	sion			2-for-1						**	•.				$\pm \frac{50}{40}$
Low-Hig	h Mid	point (%	to Mid)							H		1 <sup>111</sup> .111				1					
\$9-\$34	\$22	(-10%)		••	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,						μ				<sup> </sup>	1 <sup>11</sup> "  C					+25 +20
202	4-26 PR	OJECTIC	DNS	سر بالم			· · · · · · · · · · ·														+15
High	7rice 50 (+	Gain 105%)	Return 22%					····.	**********	••••••	· · · · · · · · · · · ·										+10
Institut	ional E	⊦45%) Decisioı	13% ns	1											i			% тот		N 10/21	- 1.5
to Buy	4Q2020 110	1Q2021 141	202021 132	Percent	t 15 -					1						miniei		1 yr.	sтоск 23.9	INDEX 55.5	F
to Sell Hid's(000)	91 110377	89 102245	106 105367	traded	5													3 yr. 5 yr.	-13.6 -7.9	64.6 104.1	-
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALI	JE LINE PI	JB. LLC	24-26
15.89	15.88	1.60	1.74	14.19	2.10	2.23	2.34	2.48	2.67	2.42	2.67	2.79	2.91	2.56	3.32	2.75	2.95	"Cash F	s per sn ow" per s	sh	20.85 4.15
.86	1.23	1.05	1.14	1.19	1.35	1.45	1.52	1.52	1.57	1.44	1.34	1.23	1.38	1.12	1.68	1.65	1.80	Earnings	s per sh 4	h B =	2.70
1.60	1.26	.94	1.04	1.83	2.79	3.20	4.01	4.84	5.01	4.87	3.50	3.43	3.99	5.46	4.84	4.90	5.65	Cap'l Sp	ending per	ersh	7.50
6.75 57.96	7.55	8.12	8.67 59.46	9.12	9.54	10.33	11.63	12.64	13.65	14.62	16.22	14.99	14.82	15.41	16.51	16.20	16.95	Book Va	lue per sh	l C sťa D	20.20
16.6	11.9	17.2	15.9	15.0	16.8	18.4	16.9	18.9	18.0	17.9	21.7	27.9	22.6	28.3	14.9	Bold fig	ures are	Avg Ann	'I P/E Rat	io	16.0
.88 3.0%	.64         .91         .96         1.00         1.07         1.15         1.08         1.06         .95         .90         1.14         1.40         1.22         1.51         .77           3.2%         2.8%         3.1%         3.4%         3.0%         2.8%         3.2%         3.1%         3.4%         3.9%         3.6%         3.2%         3.6%         3.2%         4.8%           AL STRUCTURE as of 9/30/21         828.6         706.3         731.4         887.0         959.6         1036.5         1243.1         1641.3         1628.6         1541.4           Debt \$3404.4 mill. Due in 5 Yrs \$380.1 mill.         87.0         93.3         97.1         104.0         99.0         102.8         98.1         116.2         103.0         163.0           22.4%         10.8%           5.9%         42.0%           9.9%           10.5%         13.2%         13.3%         11.7%         10.3%         9.9%         7.9%         7.1%         6.3%         10.6%															Value estim	Line ates	Relative Avg Ann	P/E Ratio 'I Div'd Yi	eld	.90 3.5%
CAPITA	3.2%         2.8%         3.1%         3.4%         3.0%         3.2%         3.1%         3.4%         3.9%         3.6%         3.2%         3.6%         3.7%         4.8%           AL STRUCTURE as of 9/30/21         828.6         706.3         731.4         887.0         959.6         1036.5         1243.1         1641.3         1628.6         1541.4           Pebt \$3404.4 mill. Due in 5 Yrs \$380.1 mill.         87.0         93.3         97.1         104.0         99.0         102.8         98.1         116.2         103.0         163.0           at \$3195.9 mill.         LT Interest \$112.0 mill.         87.0         93.3         97.1         104.0         99.0         102.8         98.1         116.2         103.0         163.0           at \$4,0 \$10.8 %           5.9%         42.0%           9.9%           10.5%         13.2%         13.3%         11.7%         10.3%         9.9%         7.9%         7.1%         6.3%         10.6%           s, Uncapitalized Annual rentals \$1.2 mill.         40.5%         45.0%         45.0%         49.2%         50.8%         61.5%         51.5%         52.2%         62.6%															1875	2000	Revenue	s (\$mill)		2500
Total De LT Debt	Baseline         Baseline															185	200	Net Prof	t (\$mill)		320
	CAPIIAL SIRUCTURE as of 9/30/21         828.6         706.3         731.4         887.0         959.6         1036.5           Total Debt \$3404.4 mill. Due in 5 Yrs \$380.1 mill.         828.6         706.3         731.4         887.0         959.6         1036.5           LT Debt \$3195.9 mill.         LT Interest \$112.0 mill.         22.4%         10.8%         -         -         -         5.9%         42.0%           10.5%         13.2%         13.3%         11.7%         10.3%         9.9%           Leases, Uncapitalized Annual rentals \$1.2 mill.         95.6         55.0%         45.1%         48.0%         49.2%         38.5%           Pension Assets-12/20 \$331 mill.         Oblig. \$481.8 mill.         1048.3         1337.6         1507.4         179.9         2043.9         2097.2           Pfd Stock None         1382.4         1582.4         1587.4         1384.1         244.4         2693.8														10.6%	9.9%	10.0%	Net Profi	t Margin		12.8%
Leases,	otal Uebt \$3404.4 mill. Due in 5 Yrs \$380.1 mill.           87.0         93.3         97.1         104.0         99.0         102.8         98.1         116.2           22.4%         10.8%         -         -         5.9%         42.0%         -         -           22.4%         10.8%         -         -         5.9%         42.0%         -         -           10.5%         13.2%         13.3%         11.7%         10.3%         9.9%         7.9%         7.1%           2ension Assets-12/20 \$331 mill.         Oblig. \$481.8 mill.         40.5%         45.0%         51.5%         51.5%         37.6%         4           74 Stock None         Oblig. \$481.8 mill.         1048.3         1337.6         1507.4         1791.9         2043.9         2070.2         3653.5         4           20mmon Stock 112 448 495 shs         8.9%         7.4%         6.8%         6.4%         5.4%         5.4%         5.4%         5.4%         5.4%         5.4%         5.4%         5.4%         5.4%         5.4%         4.4%															64.0% 36.0%	64.0% 36.0%	Long-Ter	m Debt R	atio	62.5% 37.5%
Periote	Dat \$3195.9 mill.       LT Interest \$112.0 mill.       22.4%       10.8%       -       -       5.9%       42.0%       -       -       -       9.9%         s, Uncapitalized Annual rentals \$1.2 mill.       22.4%       10.8%       -       -       -       5.9%       42.0%       -       -       -       9.9%         10.5%       13.2%       13.3%       11.7%       10.3%       9.9%       7.9%       7.1%       6.3%       10.6%         an Assets-12/20 \$331 mill.       40.5%       45.0%       45.1%       48.0%       49.2%       38.5%       48.5%       62.4%       59.2%       62.6%         59.5%       55.0%       54.9%       52.0%       50.8%       61.5%       51.5%       37.6%       40.8%       37.4%         ock None       1048.3       1337.6       1507.4       179.9       2043.9       2097.2       2315.4       3373.9       3493.9       4437.3         non Stock 112,448,495 shs.       1578.0       1859.1       214.1       2448.1       2623.8       2700.2       3653.5       4073.5       4464.2         8.9%       7.4%       6.8%       6.4%       5.4%       5.1%       4.4%       4.0%       4.8%         11/1/21 </td <td>5075</td> <td>5400</td> <td>Total Ca</td> <td>pital (\$mil</td> <td>l)</td> <td>6425</td>															5075	5400	Total Ca	pital (\$mil	l)	6425
Pid Sto	jes, Uncapitalized Annual rentals \$1.2 mill.         10.5%         13.2%         13.3%         11.7%         10.3%         9.9%         7.9%         7.1%         6.3%         10.6%         9.9%         1           sion Assets-12/20 \$331 mill.         0blig. \$481.8 mill.         40.5%         45.0%         45.1%         48.0%         49.2%         38.5%         48.5%         62.4%         59.2%         62.6%         64.0%         6           Stock None         0blig. \$481.8 mill.         1048.3         1337.6         1507.4         1791.9         2043.9         2097.2         2315.4         337.9         3493.9         4437.3         5075           1352.4         1578.0         1859.1         2134.1         2448.1         2623.8         2700.2         365.5         407.5         4464.2         4850           11/1/21         13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%         10.0%         1           13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%         10.0%         1           13.9%         12.7%         11.7%         11.2%															5200	Net Plan	t (\$mill) n Total Ca	an'l	6000	
Commo as of 11	s, Uncapitalized Annual rentals \$1.2 mill. on Assets-12/20 \$331 mill.       40.5%       45.0%       45.1%       48.0%       49.2%       38.5%       48.5%       62.4%       59.2%       62.6%       6         on Assets-12/20 \$331 mill. ock None       0blig. \$481.8 mill.       59.5%       55.0%       54.9%       52.0%       50.8%       61.5%       51.5%       37.6%       40.8%       37.4%       3         non Stock 112,448,495 shs. 11///21       1337.6       1859.1       2134.1       2448.1       2623.8       2700.2       3653.5       4073.5       4464.2         EXE CAP: \$2.8 billion (Mid Cap)       6.7%       5.8%       4.8%       4.3%       2.4%       5.4%       5.1%       4.4%       4.0%       4.8%       1         EXET CAP: \$2.8 billion (Mid Cap)       6.7%       5.8%       4.8%       4.3%       2.8%       1.6%       9.2%       7.2%       9.8%       1         EXET CAP: \$2.8 billion (Mid Cap)       6.7%       5.8%       4.8%       4.3%       2.8%       1.6%       9.9%       7.2%       9.8%       1         6.7%       5.8%       4.8%       4.3%       2.8%       1.6%       9.2%       7.2%       9.8%       1         6.7%       5.8%       4.8% <t< td=""><td>10.0%</td><td>10.5%</td><td>Return o</td><td>n Shr. Eq</td><td>uity</td><td>13.0%</td></t<>															10.0%	10.5%	Return o	n Shr. Eq	uity	13.0%
MARKE	Drin Assets-12/20 \$331 mill.         59.5%         55.0%         94.9%         52.0%         06.8%         61.5%         51.5%         37.4%         37.4%           Ock None         1048.3         1337.6         1507.4         1791.9         2043.9         2097.2         2315.4         3373.9         3493.9         4437.3           ock None         1352.4         1578.0         1859.1         2134.1         2623.8         2700.2         3653.5         4073.5         4464.2           ion Stock 112,448,495 shs.         13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%           i11/1/21         13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%           EET CAP: \$2.8 billion (Mid Cap)         6.7%         5.8%         4.8%         4.3%         2.8%         1.6%         .9%         7.2%         9.8%           ENT POSITION 2019         2020         9/30/21         52%         55%         59%         61%         71%         80%         89%         82%         104%         70%           IILL)         6.4         34.0         25.4 </td <td>10.0%</td> <td>10.5%</td> <td>Return o</td> <td>n Com Ec</td> <td>uity a</td> <td>13.0%</td>															10.0%	10.5%	Return o	n Com Ec	uity a	13.0%
	ck None         1352.4         1578.0         1859.1         2134.1         2448.1         2623.8         2700.2         3653.5         4073.5         4464.2           yn Stock 112,448,495 shs. //1/21         13.9%         7.4%         6.8%         6.4%         5.4%         5.1%         4.4%         4.0%         4.8%           13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%           13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%           13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%           13.9%         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%           ISS 5         5.8%         4.8%         4.3%         2.8%         1.6%         .9%         1.7%         NMF         2.9%           ILL)         ssets         6.4         34.0         25.4         BUSINESS: South Jersey Industries, Inc. is a holding company.         Energy, South         Has about 1,1															76%	76%	All Div'd	s to Net P	rof	56%
Cash A	LT Debt \$3195.9 mill.         LT Interest \$112.0 mill.         22.4%         10.8%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%         10.0%         10.0%         Mark Tar Rate           Common Stock 112,448,495 shs. as of 11/1/21         0.018.3         1337.6         1507.4         1791.9         2043.9         2097.2         2315.4														SJI Mid	stream.					
Oblig. \$481.8 mill.         1048.3         1337.6         1507.4         1791.9         2043.9         2097.2         2315.4         3373.9         3493.9         4437.3         5075         5400         Total Capital (\$mill)           Common Stock 112,448,495 shs. as of 11/1/21         1352.4         1578.0         1859.1         2134.1         2448.1         2623.8         2700.2         3653.5         4073.5         4464.2         4850         5200         Net Plant (\$mill)           MARKET CAP: \$2.8 billion (Mid Cap)         8.9%         7.4%         6.8%         6.4%         5.4%         5.1%         4.4%         4.0%         4.8%         5.0%         6.0%         6.0%         10.0%         10.5%         Return on Total Cap'l           MARKET CAP: \$2.8 billion (Mid Cap)         12.7%         11.7%         11.2%         9.5%         8.0%         8.2%         9.2%         7.2%         9.8%         10.0%         10.5%         Return on Shr. Equity           (SMILL)         2020         9/30/21         5.8%         4.8%         4.3%         2.8%         1.6%         9%         1.7%         NMF         2.9%         2.5%         2.5%         2.5%         2.5%         55%         59%         61%         71%         80%         82%															The Va	inguard					
Debt Du	le	13	316.6	739.2 167.8	208.6 309.2	Gas ar	and ele Id Elkton	Gas, 7/1	., 9%; ind 8. Nonutil	l. oper. i	20%. Acc ncl. South	1. Elizabe 1 Jersey	ethtown Energy,	Group, man: Jo	10.8% (3 oseph M.	Rigby. I	/). Pres. nc.: NJ. /	& CEO: I Addr.: 1 \$	Viicnael J South Jei	. Renna rsey Pla	za, Fol-
Current	Liab.	17	731.9 1	163.6	818.8	South	Jersey R	esources	Group, S	South Je	ersey Exp	loration,	Marina	som, N.	J 08037.	Tel.: 609	-561-900	0. Web: v	vww.sjind	lustries.c	om.
	L RATE	S Past	Pa	st Est'd	240%	sou mix	ed re	ersey sults	for th	austr he Se	nes ptem	ber p	rtea Deri-	ed to	be o	ne an perati	iaerob onal k	or arg	ester otembe	is exj er of	pect- next
of change Revenu	(per sh) es	<b>10 Yrs</b> . 1.5	. 5Yr % 6.	rs. to 5%	' <b>24-'26</b> 3.0%	od. '	The to	op line	e incre	eased	consid	lerabl	y on	year.	It v	vill ca	apture	raw	meth	nane	and
"Cash F Earning	Flow" Is	4.5 1.5	% 3. % -1.	0% ( 5% 1	6.0% 1.5%	reve	nue	at th	ne no	nutili	ty li	ne. S	Sales	farm	. The	proje	ct wil	l also	inclu	de ec	juip-
Dividen Book Va	ds alue	6.5 5.5	% 4. % 2.	.0% .5%	4.5% 4.5%	grow	th at mo	the lest.	utility Regar	segn dless	nent oper	was n ating	nuch ex-	ment	to tra nercia	ansfor 1-grad	m the	e colle eline-	cted b qualit	iogas v rei	into new-
Cal-	QUAR Mar 21	TERLY RE	VENUES (	(\$ mill.)	Full	pens	es al	so ac	lvance	d dra	imatio	ally,	and	able	natu	al ga	s tha	t will	be i	ntegr	ated
2018	521.9	227.3	302.5	589.6	1641.3	tne defic	comp it of §	any j 30.17 :	posted for the	an e recei	adjus nt per	iod, w	nare vhich	into Eliza	ibetht	own (	Gas. 1	syster In ad	n or s dition	to (	nary Oak-
2019 2020	637.3 534.1	266.9 260.0	261.2 261.5	463.2 485.8	1628.6 1541.4	was	signif	icant	y wid	er tha	an the	e year	-ago	ridge Boy	, Sou	th Je	ersey	has j	partne	red	with
2021	674.3	311.8	365.6	523.3	1875	com	pariso	n for	the	fourt	n qua	rter,	and	quefi	ed na	atural	gas,	comp	ressec	l nat	ural
2022 Cal-	700 EA	RNINGS F	PER SHAR	565 E A	2000 Full	shar	e net e in sl	for fi v of t	all-yea the imi	ır 202 pressi	1 wil ve fig	l prob ure ge	ably	gas, a	and re and F	enewa Rev L	ble na NG n	atural dan te	gas. S buil	South d sir	Jer- nilar
endar	Mar.31	Jun.30	Sep.30	Dec.31	Year	ated	in th	e prev	ious y	ear.			51101	plant	ts at o	ther s	sites in	n the	year a	head	i c
2018 2019	1.19 1.09	.07 d.13	d.27 d.30	.39 .46	1.38 1.12	Ear	nıngs t yeaı	gro and	wth conti	ough nue t	t to here:	rest after.	<b>ume</b> The	Thes year	se sha -ahea	ares a ad pe	rforn	eutral nance	uy ra . Loo	<b>nĸed</b> king	fur-
2020	1.15 1.26	d.01	d.06 d.17	.62 . <b>54</b>	1.68 1.65	com	any's	utili	ty bus	iness	shou	ld fur	ther	ther	out, w	ve ant	icipat	e solid	l grow	th in	rev-
2022	1.30	.02	d.10	.58	1.80	and	infras	tructi	are inv	vestm	ents.	We ex	pect	years	s and	ad. Fi	rom t	he re	compa	uota	tion,
Cal- endar	QUAR Mar.31	IERLY DIV Jun.30	IDENDS P Sep.30	AID <sup>B</sup> ■ Dec.31	Full Year	solid   Effor	resu	lts fro	om the	e noni ny to	utility	side,	too. erat-	this	stock	offers or the	s wor	thwhi to m	le tot id-dec	al re ade	turn This
2017		.273	.273	.553	1.10	ling	expens	ses ou	ght to	bear	fruit,	as we	ell.	is su	pport	ed by	a gen	erous	divid	end y	ield.
2018 2019		.280 .287	.280 .287	.567 .582	1.13	Sou   buil	th Je d a \$	rsey 12 m	nas a illion	nnou rene	nced wabl	plan e nat	s to ural	All orien	things ited s	s cons ubscri	sidere bers	d, pa may v	itient, vant	inco to ta	ome- ke a
2020 2021	 	.295 .303	.295 .303	.598 .303	1.19	gas Dair	facili	ty. It	will be	e loca lairv	ted at	Oakr	ridge Con-	close Mich	r look ael N	anoli	CFA	No	pemho	r 26	2021
(A) Base	2021303 .303 .303 Dairy, the largest dairy farm in Con- <i>Michael Napoli, CFA November 26, 20</i> (A) Based on economic eqs. from 2007, GAAP I nonrecur, gain (loss); '10, (\$0,24); '11, \$0,04; February, (B) Div'ds paid early April, July, Oct. Company's Financial Strength B+													B++							
ÈPS: '10, \$1.28: '14	\$1.11; <sup>*</sup> 1, \$1.46	11, \$1.49 '15. \$1.5	); '12, \$1 52; '16, \$	.49; '13, 1.56: '17	'12, \$0.0	(\$0.03); 8; '16. \$0	13, (\$0.2 ).22: '17	4); '14, ( (\$1.27):	\$0.11); '15 18, (\$1.17	5, 7); '19	and late (C) Incl.	Dec.  Di Dec.  Di Di Dec.  Di	iv. reinve ts. In 202	st. plan a 20: \$674	vail. 0 mill.	Sto	ck's Pric	e Stabili h Persist	y ence		65 15
(\$0.04); '	18, \$0.2	1; '19, \$0	.84; '20, '	\$1.62. Ex	cl. (\$0.	28); '20, (	\$0.06). N	lext egs.	rpt. due e	early	\$6.70 pe	r shr. (D)	In mill.,	adj. for sp	olit.	Ear	nings Pr	edictabil	ity		65

## Cause No. 45621

SO	JTH	WES	ST G	ASNY	YSE-sv	VX	R	ecent Rice	71.2	B P/E RATI	o <b>18.</b>	3 (Traili Medi	ng: 17.4) an: 19.0)	RELATIV P/E RATI	<b>0.9</b>	7 DIV'D YLD	3.4	% ¥		<b>be</b> 6	of 7	
TIMELIN	IESS -	- Suspend	ed 10/29/21	High:	37.3	43.2	46.1	56.0	64.2	63.7	79.6	86.9 72.3	86.0	92.9 73.3	81.6	73.5		5	Target	Price	Range	
SAFET	· 3	B Lowered	1/4/91		NDS NDS	orde n eh		42.0	47.2	50.5	55.5	12.5	02.5	73.5	43.7	57.0			2024	2025	2026	
TECHNI	CAL -	<ul> <li>Suspend</li> </ul>	ed 10/29/21	div Re	vided by In elative Pric	terest Rate e Strength										1					160	
BETA .9	5 (1.00 =	- Market)	Dongo	Options: ` Shaded	Yes area indica	ates recess	sion								1	-					±100	
Low-Hic	in larg ih Mid	point (%	to Mid)					_			and the	- Hilling	<b>T</b> TH		HTTIN, N	յութ					60	
\$32-\$93	\$63	(-10%)	,				אייוווייא		աստոլ.,	<u>'''</u> '''''''''	)·					•					-50 40	
202	4-26 PR	OJECTIC				, unulli	$ \ge $														30	
115-16	Price	Gain	Return	ling"			••••				·····	····									20	
Low	30 (· 85 (·	+80%) +20%)	19% 8%	1 ** ****	****				••••	·····			·.····	•	•			   % тот.	RETUR	N 10/21	_15	
Institu	tional [ 402020	Decisio 102021	ns 202021	Dereen												····			THIS V STOCK	L ARITH.*		
to Buy to Sell	140 123	144 132	125 137	shares	10 –			ul. II.		الالاريان								1 yr. 3 yr.	9.0 -2.6	55.5 64.6	E	
Hld's(000)	48058	48499	48501	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	5 yr. © <b>VΔI I</b>	9.3 F I INF PI	104.1	24-26	
43.59	48.47	50.28	48.53	42.00	40.18	41.07	41.77	42.08	45.61	52.00	51.82	53.00	54.31	56.72	57.68	58.35	67.45	Revenue	s per sh		70.60	
5.20	5.97	6.21	5.76	6.16	6.46	6.81	7.73	8.24	8.47	8.62	9.29	8.83	8.14	9.40	9.87	9.45	10.80	"Cash Flo	ow" per s	sh	15.45	
1.25	1.98	.86	.90	.95	1.00	2.43	1.18	1.32	3.01 1.46	2.92 1.62	1.80	1.98	2.08	2.18	2.28	2.38	4.50 2.48	Div'ds De	per sn ~ ecl'd per :	sh <sup>B</sup> ∎†	6.75 2.80	
7.49	8.27	7.96	6.79	4.81	4.73	8.29	8.57	7.86	8.53	10.30	11.15	12.97	14.44	17.06	14.43	11.05	13.50	Cap'l Spe	ending pe	er sh	21.30	
39.33	41.77	42.81	44.19	45.09	45.56	45.96	28.35 46.15	30.47 46.36	31.95 46.52	47.38	35.03 47.48	48.09	42.47	45.56	46.77	49.60 61.00	52.40 63.00	Common	ue per sn Shs Out	sťa <sup>C</sup>	68.00	
20.6	15.9	17.3	20.3	12.2	14.0	15.7	15.0	15.8	17.9	19.4	21.6	22.2	20.6	21.3	16.8	Bold fig	ures are	Avg Ann'	I P/E Rati	io	16.0	
1.10 3.2%	.86 2.6%	.92	1.22	.81 4.0%	.89	.98 2.8%	.95 2.8%	.89 2.7%	.94 2.7%	.98 2.9%	1.13	2.5%	2.7%	2.6%	.87	estim	ates	Relative I Avg Ann'	P/E Ratio I Div'd Yi	eld	.90 2.6%	
CAPITA	L STRU	CTURE a	as of 9/30	/21	0.270	1887.2	1927.8	1950.8	2121.7	2463.6	2460.5	2548.8	2880.0	3119.9	3298.9	3560	4250	Revenue	s (\$mill)		4800	
Total De	ebt \$414	3.1 mill. <b>E</b> 3 mill <b>L</b>	Due in 5 \ T Interes	/rs \$750. st \$100 0	9 mill. mill	112.3	133.3	145.3	141.1	138.3	152.0	173.8	182.3	213.9	232.3	225	280	Net Profit	t (\$mill)		450	
(Total in	terest co	verage: 3	3.7x)	(54% of 0	Cap'l)	36.2% 6.0%	6.9%	35.0% 7.4%	35.7% 6.7%	36.4% 5.6%	33.9% 6.2%	6.8%	6.3%	6.9%	7.0%	6.3%	6.6%	Net Profit	ax Hate Margin		21.0% 9.4%	
Pension	n Assets	-12/20 \$	1238.7 m	ill.	9 11111.	43.2%	49.2%	49.4%	52.4%	49.3%	48.2%	49.8%	48.3%	47.9%	50.5%	54.5%	53.0%	Long-Ter	m Debt R	atio	45.5%	
Pfd Sto	ck None		Oblig.	. \$1581.4	mill.	56.8% 2155.9	50.8% 2576.9	50.6% 2793.7	47.6% 3123.9	50.7% 3143.5	51.8% 3213.5	50.2% 3613.3	4359.3	52.1% 4806.4	49.5%	45.5% 6625	47.0%	Common Total Cap	Equity R ital (\$mil	atio I)	54.5% 9350	
						3218.9	3343.8	3486.1	3658.4	3891.1	4132.0	4523.7	5093.2	5685.2	6176.1	6700	7200	Net Plant	(\$mill)	.,	8400	
Commo	n Stock	60,385,0	)84 shs.			6.4% 9.2%	6.4%	6.3% 10.3%	5.7% 9.5%	5.5% 8.7%	5.8% 9.1%	5.8% 9.6%	5.2%	5.4%	5.3%	4.0%	5.0% 8.5%	Return or Return or	n Total Ca n Shr. Foi	ap'l uitv	5.5% 9.0%	
						9.2%	10.2%	10.3%	9.5%	8.7%	9.1%	9.6%	8.1%	8.5%	8.7%	7.5%	8.5%	Return or	n Com Eq	uity	9.0%	
	T CAP:	\$4.3 billi ITION	on (Mid ( 2019	2020 ·	9/30/21	5.3%	6.1%	6.1%	5.0%	4.0% 54%	4.1%	4.5%	3.6%	3.9%	4.0%	2.5%	4.0%	Retained	to Com E	q	5.0% 42%	
(\$MII Cash A	.L.) ssets		49.5	83.4	186.7	BUSIN	ESS: So	uthwest	Gas Hold	linas. In	c. is the	parent	holdina	put: 2.2	billion th	erms. Ha	as 11.149	9 employe	es. Off.	& dir. o	wn .8%	
Other Current	Assets	<u>8</u>	<u>310.4</u>	787.6	1205.9	compai	ny of Sou	uthwest G	as and C	enturi G	roup. Sou	uthwest C	Gas is a	of com	non; Bla	ckRock,	Inc., 12.	3%; The	Vanguai	rd Grou	o, Inc.,	
Accts P	ayable	2	238.9	231.3	223.0	Nevada	a, and (	California.	Centuri	provide	s constru	uction se	ervices.	man: M	ichael J.	Melarkey	lelarkey. Pres. & CEO: John P. Hester. Inc.: DE.					
Other	Linh	4	$\frac{166.5}{170.0}$	533.3	562.9	2020 r comme	nargin n ercial and	ix: resid industria	ential and al, 3%; tra	d small Insportat	commerce ion, 12%	ial, 85% . Total th	; large nrough-	Addr.: 8 89193.	360 S. D Tel.: 702-	)urango E -876-7233	Drive, P.C 7. Web: v	D. Box 98 www.swga	510 Las Is.com.	Vegas,	Nevada	
Fix. Ch	g. Cov.	3	340%	379%	373%	Sha	res of	f Sout	hwes	t Gas	s have	e rise	n in	holde	ers. M	lost r	ecentl	ly, the	boar	d un	ani-	
ANNUA of change	L RATE	S Past	Pa 5 Yi	st Est'd	1 '18-'20 '24-'26	pric	e lat	ely or	n nev	vs th	at ac	tivist	t in-	mous	ly re	jected	the	tender	offer	r, sta	ting	
Revenu "Cash I	ies Flow"	2.5	% 4. % 1	0% 4 5% 4	4.0%	chas	se a s	take	in the	e con	npany	<b>g to</b> j <b>7.</b> The	bil-	not in	n the	best ii	nteres	st of sh	areho	olders	u is	
Earning	ls ds	7.5	% 5. % 8	5% 9 0%	9.5% 4.5%	liona	ure in Sou	ivesto	r was t's bor	also	seeki	ing to	) re-	Pros	pects	for t	the y	ears a	head	l app	ould	
Book V	alue	6.0	% 7.	0%	9.0%	for s	uppor	t from	other	stocl	kholde	ers an	d of-	furth	er bei	nefit f	rom r	ate re	lief ai	nd ex	pan-	
Cal- endar	QUAR Mar.31	TERLY RE Jun.30	VENUES ( Sep.30	\$ mill.) Dec.31	Full Year	ferin	ering to purchase shares at \$75 each. sion in the customer base. Infrastructur								ture							
2018	754.3	670.9	668.1	786.7	2880.0	shou	hould a third party make a better offer, will likely capitalize on the need of								d of t	atili-						
<b>2019</b> 833.6 713.0 725.2 848.1 3119.9 the firm 2020 836.3 757.2 791.2 914.2 3298.9 support t						he firm would either raise its own bid or ties to replace aging infrastructur								e. ecia	tion							
2021	885.9	821.4	888.7	964.0	3560	lar, l	Mr. Ic	ahn h	as obj	ected	to So	uthw	est's	pote	ntial	for t	he p	ull to	mid	-dec	ade.	
ZUZZ         1100         9/5         1025         1150         4250         decision           Cal         EARNINGS PER SHARE A.P.         E         Dominion					sion to inion	purc Ener	hase G gv for	uesta roug	ar Pip shlv 3	eline i 82 bil	from lion	We a the	nticip	ate so anv o	olid bo Juring	ottom-l	ine g	rowtł e fr:	n for			
endar Mar.31 Jun.30 Sep.30 Dec.31 Year For its p					its pa	rt, Soi	ithwe	st Ga	s has	respon	nded	More	over,	the eq	uity h	has a r	espec	table	div-			
<b>2018</b> 1.63 .44 .25 1.36 3.68 that the <b>2019</b> 1.77 .41 .10 1.67 3.94 contribut					the c	leal w	as pri earnir	ced fa ngs ł	airly a Deginn	and w	rould next	idence shoul	i yielo ld con	a tor tinue	a uti	nty, a crease	nd th going	e pa forw	yout ard			
<b>2020</b> 1.31 .68 .32 1.82 4.14 year. The					compa	iny be	lieves	that	this a	addi-	Sout	hwest	Gas	earns	good	marl	ts for	· Fi-				
2021 2.03 .43 d.19 1.53 3.80 tion would 2022 2.05 .50 .20 1.75 4.50 diversify					would rsifv	ı expa its ea	ind its rnings	s regu s mix	uated	gene	ness, erate	nanc Earn	ings 1	trengt Predic	tn, F tabili	rice ty. Loi	stabil 1g-ter	nty, m in	and ves-			
Cal-	QUART Mor 21	FERLY DIV	IDENDS P	AID B=†	Full	addi	tional	cash	flow. 1	The co	mpan	y also	de-	tors	seekir	ng exp	osure	to th	e uti	lity s	pace	
2017	.450	.495	.495	.495	1.94	tices	ea its , whi	retur ch it b	ns an pelieve	u ma es are	in th	ient p ie bes	t in-	may ing r	want nonth	io tak s, the	e a cl outco	oser 10 ome of	the a	i tne aforei	com- nen-	
2018	.495	.520	.520	.520	2.06	teres	st of	shar	rehold	ers.	It h	as ta	aken	tione	d pro	xy ba	ttle c	ould h	ave a	in in	por-	
2019	.520	.545	.545	.545	2.10	one	sures will g	to rec ain co	ntrol (	of the	ance comp	unat Dany v	any- vith-	tant, albeit unpredictable, impact on the stock price.								
2021	.570	.595	.595			out	suff	icient	y co	omper	nsatin	gst	ock-	Mich	ael No	apoli,	CFA	Not	embe	r 26,	2021	
(A) Dilute (losses):	ed earnir '05, (11a	igs. Excl.	nonrec.	gains gs. report	cem chas	ber. =† D se plan av	viv'd reinv	estment n millions	and stock	pur-						Cor	npany's ck's Pric	Financial e Stabilit	Strengt v	h	A 80	
due late paid early	February / March.	. <b>(B)</b> Divi June, Se	idends hi	storically , and De-	(D)	Totals ma	ay not su	m due to	rounding.							Pric	e Growt nings Pr	h Persiste edictabili	ence tv		45 95	

(losses): '05, (11¢); '06, 7ĉ. Next egs. report due late February. (B) Dividends historically paid early March, June, September, and De-© 2021 Value Line, Inc. All rights reserved. Factual material is obtained from sources believed to be reliable and is provided without warranties of any kind. THE PUBLISHER IS NOT RESPONSIBLE FOR ANY ERRORS OR OMISSIONS HEREIN. This publication is strictly for subscriber's own, non-commercial, internal use. No part of it may be reproduced, resold, stored or transmitted in any printed, electronic or other form, or used for generating or marketing any printed or electronic publication, service or product.



### Causa No. 45621

-												-						Cause IN	0.4.	021
SPI	REI	NC.	NYSE-9	SR			R	ecent Rice	63.6 <sup>°</sup>	P/E Ratio	<b>15.</b> '	7 (Traili Media	ng: 13.3) an: 19.0)	RELATIV P/E RATI	<b>6.0</b>	3 DIV'D YLD	4.3		e 7	of 7
	IESS 4		8/20/21	High:	37.8	42.8	44.0	48.5	55.2	61.0	71.2	82.9	81.1	88.0	88.0	77.9		Target	Price I	Rance
SAFETY	2	Raised 6	/20/03	Low:	30.8 NDS	32.9	36.5	37.4	44.0	49.1	57.1	62.3	60.1	71.7	50.6	59.3		2024	2025	2026
TECHNI		Raised 1	1/19/21	0.3	35 x Divide vided by In	ends p sh terest Rate														_160
BETA .8	5 (1.00 =	Market)	1/10/21	Options:	elative Price Yes	e Strength									-					120
18-Mor	th Targ	et Price	Range	Shaded	area indica	ates recess	ion							,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4					80
Low-Hig	h Mid	point (%	to Mid)	· .						II	ուրեր	199 <sup>000</sup>	իսիսու		Դոր	i <sup>rn</sup> nc				_60
\$45-\$74	\$60	(-5%)		II.:				սիրութ		1,000 <sup>00</sup>					1					50 40
202	4-26 PR	OJECTIC	DNS		րորու	ourdo.		$\sim$			~	$\sim$								_30
I	Price	Gain	Return	**	•••••	••••••					· · · · · ·		· · · · · · · · ·	•••••••••						20
High 1 Low	30 (+ <sup>-</sup> 95 (-	I05%) ⊦50%)	22% 14%						*********				••		•				10/01	_15
Institu	tional I	Decisio	าร															THIS VL	10/21 ARITH.*	
to Buv	4Q2020 131	102021 124	202021 112	Percen	t 18 -	L.							1. 1		1	11		тоск 1 1 yr. 16.3	55.5	
to Sell Hid's(000)	148 41028	139 42475	126 42992	traded	6								Hillini					3 yr4.2 5 yr. 17.7 1	64.6 104.1	-
2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	© VALUE LINE PU	B. LLC 2	4-26
75.43	93.51	93.40	100.44	85.49	77.83	71.48	49.90	31.10	37.68	45.59	33.68	36.07	38.78	38.30	35.96	42.30	37.75	Revenues per sh A	<b>`</b>	58.20
2.98	3.81	3.87	4.22	4.56	4.11	4.62	4.58	3.12	3.87	6.15	6.16	6.54	7.55	7.12	5.25	8.75	8.10	"Cash Flow" per sh	1 B	10.50
1.90	2.37	2.31	2.64	1.53	2.43	2.80	2.79	2.02	2.35	3.16 1.84	3.24 1.96	2.10	2.25	2.37	2.49	2.60	4.00	Div'ds Decl'd per s	h C∎	5.50 3.10
2.84	2.97	2.72	2.57	2.36	2.56	3.02	4.83	4.00	3.96	6.68	6.42	9.08	9.86	16.15	12.37	11.35	10.95	Cap'l Spending per	rsh	11.45
17.31	18.85	19.79	22.12	23.32	24.02	25.56	26.67	32.00	34.93	36.30	38.73	41.26	44.51	45.14	44.19	47.95	50.90	Book Value per sh	D	70.60
21.17	21.36	21.65	21.99	22.1/	22.29	22.43	22.55	32.70	43.18	43.36	45.65	48.26	50.67	50.97	51.60	52.00	53.00	Common Shs Outs	t′g⊨	55.00 20.5
.86	.73	.75	.86	.89	.87	.82	.92	1.20	1.04	.83	1.03	1.00	.90	1.21	NMF	.76		Relative P/E Ratio	<b>,</b>	1.15
4.4%	4.3%	4.4%	3.9%	3.9%	4.7%	4.3%	4.1%	4.0%	3.8%	3.5%	3.1%	3.1%	3.1%	3.0%	3.4%	3.8%		Avg Ann'l Div'd Yie	ld	2.8%
CAPITA	L STRU	CTURE a	s of 6/30	/21		1603.3	1125.5	1017.0	1627.2	1976.4	1537.3	1740.7	1965.0	1952.4	1855.4	2200	2000	Revenues (\$mill) A	۱	3200
LT Debt	\$2939.0	0.8 mill. <b>L</b> ) mill. <b>L</b>	Jue in 5 1 T Interes	rs\$1/20 \$t \$135.0	.0 mill. mill.	63.8	62.6	52.8	84.6	136.9	144.2	161.6	214.2	184.6	88.6	245	210	Net Profit (\$mill)		300
(Total in	terest co	verage: 2	2.0x)			31.4% 4.0%	29.0%	25.0% 5.2%	5.2%	6.9%	9.4%	9.3%	10.9%	9.5%	4.8%	20.0%	21.0%	Net Profit Margin		23.5% 9.4%
						38.9%	36.1%	46.6%	55.1%	53.0%	50.9%	50.0%	45.7%	45.0%	49.0%	52.0%	51.0%	Long-Term Debt Ra	tio	45.0%
Leases,	Uncapi	talized A	nnual ren	itals \$8.8	mill.	61.1%	63.9%	53.4%	44.9%	47.0%	49.1%	50.0%	54.3%	55.0%	51.0%	48.0%	49.0%	Common Equity Ra	tio	55.0%
Pension	Assels	-9/20 <b>⊅</b> 0:	97.9 mill. <b>Ob</b> l	lig. \$1401	1.3 mill.	937.7	941.0	1959.0	3359.4	3345.1	3601.9	3986.3	4155.5	4625.6	4946.0	5700	6000 5350	Total Capital (\$mill)	)	7500 6800
Pfd Sto	ck \$242.	0 mill.	Pfd Di	iv'd \$14.8	3 mill.	8.1%	7.9%	3.3%	3.1%	5.1%	4.9%	5.0%	6.3%	5.1%	2.9%	6.0%	5.0%	Return on Total Ca	p'l	5.5%
as of 7/3	31/21	51,004,1	20 5115.			11.1%	10.4%	5.0%	5.6%	8.7%	8.2%	8.1%	9.5%	7.3%	3.5%	9.0%	7.0%	Return on Shr. Equ	ity	7.5%
MARKE	Τ CΔΡ·	\$3.3 billi	on (Mid (	Can)		11.1%	10.4%	5.0%	5.6%	8.7%	8.2%	8.1%	9.5%	7.9%	3.2%	9.0%	7.0%	Return on Com Equ	uity	7.5%
CURRE	NT POS	TION	2019	2020	6/30/21	4.9% 56%	4.3% 59%	81%	73%	5.7% 58%	59%	5.5% 60%	4.7% 51%	66%		5.5% 61%	2.0% 69%	All Div'ds to Net Pr	ч of	5.0% 62%
(\$MIL Cash A	.L.) ssets		58	41	23.9	BUSIN	ESS: Spi	re Inc., f	ormerly kr	nown as	the Lack	ede Grou	p. Inc	lated or	erations:	resident	ial. 68%:	commercial and in	dustrial	. 22%:
Other	Assats	6	08.7	586.5	874.4	is a hol	ding con	pany for	natural g	as utilitie	s, which	distribute	s natu-	transpo	rtation, 6	%; other,	4%. Has	about 3,583 emplo	oyees. C	officers
Current	Assels	C	014.0	590.0	090.3	ral gas City Al	across N abama	lissouri, and Miss	including t	he cities	of St. Lo lv 17 m	ouis and illion cust	Kansas	and dir (1/21 pr	ectors o oxv) Ch	wn 3.0% airman <sup>,</sup> F	ot com Edward G	mon shares; Black Hotzbach: CEO: Su	kRock, izanne i	12.0% Sither-
Accts P Debt D	ayable Je	37	801.5 783.2	243.3 708.4	352.1 571.8	Acquire	d Missor	uri Gas 9	9/13, Alab	ama Ga	s Co 9/1	4. Utility	therms	wood. I	nc.: Miss	souri. Ada	dress: 70	0 Market Street, S	St. Louis	s, Mis-
Other	Lich		84.1	497.5	367.9	sold an	id transp	orted in	fiscal 2020	): 3.3 bil	I. Reven	ue mix fo	or regu-	souri 63	101. Tel.	: 314-342	2-0500. Ir	nternet: www.spiree	energy.c	om.
Fix. Ch	g. Cov.	2	72%	449.2 373%	385%	Spir	e Inc	. pro	bably	close	ed the	e boo	k on	lenge	e to be	eat.	ot ao	nital avna	ndit	12000
ANNUA	L RATE	S Past	Pa	st Est'd	'18-'20	on	Septe	mbei	r 30th	2021 1. (Pl	, will lease	be a	ware	for t	he v	ear th	at ca 1at iu	ist conclud	led v	vere
of change Revenu	(per sh) es	10 Yrs. -8.0	. 5 Yr %	's. to	24-26 7.5%	that	four	th-qu	arter	num	bers	were	not	arou	nd \$	590 m	illion	<b>.</b> (This is 7.	5% l	ower
"Cash I Farning	Flow"	4.5	% 8. % 4	5% 8 5% 1	8.0%	avail	able	when	this r	eport	went	to pi	ress.)	than	the	fiscal	2020	amount of	app	roxi-
Dividen	ds	4.5	% <u>6</u> .	0%	4.5%	per s	share	were	\$5.23.	some	2.7 t	, earr imes l	high-	to si	uch s	segmei	nts a	s infrastruc	ture	up-
Fiscal		7.0	/0 D.	mill \A	Full	er	than	the	year-a	ago	tally	of	§1.91	grade	es at	the t	ıtilitie	es and new	busi	ness
Year Ends	Dec.31	Mar.31	Jun.30	Sep.30	Fiscal Year	(sque	eezed	by t	the im	pact	of C	OVIL	(19)	devel	opme	nt in	itiativ	es. The fis	cal 2	2022   \$580
2018	561.8	813.4	350.6	239.2	1965.0	Gas	Utilit	v div	ision,	helpe	ed by	incre	ased	millio	on. M	anage	ment	adds that i	t exi	pects
2019 2020	602.0 566.9	803.5 715 5	321.3 321.1	225.6 251 9	1952.4 1855.4	4 Infrastructure System Replacement Sur- total spending from fiscal 2021 t								thr	ough					
2021	512.6	1104.9	327.8	254.7	2200	$0^{1.4}$ charge (ISRS) revenues for the Missouri fiscal 2025 to be in the vicinity of								of \$3	bil-					
2022	530	892	325	25 253 2000 operations, the effects of colder weather, fion. Assuming that finances remained operations rate adjustments at Spire Alabama. healthy, Spire ought to have minimal operations.								diffi-								
Fiscal EARNINGS PER SHARE ABF Full Fiscal Moreover, favorable market conditions, es- Ends Dec.31 Mar.31 Jun.30 Sep.30 Fiscal Moreover, favorable market conditions, es-																				
2018	2018 2.39 2.03 .52 d.51 4.33 Uri struck parts of the United Stotes the country Conital appreciation potential									oout										
2019	119 1.32 3.04 d.09 d.74 3.52 Uri struck parts of the United States, the equity. Capital appreciation potential									ider-										
2020	1.24 1.65	∠.54 3.55	.03	d.45 d.53	4.70	ing	opera	tion.	If th	ere y	were	no n	najor	able,	refle	ecting	recer	nt stock-pri	ce, w	eak-
2022	1.75	2.78	.05	d.58	4.00	stum	ibling ter	blo w-lluf	CKS (	aurin	g th	ie fo ight	have	ness.	Cons	sider,	too, 1	the healthy	divie or st	aend
Cal-	QUART	ERLY DIV	IDENDS P	AID C .	Full	quarter, tull-year earnings might have yield and good prospects for further sterior source than threefold, to \$4.70 a hikes in the payout. Other pluses inc								lude						
2017	Mar.31	Jun.30	505	Dec.31	1 10 10	shar	e, rel	ative	to the	fisca	al 202	20 tal	ly of	the	2 (Ab	ove A	Averag	ge) Safety 1	ank	and
2017	.525 .5625	.525 .5625	.525 .5625	.525 .5625	2.10	\$1.44	i. Keş	gardir	ng fisc	al 20	22, w	re lool	still	belov	v-mar	ket B	eta c	oetticient. E	Sut t	hese rank
2019	.5925	.5925	.5925	.5925	2.37	respe	ectabl	e, sha	re net	of $\$4$	4.00, s	since f	fiscal	for T	imelir	iess.	a + (.	Delow Avera	ige)	
2020	.0225 .65	.0225 .65	.0225 .65	.0225 .65	2.49	2021	's sec	ond-q	uarter	figur	e will	be a	chal-	Frede	erick l	L. Har	ris, Il	I November	26, 2	2021
(A) Fisca	l year er	ids Sept.	30th. (B)	Based o	n due	late Jan.	(C) Divid	ends pai	d in early	Janu-	(E) In mil	lions. (F)	Qtly. egs	s. may no	t sum du	le Cor	npany's	Financial Strength	1	B++
unuted Sf	100 74	Sianuing		S HUTHECL	ur-lary,	nprii, July	y, anu U(				o roundi	ng or cha	inge in sr	iales out	sianung.	510	UK S PIIC	e Stability		90

ing loss: '06, 7¢. Excludes gain from discontin-ued operations: '08, 94¢. Next earnings report
 or charges. In '20: \$1,171.6 mill., \$22.71/sh.
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Price Growth Persistence Earnings Predictability 50 45

Attachment LDC-4 Cause No. 45621 Page 1 of 3

## Summary of Discounted Cash Flow Analysis (DCF)

DCF formula:  $K = (D_1/P_0) + g$ 

**Combination Utility Group:** 

DCF Cost of Equity (K):	8.9%	
Dividend Growth (g):	5.7%	Page 3
Dividend Yield (D <sub>1</sub> /P <sub>0</sub> ):	3.2%	Page 2

Attachment LDC-4 Cause No. 45621 Page 2 of 3

#### S&P Global Dividend Yield Data

Combination Utility Group	Dividend Yield (12/28/21) D <sub>0</sub> /P <sub>0</sub>
Alliant Energy (LNT)	2.7%
Black Hills Corp. (BKH)	3.4%
CMS Energy Corp. (CMS)	2.7%
Consolidated Edison (ED)	3.7%
Eversource Energy (ES)	2.7%
MGE Energy Inc. (MGEE)	2.0%
Northwestern (NWE)	4.5%
Sempra Energy (SRE)	3.4%
WEC Energy Group (WEC)	3.1%
Combination Utility Group Average	3.1%

Forward Dividend Yields:

Average Dividend Yield, adjusted for growth by (1 + 0.5g)

 $D_1/P_0 = D_0/P_0 * (1 + 0.5g) = 3.10\% * [1 + 0.5(0.057)] = 3.2\%$ 

Use for forward yield  $(D_{1/}P_0)$ : 3.2%

#### Value Line Growth Rates

#### Combination Utility Group

	Earnings Per Share			Di	vidends Per Sh	are	Book Value Per Share			
Company Name	10 Years	5 Years	Forecasted	10 Years	5 Years	Forecasted	10 Years	5 Years	Forecasted	
Alliant Energy (LNT)	7.0%	6.5%	5.5%	6.5%	7.0%	6.0%	5.0%	6.5%	5.0%	6.1%
Black Hills Corp. (BKH)	10.0%	5.0%	5.0%	3.5%	5.5%	5.5%	3.5%	5.5%	5.0%	5.4%
CMS Energy Corp. (CMS)	7.5%	7.0%	6.0%	11.5%	7.0%	5.5%	5.0%	5.5%	7.5%	6.9%
Consolidated Edison (ED)	2.5%	1.5%	3.0%	2.5%	3.0%	3.0%	4.0%	4.5%	2.5%	2.9%
Eversource Energy (ES)	5.5%	5.5%	6.5%	8.5%	6.5%	6.0%	6.5%	4.0%	4.5%	5.9%
MGE Energy Inc. (MGEE)	5.0%	3.0%	5.5%	3.5%	4.5%	5.0%	5.5%	6.0%	5.5%	4.8%
Northwestern (NWE)	5.5%	3.5%	3.0%	5.5%	6.5%	3.5%	6.0%	5.5%	3.0%	4.7%
Sempra Energy (SRE)	3.0%	5.0%	10.0%	10.0%	8.0%	6.0%	5.5%	6.0%	7.5%	6.8%
WEC Energy Group (WEC)	8.0%	7.5%	6.5%	13.5%	8.5%	6.5%	7.5%	8.0%	4.0%	7.8%
Average	6.0%	4.9%	5.7%	7.2%	6.3%	5.2%	5.4%	5.7%	4.9%	5.7%

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Source: Value Line

See Attachment LDC-2, pages 1-9.

Attachment LDC-5 Cause No. 45621 Page 1 of 3

## Summary of Discounted Cash Flow Analysis (DCF)

DCF formula:  $K = (D_1/P_0) + g$ 

## Gas LDC Group:

1

Dividend Yield (D <sub>1</sub> /P <sub>0</sub> ):	3.8%	Page 2
Dividend Growth (g):	6.0%	Page 3
DCF Cost of Equity <i>(K):</i>	9.8%	

#### S&P Global Dividend Yield Data

	Global Dividend Yield D0/P <sub>0</sub>
Gas LDC Companies:	12/28/2021
Atmos Energy Corp. (ATO)	2.6%
New Jersey Res. (NJR)	3.6%
N.W. Natural (NWN)	4.0%
One Gas, Inc.(OGS)	3.0%
South Jersey Inds. (SJI)	4.8%
Southwest Gas (SWX)	3.4%
Spire, Inc. (SR)	4.3%
Gas Utility Group Average	3.7%

Forward Dividend Yields:

Average Dividend Yield, adjusted for growth by (1 + 0.5g)

 $D_1/P_0 = D_0/P_0 * (1 + 0.5g) = 3.7\% * [1 + 0.5(0.064)] =$  3.8%

Use for forward yield (D1/P0): **3.8%** 

#### DCF Model

#### Summary of Growth Rates (g)

#### STANDARD VALUE LINE COMPANIES -- Gas LDC Group

	Ear	rnings Per S	Share	Div	idends Per	Share	Book			
			_			_			Forecaste	
Company Name	10 Years	5 Years	Forecasted	10 Years	5 Years	Forecasted	10 Years	5 Years	d	Average
Atmos Energy Corp. (ATO)	8.0%	9.0%	7.0%	5.0%	7.5%	7.5%	7.5%	10.0%	10.5%	8.0%
New Jersey Res. (NJR)	6.0%	5.5%	1.5%	7.0%	6.5%	5.5%	7.5%	8.5%	5.5%	5.9%
N.W. Natural (NWN)	-1.5%	1.5%	5.5%	1.5%	0.5%	5.0%	1.0%	n/a*	8.5%	3.4%
ONE Gas, Inc. (OGS)	n/a*	10.0%	6.5%	n/a*	14.5%	7.0%	n/a*	3.0%	10.5%	8.6%
South Jersey Inds. (SJI)	1.5%	-1.5%	11.5%	6.5%	4.0%	4.5%	5.5%	2.5%	4.5%	5.1%
Southwest Gas (SWX)	7.5%	5.5%	9.5%	8.5%	8.0%	4.5%	6.0%	7.0%	9.0%	7.3%
Spire Inc. (SR)	1.5%	4.5%	10.0%	4.5%	6.0%	4.5%	7.0%	5.5%	7.5%	5.7%
Average - Historical & Forecasted	4.9%	6.0%	7.4%	5.5%	6.7%	5.5%	5.8%	6.1%	8.0%	6.2%
Average - Using 7.0% EPS for SJI, SW	X									
and SR			5.9%							6.0%

Source: Value Line Investment Survey, November 26, 2021.

\* Value Line did not list data for these entries. Negative percentages were not included in

the average calculations.

Approximately 20 basis points are added to the final 6.2% average because of the unsustain: EPS forecasts for South Jersey, Southwest Gas, and Spire.

The average forecasted EPS of the other 4 utilities is 5.1%. (20.5 / 4).

Using a 7.0% forecasted EPS growth rate for SJI, SWX, and SR lowers the average forecast EPS to 5.9%. [7.0+1.5+5.5+6.5+7.0+7.0] / 7

The final average is 6.0% instead of 6.2%.

[4.9 + 6.0 + 5.9 + 5.5 + 6.7 + 5.5 + 5.8 + 6.1 + 8.0] / 9 = 6.0%

Therefore, the DCF for the Gas LDC group would be 9.8% instead of 10.0%. See page 1.

Attachment LDC-6 Cause No. 45621 Page 1 of 4

# CAPM Cost of Equity Summary -- Combination Utility Group

Risk Free Rate (R <sub>f</sub> ) - Duff & Phelps	2.50%
Beta (β) - Value Line	0.87
Risk Premium (Geometric Approach -	
Long Term Bonds) 10.20% - 6.10%	4.10%
Risk Premium (Arithmetic Approach -	
Long Term Bonds) 12.20% - 6.40%	5.80%
Risk Premium (Geometric and	
Arithmetic Average - Long Term Bonds)	
5.70% + 4.10% / 2	4.95%
Required Return (K) (Long Term Bonds)	
Using 4.95%	9.29%

CAPM Formula:  $K = R_f + b(R_m - R_f)$
Attachment LDC-6 Cause No. 45621 Page 2 of 4

#### Yields on U.S. Treasury Securities January 2021 - December 2021

	Treasury	10 Year Treasury	20 Year Treasury	<b>30 Year Treasury</b>
Month	Bonds	Bonds	Bonds	Bonds
January 2021	0.36%	0.93%	1.46%	1.66%
February 2021	0.42%	1.09%	1.66%	1.84%
March 2021	0.71%	1.45%	2.11%	2.23%
April 2021	0.90%	1.69%	2.24%	2.34%
May 2021	0.84%	1.63%	2.18%	2.30%
June 2021	0.81%	1.62%	2.22%	2.30%
July 2021	0.89%	1.48%	2.01%	2.07%
August 2021	0.66%	1.20%	1.77%	1.86%
September 2021	0.78%	1.31%	1.84%	1.92%
October 2021	0.93%	1.48%	1.99%	2.04%
November 2021	1.20%	1.58%	2.01%	1.98%
December 2021	1.15%	1.43%	1.84%	1.77%
Average Last 3 months	1.09%	1.50%	1.95%	1.93%
Average Last 6 months	0.94%	1.41%	1.91%	1.94%
Average Last 12 months	0.80%	1.41%	1.94%	2.03%

Source: www.treasury.gov

Duff and Phelps Normalized Risk Free Rate = 2.50%

Risk Free Rate (R<sub>f</sub>) Range and Estimate

	Yield Calculations
Range	0.80% to 2.03%
Risk Free Rate (R <sub>f</sub> )	2.50%

Attachment LDC-6 Cause No. 45621 Page 3 of 4

#### Beta for Combination Utility Group

Company Name	Value Line Betas*
Alliant Energy (LNT)	0.85
Black Hills Corp. (BKH)	1.00
CMS Energy Corp. (CMS)	0.80
Consolidated Edison (ED)	0.75
Eversource Energy (ES)	0.90
MGE Energy Inc. (MGEE)	0.75
Northwestern Corp. (NWE)	0.95
Sempra Energy (SRE)	1.00
WEC Energy Group (WEC)	0.80
Gas Utility Group Average	0.87

\* See Attachment LDC-3, pages 1-9.

Attachment LDC-6 Cause No. 45621 Page 4 of 4

#### **Market Risk Premiums**

#### Total Returns, 1926-2020

	Stocks	Long-term Bonds
Geometric Mean	10.20%	6.10%
Arithmetic Mean	12.20%	6.40%

#### Market Risk Premiums (R<sub>m</sub> - R<sub>f</sub>)

	Long-term Bonds
Geometric Mean	4.10%
Arithmetic Mean	5.80%
Average Market Risk Premium	4.95%

Source: Duff & Phelps, SBBI Classic Ibbotson Yearbook, 2021.

Attachment LDC-7 Cause No. 45621 Page 1 of 4

#### CAPM Cost of Equity Summary -- Gas LDC Group

CAPM Formula:  $K = R_f + b(R_m - R_f)$ 

Risk Free Rate $(R_f)$ - Duff and Phelps	2.50%
Beta (β) - Value Line	0.90
Risk Premium (Geometric Approach -	
Long Term Bonds) 10.20% - 6.10%	4.10%
Risk Premium (Arithmetic Approach -	
<i>Long Term Bonds)</i> 12.10% - 6.40%	5.80%
Risk Premium (Average of Geometric	
and Arithmetic - Long Term Bonds)	
5.80% + 4.10% / 2 (Rm - Rf)	4.95%
Required Return (K) (Long Term	
Bonds) Using 4.95%	9.46%

Attachment LDC-7 Cause No. 45621 Page 2 of 4

#### Yields on U.S. Treasury Securities January 2021 - December 2021

	Treasury	10 Year Treasury	20 Year Treasury	<b>30 Year Treasury</b>
Month	Bonds	Bonds	Bonds	Bonds
January 2021	0.36%	0.93%	1.46%	1.66%
February 2021	0.42%	1.09%	1.66%	1.84%
March 2021	0.71%	1.45%	2.11%	2.23%
April 2021	0.90%	1.69%	2.24%	2.34%
May 2021	0.84%	1.63%	2.18%	2.30%
June 2021	0.81%	1.62%	2.22%	2.30%
July 2021	0.89%	1.48%	2.01%	2.07%
August 2021	0.66%	1.20%	1.77%	1.86%
September 2021	0.78%	1.31%	1.84%	1.92%
October 2021	0.93%	1.48%	1.99%	2.04%
November 2021	1.20%	1.58%	2.01%	1.98%
December 2021	1.15%	1.43%	1.84%	1.77%
Average Last 3 months	1.09%	1.50%	1.95%	1.93%
Average Last 6 months	0.94%	1.41%	1.91%	1.94%
Average Last 12 months	0.80%	1.41%	1.94%	2.03%

Source: www.treasury.gov

Duff and Phelps Normalized Risk Free Rate = 2.50%

Risk Free Rate (R<sub>f</sub>) Range and Estimate

	Yield Calculations
Range	0.80% to 2.03%
Risk Free Rate (R <sub>f</sub> )	2.50%

Attachment LDC-7 Cause No. 45621 Page 3 of 4

#### Beta for Gas Utility Group

Company Name	Value Line Betas*
Atmos Energy Corp. (ATO)	0.80
New Jersey Res. (NJR)	1.00
N.W. Natural (NWN)	0.85
ONE Gas, Inc. (OGS)	0.80
South Jersey Industries (SJI)	1.05
Southwest Gas (SWX)	0.95
Spire, Inc. (SR)	0.85
Gas Utility Group Average	0.90

Attachment LDC-7 Cause No. 45621 Page 4 of 4

#### **Market Risk Premiums**

#### Total Returns, 1926-2020

	Stocks	Long-term Bonds
Geometric Mean	10.20%	6.10%
Arithmetic Mean	12.20%	6.40%

#### Market Risk Premiums (R<sub>m</sub> - R<sub>f</sub>)

	Long-term Bonds
Geometric Mean	4.10%
Arithmetic Mean	5.80%
Average Market Risk Premium	4.95%

Source: Duff & Phelps, SBBI Classic Ibbotson Yearbook, 2021.



## **Cost of Capital in the Current Environment**

COVID-19 Update – September 2021

## **U.S.** Cost of Capital Inputs

Data as of September 20, 2021



Duff & Phelps, A Kroll Business continues to monitor risk-free rates and other cost of capital inputs closely. If and when (i) longterm spot yields increase to a level that approaches the Duff & Phelps-recommended U.S. normalized risk-free rate (e.g., differences are lower than 50 b.p.), and (ii) there is evidence that this increase in spot yields is not transitory, we will then consider recommending a return to using spot 20-year U.S. Treasury Yields as the basis for the risk-free rate to be used in conjunction with our recommended U.S. Equity Risk Premium.

VSTOXX<sup>®</sup> (Europe)

For more information, visit: www.duffandphelps.com/costofcapital

**Global Market Volatility** 

VIX Index (U.S.)

Data as of September 22, 2021



Sources: Capital IQ, FRED® Economic Data, Bank of England, Bank of Japan, European Central Bank

## **Stock Market Performance Since** the Wuhan Lockdown\*

#### Data as of September 22, 2021

MSCI All Country

**STOXX**<sup>®</sup>

#### **Global 10-Year Government Bond Yields** Data as of September 22, 2021



## **Total Assets Held by Major Central Banks Over Time**

Data as of September 20, 2021

Sources: Capital IQ, FRED® Economic Data, Morningstar Direct

U.S. Corporate Credit Spreads are based on the difference in effective yields between the ICE BofA U.S. High Yield Index and the ICE BofA US Corporate Index. Euro-Denominated Corporate Credit Spreads based on the difference in effective yields between the Bloomberg Barclays Pan-European High Yield Index (EUR) and the Bloomberg Barclays Euro Aggregate Corporate Bond Index. Longterm averages based on 1995 to present for VIX daily series, 1999 to present for VSTOXX daily series, 1996 to present for U.S. credit spread daily series, and 1998 to present for EUR-denominated credit spread monthly series.

#### Source: Capital IQ

\*The first lockdown due to COVID-19 began on January 23, 2020, in Wuhan, China.

Sources: Bloomberg (Brazil, India), European Central Bank (Eurozone aggregate yield), Capital IQ (other countries)

### **U.S. and Eurozone Consumer** Sentiment vs. Business Confidence

Data as of September 20, 2021



Sources: Michigan University's Index of Consumer Sentiment, OECD's Business Confidence Index, European Commission business and consumer surveys [The same methodology that the European Commission uses to standardize its Economic Sentiment Indicator (ESI) was applied to the Eurozone Consumer Confidence and Business Climate Indicator series.]

## Real GDP Growth – Q1 and Q2 2021

Data as of September 22, 2021



Sources: FRED® Economic Data (Eurozone, Japan, U.S.), National Bureau of Statistics of China, UK's Office for National Statistics

Quarter-on-quarter growth based on the growth rate from Q4 2020 to Q1 2021 and Q1 2021 to Q2 2021. This rate is annualized by computing the compounded growth rate for four quarters as follows: (1 + Real GDP Q/Q Growth)^4. The annualized rate shows what the quarterly change would be if it lasted a full year.

## Real GDP Growth (%) Estimates (Median)

\*Data through September 2021 for U.S. and Eurozone Consumer Sentiment.. Data through August 31, 2021, for U.S. and Eurozone Business Confidence.

#### U.S. vs. Eurozone Unemployment Rate Data as of September 20, 2021



Source: U.S. Bureau of Labor Statistics, Eurostat

\* Data through August 2021 for the United States and July 2021 for the Eurozone.

" Risk has subsided since the outbreak of COVID-19, but economic recovery is still progressing at different speeds among regions. The Delta variant is leading to downward revisions in real GDP growth for some geographies.

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- Carla Nunes, CFA, Managing Director, Duff & Phelps, A Kroll Business



Compound annual growth rate (CAGR) is calculated as the annualized rate of return of median real GDP growth rate estimates from the end of 2019 through the end of 2021: [(1 + 2020 Real GDP Growth Rate) \* (1 + 2021 Real GDP Growth Rate)] ^ (1/2) – 1. Cumulative growth is calculated as the total (cumulative) growth rates of median real GDP estimates from the end of 2019 through the end of 2021: (1 + 2020 Real GDP Growth Rate) \* (1 + 2021 Real GDP Growth Rate) - 1. These metrics show the annualized and cumulative real GDP growth rates that were expected at the end of 2019 (Before COVID- 19) for the 2020–2021 period vs. what the expectations are currently (After COVID-19).

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Attachment LDC-9 Cause No. 45621 Page 1 of 5 Congressional Budget Office Nonpartisan Analysis for the U.S. Congress

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## An Update to the Budget and Economic Outlook: 2021 to 2031

JULY | 2021

he Congressional Budget Office regularly publishes reports presenting projections of what federal budget deficits, debt, revenues, and spending—and the economic path underlying them—would be for the current year and for the following 10 years if current laws governing taxes and spending generally remained unchanged. This report presents the agency's most recent budget and economic projections, which are based on the laws in effect as of May 18, 2021. This presentation of CBO's projections is much shorter than usual. The information is less detailed so that CBO can provide it to lawmakers as quickly as possible. CBO will publish more detailed information about its projections later this month.<sup>1</sup>

#### The Budget

In CBO's budget projections (called the baseline), the federal budget deficit for fiscal year 2021 is \$3.0 trillion, nearly \$130 billion less than the deficit recorded in 2020 but triple the shortfall recorded in 2019. Relative to the size of the economy, this year's deficit is projected to total 13.4 percent of gross domestic product (GDP), making it the second largest since 1945, exceeded only by the 14.9 percent shortfall recorded last year. The economic disruption caused by the 2020–2021 coronavirus pandemic and the legislation enacted in response continue to weigh on the deficit (which was already large by historical standards before the pandemic).

Baseline deficits under current law are significantly smaller after 2021 and average \$1.2 trillion from 2022 to 2031. They average 4.2 percent of GDP through 2031, well above their 50-year average of 3.3 percent. In CBO's projections, the deficit declines to about 3 percent of GDP in 2023 and 2024 before increasing again, reaching 5.5 percent in 2031 (see Table 1). By the end of the period, both primary deficits (which exclude net outlays for interest) and interest outlays are increasing in nominal terms and as a share of GDP.

With such deficits, federal debt held by the public which stood at \$21.0 trillion, or 100 percent of GDP, at the end of 2020—would total \$23.0 trillion, or 103 percent of GDP, at the end of 2021. As recently as 2007, at the start of the previous recession, federal debt equaled 35 percent of GDP. Projected federal debt dips just below 100 percent of GDP between 2023 and 2025 before rising again, reaching 106 percent in 2031, about the same as the amount recorded in 1946, which stands as the highest in the nation's history.

Revenues in CBO's baseline increase to 17 percent of GDP in 2021 and are relatively stable thereafter, averaging 18 percent from 2022 through 2031. Outlays are projected to decline from 31 percent of GDP this year to about 21 percent from 2023 through 2025 as pandemic-related spending wanes and low interest rates persist. Outlays then increase relative to GDP, owing to rising interest costs and greater spending for major entitlement programs.

Compared with its estimates from February 2021, CBO's estimate of the deficit for 2021 is now \$745 billion (or 33 percent) larger, and its projection of the cumulative deficit between 2022 and 2031, \$12.1 trillion, is now \$173 billion (or 1 percent) smaller. In 2021, recently enacted legislation—primarily the American Rescue Plan Act of 2021 (Public Law 117-2)—increases the projected deficit by \$1.1 trillion, mostly as a result of higher spending. The largest budgetary effects stem from additional funding for recovery rebates for individuals, for state and local governments, for educational institutions, and for an extension of expanded unemployment

Notes: Unless this report indicates otherwise, all years referred to when describing the budget outlook are federal fiscal years, which run from October 1 to September 30 and are designated by the calendar year in which they end. Years referred to in describing the economic outlook are calendar years. Numbers in the text and tables may not add up to totals because of rounding.

<sup>1.</sup> CBO plans to publish additional information about its latest budget and economic projections on July 21, 2021.

#### JULY 2021

#### Table 1.

#### **CBO's Baseline Budget Projections, by Category**

	Total
Actual, 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031	022– 2022– 2026 2031
In Billions of Dollars	
Revenues	
Individual income taxes 1,609 1,952 2,328 2,334 2,353 2,383 2,586 2,792 2,871 2,979 3,091 3,209 1	1,984 26,926
Payroll taxes 1,310 1,346 1,391 1,504 1,550 1,588 1,644 1,703 1,768 1,834 1,900 1,968	7,677 16,849
Corporate income taxes 212 238 317 379 390 402 401 391 393 393 393 397 4	1,889 3,857
Other 291 306 355 381 378 359 354 367 364 366 371 382 4	1,827 3,676
Total 3,421 3,842 4,390 4,597 4,671 4,734 4,984 5,253 5,396 5,572 5,754 5,957 23	,376 51,308
On-budget 2,456 2,863 3,401 3,513 3,542 3,566 3,773 3,995 4,091 4,218 4,352 4,506 1	7,796 38,957
Off-budgeta 965 979 989 1,085 1,128 1,168 1,211 1,258 1,306 1,354 1,402 1,451 !	5,581 12,351
Outlavs	
Mandatory 4,577 4,862 3,589 3,461 3,488 3,711 3,907 4,088 4,418 4,446 4,780 5,025 18	3,155 40,912
Discretionary 1,628 1,652 1,649 1,610 1,592 1,625 1,660 1,701 1,746 1,778 1,827 1,877 §	3,136 17,065
Net interest 345 331 306 315 344 396 467 541 628 712 808 910	1,826 5,425
Total 6.550 6.845 5.544 5.386 5.423 5.731 6.033 6.330 6.792 6.935 7.415 7.812 28	.118 63.402
On-budget 5.598 5.846 4.469 4.231 4.191 4.418 4.642 4.854 5.222 5.268 5.647 5.939 2	1.950 48.880
Off-budget <sup>a</sup> 953 999 1,075 1,155 1,233 1,313 1,391 1,476 1,570 1,667 1,769 1,873 (	5,167 14,521
Deficit (-) or Surplus -3.129 -3.003 -1.153 -789 -753 -998 -1.049 -1.077 -1.395 -1.363 -1.661 -1.855 -4	.741 -12.093
On-budget -3,142 -2,984 -1,067 -718 -648 -852 -869 -859 -1,131 -1,050 -1,294 -1,434 -4	4,155 -9,923
Off-budget <sup>a</sup> 13 -19 -86 -71 -104 -146 -180 -218 -264 -313 -367 -422	-587 -2,170
Debt Held by the Public 21,017 23,012 24,392 25,156 25,959 26,967 28,062 29,185 30,733 32,119 33,913 35,827	n.a. n.a
Memorandum:	
Gross Domestic Product 21,000 22,401 24,323 25,356 26,191 27,076 28,033 29,103 30,195 31,305 32,449 33,670 130	),980 287,702
As a Percentage of Gross Domestic Product	
Revenues	
Individual income taxes 7.7 8.7 9.6 9.2 9.0 8.8 9.2 9.6 9.5 9.5 9.5 9.5	9.1 9.4
Payroll taxes 6.2 6.0 5.7 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.9 5.8	5.9 5.9
Corporate income taxes 1.0 1.1 1.3 1.5 1.5 1.5 1.4 1.3 1.3 1.3 1.2 1.2	1.4 1.3
Other <u>1.4 1.4 1.5 1.5 1.4 1.3 1.3 1.3 1.2 1.2 1.1 1.1</u>	1.4 1.3
Total 16.3 17.2 18.1 18.1 17.8 17.5 17.8 18.0 17.9 17.8 17.7 17.7	17.8 17.8
On-budget 11.7 12.8 14.0 13.9 13.5 13.2 13.5 13.7 13.5 13.5 13.4 13.4	13.6 13.5
Off-budget <sup>a</sup> 4.6 4.4 4.1 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3 4.3	4.3 4.3
Outlays	
Mandatory 21.8 21.7 14.8 13.7 13.3 13.7 13.9 14.0 14.6 14.2 14.7 14.9	13.9 14.2
Discretionary 7.8 7.4 6.8 6.3 6.1 6.0 5.9 5.8 5.8 5.7 5.6 5.6	6.2 5.9
Net interest 1.6 1.5 1.3 1.2 1.3 1.5 1.7 1.9 2.1 2.3 2.5 2.7	1.4 1.9
Total 31.2 30.6 22.8 21.2 20.7 21.2 21.5 21.7 22.5 22.2 22.9 23.2	21.5 22.0
On-budget 26.7 26.1 18.4 16.7 16.0 16.3 16.6 16.7 17.3 16.8 17.4 17.6	16.8 17.0
Off-budget <sup>a</sup> 4.5 4.5 4.4 4.6 4.7 4.9 5.0 5.1 5.2 5.3 5.5 5.6	4.7 5.0
Deficit (-) or Surplus -14.9 -13.4 -4.7 -3.1 -2.9 -3.7 -3.7 -3.7 -4.6 -4.4 -5.1 -5.5	-3.6 -4.2
On-budget -15.0 -13.3 -4.4 -2.8 -2.5 -3.1 -3.1 -3.0 -3.7 -3.4 -4.0 -4.3	-3.2 -3.4
Off-budget <sup>a</sup> 0.1 -0.1 -0.4 -0.3 -0.4 -0.5 -0.6 -0.7 -0.9 -1.0 -1.1 -1.3	-0.4 -0.8
Debt Held by the Public 100.1 102.7 100.3 99.2 99.1 99.6 100.1 100.3 101.8 102.6 104.5 106.4	n.a. n.a

Data source: Congressional Budget Office. See www.cbo.gov/publication/57218#data.

n.a. = not applicable.

a. The revenues and outlays of the Social Security trust funds and the net cash flow of the Postal Service are classified as off-budget.

compensation. The effects of a stronger economy as well as technical changes (that is, changes that are neither legislative nor economic) partially offset the deficit effects of recently enacted legislation. For subsequent years, CBO has increased its projections of both revenues and outlays—the former by more than the latter.

Projected revenues over the next decade are now higher because of the stronger economy and consequent higher taxable incomes. In addition, tax collections in 2020 and 2021—particularly amounts collected from individual income taxes—were stronger than the amounts implied by currently available data on economic activity and the past relationship with revenues. In CBO's projections, that unexpected strength dissipates over the next few years. Besides resulting from the direct effects of recent legislation, the changes to outlays since February over the projection period are largely attributable to higher interest rates (which boost net interest costs) and higher projected inflation and wages (which increase the costs of major benefit programs).

CBO's projections are constructed in accordance with the Balanced Budget and Emergency Deficit Control Act of 1985 (P.L. 99-177) and the Congressional Budget Act of 1974 (P.L. 93-344). Those laws require CBO to construct its baseline projections under the assumption that current laws governing revenues and spending will generally stay the same and that discretionary appropriations in future years will match current funding, with adjustments for inflation.<sup>2</sup>

CBO's baseline is not intended to provide a forecast of future budgetary and economic outcomes; rather, it provides a benchmark that policymakers can use to assess the potential effects of future policy decisions. Future legislative action could lead to markedly different outcomes. Even if federal laws remained unaltered for the next decade, actual budgetary outcomes would probably differ from CBO's baseline—not only because of unanticipated economic developments, but also as a result of many other factors that affect federal revenues and outlays.

#### **The Economy**

As the pandemic eases and demand for consumer services surges, real (inflation-adjusted) GDP is projected to increase by 7.4 percent and surpass its potential (maximum sustainable) level by the end of 2021 (see Table 2). The annual growth of real GDP averages 2.8 percent during the five-year period from 2021 to 2025, exceeding the 2.0 percent growth rate of real potential GDP. Over the 2026–2031 period, real GDP growth averages 1.6 percent, which is less than its long-term historical average, primarily because the labor force is expected to grow more slowly than it has in the past.

In CBO's projections, employment grows quickly in the second half of 2021—reflecting increased demand for goods and services and the waning of factors dampening the supply of labor, including health concerns and enhanced unemployment insurance benefits. Employment surpasses its prepandemic level in mid-2022. The unemployment rate declines through 2022 and then remains near or below 4.0 percent for several years.

Inflation rises sharply in 2021 and then moderates. The price index for personal consumption expenditures (PCE) rises by 2.8 percent this year, as increases in the supply of goods and services lag behind increases in the demand for them, adding to inflationary pressures. By 2022, increases in supply keep up with increases in demand, and PCE price inflation falls to 2.0 percent during the year. After 2022, PCE price inflation remains at 2.1 percent through 2025, above its rate before the pandemic. The interest rate on 10-year Treasury notes remains low but rises as the economy continues to expand, reaching 2.7 percent by the end of 2025.

Compared with its estimates in February 2021, CBO now projects stronger economic growth. Three main factors are responsible for that result. First, the agency expects recently enacted fiscal policies to boost output. Second, CBO projects that the effects of social distancing on economic activity in 2021 will be smaller than the effects it projected in February, reflecting a more rapid return to normalcy. Third, CBO has raised its estimate of the consumer spending that results from the additional savings that households accumulated during the pandemic. As a result, the agency's projections of inflation are also higher than the projections it made in February, as output now exceeds its potential level sooner and by a larger amount than previously anticipated. Interest rates are also projected to be higher than CBO expected in February, reflecting the more positive outlook for economic growth.

<sup>2.</sup> In consultation with the House and Senate Committees on the Budget, however, CBO deviated from those standard procedures when constructing its current baseline for discretionary spending. Because of the unusual size and nature of the emergency funding provided in response to the coronavirus pandemic, the agency did not extrapolate the \$184 billion in discretionary budget authority that has been provided for such purposes so far in 2021. Other emergency funding was projected to continue in the future, with increases for inflation each year after 2021.

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#### Table 2.

#### **CBO's Economic Projections for Calendar Years 2021 to 2031**

					Annual	Average		
	Actual, 2020	2021	2022	2023	2024– 2025	2026– 2031		
	Pe	rcentage Cha	nge From Fo	urth Quarter	to Fourth Qua	rter		
Gross Domestic Product		<b>..</b>	<b>J</b>					
Realª	-2.4	7.4	3.1	1.1	1.2	1.6		
Nominal	-1.2	10.7	5.3	3.3	3.4	3.7		
Inflation								
PCE price index	1.2	2.8	2.0	2.1	2.1	2.1		
Core PCE price index <sup>b</sup>	1.4	2.4	2.0	2.2	2.2	2.1		
Consumer price index <sup>c</sup>	1.2	3.4	2.3	2.3	2.4	2.4		
Core consumer price index <sup>b</sup>	1.6	2.7	2.4	2.5	2.5	2.4		
GDP price index	1.3	3.0	2.1	2.2	2.1	2.1		
Employment Cost Index <sup>d</sup>	2.8	3.7	3.3	3.6	3.4	3.1		
	Fourth-Quarter Level (Percent)							
Unemployment Rate	6.8	4.6	3.6	3.8	4.2°	4.5 <sup>f</sup>		
	Borcontago Chango Erom Voar to Voar							
Gross Domestic Product		i cicc	intage onling					
Realª	-3.5	6.7	5.0	1.5	1.2	1.6		
Nominal	-2.3	9.7	7.2	3.8	3.4	3.7		
Inflation								
PCE price index	1.2	2.6	2.1	2.1	2.1	2.1		
Core PCE price index <sup>b</sup>	1.4	2.2	2.0	2.2	2.2	2.1		
Consumer price index <sup>c</sup>	1.2	3.3	2.5	2.3	2.4	2.4		
Core consumer price index <sup>b</sup>	1.7	2.5	2.5	2.5	2.5	2.4		
GDP price index	1.2	2.9	2.1	2.2	2.2	2.1		
Employment Cost Index <sup>d</sup>	2.9	3.5	3.2	3.5	3.5	3.1		
	Annual Average							
Unemployment Rate (Percent)	8.1	5.5	3.8	3.7	4.1	4.4		
Payroll Employment (Monthly change, in thousands) <sup>9</sup>	-760	587	417	70	4	42		
Interest Rates (Percent)								
3-month Treasury bills	0.4	*	0.1	0.2	0.7	1.9		
10-year Treasury notes	0.9	1.6	1.9	2.0	2.4	3.2		
Tax Bases (Percentage of GDP)								
Wages and salaries	44.6	43.7	43.3	43.4	43.6	43.7		
Domestic corporate profits <sup>h</sup>	8.1	9.9	9.8	9.1	8.6	7.8		

Data sources: Congressional Budget Office; Bureau of Economic Analysis; Bureau of Labor Statistics; Federal Reserve. See www.cbo.gov/publication/57218#data.

GDP = gross domestic product; PCE = personal consumption expenditures; \* = between zero and 0.05 percentage points.

a. Real values are nominal values that have been adjusted to remove the effects of changes in prices.

b. Excludes prices for food and energy.

c. The consumer price index for all urban consumers.

d. The employment cost index for wages and salaries of workers in private industries.

e. Value for the fourth quarter of 2025.

f. Value for the fourth quarter of 2031.

g. The average monthly change, calculated by dividing by 12 the change in payroll employment from the fourth quarter of one calendar year to the fourth quarter of the next.

h. Adjusted to remove distortions in depreciation allowances caused by tax rules and to exclude the effect of inflation on the value of inventories.

This document is one of a series of reports on the state of the budget and the economy that the Congressional Budget Office issues each year. It satisfies the requirement in section 202(e) of the Congressional Budget Act of 1974 for CBO to submit to the Committees on the Budget periodic reports about fiscal policy and to provide baseline projections of the federal budget. In keeping with CBO's mandate to provide objective, impartial analysis, this report makes no recommendations.

The estimates in this report are the work of more than 100 staff members at CBO. Barry Blom wrote the report, with assistance from Jeffrey Schafer. Christina Hawley Anthony, Theresa Gullo, Leo Lex, John McClelland, Sam Papenfuss, Joshua Shakin, and Jeffrey Werling provided guidance.

Mark Doms, Mark Hadley, Jeffrey Kling, and Robert Sunshine reviewed the report. Caitlin Verboon was the editor, and Jorge Salazar was the graphics editor. This report is available on CBO's website (www.cbo.gov/publication/57218).

CBO continually seeks feedback to make its work as useful as possible. Please send any comments to communications@cbo.gov.

Phillip L. Swagel Director

BY TIM SABLIK

## **Forecasting Inflation**

For policymakers and market participants, inflation can be challenging to predict

n recent months, inflation has climbed to levels not seen in a generation. The Fed's preferred measure of inflation, the Personal Consumption Expenditures (PCE) price index, increased to 4.4 percent in September 2021 compared to the same month the previous year. The last time the index reached such heights, George H.W. Bush was president, and Alan Greenspan was just finishing his first term as chair of the Fed's Board of Governors.

Maintaining price stability is one half of the Fed's dual mandate. so Fed officials have been watching this spike in inflation closely. According to the monetary policy framework adopted by the Fed last year, it judges inflation that averages 2 percent over time to be consistent with its price stability mandate. While inflation measures in recent months have come in above that 2 percent threshold, that hasn't been entirely unexpected nor unwelcome. Prices fell last year as the pandemic rippled through the global economy. Some of the current surge in prices is actually "reflation" as the economy ramps back up after months of lockdowns, and the Fed's new framework was designed to allow periods of higher inflation following periods when inflation is below target. (See "The Fed's New Framework," Econ Focus, First Quarter 2021.)

But Fed officials have also admitted that inflation has proven more lasting than they initially anticipated. As the economy has reopened, consumer demand has outpaced supply for some goods and services. Lingering supply chain disruptions have led to product shortages and price increases that are more than just a return to pre-pandemic trends. The challenge facing Fed policymakers now is trying to predict whether inflation will remain elevated in the absence of monetary policy intervention or gradually return to levels consistent with the Fed's target once the shocks from the pandemic fade.

In April, when inflation pressures began emerging, Fed Chair Jerome Powell said that it seemed "unlikely" that inflation would move up in a persistent way. But at his press conference following the Federal Open Market Committee's (FOMC) meeting in September, he noted that the supply bottlenecks contributing to rising prices in many sectors "have been larger and longer lasting than anticipated."

Past experience during the 1970s and 1980s taught the Fed that it can be costly to tame inflation after it has run too high for too long. But the Fed's new framework was built with the lessons of the Great Recession in mind, which highlighted the benefits of waiting as long as possible to normalize monetary policy after an economic downturn. Choosing the right approach, then, requires some estimate of where inflation is headed — a forecast that can be quite challenging to make.

#### MAKING SENSE OF THE DATA

When Fed officials talk about inflation, they are taking a broader view than the typical household or business might. On its website, the Fed Board of Governors explains that "inflation cannot be measured by an increase in the cost of one product or service, or even several products or services. Rather, inflation is a general increase in the overall price level of the goods and services in the economy."

One way to look at how prices are moving across the economy is to use a price index like PCE or the Consumer Price Index (CPI). These measure the price change in a basket of goods and services consumed by the average household. Prices for some commonly consumed items are more volatile than others and can swing indexes in either direction month to month. (See "Is Your Inflation Different?" *Econ Focus*, Second/Third Quarter 2021.)

To get a clearer sense of the general price trend in the economy, Fed officials often turn to indexes that attempt to strip out some of that volatility. Core PCE and core CPI exclude food and energy prices, for example, while the Dallas Fed's trimmed mean PCE excludes categories that experience the most extreme price changes each month. Another measure, the Atlanta Fed's sticky-price CPI, focuses on components of the CPI that change prices infrequently.

Each of these indexes shows an uptick in inflation in recent months, some more pronounced than others. (See chart.) But even these attempts to smooth out volatility can be overwhelmed by extreme events, such as a once-in-a-century global pandemic. Prices have behaved in unexpected ways over the past year. In the spring and early summer of 2021, the average cost of plywood surged before falling in September to roughly the same level as the beginning of the year. Used cars and trucks appreciated sharply starting in the spring of 2021 as the supply of new vehicles has been constrained by a shortage of computer chips and other essential components. While used car price growth seems to have leveled off, prices have not yet decreased to their previous level.

It can be hard for policymakers and economic forecasters to interpret what such incoming data points might signal about future inflation. Are they outliers that ought to be disregarded, or early signals of more lasting price pressures?

Richmond Fed economist Alexander Wolman dug into this question in a September Economic Brief. Rather than trying to smooth or strip out volatile components of PCE, he broke the index down into its components to see what was driving inflation in 2021. In March through June, the 5 percent of consumption categories with the largest price increases accounted for between 48 percent and 60 percent of overall inflation. But in July, that share fell to 42 percent, suggesting that inflation had become more broad-based. He also compared the behavior of prices in recent months to the last 25 years, when inflation has been low and stable, and this too provided some evidence of a persistent upward shift in inflation.

"If a similar pattern appears in the coming months, it would represent tentative evidence that the increase in inflation is a more persistent phenomenon that reflects monetary factors and will not dissipate without an adjustment of monetary policy," Wolman wrote.

#### SEPARATING SIGNAL FROM NOISE

Even when comparing incoming inflation data to the past, it can be difficult to determine whether those data signal a change in the long-run trend of inflation or temporary volatility. That's why many forecasters rely on models to help them.

There's no shortage of ways to model the inflation process. Economic theory points to many different potential drivers of inflation, from the amount of slack in the labor market, to the level of interest rates relative to the economy's natural rate of interest, to the size of the money supply relative to the economy's productive capacity. But some of these variables are not directly observable, and it can be hard to know which might be driving inflation in the moment.

"Inflation is a relatively volatile process affected by many different factors, making it hard to figure out why inflation is evolving the way it is and predict its future path," says Richmond Fed economist Paul Ho.



One solution to this dilemma is to use a purely statistical approach that is more agnostic about the shocks hitting the economy. Signal extraction models take incoming inflation data and separate it into two components: a "signal" about where underlying inflation is trending and "noise" — temporary volatility that will average out to zero over the long run.

"If successive inflation measures are moving in a particular direction, the model will assign more weight to that being a signal about underlying inflation rather than noise," says Richmond Fed economist Pierre-Daniel Sarte.

In a recent *Economic Brief* with fellow Richmond Fed economist John O'Trakoun, Sarte used a signal extraction model to analyze decades of core CPI and core PCE inflation data. For the 1960s through the 1980s, the model predicted underlying inflation that was high and volatile, consistent with the rising inflation of that period. For the period since the 1990s, the model treated the fluctuations of incoming PCE and CPI data as mostly noise, predicting that trend inflation will remain stable. When looking at data from April 2021 and extrapolating it out through the second quarter, Sarte and O'Trakoun estimated a slight increase in trend inflation, although it still remained close to the Fed's long-term 2 percent target.

But how reliable are statistical methods at predicting sudden changes in trend inflation? Not very, according to Ricardo Reis, an economist at the London School of Economics and Political Science who studies inflation.

"If you are trying to predict inflation over the next two or three months, the statistical forecasting methods tend to do pretty well — with one exception, which is when there are big regime changes," says Reis.

In a June *Economic Brief*, Ho wrote about the challenges that have plagued economic forecasters since the pandemic began. In such periods of high uncertainty, researchers need to decide whether the assumptions in their models are still correct, or whether volatility has simply increased temporarily. Ho argued that forecasters should clearly communicate the assumptions

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NOTE: The Index of Common Inflation Expectations (CIE) summarizes the movement of 21 inflation expectations measures based on a dynamic factor model. The "forecasters" measure shows the index projected onto the Survey of Professional Forecasters 10-year-ahead PCE inflation expectations. The "consumers" measure, also known as the alternative CIE, shows the index projected onto the University of Michigan Surveys of Consumers inflation expectations for the next five to 10 years. SOURCE: Federal Reserve Board of Governors

underlying their models. That way, even if someone disagrees with those assumptions, he or she could still learn something from the model by seeing how those assumptions influence the forecast.

#### LEARNING FROM OTHERS

Another option for Fed policymakers looking to understand where inflation may be headed is to seek the wisdom of the crowds. This can be particularly useful in the case of inflation because there is a self-fulfilling aspect to the public's expectations for future inflation. For example, if business owners believe that their competitors and suppliers are going to raise prices, they will raise their prices as well. If enough firms do this, then their expectations of higher prices become reality.

Because of this dynamic, policymakers pay close attention to surveys that ask households, businesses, and professional forecasters about their inflation expectations. Many such surveys exist, including the University of Michigan's Surveys of Consumers and the Philadelphia Fed's Survey of Professional Forecasters. The Fed Board of Governors collects data from 21 different inflation expectation measures and synthesizes them into a single Index of Common Inflation Expectations. That index shows that inflation expectations have increased in recent months. (See chart.)

Despite the theoretical ties between expected inflation and actual inflation, there is also plenty of evidence that households, businesses, and even professional forecasters often guess wrong. In a 2019 working paper with Anmol Bhandari of the University of Minnesota and Jaroslav Borovička of New York University, Ho found that household expectations of future inflation were biased upward on average, and that bias increased during recessions.

In a recent article, Cleveland Fed economists Randal Verbrugge and Saeed Zaman concluded that the expectations of professional economists and business owners were more accurate predictors of future inflation than household expectations, but a simple inflation forecasting model also proved to be just as accurate. Indeed, Sarte and O'Trakoun also compared the forecasts from their signal extraction model to surveys of inflation expectations and found that the most significant difference was that the modelbased forecasts of PCE inflation were about half a percentage point lower than the surveys on average.

Policymakers can also look to the stock market for information about inflation expectations. One marketbased measure is the breakeven rate between regular Treasury Securities and Treasury Inflation-Protected Securities (TIPS). Created in 1997. TIPS offer investors protection against inflation and deflation by adjusting their interest payments and principal based on changes in the CPI. The TIPS breakeven rate is the difference between nominal Treasuries and TIPS of the same maturity, providing a real-time measure of the market's inflation expectations. Another source of the market's inflation expectations can be found by looking at inflation swap contracts, which allow one party to transfer inflation risk to another for a fee.

In theory, one might expect market participants to pay closer attention to inflation dynamics since they are putting their money at stake. But a 2015 study by Michael Bauer of the University of Hamburg and Erin McCarthy, formerly of the San Francisco Fed, suggests that such market-based indicators of future inflation may not be any more accurate than surveys or simple forecasting rules. They found that market measures largely reflected current and past inflation movements and did not provide a lot of useful information about future inflation.

#### WATCHING THE ANCHOR

Although surveys and market measures of expectations may not be reliable for forecasting future inflation, they still provide a useful signal of where the

Attachment LDC-10 Cause No. 45621 Page 4 of 4

public expects inflation to head.

Under its new monetary policy framework, the Fed has made it clear that it is less concerned about inflation fluctuating in the short run as long as it averages 2 percent in the long run. Another way of putting that is that the Fed wants long-run inflation anchored at 2 percent. Throughout the year, Chair Powell and other Fed officials have indicated that if long-run inflation expectations were to drift from that 2 percent anchor, the Fed would intervene.

"We are committed to our longer-run goal of 2 percent inflation and to having longer-term inflation expectations wellanchored at this goal," Powell said at a press conference following the FOMC's November policy meeting. "If we were to see signs that the path of inflation, or longer-term inflation expectations, was moving materially and persistently beyond levels consistent with our goal, we would use our tools to preserve price stability."

This commitment stems in large part from the lessons the Fed learned during the Great Inflation of the 1970s. In that decade, inflation expectations became unmoored, drifting higher and fluctuating wildly with changes in the market. To reestablish the anchor, the Fed needed to convince the public that it would do whatever it took to stabilize long-run inflation. That meant allowing the federal funds rate, the Fed's key policy interest rate, to rise above 20 percent in the early 1980s until long-run inflation expectations fell, prompting a long and severe economic recession.

Could Fed officials in the 1960s and 1970s have detected that inflation expectations were drifting earlier — and responded sooner? Reis of the London School of Economics and Political Science thinks so. Although many of the various surveys of inflation expectations available today did not exist at the time, Reis collected data from market prices, professional surveys, and household surveys. In his paper discussed at the *Brookings Papers on Economic Activity* conference in September, he found that while no individual data series contained a perfect forecast of inflation, the disagreement between these series did provide a signal about how well-anchored inflation expectations were.

"When you just look at the average expectation of inflation from surveys, it tends to move super sluggishly," says Reis. "Once you combine sluggish movement with a lot of noise, it becomes very hard to see much. But when you measure the standard deviation and skewness across surveys, which I call disagreement, you get a much better idea of where expectations are heading."

Since individual survey respondents differ in how closely they pay attention to inflation and how quickly they adjust to new information about price changes, looking at the average of several different surveys provides a muddled picture. But tracking how expectations differ across surveys can provide a clearer picture of where the inflation anchor is headed. Applying this approach to the data, Reis found that the inflation anchor began to drift as early as 1967.

What about the anchor today? Applying the same approach to current expectations data, Reis found that the anchor has drifted, but it was still early in that process. Several other recent papers have looked at this question as well. In a May National Bureau of Economic Research working paper, Bernardo Candia and Yuriy Gorodnichenko of the University of California, Berkeley, and Olivier Coibion of the University of Texas at Austin examined a survey of U.S. firms' inflation expectations. They found evidence that the expectations of business managers appeared "far from anchored." Similarly, a July article by Chicago Fed researchers Gadi Barlevy, Jonas Fisher, and May Tysinger measured how well-anchored longterm expectations were by looking at how sensitive short-term expectations were to news about inflation. If long-run expectations are well-anchored, they should not respond to news that affects short-run inflation. But they found that the sensitivity of long-run expectations to news about short-term inflation changes has increased, particularly in recent months.

Economic theory and history suggest that fiscal and monetary policy play an important role in ensuring that inflation expectations remain anchored. Atlanta Fed economist Federico Mandelman has examined inflation in the aftermath of World War II. After the war, pent-up demand from years of rationing was released, and inflation shot up from 2 percent to 20 percent from 1946 to 1947. But that spike was short-lived - by 1949, inflation had fallen back to 2 percent. Mandelman credited wellanchored inflation expectations inherited from the Great Depression as well as contractionary fiscal and monetary policy for quickly returning inflation to normal levels.

"In the end, it is policy that pins down inflation, not expectations," says Reis. "A credible central bank uses monetary policy to make expectations that differ from its target unsustainable, ensuring that expectations and actual inflation are ultimately the same." **EF** 

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#### Cause No. 45621 P Northern Indiana Public Service Company LLC's Objections and Responses to Indiana Office of Utility Consumer Counselor's Twelfth Set of Data Requests

#### OUCC Request 12-021:

For the portion of NIPSCO/NiSource pension funds that are invested in equities, what rate of return does NIPSCO/NiSource assume the pension funds will earn over what period of time? Please explain why that rate of return was used.

#### **Objections:**

#### Response:

7.66% is the forward looking rate of return for the pension assets invested in equities. The rate of return is for a 30 year time period.

We use our investment consultant LCG Associates and our actuary AON as the basis for the estimate and compare it versus other actuaries and investment consultants for reasonableness. The equity rate of return considers various economic inputs including interest rates, GDP growth estimates and inflation.

#### Cause No. 45621 P Northern Indiana Public Service Company LLC's Objections and Responses to Indiana Office of Utility Consumer Counselor's Twelfth Set of Data Requests

#### OUCC Request 12-022:

For the portion of NIPSCO/NiSource OPEB funds that are invested in equities, what rate of return does NIPSCO/NiSource assume the OPEB funds will earn over what period of time? Please explain why that rate of return was used.

#### <u>Objections:</u>

#### Response:

7.50%\* is the forward looking rate of return for the NIPSCO Union OPEB assets invested in equities. The rate of return is for a 30 year time period.

7.57%\* is the forward looking rate of return for the Non Union OPEB assets invested in equities. The rate of return is for a 30 year time period.

\*The rate of return is a blended rate of return and the asset allocations of the OPEB pools differ slightly.

We use our investment consultant LCG Associates and our actuary AON as the basis for the estimate and compare it versus other actuaries and investment consultants for reasonableness. The equity rate of return considers various economic inputs including interest rates, GDP growth estimates and inflation.

#### Cause No. 45621 Northern Indiana Public Service Company LLC's Objections and Responses to NIPSCO Industrial Group's Eighth Set of Data Requests

#### Industrials Request 8-020:

Referring to Petitioner's Exhibit 15, Mr. Rea developed a financial leverage adjustment or market-to-book ratio adjustment. Please state whether or not the IURC has accepted the use of this methodology as proposed by Mr. Rea. If in the affirmative, please provide the Cause No., Subject Utility, Date of Order, and a copy of or link to the Commission's Order where a financial leverage adjustment or market-to-book ratio adjustment was accepted.

#### **Objections:**

NIPSCO objects to this Request on the grounds and to the extent that this Request seeks publicly available information.

NIPSCO further objects to this Request on the separate and independent grounds and to the extent that the Industrial Group has the data to perform this analysis itself.

NIPSCO further objects to this Request on the separate and independent grounds and to the extent that this Request is overly broad and unduly burdensome in that this Request is not limited to a specific time.

#### Response:

Subject to and without waiver of the foregoing general and specific objections, NIPSCO is providing the following response:

Although Mr. Rea has not conducted a comprehensive evaluation of all historical rate proceedings in Indiana where a financial leverage adjustment to the cost of equity has been proposed, he is familiar with NIPSCO's 2020 TDSIC filing (Cause No. 45330-TDSIC-1), previous gas rate case (Cause No. 44988) and previous electric rate case (Cause No. 45159), where in all three of these cases the Company proposed the use of a financial leverage adjustment. Considering that the Commission's Order in each of these proceedings was silent on the matter of the NIPSCO's proposed financial leverage adjustment, the Commission neither explicitly approved nor explicitly rejected the Company's proposed leverage adjustment.

#### UTILITY STOCKS AND THE SIZE EFFECT: AN EMPIRICAL ANALYSIS

Annie Wong\*

#### I. Introduction

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The objective of this study is to examine whether the firm size effect exists in the public utility industry. Public utilities are regulated by federal, municipal, and state authorities. Every state has a public service commission with board and varying powers. Often their task is to estimate a fair rate of return to a utility's stockholders in order to determine the rates charged by the utility. The legal principles underlying rate regulation are that "the return to the equity owner should be commensurate with returns on investments in other enterprises having corresponding risks," and that the return to a utility should be sufficient to "attract capital and maintain credit worthiness." However, difficulties arise from the ambiguous interpretation of the legal definition of fair and reasonable rate of return to an equity owner.

Some finance researchers have suggested that the Capital Asset Pricing Model (CAPM) should be used in rate regulation because the CAPM beta can serve as a risk measure, thus making risk comparisons possible. This approach is consistent with the spirit of a Supreme Court ruling that equity owners sharing similar level of risk should be compensated by similar rate of return.

The empirical studies of Banz (1981) and Reinganum (1981) showed that small firms tend to earn higher returns than large firms after adjusting for beta. This phenomenon leads to the proposition that firm size is a proxy for omitted risk factors in determining stock returns. Barry and Brown (1984) and Brauer (1986) suggested that the omitted risk factor could be the differential information environment between small and large firms. Their argument is based on the fact that investors often have less publicly available information to assess the future cash flows of small firms than that of large firms. Therefore, an additional risk premium should be included to determine the appropriate rate of return to shareholders of small firms.

The samples used in prior studies are dominated by industrial firms, no one has examined the size effect in public utilities. The objective of this study is to extend the empirical findings of the existing studies by investigating whether the size effect is also present in the utility industry. The findings of this study have important implications for investors; public utility firms, and state regulatory agencies. If the size effect does exist in the utility industry, this would suggest that the size factor should be considered when the CAPM is being used to determine the fair rate of return for public utilities in regulatory proceedings.

#### **II.** Information Environment of Public Utilities

In general, utilities differ from industriales in that utilities are heavily regulated and they follow similar accounting procedures. A public utility's financial reporting is mainly regulated by the Securities and Exchange Commission (SEC) and the Federal Energy Regulatory Commission (FERC). Under the Public Utility Holding Company Act of 1935, the SEC is empowered to regulate the holding company systems of electric and gas utilities. The Act requires registration of public utility holding Only under strict companies with the SEC. conditions would the purchase, sale or issuance of securities by these holding companies be permitted. The purpose of the Act is to keep the SEC and investors informed of the financial conditions of these firms. Moreover, the FERC is in charge of the interstate operations of electric and gas companies. It requires utilities to follow the accounting procedures set forth in its Uniform Systems of Accounts. In particular, electric and gas utilities must request their Certified Public Accountants to certify that certain schedules in the financial reports are in conformity with the Commission's accounting requirements. These detailed reports are submitted annually and are open to the public.

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The FERC requires public utilities to keep accurate records of revenues, operating costs, depreciation expenses, and investment in plant and equipment. Specific financial accounting standards for these purposes are also issued by the Financial Accounting Standards Board (FASB). Uniformity is required so that utilities are not subject to different accounting regulations in each of the states in which they operate. The ultimate objective is to achieve comparability in financial reporting so that factual matters are not hidden from the public view by accounting flexibility.

Other regulatory reports tend to provide additional financial information about utilities. For example, utilities are required to file the FERC Form No. 1 with the state commission. This form is designed for state commissions to collect financial and operational information about utilities, and serves as a source for statistical reports published by state commissions.

Unlike industriales, a utility's earnings are predetermined to a certain extent. Before allowed earnings requests are approved, a utility's performance is analyzed in depth by the state commission, interest groups, and other witnesses. This process leads to the disclosure of substantial amount of information.

#### **III.** Hypothesis and Objective

Due to the Act of 1935, the Uniform Systems of Accounts, the uniform disclosure requirements, and the predetermined earnings, all utilities are reasonably homogeneous with respect to the information available to the public. Barry and Brown (1984) and Brauer (1986) suggested that the difference of riskadjusted returns between small and large firms is due to their differential information environment. Assuming that the differential information hypothesis is true, then uniformity of information availability among utility firms would suggest that the size effect should not be observed in the public utility industry. The objective of this paper is to provide a test of the size effect in public utilities.

#### IV. Methodology

#### 1. Sample and Data

To test for the size effect, a sample of public utilities and a sample of industriales matched by equity value are formed so that their results can be compared. Companies in both samples are listed on the Center for Research in Security Prices (CRSP) Daily and Monthly Returns files. The utility sample includes 152 electric and gas companies. For each utility in the sample, two industrial firms with similar firm size (one is slightly larger and the other is slightly smaller than the utility) are selected. Thus, the industrial sample includes 304 non-regulated firms.

The size variable is defined as the natural logarithm of market value of equity at the beginning of each year. Both the equally-weighted and valueweighted CRSP indices are employed as proxies for the market returns. Daily, weekly and monthly returns are used. The Fama-MacBeth (1973) procedure is utilized to examine the relation between risk-adjusted returns and firm size.

#### 2. Research Design

All utilities in the sample are ranked according to the equity size at the beginning of the year, and the distribution is broken down into deciles. Decile one contains the stocks with the lowest market values while decile ten contains those with the highest market values. These portfolios are denoted by  $MV_1$ ,  $MV_2$ , ..., and  $MV_{10}$ , respectively.

The combinations of the ten portfolios are updated annually. In the year after a portfolio is formed, equally-weighted portfolio returns are computed by combining the returns of the component stocks within the portfolio. The betas for each portfolio at year t,  $\hat{\beta}_{pi}$ 's, are estimated by regressing the previous five years of portfolio returns on market returns:

$$\tilde{R}_{pt} = \alpha_{p} + \hat{\beta}_{pt}\tilde{R}_{mt} + \tilde{U}_{pt}$$
(1)

where

 $R_{pt}$  = periodic return in year t on portfolio p

 $R_{mt}$  = periodic market return in year t

 $U_{rt} = disturbance term.$ 

Banz (1981) applied both the ordinary and generalized least squares regressions to estimate  $\beta$ ; and concluded that the results are essentially identical (p.8). Since adjusting for heteroscedasticity does not necessarily lead to more efficient estimators, the ordinary least squares procedures are used in this study to estimate  $\beta$  in equation (1).

The following cross-sectional regression is then run for the portfolios to estimate  $\gamma_{it}$ , i = 0, 1, and 2:

$$\mathbb{R}_{pt} = \gamma_{0t} + \gamma_{1t}\hat{\beta}_{pt} + \gamma_{2t}\hat{S}_{pt} + U_{pt} \qquad (2)$$

where

- $\hat{\beta}_{pt} =$  estimated beta for portfolio p at year t, t=1968, ..., 1987
- $\hat{S}_{pt}$  = mean of the logarithm of firm size in portfolio p at the beginning of year t

#### U<sub>n</sub> = disturbance term.

Depending on whether daily, weekly or monthly returns are used, a portfolio's average return changes periodically while its beta and size only change once a year. The  $\gamma_1$  and  $\gamma_2$  coefficients are estimated over the following four subperiods: 1968-72, 1973-77, 1978-82 and 1983-1987. If portfolio betas can fully account for the differences in returns, one would expect the average coefficient for the beta variable to be positive and for the size variable to be zero. A t-statistic will be used to test the hypothesis. The coefficients of a matched sample are also examined so that the results between industrial and utility firms can be compared.

#### V. Analysis of Results

#### 1. Equity Value of the Utility Portfolios

The mean equity values of the ten size-based utility portfolios are reported in Table 1. Panels A and B present the average firm size of these portfolios at the beginning and end of the test period, 1968-1987. The first interesting observation from Table 1 is that the difference in magnitude between the smallest and the largest market value utility portfolios is tremendous. In Panel A, the average size of  $MV_1$  is about \$31 million while that of  $MV_{10}$ is over \$1.4 billion. In Panel B, that is twenty years later, they are \$62 million and \$5.2 billion, respectively. Another interesting finding is that there is a substantial increase in average firm size from  $MV_{9}$  to  $MV_{10}$ . Since these two findings are consistent over the entire test period, the average portfolio market values for interim years are not reported. These results are similar to the empirical evidence provided by Reinganum (1981).

The utility sample in this study contains 152 firms whereas Reinganum's sample contains 535 firms that are mainly industrial companies. Two conclusions may be drawn from the results of the Reinganum study and this one. First, utilities and industriales are similar in the sense that their market values vary over a wide spectrum. Second, the fact that there is a huge jump in firm size from MV<sub>9</sub> to  $MV_{10}$  indicates that the distribution of firm size is positively skewed. To correct for the skewness problem, the natural logarithm of the mean equity value of each portfolio is calculated. This variable is then used in later regressions instead of the actual mean equity value.

### 2. Betas of the Utility and Industrial Samples

The betas based on monthly, weekly and daily returns are reported for the utility and industrial samples. For simplicity, they will be referred to as monthly, weekly, and daily betas. In all cases, five years of returns are used to estimate the systematic risk. The betas estimated over the 1963-67 time period are used to proxy for the betas in 1968, which is the beginning of the test period. By the same token, the betas obtained from the time period 1982-86 are used as proxies for the betas in 1987, which is the end of the test period.

The betas from using the equally-weighted and value-weighted indices are calculated in order to check whether the results are affected by the choice of market index. Since the results are similar, only those obtained from the equally-weighted index are reported and analyzed.

Table 2 reports the monthly, weekly and daily betas of the two samples at the beginning and end of the test period. Panel A shows the various betas of the industrial portfolios. Two conclusions may be drawn. First, in the 1960's, smaller market value portfolios tend to have relatively larger betas. This is consistent with the empirical findings by Banz (1981) and Reinganum (1981). Second, this trend seems to vanish in the 1980's, especially when weekly and daily returns are used.

The betas of the utility portfolios are presented in Panel B. The table shows that none of the utility betas are greater than 0.71. A comparison between Panels A and B reveals that utility portfolios are relatively less risky than industrial portfolios after controlling for firm size. The comparison also reveals that, unlike industrial stocks, betas of the utility portfolios are not related to the market values of equity.

The negative correlation between firm size and beta in the industrial sample may introduce a multicolinearity problem in estimating equation (2). Banz (p.11) had addressed this issue and concluded that the test results are not sensitive to the multicolinearity problem. For the utility sample, this problem does not exist.

#### 3. Tests on the Coefficients of Beta and Size

The beta and firm size are used to estimate  $\gamma_1$ and  $\gamma_2$  in equation (2). A t-statistic is used to test if the mean values of the gammas are significantly different from zero. The tests were performed for four 5-year periods which are reported in Table 3. The mean of the gammas and their t-statistic are presented in Panel A for the utilities and in Panel B for the industrial firms.

The empirical results for the utility sample are reported in Panel A of Table 3. When monthly returns are used, 60 regressions were run to obtain 60 pairs of gammas for each of the 5-year periods. When daily returns are used, over 1200 regressions were run for each period to obtain the gammas. The results are similar: in all of the time periods tested, none of the average coefficients for beta and size are significantly different from zero. When weekly returns are used, 260 pairs of gammas were obtained. The average coefficients for beta are not significant in any test period, and the average coefficients for size are not significant in three of the test periods. For the test period of 1978-82, the average coefficient for size is significantly negative at a 5% level.

The test results for the industrial sample are reported in Panel B of Table 3. When monthly returns are used, the average coefficient estimates for size and beta are significant and have the expected sign only in the 1983-87 test period. When weekly returns are used, only the size variable is significantly negative in the 1978-82 period. When daily returns are used, the coefficient estimates for betas and size are not significant at any conventional level.

According to the CAPM, beta is the sole determinant of stock returns. It is expected that the coefficient for beta is significantly positive. However, the empirical findings reported in this study and in Fama and French (1992) only provide weak support for beta in explaining stock returns. The empirical findings in this study also suggest that the size effect varies over time. It is not unusual to document the firm size effect at certain time periods but not at others. Banz (1981) found that the size effect is not stable over time with substantial differences in the magnitude of the coefficient of the size factor (p.9, Table 1). Brown, Kleidon and Marsh (1983) not only have shown that size effect is not constant over time but also have reported a reversal of the size anomaly for certain years.

The research design of this study allows us to keep the sample, test period, and methodology the same with the holding-period being the only variable. The size effect is documented for the industrial sample in one of the four test periods when monthly returns are used and in another when weekly returns are used. When daily returns are used, no size effect is observed. For the utility sample, the size effect is significant in only one test period when weekly returns are used. When monthly and daily returns are used, no size effect is found. Therefore, this study concludes that the size effect is not only timeperiod specific but also holding-period specific.

#### VI. Concluding Remarks

The fact that the two samples show different, though weak, results indicates that utility and industrial stocks do not share the same characteristics. First, given firm size, utility stocks are consistently less risky than industrial stocks. Second, industrial betas tend to decrease with firm size but utility betas do not. These findings may be attributed to the fact that all public utilities operate in an environment with regional monopolistic power and regulated financial structure. As a result, the business and financial risks are very similar among the utilities regardless of their sizes. Therefore, utility betas would not necessarily be expected to be related to firm size.

The objective of this study is to examine if the size effect exists in the utility industry. After controlling for equity values, there is some weak evidence that firm size is a missing factor from the CAPM for the industrial but not for the utility stocks. This implies that although the size phenomenon has been strongly documented for the industriales, the findings suggest that there is no need to adjust for the firm size in utility rate regulations.

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#### Table 1

#### Average Equity Size of the Utility Portfolios at the Beginning and End of the Test Period (Dollar figures in millions)

	A: Beginning (1968)	B: End (1987)	
MV <sub>1</sub>	\$31	\$62	
MV <sub>2</sub>	\$77	\$177	
MV3	\$113	\$334	
MV₄	\$161	\$475	
MV₅	\$220	\$715	
MV <sub>6</sub>	\$334	\$957	
MV <sub>7</sub>	\$437	\$1,279	
MV <sub>8</sub>	\$505	\$1,805	
MV,	\$791	\$2,665	
MV <sub>10</sub>	\$1,447	\$5,399	

#### Journal of the Midwest Finance Association

#### Table 2

Betas of the Two Samples at the Beginning and End of the Test Period

	Monthl	Monthly Betas		Weekly Betas		Daily Betas		
	1963-67	1982-86	1963-67	1982-86	1963-67	1982-86		
Panel A: Indus	strial Firms							
MVI	0.89	1.00	1.15	0.95	1.11	0.92		
MV <sub>2</sub>	0.94	0.87	1.07	1.01	1.14	1.01		
MV <sub>3</sub>	0.88	0.82	1.12	0.86	1.14	1.04		
MV <sub>4</sub>	0.69	0.74	1.00	0.83	1.03	0.86		
MVs	0.73	0.80	1.05	0.96	1.13	1.01		
MV <sub>6</sub>	0.66	0.82	1.03	1.01	1.05	1.04		
MV <sub>7</sub>	0.64	0.81	0.97	1.04	0.98	1.09		
MV <sub>8</sub>	0.62	0.75	0.97	1.11	1.00	1.20		
MV,	0.52	0.78	0.84	1.06	0.94	1.16		
MV <sub>10</sub>	0.43	0.65	0.78	1.01	0.86	1.22		
Panel B: Public	: Utilities							
MVı	0.30	0.37	0.31	0.43	0.30	0.40		
MV <sub>2</sub>	0.28	0.38	0.37	0.47	0.36	0.44		
MV3	0.22	0.42	0.33	0.42	0.31	0.49		
MV₄	0.27	0.35	0.36	0.52	0.34	0.54		
MVs	0.25	0.45	0.37	0.61	0.35	0.62		
MV <sub>6</sub>	0.25	0.41	0.39	0.54	0.40	0.65		
MV <sub>7</sub>	0.20	0.35	0.34	0.54	0.37	0.63		
MV <sub>8</sub>	0.17	0.38	0.34	0.65	0.33	0.68		
MV,	0.19	0.34	0.35	0.60	0.34	0.71		
MV <sub>10</sub>	0.18	0.29	0.38	0.59	0.39	0.71		

#### Table 3

Tests on the Mean Coefficients of Beta  $(\gamma_1)$  and Size  $(\gamma_2)$ .

 $\mathbf{R}_{\mathrm{pt}} = \gamma_{\mathrm{ot}} + \gamma_{\mathrm{lt}} \hat{\boldsymbol{\beta}}_{\mathrm{pt}} + \gamma_{\mathrm{2t}} \hat{\mathbf{S}}_{\mathrm{pt}} + \mathbf{U}_{\mathrm{pt}}$ 

Returns Used:	Monthly (t-value)	Weekly (t-value)	Daily (t-value)	
Panel A: Utility Sam	ple			
1968-72 γ <sub>1</sub>	-0.46% (-0.26)	-0.32% (-0.42)	-0.02% (-0.18)	
γ2	-0.07% (-0.78)	-0.01% (-0.51)	-0.00% (-0.46)	
1973-77 γ <sub>1</sub>	-0.28% (-0.13)	0.14% (0.14)	-0.03% (-0.21)	
γ2	-0.11% (-0.70)	-0.03% (-0.67)	-0.00% (-0.53)	
1978-82 γ <sub>1</sub>	0.55% (0.36)	0.54% (1.00)	0.05% (0.43)	
γ <sub>2</sub>	-0.10% (-0.75)	-0.05% (-1.71)*	-0.01% (-1.60)	
1983-87 γ <sub>1</sub>	1.74% (1.28)	-0.24% (-0.51)	-0.02% (-0.18)	
γ <sub>2</sub>	-0.16% (-1.54)	-0.03% (-0.86)	-0.01% (-0.63)	
Panel B: Industrial Sa	mple			
1968-72 γ <sub>1</sub>	-0.36% (-0.27)	-0.28% (-0.55)	-0.02% (-0.32)	
<b>γ</b> <sub>2</sub>	0.07% (0.43)	-0.01% (-0.19)	0.00% (0.51)	
1973-77 γι	1.34% (0.64)	-0.23% (-0.31)	0.14% (1.45)	
γ <sub>2</sub>	-0.01% (-0.06)	-0.04% (-0.85)	-0.00% (-0.64)	
1978-82 γ <sub>1</sub>	-0.84% (-0.28)	-0.56% (-0.91)	-0.09% (-0.81)	
$\gamma_2$	-0.29% (-0.75)	-0.01% (-1.72)*	-0.00% (-1.33)	
983-87 γ <sub>1</sub>	2.51% (1.83)*	0.34% (0.64)	0.11% (1.40)	

\* Significant at the 5% level based on a one-tailed test.



#### **RRA REGULATORY FOCUS**

# Average authorized gas ROE slightly up; electric largely unchanged

Thursday, October 28, 2021 1:16 PM ET

By Lisa Fontanella Market Intelligence

The average return on equity authorized electric utilities was 9.41% in rate cases decided in the first nine months of 2021, in line with the 9.44% average for cases in full-year 2020. There were 33 electric ROE determinations in the first nine months of 2021 versus 55 in full year 2020.

The average ROE authorized gas utilities was 9.54% in cases decided in the first nine months of 2021 versus 9.46% in full year 2020. There were 26 gas cases that included an ROE determination in the first nine months of 2021 versus 34 gas cases in full year 2020.

The electric data set includes several limited-issue rider cases. Excluding these cases, the average authorized ROE was 9.42% in electric general rate cases decided in the first nine months of 2021, versus 9.39% observed in full-year 2020. There is, however, little difference between the ROE averages including rider cases and those excluding rider cases for the first nine months of 2021. Historically, the annual average authorized ROEs in electric cases that involve limited-issue riders have been meaningfully higher than those approved in general rate cases, driven primarily by substantial ROE premiums authorized in generation-related limited-issue rider proceedings in Virginia. These premiums were approved for limited durations and have since begun to expire, and as a result, the gap between the average ROE observed in the rider cases and that observed in general rate cases has narrowed. Limited-issue rider cases in which a separate ROE is determined have had little use in the gas industry, as most of the gas riders rely on ROEs approved in a previous base rate case.







#### Average electric and gas authorized ROEs and number of rate cases decided

Data compiled Oct. 26, 2021.

YTD=year-to-date, through Sept. 30, 2021

Source: Regulatory Research Associates, a group within S&P Global Market Intelligence

In the first nine months of 2021, the median ROE authorized in all electric utility rate cases was 9.38%, versus 9.45% in full year 2020. For gas utilities, the metric was 9.52% in the first nine months of 2021, versus 9.42% in full year 2020.

Looking at the last 12 months ended Sept. 30, 2021, the average ROE authorized in all electric utility rate cases was 9.38% and the median was 9.40%, while for gas utilities, the average was 9.51% and the median was 9.52%.

For a chronological listing of the major energy rate case decisions issued during 2020 as well as historical summary data going back to 1990, see RRA's latest Rate Case Decisions Quarterly Update.

Regulatory Research Associates is a group within S&P Global Market Intelligence.

For a full listing of past and pending rate cases, rate case statistics and upcoming events, visit the S&P Capital IQ Pro Energy Research Home Page.

For a complete, searchable listing of RRA's in-depth research and analysis, please go to the S&P Capital IQ Pro Energy Research Library.

This article was published by S&P Global Market Intelligence and not by S&P Global Ratings, which is a separately managed division of S&P Global.

#### Cause No. 45621 Northern Indiana Public Service Company LLC's Objections and Responses to Indiana Office of Utility Consumer Counselor's First Set of Data Requests

#### OUCC Request 1-003:

Please provide a copy of all Requests for Proposals sent to potential rate case consultants in relation to obtaining services for this rate case. (Please include all requests for accounting, legal, engineering, cost of service, depreciation studies, and cost of equity services, along with any other requests for rate case services sent by Petitioner.)

#### **Objections:**

NIPSCO objects to this Request on the grounds and to the extent that this Request seeks information that is confidential, proprietary and/or trade secret.

#### Response:

Subject to and without waiver of the foregoing general and specific objections, NIPSCO is providing the following response:

NIPSCO had existing relationships with all external consultants. Given the accelerated timeline and the Company's assumption that those with knowledge of NIPSCO and its previous rate cases would be able to pursue a case more efficiently and expeditiously, NIPSCO engaged existing contractors.

Attachment LDC-17 Cause No. 45621 Page 1 of 19



#### SUPREME COURT OF MISSOURI en banc

SPIRE MISSOURI, INC., F/K/A	)	<b>Opinion issued February 9, 2021</b>
LACLEDE GAS COMPANY,	)	
	)	
Appellant,	)	
	)	
V.	)	
	)	
PUBLIC SERVICE COMMISSION OF	)	No. SC97834
THE STATE OF MISSOURI,	)	
	)	
Respondent,	)	
	)	
and	)	
	)	
OFFICE OF PUBLIC COUNSEL,	)	
	)	
Intervenor.	)	

#### APPEAL FROM THE MISSOURI PUBLIC SERVICE COMMISSION

Spire Missouri, Inc. ("Spire), formerly known as Laclede Gas Co., is an investor-owned public utility regulated by the Public Service Commission ("PSC"). In April 2017, Spire filed tariffs to increase its general rates for gas services in its Spire Missouri East and Spire Missouri West territories.<sup>1</sup> The PSC suspended Spire's new

<sup>&</sup>lt;sup>1</sup> Spire East was formerly known as Laclede Gas Company, and Spire West was formerly known as Missouri Gas Energy. For ease of use, only currently existing business entities and

tariffs until March 2018 and established a test year. The cases were consolidated, and several parties were granted intervention. The PSC issued its Amended Report and Order in March 2018. Among the PSC's conclusions, the Amended Report and Order disallowed a portion of Spire's rate case expenses, included some of the proceeds from the 2014 sale of a facility in setting Spire's new rates, and determined Spire East's prepaid pension asset was \$131.4 million (or approximately \$28.8 million less than Spire contended). Spire appeals. This Court has jurisdiction pursuant to article V, section 10 of the Missouri Constitution. The Amended Report and Order is affirmed in part and reversed in part, and the case is remanded for further proceedings consistent with this opinion.

#### Background

In April 2017, Spire filed tariffs with the PSC that would implement general rate increases in its Spire East and Spire West service areas. The tariffs would have increased annual gas revenue for Spire East by approximately \$58.1 million. Because approximately \$29.5 million of this already was being recovered through Spire's infrastructure system replacement surcharge ("ISRS"), the net increase in revenue for Spire East would be \$28.5 million. The tariffs would have increased annual gas revenue for Spire West by approximately \$50.4 million. Because approximately \$13.4 million of this already was being recovered through Spire West's ISRS, the net increase in revenue for Spire West would be \$37 million.

corresponding service areas are referenced herein, even though those entities had not yet been formed during a part of the time period at issue in this case.

The PSC suspended Spire's general rate increase tariffs until March 2018 and established a test year for the 12-month period ending December 31, 2016, to be updated for known and measurable changes through June 30, 2017. Several parties, including the Office of Public Counsel, were granted intervention,<sup>2</sup> and the cases were consolidated for hearing purposes. The PSC held local public hearings. The PSC then held evidentiary hearings and true-up hearings followed by briefing. Several issues were resolved by stipulations unopposed by any of the non-signatory parties, and the PSC approved those stipulations. The PSC then issued its consolidated Amended Report and Order on March 7, 2018, which became effective March 17, 2018.

Among the many issues before it, the PSC considered what portion of Spire's rate case expenses ought to be included in Spire's new base rates (and, therefore, paid for by Spire's customers rather than its investors). The PSC concluded that, because it is required under section 393.130.1<sup>3</sup> to set rates that are "just and reasonable," it had the broad discretion to determine whether it was just and reasonable for Spire's shareholders to share the burden of rate case expenses with ratepayers. As of September 30, 2017, Spire's total rate case expenses were \$1,393,399. The PSC's staff of technical and subject matter experts ("Staff") recommended disallowing expenses relating to the

<sup>&</sup>lt;sup>2</sup> These parties also included: Missouri Industrial Energy Consumers; Midwest Energy Consumers Group; Missouri Department of Economic Development – Division of Energy; Missouri School Board Association; the City of St. Joseph; National Housing Trust; Environmental Defense Fund; MoGas Pipeline, LLC; USW Local 11-6, which intervened only in the Spire East case; and Kansas City Power & Light Company and KCP&L Greater Missouri Operations, which intervened only in the Spire West case.

<sup>&</sup>lt;sup>3</sup> All statutory references are to RSMo 2016.

procurement of a Cash Working Capital study by the consultant firm ScottMadden. The Office of Public Counsel recommended disallowing expenses related to Spire's expert witness Thomas Flaherty because of the high hourly rate charged. The PSC determined that approximately half the litigated issues in this case were driven by Spire and among these issues were the proposed use of various shareholder-favorable ratemaking tools, including a revenue stabilization mechanism, a rate of return on equity of 10.35 percent (which would have been the highest of any large utility in Missouri), tracking mechanisms to limit shareholder risk, and earnings-based incentive compensation. The PSC further determined Spire "padded" its revenue requirement by pursing positions it did not expect to win. Accordingly, the PSC determined Spire should recover the entire cost of customer notices, totaling \$436,000, and Spire's depreciation study,<sup>4</sup> totaling \$54,114, but only 50 percent of Spire's remaining rate case expenses. The PSC ordered these allowed rate case expenses normalized over four years.

The PSC also considered whether some of the proceeds of Spire's sale of one of its service centers should be used to offset Spire's purchase of a more expensive service center and, therefore, inure to the benefit of ratepayers. Spire East owned and operated three district service centers providing leak detection, leak repair, construction, maintenance, and marking services. One of the service centers was located near Forest Park in the city of St. Louis ("the Forest Park property"). In 2013, Spire acquired two properties adjacent to the Forest Park property for additional leverage in negotiations.

<sup>&</sup>lt;sup>4</sup> Gas utilities are required to file a depreciation study every five years pursuant to 20 C.S.R. 4240-3.160(1)(A).

Then, in 2014, as part of a restructuring of Spire following the acquisition of Spire West, Spire sold the Forest Park property (and the two adjacent properties) to the Cortex Innovation Community in St. Louis, which purchased the properties for construction of an IKEA retail store. The sale price for the Forest Park property included a gain of approximately \$7.6 million, excluding the \$1.8 million undepreciated book value of recent capital improvements to the facilities, and an allowance of \$5.7 million for relocation expenses. Of the relocation expense allowance, Spire used \$1.95 million to purchase furniture and fixtures for its new offices at 700 and 800 Market Street in the city of St. Louis and \$200,000 to lease a temporary space during the move. The evidence did not show how much (if any) of the remaining relocation expenses were necessitated by the move from the Forest Park property to the new Manchester center. Spire contributed \$1.5 million from the gain as a civic contribution to further downtown St. Louis rehabilitation.

In November 2016, Spire opened the newly constructed Manchester Avenue facility in the city of St. Louis as a partial replacement for the Forest Park property. The Manchester Avenue facility has a greater capital cost (\$7.7 million base rate value), but it is more efficient to operate than the aging Forest Park facility. Pursuant to section 393.190, gas utilities must obtain authorization from the PSC to sell any part of its system that is necessary or useful in the performance of its duties to the public, but Spire did not obtain this authorization prior to selling its Forest Park property. The PSC was required to decide whether to consider all, some, or none of the proceeds from the sale of the Forest Park property in setting Spire's new rates. Per Staff's recommendation, the PSC ordered nearly \$3.6 million from the sale (the \$5.7 million relocation costs, less documented relocation expenses and the cost of furniture and fixtures for the new offices) be used to offset the cost of the more expensive capital asset of the Manchester Avenue facility. The PSC ordered this amount amortized over five years.

Finally, the PSC considered the amount of Spire's pension contributions to include in base rates. Spire makes contributions to its pension plan pursuant to a collective bargaining agreement with its union employees. A prepaid pension asset is a regulatory asset representing the amount Spire has contributed to its pension plan but has not yet recovered from ratepayers. A pension liability is the opposite; it arises when Spire collects more from ratepayers than it has contributed to its pension plan. It is undisputed that Spire West has a pension liability of \$28.4 million, but the amount of Spire East's pension asset (or liability) was in dispute. Staff and Spire agree that at least \$131.4 million has accumulated in Spire East's pension asset since 1996, but they disagree as to what amount (if any) accumulated prior to that time. Spire argued the pension asset includes an additional \$28.8 million, which accumulated between 1990 and 1996, during which time Spire East filed rate cases in 1990 (i.e., rates for 1990-1992), 1992 (i.e., rates for 1992-1994), and 1994 (i.e., rates for 1994-1996).

The disagreement between Staff and Spire centers on whether Spire East used the cash or accrual method of accounting to account for the pension asset in its 1990, 1992,
and 1994 rate cases. FAS 87 and FAS 88 are Financial Accounting Standards articulating generally accepted accounting principles in accounting for the accrual of a pension asset. These are used routinely in reporting but less regularly in ratemaking. Staff argued Spire East did not begin to use both FAS 87 and FAS 88 to calculate its pension asset in rate cases until the 1996 rate case in that it used neither standard in the 1990 and 1992 cases and only FAS 87 (but not FAS 88) in the 1994 rate case. Spire concedes there is evidence suggesting its pension expense was calculated on a cash basis in the 1992 rate case but argues it had been using FAS 87 for financial reporting purposes since 1987 and, therefore, FAS 87 and FAS 88 would had to have been (and were) used in the 1990, 1992, and 1994 rate cases. With respect to the 1994 rate case, Spire contends the explicit references to FAS 87 necessarily included reference to FAS 88 because the two are inseparably intertwined and the former would not have been used without the latter. The amount in dispute from 1990 through 1994 is \$19.8 million, and the amount in dispute between 1994 and 1996 is \$9 million.

In its Amended Report and Order, the PSC rejected Spire's position and adopted, instead, the testimony of Staff witness Young. Among his lengthy and complex testimony, Young testified that – even though Spire has used FAS 87 for reporting since 1987 – neither Spire East's nor Staff's accounting schedules in the 1990, 1992, and 1994 rate cases itemized a pension asset using FAS 87 and FAS 88. This was supported by the record in the 1992 rate case, which seems clearly to rely upon the cash accounting approach. Staff contends only FAS 87, but not FAS 88, was used in the 1994 rate case. Because the PSC determined Spire East used the cash method in all three rate cases, it disallowed \$19.8 million in claimed pension assets for 1990 through 1994 and \$9 million in claimed pension assets for 1994 to 1996. As a result, the PSC determined Spire East's pension asset was \$131.4 million, to be amortized over eight years.

#### Discussion

# I. General principles governing the PSC and judicial review

Before proceeding to the merits of this case and analyzing Spire's points on appeal, three principles fundamental to the law governing public utility regulation warrant emphasis.

A PSC decision is presumed valid and the burden is on the party challenging it to demonstrate the decision is unlawful or unreasonable. Mo. Pub. Serv. Comm'n v. Union *Elec. Co.*, 552 S.W.3d 532, 538-39 (Mo. banc 2018). *See also* § 386.510 (providing for judicial review of "the reasonableness or lawfulness of the original order" from the PSC). The decision is lawful where the PSC has statutory authority to render its decision. Union Elec. Co., 552 S.W.3d at 539. It is reasonable if supported by substantial, competent evidence on the whole record, it is not arbitrary and capricious, and is not based on an abuse of discretion. Id. See also § 536.140.2 (providing for judicial review of agency decisions to determine whether the action of the agency: "(1) Is in violation of constitutional provisions; (2) Is in excess of the statutory authority or jurisdiction of the agency; (3) Is unsupported by competent and substantial evidence upon the whole record; (4) Is, for any other reason, unauthorized by law; (5) Is made upon unlawful procedure or without a fair trial; (6) Is arbitrary, capricious or unreasonable; (7) Involves an abuse of discretion").

This two-step analysis of lawfulness and reasonableness is required by, and instituted in furtherance of, article V, section 18 of the Missouri Constitution, which provides that judicial review of administrative decisions "shall include the determination whether the same are authorized by law, and in cases in which a hearing is required by law, whether the same are supported by competent and substantial evidence upon the whole record." Analyzing the constitutional standard that administrative decisions must be supported by competent and substantial evidence on the whole record, this Court explained that judicial review of administrative factfinding *does not* view the evidence and all reasonable inferences in the light most favorable to the award or decision. *Hampton v. Big Boy Steel Erection*, 121 S.W.3d 220, 223 (Mo. banc 2003). Instead:

A court must examine the whole record to determine if it contains sufficient competent and substantial evidence to support the award, i.e., whether the award is contrary to the overwhelming weight of the evidence. Whether the award is supported by competent and substantial evidence is judged by examining the evidence in the context of the whole record. An award that is contrary to the overwhelming weight of the evidence is, in context, not supported by competent and substantial evidence.

*Id.* at 222-23 (citations and footnotes omitted). This approach gives weight to the administrative agency's role as the finder of fact without abdicating the requirement in article V, section 18 that the judiciary stand as an independent check against abuse by the executive branch when it undertakes a judicial or quasi-judicial function.

Second, a public utility is entitled to recover from ratepayers all its costs (plus a reasonable return on its investments) by way of rates that are "just and reasonable." *Office of Pub. Counsel v. Mo. Pub. Serv. Comm'n*, 409 S.W.3d 371, 376 (Mo. banc 2013). *Accord Mo. Pub. Serv. Comm'n*, 552 S.W.3d at 534 ("As a general matter,

utilities ... recover their costs (plus a reasonable return on their investments) through the sale of [gas] at the rates set by the [PSC]."); § 393.150.2 ("At any hearing involving a rate sought to be increased, the burden of proof to show that the increased rate or proposed increased rate is *just and reasonable* shall be upon the gas corporation ....") (emphasis added). "Just and reasonable" rates, therefore, allow public utilities to recover expenses that are (1) fair to both investors and ratepayers and (2) prudently incurred. The PSC ordinarily applies a presumption of prudence in determining whether a utility reasonably incurred its expenses. *Office of Pub. Counsel*, 409 S.W.3d at 376. This presumption of prudence will "not survive a showing of inefficiency or improvidence that creates serious doubt as to the prudence of an expenditure." *Id.* (quotation omitted). "If such a showing is made, the presumption drops out and the applicant has the burden of dispelling these doubts and proving the questioned expenditure to have been prudent." *Id.* 

Finally, the PSC is prohibited from engaging in retroactive ratemaking. This is one of the bedrock principles long governing the PSC's role in setting rates. As this Court has explained:

The [PSC] has the authority to determine the rate [t]o be charged. In so determining it may consider past excess recovery insofar as this is relevant to its determination of what rate is necessary to provide a just and reasonable return in the future, and so avoid further excess recovery. It may not, however, redetermine rates already established and paid without depriving the utility (or the consumer if the rates were originally too low) of his property without due process .... The utilities take the risk that rates filed by them will be inadequate, or excessive, each time they seek rate approval. To permit them to collect additional amounts simply because they had additional past expenses not covered by either clause is retroactive rate making, i. e., the setting of rates which permit a utility to recover past

losses or which require it to refund past excess profits collected under a rate that did not perfectly match expenses plus rate-of-return with the rate actually established. Past expenses are used as a basis for determining what rate is reasonable to be charged in the future in order to avoid further excess profits or future losses, but under the prospective language of the statutes, they cannot be used to set future rates to recover for past losses due to imperfect matching of rates with expenses.

State ex rel. Utility Consumers' Council of Mo., Inc. v. Pub. Serv. Comm'n, 585 S.W.2d

41, 58-59 (Mo. banc 1979) ("*UCCM*") (citations omitted), *superseded on other grounds by* § 386.266. In other words, the PSC must determine a rate that is just and reasonable using a utility's past expenses *only* as a way to estimate the utility's future costs (and fair return); not to allow a utility to recover past losses or to force it to refund ratepayers past excess profits.

## II. Rate Case Expenses

Spire, in its first point, argues the PSC's decision to exclude a portion<sup>5</sup> of Spire's rate case expenses is contrary to law because the PSC did not find that any of those expenses were imprudent. In its second point, Spire argues this exclusion was unreasonable, arbitrary and capricious, unsupported by competent and substantial evidence, or an abuse of discretion. Both points are denied.

The PSC did not err by excluding a portion of Spire's rate case expenses when calculating Spire's new rates. The expenses Spire sought to recover included: (a) the procurement of a Cash Working Capital study by the consultant firm ScottMadden;

<sup>&</sup>lt;sup>5</sup> Spire's metronomic insistence that the PSC denied "half" or "almost half" of its rate case expenses is both inaccurate and unavailing. Spire's total rate case expenses were nearly \$1.4 million as of September 2017. The PSC allowed full recovery of the cost of customer notices (\$436,000) and the depreciation study (\$54,000). Accordingly, even after the PSC disallowed

(b) unreasonably high hourly fees paid to Spire's expert witness Thomas J. Flaherty; and (c) various shareholder-oriented (and unlikely to succeed) ratemaking strategies such as a revenue stabilization mechanism, a 10.35-percent rate of return on equity (the highest of any large utility in Missouri), tracking mechanisms to limit shareholder risk, and earnings-based incentive compensation. In terms of their reasonableness, these expenditures were entitled to a presumption of prudence, and the *prudence* of the expenditures was never called into question. Nonetheless, the PSC concluded that including all of these expenditures in setting Spire's future rates was not *just* because some of the expenses were not fair to ratepayers in that they only were incurred to benefit (if anyone) Spire's shareholders. See Office of Pub. Counsel, 409 S.W.3d at 376. Implicit in Spire's argument is an assertion that it is entitled to recover all prudent expenditures in its rates. This is not so. In setting rates, the PSC has broad discretion to include or exclude expenditures to arrive at rates it deems to be "just and reasonable," subject, of course, to judicial review that the PSC's conclusions are supported by competent and substantial evidence and not arbitrary, capricious, or an abuse of discretion.

Generally, ratepayers benefit from rate cases because they have an interest in ensuring the financial well-being of the utilities that serve them. Therefore, ratepayers justly and reasonably can be expected to pay a utility's expenses in bringing such a case. But this does not mean there cannot be limits. A utility cannot spend any amount it

approximately \$452,000 of the remaining expenses, Spire recovered approximately \$942,000 (or 68 percent) of its total rate case expenses.

pleases secure in the knowledge or expectation that ratepayers will foot the bill, particularly when those expenses include items seeking to subordinate ratepayers' interests to those of the utility's investors. Here, even assuming there was no basis in the evidence to reject the presumption of prudence with respect to one or more of Spire's rate case expenses, the PSC did not err in its decision to exclude a portion of those expenses in setting "just and reasonable" rates because they served only to benefit shareholders and minimize shareholder risk with no accompanying benefit (or potential benefit) to ratepayers. To be sure, the PSC's decision to exclude 50 percent of Spire's remaining rate case expenses (after allowing full recovery of the cost of notices and the depreciation study) was not the result of a decision to include or exclude expenses on an item-by-item basis. This is not to say, however, that the PSC's decision was unsupported by competent and substantial evidence on the whole record, and it was far from the sort of irrational or unconsidered approached properly characterized as arbitrary, capricious, or an abuse of discretion. Cf. Cox v. Kan. City Chiefs Football Club, Inc., 473 S.W.3d 107, 114 (Mo. banc 2015) ("A ruling constitutes an abuse of discretion when it is clearly against the logic of the circumstances then before the court and is so unreasonable and arbitrary that it shocks the sense of justice and indicates a lack of careful, deliberate consideration.").

The PSC expressly identified those issues (and related expenses) Spire pursued that benefitted only its shareholders and not its ratepayers, and the PSC decided what proportion of the total case (and expenses) they represented.<sup>6</sup> Nothing in the PSC's

<sup>&</sup>lt;sup>6</sup> Spire also argues the PSC's determination to disallow a portion of its rate case expenses is inconsistent with Spire's low average expenses in other cases and contends the PSC's

authorizing statutes or this Court's precedents requires the PSC to conduct an item-byitem analysis when the issue is the degree to which a utility's case expenses should be included in calculating "just and reasonable" rates rather rejecting a particular expense as imprudent. Accordingly, the PSC did not err in excluding a portion of Spire's rate case expenses, and Spire's Points I and II are denied.

## III. Forest Park Property Sale

Spire next argues the PSC erred by ordering that nearly \$3.6 million in relocation proceeds from the sale of the Forest Park property be used to reduce rates. In its second point, Spire claims this constitutes prohibited retroactive ratemaking and, alternatively, that it was arbitrary and capricious in that it was contrary to the traditional treatment of gains on the sale of utility property.<sup>7</sup> This point is denied.

The PSC did not engage in prohibited retroactive ratemaking. Retroactive ratemaking is setting rates for the future in order to redress imprecision in setting prior rates, i.e., to allow the utility to recover prior losses or force it to disgorge excessive profits. *UCCM*, 585 S.W.2d at 58. This does not mean, however, that the prohibition

disallowance amounts to a penalty for Spire exercising its right to prosecute a rate case as it sees fit. The first argument is unconvincing and largely irrelevant because Spire's expenses in other cases are not the issue in and formed no part of the PSC's decision now before the Court. Spire's claim that it is being penalized fares no better because nothing in the PSC's decision restricts what Spire can and cannot raise in a rate case. Instead, it merely addresses who (between the shareholder and the ratepayers) should be burdened with the cost of the decisions Spire makes in this regard.

<sup>&</sup>lt;sup>7</sup> This point is multifarious in that it asserts the PSC's decision regarding relocation expenses was error for two separate and distinct reasons. *Bowers v. Bowers*, 543 S.W.3d 608, 615 n.9 (Mo. banc 2018). Multifarious points preserve nothing for appellate review because they fail to comply with Rule 84.04(d). *Id.* This Court, however, has discretion to review, *ex gratia*, multifarious points on the merits and elects to exercise that discretion here. *Id.* 

against retroactive ratemaking bars all reference to events occurring outside the test year. See State ex rel. GTE N., Inc. v. Mo. Pub. Serv. Comm'n, 835 S.W.2d 356, 368 (Mo. App. 1992) (approving such reference when the "adjustment is (1) 'known and measurable,' (2) promotes the proper relationship of investment, revenues and expenses, and (3) is representative of the conditions anticipated during the time the rates will be in effect"). It is important that the trees do not obscure the forest. The use of the test year concept, the adjustments made to that year, and reference to events outside that year, are merely tools for the PSC to wield in pursuit of identifying rates that are "just and reasonable" as required by § 393.130.1.

For Spire East's future rates to be "just and reasonable," the PSC determined those rates needed to reflect the impact of the sale of the Forest Park property even though that sale occurred outside the test year. Specifically, the PSC determined (among other related matters) that: a) section 393.190.1 required Spire to obtain prior approval of this sale from the PSC but it failed to do so; b) the new service center was a more expensive capital asset than the Forest Park property; and c) the evidence did not establish how much (if any) of the nearly \$3.6 million in unspecified relocation expenses were incurred in the move from the Forest Park property to the Manchester property. Spire's point relied on does not claim these findings (or others underlying the PSC's treatment of the Forest Park property sale) were not supported by competent and substantial evidence on the record as a whole, only that this treatment was retroactive ratemaking and inconsistent with the PSC's prior practice. Because there is no suggestion the PSC was setting Spire's new rates to account for profits or losses resulting from prior rates, Spire's claim that this was prohibited, retroactive ratemaking is denied.

The Court also rejects Spire's contention that the PSC's decision regarding the sale of the Forest Park property was arbitrary and capricious because it departed from approaches taken by the PSC in prior cases. "[A]n administrative agency is not bound by stare decisis, nor are PSC decisions binding precedent on this Court." State ex rel. AG Processing, Inc. v. Pub. Serv. Comm'n of Mo., 120 S.W.3d 732, 736 (Mo. banc 2003). Therefore, even if the Court assumes (without deciding) that the PSC's approach was a departure from its prior practice, this alone does not render the PSC's approach so illogical or unreasonable as to justify a conclusion that it was arbitrary, capricious, or an abuse of discretion. Cf. Cox, 473 S.W.3d at 114 (An abuse of discretion occurs when decision is "clearly against the logic of the circumstances then before the court and is so unreasonable and arbitrary that it shocks the sense of justice and indicates a lack of careful, deliberate consideration."). Because the PSC's decision shows a reasoned, careful approach to what may well be a new or newly increasing problem, this Court rejects Spire's claim that it was arbitrary, capricious, or an abuse of discretion merely because it may have departed from prior decisions on similar issues.

#### IV. Spire East's Pension Asset

In its final point, Spire argues the PSC's decision to eliminate \$28.8 million from Spire East's pension asset was arbitrary, capricious, or unsupported by competent and substantial evidence because it was inconsistent with Spire's evidence that the pension asset was calculated using FAS 87 and FAS 88 throughout Spire's 1990, 1992, and 1994 rate cases. This claim is rejected in part and granted in part.

Spire concedes the pension asset was determined on a cash basis in the 1992 rate case. Nevertheless, Spire points to testimony in the 1990 rate case by Staff witness Rackers that Spire contends supports the conclusion that the pension asset in that case was calculated pursuant to FAS 87 and FAS 88 accounting standards. And, because no departure from this approach was explicitly authorized in the 1992 rate case, Spire argues this could support a finding in its favor regarding that case as well. But this argument was in stark contrast to the testimony of Staff witness Young, who testified that neither Spire East nor Staff included an itemized pension asset based on FAS 87 and FAS 88 in their accounting schedules for Spire's rate cases between 1987 and 1994. Accordingly, there was competent and substantial evidence for the PSC to decide either way with respect to how the pension asset was calculated in the 1990 and 1992 cases. This Court will not substitute its judgment for that of the PSC as to how such a complex question should be resolved where the evidence was in such near equipoise. See Hampton, 121 S.W.3d at 222-23.

But the evidentiary scales were not so nearly balanced with respect to how Spire's pension liability was accounted for in the 1994 rate case. Spire showed (and Staff clearly recognized) that Spire East began to use FAS 87 beginning with the 1994 rate case. But, because Staff argues that there was no similar showing with respect to Spire East's use of FAS 88, Staff claimed the cash accounting must have been used to calculate the pension asset in the 1994 rate case and the \$9 million accruing between 1994 and 1996 should be

excluded. But Spire's evidence (which was uncontroverted) showed that FAS 87 and FAS 88 are inextricably linked, that the former would not have been used without the latter, and that reference to FAS 87 was simply shorthand for reference to both FAS 87 and FAS 88. Moreover, the record in the 1994 rate case suggests the dispute was not over whether FAS 88 would be used but rather how it would be used. In light of this, the Court holds the PSC's decision to extend the period in which it determined Spire East used cash accounting to value its pension asset from 1994 to 1996 was not supported by competent and substantial evidence on the record as a whole. Viewed in isolation, there was evidence to support the PSC's decision in this respect, but this Court's review does not use this approach. Id.<sup>8</sup> Instead, the PSC's decision must be supported by competent and substantial evidence on the whole record, including the evidence the PSC rejected. In this very close case, the Court is persuaded it was not. Accordingly, though the Court affirms the PSC's Amended Report and Order in all other respects, the Amended Report and Order is reversed to this extent and the matter remanded to the PSC to add the \$9 million in pension assets that accrued between 1994 and 1996 to Spire East's \$131.4 million prepaid pension asset. Because this increase in the amount of Spire East's

<sup>&</sup>lt;sup>8</sup> After *Hampton*, this Court revisited the issue to emphasize that judicial review of an administrative agency finding is not at all like appellate review of a circuit court finding. *Seck v. Dep't of Transp.*, 434 S.W.3d 74, 78-79 (Mo. banc 2014). In reviewing a circuit court's finding, an appellate court considers only the evidence and reasonable inferences that support that finding and examines that evidence and those inferences only in the light most favorable to the finding the circuit court made. *Id.* at 78-79. In reviewing a factual finding made by an administrative agency, on the other hand, judicial review is governed by article V, section 18 of the Missouri Constitution and "must consider all of the evidence that was before the agency and all of the reasonable inferences ... including the evidence and inferences that the agency rejected in making its findings." *Id.* at 79.

pension asset might bear on its amortization, the case is remanded for further proceedings consistent with this opinion.

# CONCLUSION

For the reasons set forth above, the PSC's Amended Report and Order is affirmed in part and reversed in part, and the case is remanded for further proceedings consistent with this opinion.

Paul C. Wilson, Judge

All concur.



Phone

Web

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Gas Safety

3524.

utility lines for free.

2

3.

carbon monoxide or fire:

Leave the building or area immediately.

positions and avoid doing anything that could cause a spark. From a safe place, away from the building

RIAR

All our employees and contractors carry photo identification. Ask to see it before allowing

anyone who claims to be a utility representative into your home. Call the police

or area, call 911 and NIPSCO at 1-800-634-

Leave windows and doors in their

Always Call 8-1-1 Before You Dig If you're planning a home or landscaping project, call Indiana 811 at least two business

if you see suspicious activity.

**Employee Identification** 

# Attachment LDC-18

Cause No. 45621 Account Number: Statement Date: 11/09/2021 Page 1 of 2

5092 Page 1 of 2

\$14.98

-\$14.98

\$0.00

+\$27.62



# Monthly Message Board

#### Detecting a Gas Leak

If you even THINK you smell gas inside your home or business, take action. STOP what you are doing. LEAVE the area immediately. CALL 911 and NIPSCO at our emergency number, 1-800-634-3524, 24 hours a day. NIPSCO will send someone to check the source of the odor FREE OF CHARGE, whether there is a leak or not. To learn more about leak detection and natural gas safety, visit NIPSCO.com/staysafe.



Account Number:

\$28.60

Please fold on the perforation below, detach and return with your payment.

Automatic Bill Payment on 11/29/2021: \$27.62 If paid after 11/29/2021, the amount due will be









NIPSCO P.O. BOX 13007 MERRILLVILLE, IN 46411-3007 յունիկներներն են հետևերին հետևերին ինդինքներին հետևերին հետևերին հետևերին հետևերին հետևերին հետևերին հետևերին հ



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Web NIPSCO.com

Phone 1-800-464-7726

•

Attachment LDC-18

Cause No. 45621 Account Number:

Page 2 of 2 Statement Date: 11/09/2021 5092

Page 2 of 2

# Helpful Definitions

#### Gas Service Definitions

Gas Delivery Charges are the costs of delivering gas to retail customers. The charges for these services are regulated and these services must be purchased from the local distribution company.

**Gas Supply Charges** include the commodity cost of natural gas, interstate pipeline charges, storage costs, and related charges and is passed through to customers at cost without markup.

**Therm (thm)** is equal to 100,000 Btus and is the basic billing unit for gas.

# Legal Notices

**Rate Schedule** information is available upon request and at NIPSCO.com.

## 13 Month Usage History continued



## Detail Charges

Charge	s for Residential Gas Service - Rate 111	
Gas Sup Gas Com Interstat Total	<b>ply Charges</b> Imodity Charge e Transportation and Storage Charges	\$5.11 \$1.58 <b>+\$6.69</b>
Delivery Delivery Total	Charges Charges	\$19.12 + <b>\$19.12</b>
Indiana S	Sales Tax	+\$1.81
Total C	Charges for Gas Service This Period	\$27.62
• All ( alte	Gas Supply Charges should be considered wher rnatives.	n comparing gas pricing
<ul> <li>Gas ther</li> </ul>	Commodity Charges: Oct 2021 \$0.3550 per th	erm; Nov 2021 \$0.4025 per

 Interstate Pipeline Transportation and Contract Storage Charges: Oct 2021 \$0.1302 per therm; Nov 2021 \$0.0812 per therm

#### Change Contact Information

By providing NIPSCO a telephone number, it enables us to call you about your utility service, future service appointments and other important information pertaining to your account and you're agreeing to receive autodialed and prerecorded voice calls. Please notify us if you wish to opt out or if you no longer use this number. Thank you in advance.

Address	
City	
State	Zip Code
Phone Number	
Add or Edit Email	,

#### Message Board

- Take the seasonal highs and lows out by dividing your yearly energy use into 12 equal monthly payments - for budgeting that's a whole lot easier. Learn more at NIPSCO.com/BudgetPlan.
- Billing, Payment and Pricing Options: NIPSCO offers a variety of options to fit your lifestyle. To learn more, call us or visit NIPSCO.com/BillingPayment.



#### BY THE COMMISSION:

On July 1, 1976, the Public Service Commission of Indiana issued orders in this cause finding that new Rules, Regulations and Standards of Service for Gas Public Utilities operating within the State of Indiana (hereinafter sometimes referred to as "Gas Rules") should be adopted and promulgated as set forth in Appendix A, attached to said order.

The Commission set the new Gas Rules for hearing on August 3, 1976, at 9:30 A.M., EST., in Room 908, State Office Building, Indianapolis, Indiana. Notice of the hearing was published as required by the provisions of I.C. 1971, 4-22-2-4 and, pursuant to this notice, the hearing was held at the time and place indicated.

Notice of the time and place of this hearing was also given by mail to 50 gas utilities operating within the State of Indiana and to the office of the Public Counselor. Proof of publication of the notices published in this cause was incorporated into the record and placed in the official files of the Commission.

At least five (5) copies of the proposed new Gas Rules were continuously on file in the office of the Secretary of the Commission for public inspection prior to the hearing.

The Commission, having considered the statements and briefs of all interested parties now finds that:

1. Although the new Gas Rules adopted hereby are, per se, applicable only to the public (investor owned) gas utilities operating within Indiana, the Citizens Gas and Coke Utility of Indianapolis, (hereafter Citizens Gas), a municipal utility, participated in the rule promulgation hearing and submitted post-hearing comments to the Commission. In addition, Citizens Gas has agreed to adopt the Commission's Gas Rules as its rules for customer service. Pursuant to the provisions of I.C. 1971, 19-3-24-3(9), the Public Service Commission has jurisdiction over not only Citizens Gas'rates but also its rules for service to its customers. Approval of Citizens Gas' service rules is only to be granted after notice of hearing and hearing on the proposed rules. The published notice of the hearing and the hearing of this cause satisfy the procedural requirements of I.C. 1971, 19-3-24-3(9) and, consequently, the new Gas Rules should be applicable not only to the public gas utilities within Indiana but also to Citizens Gas.

- 2. Counsel for consumers objected to the provisions of Rule 15, which authorizes a security deposit of up to 1/3 of the estimated annual bills of certain gas customers. However, the Commission finds this deposit justified because the bills for customers having gas heat greatly fluctuate and a deposit of this size would cover two months of peak usage of an average residential heating customer. In fact, as shown by Citizens Gas, under certain conditions, a deposit of 1/3 of the estimated annual cost of gas service may not even be sufficient to cover two months of peak usage.
- 3. Consumers also argued that such a deposit is unjustified for customers not using gas for heating. However, the annual bills of those customers are so low that a deposit of 1/3 of the estimated annual bill will not require a large cash outlay.

In any event, under the provisions of the new Gas Rules, only a very small percentage of all gas customers will be required to furnish a gas utility with a cash deposit. The Commission therefore finds that it is in the interests of both the majority of gas customers who promptly pay their bills and the gas companies that those customers determined to be poor credit risks and those who have been delinquent on their bills in the recent past, should be required to make a reasonable security deposit.

- 4. Because of the wide fluctuations in gas usage referred to above, the Commission finds it reasonable and appropriate to adopt a longer time period than provided in the Electric Rules after which a customer will automatically obtain a refund of his deposit. Otherwise, a customer required to furnish a deposit might be entitled to an automatic refund of his deposit after having promptly paid his bills during nine months of low usage and prior to the high bills of the winter heating season.
- 5. The new Gas Rules which are attached hereto and made a part hereof as Appendix A, are fair, reasonable, and just, are in the public interest, and should therefore be approved.

IT IS THEREFORE ORDERED BY THE PUBLIC SERVICE COMMISSION OF INDIANA that the new Rules and Regulations of Service for Gas Public Utilities in Indiana, attached hereto and made a part hereof as Appendix A, be, and the same hereby are adopted.

IT IS FURTHER ORDERED that the new Rules and Regulations of Service for Gas Public Utilities in Indiana as set forth in Appendix A, attached hereto and made a part hereof, shall be in full force and effect immediately upon having been approved as to legality by the Attorney General of the State of Indiana and approved by the Governor of the State of Indiana, and the original approved copy thereof filed with the Secretary of State of Indiana.

IT IS FURTHER ORDERED that the Gas public utility companies within the State of Indiana and the Citizens Gas and Coke Utility shall comply with the new rules within 180 days of their becoming effective.

IT IS FURTHER ORDERED that the Secretary of the Commission submit six (6) copies of the order and the attached Appendix A to the Attorney General of Indiana for his approval as to the legality of the same, and then submit said copies to the Governor of the State of Indiana for his approval, and thereafter file the original approved copy and one duplicate thereof with the Secretary of State of Indiana and one duplicate with the Indiana Legislative Council.

#### WALLACE AND PLASKETT CONCUR; POWERS CONCURS IN PART AND DISSENTS IN PART:

# APPROVED: SEP 1 3 1976

In I.C. 1971, 8-1-2-61 (Burns 54-415) the General Assembly of Indiana has set forth the statutory procedure a public utility must follow in requesting an increase in its rates. In this statute the legislature has defined the notice a public utility must give when it seeks an increase in its rates. The majority Order, in effect, changes that statute. The rule now, and not the statute, dictates the notice a public utility must give. I dissent in the adoption of Rule 16.2(c).

I wholeheartedly concur in all the rest of the new rules.

I hereby certify that the above is a true and correct copy of the Order as approved.

MAX W. TUCKER, SECRETARY

APPENDIX Attachment LDC-19 Cause No. 45621 Page 4 of 6

## RULES AND REGULATIONS OF SERVICE FOR GAS PUBLIC UTILITIES IN INDIANA

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(C) This rule shall not interfere with the practice of a public utility in its tests of gas service meters except that, in the event of a written application to the Commission by a customer for a test, the utility shall not knowingly remove or interfere with said meter without the consent previously given in writing by the customer.

#### Rule 13 Bills for Gas Service.

(A) Bills rendered periodically to customers for gas service shall show at least the following information:

- (1) The dates and meter readings of the meter at the beginning and end of the period for which the bill is rendered and the billing date, and
- (2) The number and kind of units of service supplied,
- (3) The billing rate code,
- (4) The previous balance, if any,
- (5) The amount of the bill,
- (6) The sum of the amount of the bill and the late payment charge,
- (7) The date on which the bill becomes delinquent and on which the late payment charge will be added to the bill,
- (8) If the bill is estimated, a clear and conspicuous coding or other indication identifying the bill as an estimated bill must be shown,
- (9) Printed statements and/or actual figures on either side of the bill shall inform the customer of the seventeen (17) day non-penalty period,
- (10) An explanation, which can be readily understood, of all codes and/or symbols shall be shown on the bill.
- (B) Delinquencies
  - (1) A utility service bill which has remained unpaid for

#### GAS UTILITIES

24, 2007, 8:21 a.m.: 20070509-IR-170070147RFA; filed Dec 15, 2008, 11:46 a.m.: 20090114-IR-170080315FRA; readopted filed Aug 2, 2013, 2:16 p.m.: 20130828-IR-170130227RFA; readopted filed Apr 11, 2019, 9:04 a.m.: 20190508-IR-170190136RFA)

#### 170 IAC 5-1-13 Bills

Authority: IC 8-1-1-3; IC 8-1-2-4 Affected: IC 8-1-2-38; IC 8-1-2-42; IC 8-1-2-87

Sec. 13. Bills for Gas Service. (A) Bills rendered periodically to customers for gas service shall show at least the following information:

(1) The dates and meter readings of the meter at the beginning and end of the period for which the bill is rendered and the billing date, and

(2) The number and kind of units of service supplied,

(3) The billing rate code,

(4) The previous balance, if any,

(5) The amount of the bill,

(6) The sum of the amount of the bill and the late payment charge,

(7) The date on which the bill becomes delinquent and on which the late payment charge will be added to the bill,

(8) If the bill is estimated, a clear and conspicuous coding or other indication identifying the bill as an estimated bill must be shown,

(9) Printed statements and/or actual figures on either side of the bill shall inform the customer of the seventeen (17) day nonpenalty period,

(10) An explanation, which can be readily understood, of all codes and/or symbols shall be shown on the bill.

(B) Delinquencies. (1) A utility service bill which has remained unpaid for a period of more than seventeen (17) days following the mailing of the bill shall be a delinquent bill.

(2) A utility service bill shall be rendered as a net bill. If the net bill is not paid within seventeen (17) days after the bill is mailed, it shall become a delinquent bill and a late payment charge may be added in the amount of ten (10) percent of the first three (3) dollars and three (3) percent of the excess of three (3) dollars.

(C) Estimated Bills. (1) A gas public utility may estimate the bill of any customer only for good cause. Good cause includes, but is not limited to: requests of customer; inclement weather; labor or union disputes; inaccessibility of a customer's meter, if the utility has made a reasonable attempt to read it; and other circumstances beyond the control of the utility, its agents, and employees.

(D) Alternative Billing Method and Dates ("Budget Plan").

(1) Each utility shall have and shall advise each applicant and customer of a policy and practice which allows applicant or customer to contract for a plan whereby the company averages the estimated bill over an extended period and balances the account at the end of that period.

(Indiana Utility Regulatory Commission; No. 34613: Standards of Service For Gas Public Utilities Rule 13; filed Oct 14, 1976, 10:20 am: Rules and Regs. 1977, p. 399; readopted filed Jul 11, 2001, 4:30 p.m.: 24 IR 4233; readopted filed Apr 24, 2007, 8:21 a.m.: 20070509-IR-170070147RFA; readopted filed Aug 2, 2013, 2:16 p.m.: 20130828-IR-170130227RFA; readopted filed Apr 11, 2019, 9:04 a.m.: 20190508-IR-170190136RFA)

#### 170 IAC 5-1-14 Billing adjustments

Authority: IC 8-1-1-3; IC 8-1-2-4 Affected: IC 8-1-2

Sec. 14. (a) If any service meter is found to have a percentage of error greater than that allowed under section 6(a) of this rule, the following provisions for the adjustment of bills shall be observed:

(1) When a meter is found to be fast, in excess of two percent (2%) when tested at check and open rates (positive average error), the utility shall refund the customer's account with the amount of any charges in excess of either of the following:

(A) An average bill for the units of gas incorrectly metered.

(B) Separate bills individually adjusted for the percent of error for a period equal to one-half (1/2) of the time elapsed since the previous test, or one (1) year, whichever period is shorter.

#### AFFIRMATION

I affirm, under the penalties for perjury, that the foregoing representations are true.

ourter on Leja D. Courter

Chief Technical Advisor Indiana Office of Utility Consumer Counselor Cause No. 45621 Northern Indiana Public Service Company LLC

1/20/2022 Date

#### **CERTIFICATE OF SERVICE**

This is to certify that a copy of the foregoing OUCC'S TESTIMONY OF LEJA D.

COURTER has been served upon the following counsel of record in the captioned proceeding by

electronic service on January 20, 2022.

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