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**ROE** Dylan W. D'Ascendis Rebuttal Testimony Spire Missouri Inc. GR-2021-0108 June 17, 2021

### SPIRE MISSOURI INC. CASE NO. GR-2021-0108

### REBUTTAL TESTIMONY OF DYLAN W. D'ASCENDIS

JUNE 17, 2021

#### **TABLE OF CONTENTS**

REBUTTAL TESTIMONY OF DYLAN W. D'ASCENDIS	
I. INTRODUCTION AND PURPOSE	4
II. UPDATED ANALYSIS	7
III. CAPITAL MARKET CONDITIONS	9
IV. RESPONSE TO STAFF WITNESS WON	
Application of the Discounted Cash Flow Model	
Application of the Capital Asset Pricing Model	
Dr. Won's "Rule of Thumb" Analysis	
Failure to Reflect Company-Specific Factors	
Comparison to Recent Authorized ROEs	
V. RESPONSE TO OPC WITNESS MURRAY	
Reliance on Electric Utility-Based Cost of Capital Measures for a	Natural
Gas Distribution Utility	
Application of the Discounted Cash Flow Model	
Application of the Capital Asset Pricing Model	
Application of the Bond Yield Plus Risk Premium Model	
Failure to Reflect Company-Specific Factors	
Capital Structure Return on Equity Adjustment	
VI. CONCLUSION AND RECOMMENDATION	

#### **SCHEDULES**

**DWD Schedule R-1 - Updated ROE Analysis** 

- DWD Schedule R-2 Calculation of Annualized Volatility for the Combined Proxy Group, Mr. Murray's Electric Proxy Group, Utility Indices, the Dow Jones Industrial Average, and the S&P 500
- DWD Schedule R-3 Calculation of Income and Capital Appreciation Returns for Mr. Murray's Proxy Group Companies
- DWD Schedule R-4 Gross Domestic Product Value Added by Industry
- **DWD Schedule R-5 Corrected Staff DCF Model**
- **DWD Schedule R-6 Corrected Staff CAPM Model**
- DWD Schedule R-7 Annual Returns on the Market, 1926 2020
- DWD Schedule R-8 Calculation of Common Equity and Long-Term Debt Ratios for Holding and Operating Companies in Mr. Murray's Gas Proxy Group

1		<b>REBUTTAL TESTIMONY OF DYLAN W. D'ASCENDIS</b>
2		I. INTRODUCTION AND PURPOSE
3	Q.	PLEASE STATE YOUR NAME, AFFILIATION, AND BUSINESS ADDRESS.
4	A.	My name is Dylan W. D'Ascendis. I am employed by ScottMadden, Inc. as a Partner. My
5		business address is 3000 Atrium Way, Suite 241, Mount Laurel, NJ 08054.
6	Q.	ON WHOSE BEHALF ARE YOU SUBMITTING THIS TESTIMONY?
7	А.	I am submitting this rebuttal testimony (referred to throughout as my "Rebuttal
8		Testimony") before the Missouri Public Service Commission ("Commission") on behalf
9		of Spire Missouri Inc. ("Spire" or the "Company").
10	Q.	DID YOU FILE DIRECT TESTIMONY IN THIS PROCEEDING?
11	А.	Yes, I did.
12	Q.	WHAT IS THE PURPOSE OF YOUR REBUTTAL TESTIMONY?
13	А.	The purpose of my Rebuttal Testimony is three-fold. First, I update the analyses in my
14		Direct Testimony to reflect current data. Second, I address capital market conditions and
15		their effect on the Company's investor-required return. Third, I respond to the
16		Commission's Staff Report - Cost of Service ("Staff Report"), as supported by Dr. Seoung
17		Joun Won, and to the Direct Testimony of Mr. David Murray, who testifies on behalf of
18		the Office of the Public Counsel ("OPC") (collectively, the "Opposing Witnesses"), as they
19		relate to the Company's return on common equity ("ROE") on its Missouri jurisdictional
20		rate base.
21	Q.	PLEASE SUMMARIZE YOUR CONCLUSIONS.
22	A.	Based on my updated ROE analyses as of May 28, 2021, my range of reasonable ROEs is

between 9.44% and 12.53% (unadjusted) and 9.66% and 12.75% (adjusted). Given my

1		updated ranges applicable to the Utility Proxy Group and Spire, I maintain my specific
2		ROE recommendation of 9.95%. In view of current markets and the updated results of my
3		ROE models, ROEs of 9.37% (Staff Report) and 9.25% (OPC), are insufficient at this time.
4	Q.	HAVE YOU PREPARED SCHEDULES IN SUPPORT OF YOUR
5		<b>RECOMMENDATION?</b>
6	A.	Yes. I have prepared DWD Schedule R-1 through DWD Schedule R-8, which were
7		prepared by me or under my direction.
8	Q.	HOW IS THE REMAINDER OF YOUR REBUTTAL TESTIMONY
9		ORGANIZED?
10	A.	The remainder of my Rebuttal Testimony contains the following:
11		• My updated analyses;
12		• My response to the Opposing Witnesses' interpretation of current capital market
13		conditions;
14		• My response to Dr. Won's analysis;
15		• My response to Mr. Murray's analysis; and
16		• My conclusions and recommendations.
17	Q.	PLEASE SUMMARIZE THE KEY ISSUES AND RECOMMENDATIONS
18		OFFERED BY OPPOSING WITNESSES THAT YOU ADDRESS IN YOUR
19		REBUTTAL TESTIMONY.
20	A.	My Rebuttal Testimony reviews and responds to the Opposing Witnesses' interpretations
21		of current capital market conditions and their conclusions from those interpretations. I then
22		review and respond to the Opposing Witnesses' analyses concerning the ROE applicable
23		to the Company. Specific to Dr. Won's analyses, I have concerns regarding the following:

1	•	His flawed assumption that the market-data derived ROE is not equal to the
2		authorized ROE in this proceeding;
3	•	His determination of the appropriate ROE based on the relative change in model
4		results from the Company's previous case;
5	•	His misapplication of the Discounted Cash Flow ("DCF") model;
6	•	His misapplication of the Capital Asset Pricing Model ("CAPM");
7	•	The applicability of the "rule of thumb" risk premium model ("RPM");
8	•	His comparison to recent authorized ROEs nationwide; and
9	•	His failure to reflect Company-specific factors (size, credit risk, and flotation costs)
10		in his recommended common equity cost rate.
11	Mr. M	lurray's analyses fall short in the following respects:
12	•	His determination of the appropriate ROE for Spire in this proceeding;
13	•	The applicability of an electric utility proxy group for use in an ROE study for a
14		natural gas distribution utility;
15	•	His misapplication of the DCF;
16	•	His misapplication of the CAPM;
17	•	His misapplication of the Bond Yield Plus Risk Premium;
18	•	His failure to reflect Company-specific factors (size, credit risk, and flotation costs)
19		in his recommended common equity cost rate; and
20	•	His position that the ROE needs to be adjusted should the Commission approve the
21		Company's requested capital structure.

#### **II. UPDATED ANALYSIS**

1	Q.	HAVE YOU UPDATED YOUR COST OF COMMON EQUITY ANALYSES FOR			
2		YOUR REBUTTAL TESTIMONY?			
3	A.	Yes, I have. Due to the passage of time since my Direct Testimony analysis (data as of			
4		September 30, 2020), I have updated my analyses using data as of May 28, 2021.			
5	Q.	HAVE YOU UPDATED YOUR UTILITY PROXY GROUP SELECTION			
6		CRITERIA TO REFLECT 2020 YEAR-END DATA?			
7	A.	Yes, I have. Using fiscal year 2020 data, NiSource Inc. fails the criteria of having at least			
8		60% of net operating income and assets attributable to natural gas distribution operations.			
9		As such, I have eliminated them from my updated Utility Proxy Group.			
10	Q.	HAVE YOU APPLIED ANY OF YOUR ROE MODELS DIFFERENTLY IN YOUR			
11		UPDATED ANALYSES?			
12	A.	No, I have not.			
13	Q.	WHAT ARE THE RESULTS OF YOUR UPDATED ANALYSES?			
14	A.	Using data available as of May 28, 2021, my updated results are presented in page 2 of			

15 DWD Schedule R-1 and in Table 1, below.

	Utility Proxy Group
Discounted Cash Flow Model	9.44%
Risk Premium Model	10.79%
Capital Asset Pricing Model	11.89%
Market Models Applied to Comparable Risk, Non-Price Regulated Companies	<u>12.53%</u>
Indicated Range of Common Equity Cost Rates before Adjustment	9.44%-12.53%
Business Risk Adjustment	0.10%
Credit Risk Adjustment	-0.10%
Flotation Cost Adjustment	0.22%
Recommended Range of Common Equity Cost Rates after Adjustment	<u>9.66%-12.75%</u>
Recommended Cost of Common Equity	<u>9.95%</u>

#### **Table 1: Updated Cost of Common Equity Results**

In view of the unadjusted and adjusted ranges of ROE, I maintain my original ROE recommendation of 9.95%. Upon reviewing my updated results, two items became apparent: 1) the indicated results of the majority of my ROE models have increased from my analyses presented in my Direct Testimony, which is a directional indicator that the investor-required return has increased since my Direct Testimony; and 2) my recommended ROE of 9.95% is a conservative measure of the Company's ROE at this time.

#### **III. CAPITAL MARKET CONDITIONS**

1	Q.	PLEASE SUMMARIZE THE OPPOSING WITNESSES' INTERPRETATIONS OF
2		THE CURRENT CAPITAL MARKET ENVIRONMENT.
3	A.	Dr. Won claims that capital markets are less risky now compared to those during the
4		Company's last rate case (Case Nos. GR-2017-0215 and GR-2017-0216). <sup>1</sup> As justification
5		for his conclusion, Dr. Won points out that interest rates are lower now than during the
6		Company's last rate case and states that interest rates have strong relationships to both
7		Gross Domestic Product ("GDP") and inflation. Because Dr. Won believes GDP growth
8		is projected to be low, he assumes that interest rates will also be low, leading to an extended
9		low ROE environment for utilities. <sup>2</sup>
10		Dr. Won also discusses utility price-to-earnings ("P/E") ratios, which are higher during the
11		pendency of this case compared to last case. Dr. Won explains that the higher the P/E ratio,
12		the lower the expected return. <sup>3</sup>
13		Regarding actual current capital market conditions, Dr. Won notes that current capital
14		market conditions are characterized by increasing interest rates, improving unemployment
15		rates, and rebounding inflation. <sup>4</sup> Dr. Won also cites Federal Reserve ("Fed") Chairman
16		Jerome Powell's statements on September 17, 2020 which reflect no significant change to
17		the Fed Funds Rate until it sees evidence of a tightening labor market and inflation reaches
18		$2.00\%.^5$

Staff Report, at 5. *Ibid.*, at 10. *Ibid.*, at 12. 1

<sup>2</sup> 3

<sup>4</sup> *Ibid.*, at 8-9.

<sup>5</sup> *Ibid.*, at 9.

1 Mr. Murray states that market data has provided inconsistent signals regarding the utility 2 cost of capital, as utility bond yields are at historic lows, which indicates a lower cost of 3 capital, but utility betas are rising, which indicates a higher cost of capital.<sup>6</sup> Mr. Murray 4 attributes the increase in utility betas to the common theory that during significant market 5 corrections, all securities, including utilities, move in tandem with the market.<sup>7</sup>

6 The Opposing Witnesses share the view that utility stock investments are akin to bond 7 investments, and as such, are defensive investments with low risk.<sup>8</sup>

8 Q. DO YOU AGREE WITH THE OPPOSING WITNESSES' OBSERVATIONS AND

9 CONCLUSIONS REGARDING CURRENT CAPITAL MARKET CONDITIONS
 10 AND THE EFFECT OF THOSE CONDITONS ON SPIRE'S ROE?

A. Not entirely. While I agree with most of the Opposing Witnesses' observations, I do not agree with their conclusions. First, I do not agree that current market conditions dictate a prolonged low interest rate environment. Second, I do not agree that elevated P/E ratios necessarily mean lower ROEs. Finally, I do not agree that utility stock investments are akin to bond investments.

### 16 Q. PLEASE PROVIDE YOUR INTERPRETATION OF THE CURRENT INTEREST 17 RATE ENVIRONMENT.

A. Again, I generally agree with the Opposing Witnesses regarding their observation that
interest rates have been falling steadily for the last several years. Where we diverge is that
the extreme dislocation in interest rates during 2020 was due to a volatility-driven "flight
to safety" as opposed to a systematic lowering of capital costs.

<sup>6</sup> Murray Direct Testimony, at 10.

<sup>7</sup> *Ibid.*, at 35-36.

<sup>8</sup> Staff Report, at 11, 19; Murray Direct Testimony, at 9, 38.

Significant and abrupt increases in volatility tend to be associated with significant and abrupt declines in Treasury yields. That relationship makes intuitive sense; as volatility (*i.e.*, risk) increases, investors seek to avoid a capital loss by investing in Treasury securities in a "flight to safety". Because Treasury yields are inversely related to Treasury bond prices, as investors bid up the prices of bonds, they bid down the yields. As Chart 1 below demonstrates, decreases in the 30-year Treasury yield are coincident with significant increases in the Chicago Board Options Exchange ("CBOE") Volatility Index ("VIX"), a visible, widely reported, and popular measure of the stock market's expectation of volatility.<sup>9</sup>







<sup>9</sup> The VIX is a calculation designed to produce a measure of constant, 30-day expected volatility of the U.S. stock market, derived from real-time, mid-quote prices of S&P 500 Index call and put options. Source: www.cboe.com/vix.

<sup>10</sup> Source: Bloomberg Professional.

### 1Q.HAVE INTEREST RATES GENERALLY RISEN OVER THE LAST TWELVE2MONTHS?

A. Yes, they have. As VIX stabilized, interest rates have generally returned to pre-pandemic
levels as shown on Chart 2, below.



Chart 2: 30-Year Treasury Yields – January 2020 to May 2021<sup>11</sup>



6

5

7 Q. AS MENTIONED EARLIER, DR. WON CITED THE FED'S SEPTEMBER
8 COMMENTS REFLECTING NO CHANGES TO THE FED FUNDS RATE UNTIL
9 IT SEES TIGHTENING IN THE LABOR MARKET AND INFLATION AT 2.00%.
10 HAVE YOU MONITORED THOSE MEASURES SINCE THE FED'S
11 STATEMENT?

A. Yes, I have. Regarding the unemployment rate, Dr. Won's cited unemployment rate of
6.2% is accurate, but he is comparing that unemployment rate with the pre-pandemic
unemployment rate of 3.5%, which was the lowest unemployment rate for 50 years.<sup>12</sup> The

<sup>11</sup> Source: Bloomberg Professional.

<sup>12</sup> Source: Bureau of Labor Statistics.

average American unemployment rate is 5.8% over the period 1948-present,<sup>13</sup> which is
 comparable to the current unemployment rate of 6.2%.

3 Moving to inflation, on August 27, 2020, Federal Chairman Powell released a statement noting that the Federal Open Market Committee ("FOMC") will adopt an approach towards 4 5 inflation that "could be viewed as a flexible form of average inflation targeting"; meaning that following periods in which inflation has run below 2.00%, "appropriate monetary 6 policy will likely aim to achieve inflation moderately above 2 percent for some time."<sup>14</sup> 7 8 Since Mr. Powell's remarks, the breakeven inflation rate, represented as the ten-year and 9 30-year Treasury Inflation-Protected Securities spread, has increased from 1.73% and 10 1.76%, respectively, to 2.42% and 2.32% respectively, as of May 28, 2021. Further, as 11 shown in Chart 3 below, breakeven inflation has trended upward since the Federal 12 Reserve's policy change at a relative consistent pace.

<sup>13</sup> Source: Bureau of Labor Statistics dating back to January 1948.

<sup>14</sup> New Economic Challenges and the Fed's Monetary Policy Review, Remarks by Jerome H. Powell, Chair Board of Governors of the Federal Reserve System, August 27, 2020.



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3 Further, looking to other measures of inflation such as the Consumer Price Index ("CPI"), 4 the year-over-year increase in April 2021 was the highest it has been in over ten years. 5 HAS THE FED MADE ANY ADDITIONAL STATEMENTS SUBSEQUENT TO Q. 6 THE SEPTEMBER MEETING REFERRED TO BY DR. WON? 7 Yes. Recently, several FOMC participants have indicated that it would be appropriate for A. the Fed to increase the Fed Funds Rate as early as 2022.<sup>16</sup> 8 9 In addition, the FOMC released minutes from its April 2021 meeting on May 19, 2021, 10 which note that "[a]mid progress on vaccinations and strong policy support, indicators of 11 economic activity and employment had strengthened."

<sup>15</sup> Source: Federal Reserve (<u>https://www.federalreserve.gov/datadownload/</u>)

<sup>16</sup> Federal Open Market Committee, Summary of Economic Projections, March 17, 2021.

### Q. DO YOU AGREE WITH DR. WON THAT GDP IS STRONGLY RELATED TO INTEREST RATES?

A. No, I do not. To verify my position, I calculated the correlation coefficient between annual
GDP growth rates and long-term interest rates from 1929-2020. The result of the study
shows the correlation of GDP growth with interest rates was -0.13, with the scale of 0.00
being not correlated, and plus/minus 1.00 as perfectly correlated (positively/negatively,
respectively).

### 8 Q. DO YOU AGREE WITH DR. WON THAT INFLATION IS STRONGLY 9 RELATED TO INTEREST RATES?

A. Yes, I do. Generally, when inflation is increasing, central banks will attempt to raise interest rates by reducing bond buying programs or increasing their interbank offered rates in an attempt to keep inflation at target levels (a long-term average of 2.00%, as noted above). Over the period 1947-2020, the relationship between inflation, as measured by the year-over-year change in the CPI and interest rates had a 0.63 correlation coefficient, showing a strong positive relationship, which is statistically significant.

#### 16 Q. IS THERE A LINK BETWEEN INFLATION AND AUTHORIZED ROES?

A. Yes, there is. Looking at the yearly growth in the CPI and the corresponding authorized
 ROEs for natural gas utilities, I calculated a correlation of 0.64. In addition, I found the
 relationship between the two variables to be statistically significant.

### 20 Q. WHAT ARE YOUR CONCLUSIONS ABOUT THE CURRENT INTEREST RATE 21 ENVIRONMENT?

A. While interest rates declined sharply at the outset of the COVID-19 pandemic due to high
 market volatility, as that volatility stabilized, interest rates have returned to pre-pandemic

- levels. Furthermore, because inflation is positively correlated to both interest rates and
   authorized ROEs, the current inflationary environment may lead to both increasing interest
   rates and authorized ROEs.

### 4 Q. DR. WON CLAIMS THAT THE HIGHER P/E RATIOS FOR THE GAS PROXY 5 GROUP IS EVIDENCE OF A LOWER ROE. IS HE CORRECT?

A. No, he is not. Dr. Won's position is that a higher P/E ratio translates into a lower earnings
yield (dividend yield), which indicates a lower ROE estimate.<sup>17</sup>

8 When we look to the data underlying Dr. Won's claim, we observe that his position is 9 incorrect. First, looking at Schedule SJW-13, Column [3], we notice that despite the 10 increased P/E ratios in the current period, the current dividend yield is actually higher than 11 it was for Spire's previous case. Second, looking at Dr. Won's Workpapers that support 12 his P/E ratio analysis, I note that from February 24, 2021 to February 25, 2021 (one day), 13 the P/E ratio for Dr. Won's proxy group fell from 24.11 to 12.30, subsequently averaging 14 12.55 for the period February 25, 2021 through March 29, 2021 (the end of Dr. Won's analytical period). Given that 12.55 is lower than the 13.88 during the period of Spire's last 15 16 case, it would appear that the required ROE is currently higher, which is consistent with 17 other capital market and economic data for the two periods discussed above and in response 18 to Dr. Won. Finally, the P/E ratio for the most recent period (12.55) is consistent with 19 price data for Dr. Won's proxy group as shown on Schedule SJW-12. As shown on Table 20 2, below, current prices are, on average, 10.52% lower than they were in Spire's previous

<sup>17</sup> Staff Report, at 12.

case, and since "higher stock prices mean lower COE,"<sup>18</sup> the reduction in stock prices
 equates to a higher cost of equity ("COE").

- 3
- 4

Table 2: Comparison of Dr. Won's Average Proxy Group Stock Prices Current and
Previous Case <sup>19</sup>

Company	Current	Previous	% Difference
Atmos Energy Corporation	91.08	81.74	11.44%
New Jersey Resources Corporation	38.05	40.98	-7.14%
Northwest Natural Holding Company	47.21	60.21	-21.58%
ONE Gas, Inc.	72.34	69.66	3.85%
South Jersey Industries, Inc.	23.98	36.20	-33.76%
Southwest Gas Holdings, Inc.	62.83	80.65	-22.10%
Spire Inc.	65.88	68.88	-4.35%
Average			-10.52%

### 5 Q. EVEN IF YOU ASSUMED DR. WON'S PREMISE WAS CORRECT (P/E RATIOS

### 6 LOWERED DIVIDEND YIELDS), DOES THAT NECESSARILY MEAN THAT

### 7 THE INDICATED ROE FOR THAT COMPANY WOULD BE LOWER?

### 8 A. Mo, it would not. The dcf model has two components: the dividend yield component and

9 the growth component. Because increased p/e ratios indicate higher growth prospects, it

<sup>18</sup> *Ibid.*, at 12.

<sup>19</sup> Schedule SJW-12.

would be assumed that companies with higher p/e ratios would also have higher projected
 earnings per share ("eps") growth rates.

# 3 Q. BOTH DR. WON AND MR. MURRAY CLAIM THAT UTILITY EQUITY 4 INVESTMENTS ARE PROXIES FOR UTILITY BOND INVESTMENTS.<sup>20</sup> DO 5 YOU AGREE?

A. No. Fixed income investments (*i.e.* utility bond investments) are investments without the
volatility of stock prices and produce income through the payment of coupon payments on
bonds or dividends on preferred stocks.

#### 9 Q. DO UTILITY STOCK RETURNS REFLECT LOW VOLATILITY?

- 10 A. No, they do not. The market data of the Combined Gas Proxy Group exhibits significant
- 11 price volatility, as shown in DWD Schedule R-2. From February 3, 2020 to May 28, 2021,
- 12 utilities were generally more volatile (*i.e.*, risky) than the market indices, and had returns
- 13 that underperformed the Dow Jones Industrial Average ("DJIA") and the S&P 500.

#### 14 15

### Table 3: Annualized Volatility and Returns of Utility Groups and Market IndicesFebruary 2020 through May 202121

	Combined Gas Proxy Group	Murray Electric Proxy Group	Dow Jones Utility Average (DJU)	Utilities Select SPDR (XLU)	Dow Jones Industrial Average	S&P 500
Price Change	-14.40%	-9.05%	-4.39%	-5.54%	22.20%	30.34%
Annualized Volatility	47.40%	38.93%	34.58%	34.79%	32.59%	30.87%

<sup>20</sup> Staff Report, at 11; Murray Direct Testimony, at 7.

<sup>21</sup> Source: S&P Global Market Intelligence.

### Q. DO UTILITY STOCKS PROVIDE COMPARABLE YIELDS TO INCOME INVESTMENTS?

A. No, they do not. As shown on Chart 4, below, the dividend yield for the Combined Proxy
Group is steadily and significantly below the A-rated public utility bond yield. Further,
despite the recent, brief reversal of this trend, it is clear from the chart that this reversal is
anomalous, as the two are roughly equal currently, with utility dividend yields trending
downwards in recent weeks while utility bond yields have trended upwards.





11Given the high price volatility and lower dividend yield of natural gas distribution utility12stocks, no rational income investor would consider a natural gas distribution utility stock a13comparable investment to utility bond yields.

### 14 Q. MR. MURRAY CITES A BERNSTEIN STUDY WHICH STATES FROM 197415 2010, UTILITY INVESTORS RECEIVED 68% OF THEIR RETURN VIA

8

9

10

<sup>22</sup> Source: S&P Global Market Intelligence; Bloomberg Professional.

# DIVIDENDS AND THE REMAINDER THROUGH PRICE APPRECIATION.<sup>23</sup> HAVE YOU CALCULATED UTILITY RETURNS TO INVESTORS FOR THE PERIOD 2010-2020?

A. Yes, I have. As shown on DWD Schedule R-3 the median company in Mr. Murray's proxy
groups now provide their investors 69% of their total returns through capital appreciation,
which is the inverse result of the Bernstein study cited by Mr. Murray. Because utility
stocks provide more of their total return through capital appreciation than dividends, the
Opposing Witnesses' assumption that utility stock investments are akin to bond
investments is misplaced.

# 10Q.GIVEN THE FALL IN UTILITY STOCK PRICES DURING THE CORONAVIRUS11PANDEMIC, AS NOTED PREVIOUSLY, IS DR. WON'S POSITION THAT12UTILITY STOCKS REPRESENT SAFE HAVENS DURING PERIODS OF13ECONOMIC SLOWDOWN CORRECT?24

14 Despite Dr. Won's claim that "[i]n times of economic slowdown, utility A. No, it is not. equities perform better than the overall market," as shown on DWD Schedule R-2 and in 15 16 Table 3, above, that is not the case. Another way to determine whether utility stocks are 17 safe havens during economic slowdowns is to look at the relationship between utilities and 18 market indices. I have calculated the correlation coefficients of the price changes of several 19 groups of utilities relative to the S&P 500 and the DJIA from February 1, 2020 to May 28, 20 2021. Table 4, below, shows correlation coefficients for the following relationships:

21

<sup>•</sup> The price changes of the S&P 500 relative to the price changes of the combined gas

<sup>23</sup> Murray Direct Testimony, at 38.

<sup>24</sup> Staff Report, at 11.

1		proxy group;
2	•	The price changes of the S&P 500 relative to the price changes of Mr. Murray's
3		electric proxy group;
4	•	The price changes of the S&P 500 relative to the price changes of the Dow Jones
5		Utility Average ("DJU");
6	•	The price changes of the S&P 500 relative to the price changes of the Utilities Select
7		SPDR ("XLU");
8	•	The price changes of the DJIA relative to the price changes of the combined gas
9		proxy group;
10	•	The price changes of the DJIA relative to the price changes of Mr. Murray's electric
11		proxy group;
12	•	The price changes of the DJIA relative to the price changes of the DJU; and
13	•	The price changes of the DJIA relative to the price changes of the XLU.
14 15	Τε	able 4: Calculation of Correlation Coefficients for Utility Groups Relative to Market Indices from February 2020 through May 2021 <sup>25</sup>

Group	S&P 500	DJIA
Combined Gas Proxy Group	73.77%	76.44%
Murray Electric Proxy Group	75.41%	75.03%
DJU	79.99%	80.28%
XLU	80.21%	80.32%

As shown on Table 4, utility stocks have been trading in tandem with market indices during the current market dislocation, which is consistent with the risk and return data shown on Table 3. The behavior of utility stocks to move in tandem with the market during market distress is not limited to the current period. During the Great Recession (December 2007

25 Source: S&P Global Market Intelligence.

- to June 2009), correlations between these same groups were similar, as shown on Table 5,
- below:
- 3 4

1

2

Table 5: Calculation of Correlation Coefficients for Utility Groups Relative to
Market Indices from December 2007 to June 2009 <sup>26</sup>

Group	S&P 500	DJIA
Combined Gas Proxy Group	81.01%	81.46%
Murray Electric Proxy Group	77.74%	79.28%
DJU	81.57%	82.13%
XLU	78.36%	78.59%

5 This increasing correlation is not surprising. As Morningstar recently explained, during 6 volatile markets there is often little distinction in returns across assets or portfolios. That 7 is, "correlations go to 1."<sup>27</sup> This is consistent with Mr. Murray's statement on pages 35 8 and 36 of his direct testimony when he states, "[i]t is quite common for all securities, both 9 higher-risk and lower-risk securities, to move in tandem during significant market 10 corrections." A direct consequence of increased correlations is higher Beta coefficients 11 and ultimately higher investor-required returns for utilities.

### 12 Q. WHAT ARE YOUR CONCLUSIONS REGARDING CURRENT CAPITAL

#### 13 MARKET CONDITIONS AND THEIR EFFECT ON THE COMPANY'S ROE?

# A. Given all of the above, current market conditions are recovering from the COVID-19 pandemic and are reflecting concerns about increasing inflation. Since inflation is positively correlated to both interest rates and authorized ROEs, increases in inflation would indicate a rising cost of common equity for Spire.

<sup>26</sup> Source: S&P Global Market Intelligence.

<sup>27</sup> Morningstar, Correlations Going to 1: Amid Market Collapse, U.S. Stock Fund Factors Show Little Differentiation, March 6, 2020.

1

#### **IV. RESPONSE TO STAFF WITNESS WON**

### 2 Q. PLEASE PROVIDE A SUMMARY OF DR. WON'S ANALYSES AND 3 CONCLUSIONS REGARDING THE COMPANY'S ROE.

4 A. Dr. Won presents his analyses as of March 31, 2021 and June 30, 2017, the earlier date 5 corresponding to Staff's analysis in Spire's last rate case. Dr. Won uses the 9.80% authorized ROE in that case as a benchmark, and then adjusts that benchmark return based 6 7 on changes in his model results from that case to this one, to form his recommendation. 8 Dr. Won calculates relative changes of negative 0.52% and negative 0.34% based on his 9 DCF model and CAPM results, respectively, averaging negative 0.43%. Subtracting 10 0.43% from the 9.80% benchmark ROE results in a point estimate of 9.37%, within a range 11 of 9.12% and 9.62%. While Dr. Won's recommended range is from 9.12% to 9.62%, his analytical results of his models range from 6.40% to 8.10%.<sup>28</sup> 12

### 13 Q. DO YOU HAVE ANY GENERAL COMMENTS ON DR. WON'S ANALYSES AND 14 RECOMMENDATIONS?

A. Yes, I do. Dr. Won's recommendation does not directly rely on the results of his analytical models, but the relative changes of those model results over time. In view of his model results, I find it hard to imagine that they can be relied on to be a directional indicator of the investor-required return. Model results of 6.40% and 8.10% are far removed from authorized ROEs in the country since at least 1980. Furthermore, Dr. Won's own CAPM result of 6.40% fails his "rule of thumb" criterion for a reasonable ROE.<sup>29</sup>

<sup>28</sup> Staff Report, at Schedules SJW-13 and SJW-14.

<sup>29</sup> Given the Company's embedded cost of debt of 4.00%, a reasonable ROE based on the "Rule of Thumb" would range between 7.00% and 9.00%. While I do not agree with the "Rule of Thumb" RPM, as will be discussed in detail below, this emphasizes the unreasonableness of Dr. Won's ROE model results.

# Q. DOES DR. WON'S NON-RELIANCE ON HIS MODEL'S RESULTS REVEAL A FUNDAMENTAL MISUNDERSTANDING OF THE RELATIONSHIP BETWEEN THE COST OF COMMON EQUITY AND THE ROE THAT WILL ULTIMATELY BE AUTHORIZED IN THIS CASE?

A. Yes. Dr. Won states that "COE is a market-determined, minimum return investors are
willing to accept for their investment in a company compared to returns on other available
investments. An authorized ROE, on the other hand, is a Commission-determined return
granted to monopoly industries, allowing them the opportunity to earn just and reasonable
compensation for their investments."<sup>30</sup> This, coupled with the way Dr. Won arrived at his
9.37% ROE, clearly show he misunderstands the relationship between the cost of common
equity and the authorized ROE.

### 12 Q. PLEASE SUMMARIZE THE RELATIONSHIP BETWEEN ALLOWED ROES 13 AND INVESTOR-REQUIRED ROES.

A. For regulated utilities, the ROE equals the investor-required ROE which equals the allowed
 ROE, as reflected in the *Hope* and *Bluefield* Supreme Court decisions cited in both my
 Direct Testimony<sup>31</sup> and Dr. Won's testimony.<sup>32</sup> This relationship holds because utility
 regulation by regulatory commissions acts as a substitute for competition.

<sup>30</sup> Staff Report, at 7.

<sup>31</sup> D'Ascendis Direct Testimony, at 6.

<sup>32</sup> Staff Report, at 6.

## Q. IS THE CONCEPT OF UTILITY REGULATION AS A SUBSTITUTE FOR MARKET COMPETITION WIDELY ACCEPTED AS A FACT AND REFLECTED AS SUCH IN ACADEMIC LITERATURE?

#### 4 A. Yes, it is. The *Cost of Capital Manual*, which is the training manual for the Society of

- 5 Utility and Regulatory Financial Analysts, states:
- 6 In a sense, the "visible hand of public regulation was (created) to replace the 7 invisible hand of Adam Smith in order to protect consumers against exorbitant 8 charges, restriction of output, deterioration of service, and unfair 9 discrimination."<sup>[footnote omitted]</sup>
- 10 \*\*\*
- 11 As indicated above, regulation of public utilities reflects a belief that the 12 competitive mechanism alone cannot be relied upon to protect the public interest. 13 Essentially, it is theorized that a truly competitive market involving utilities cannot 14 survive and, thereby, will fail to promote the general economic welfare. But this 15 does not mean that regulation should alter the norm of competitive behavior for 16 utilities. On the contrary, the primary objective of regulation is to produce market 17 results (*i.e.*, price and quantity supplied) in the utility sectors of the economy closely approximating those conditions which would be obtained if utility rates and 18 services were determined competitively.<sup>33</sup> 19
- 20 Additionally, in <u>Principles of Public Utility Rates</u>, Bonbright states:
- 21 Lest the reader of this chapter gain the impression that it is intended to deny the 22 relevance of any tests of reasonable rates derived from the theory or the behavior 23 of competitive prices, let me state my conviction that no such conclusion would be 24 warranted. On the contrary, a study of price behavior both under assumed 25 conditions of pure competition and under actual conditions of mixed competition 26 is essential to the development of sound principles of utility rate control. Not only 27 that: any good program of public utility rate making must go a certain distance in accepting competitive-price principles as guides to monopoly pricing. For rate 28 29 regulation must necessarily try to accomplish the major objectives that unregulated competition is designed to accomplish; and the similarity of purpose calls for a 30 31 considerable degree of similarity of price behavior.
- Regulation, then, as I conceive it, is indeed a substitute for competition; and it is even a partly imitative substitute. But so is a Diesel locomotive a partly imitative substitute for a steam locomotive, and so is a telephone message a partly imitative

<sup>33</sup> David C. Parcell, *Cost of Capital Manual*, Society of Utility and Regulatory Financial Analysts, 2010 Edition, at 3-4.

- 1 substitute for a telegraph message. What I am trying to emphasize by these crude 2 analogies is that the very nature of a monopolistic public utility is such as to 3 preclude an attempt to make the emulation of competition very close. The fact, for 4 example, that theories of pure competition leave no room for rate discrimination, 5 while suggesting a reason for viewing the practice with skepticism, does not prove 6 that discrimination should be outlawed. And a similar statement would apply alike 7 to the use of an original-cost or a fair value rate base, neither of which is defensible 8 under the theory or practice of competitive pricing.<sup>34</sup> 9 Finally, Phillips states in The Regulation of Public Utilities: 10 Public utilities are no longer, if they ever were, isolated from the rest of the economy. It is possible that the expanding utility sector has been taking too large 11 a share of the nation's resources, especially of investment.<sup>[footnote omitted]</sup> 12 At a 13 minimum, regulation must be viewed in the context of the entire economy – and 14 evaluated in a similar context. Public utilities have always operated within the 15 framework of a competitive system. They must obtain capital, labor and materials 16 in competition with unregulated industries. Adequate profits are not guaranteed to 17 them. Regulation then, should provide incentives to adopt new methods, improve 18 quality, increase efficiency, cut costs, develop new markets and expand output in line with customer demand. In short, regulation is a substitute for competition and 19 20 should attempt to put the utility sector under the same restraints competition places on the industrial sector.<sup>35</sup> 21 22 In view of the legal standards and treatises on regulation likening regulation of utilities and 23 the competitive market, it is plain to see that allowed returns and investor-required returns 24 are equal. 25 0. DO YOU HAVE ANY ADDITIONAL CONCERNS REGARDING DR. WON'S 26 **ANALYSES AND CONCLUSIONS?** 27 Yes. I have several, as follows: A. 28 His application of the DCF model; • His application of the CAPM; 29 •
- The applicability of his "rule-of-thumb" analysis; and
- His failure to reflect Company-specific factors in his determination of his ROE

James C. Bonbright, <u>Principles of Public Utility Rates</u>, Columbia University Press, 1961, at 106-107.

<sup>35</sup> Charles F. Phillips, <u>The Regulation of Public Utilities</u>, Public Utility Reports, Inc., 1993, at 173.

1		recommendation.
2		Application of the Discounted Cash Flow Model
3	Q.	PLEASE DESCRIBE DR. WON'S APPLICATION OF THE DCF MODEL.
4	A.	Dr. Won performs a DCF model using the following inputs:
5		• Three months of historical prices from the Wall Street Journal;
6		• Current dividends from Value Line Investment Survey ("Value Line");
7		• Projected dividends per share ("DPS") growth rates from <i>Value Line</i> ; and
8		• Projected GDP growth from the Congressional Budget Office.
9		Using these inputs, Dr. Won applies one-half a weighted growth rate (2/3 projected DPS
10		growth, 1/3 projected GDP growth) to the dividend yield and then adds the adjusted
11		dividend yield to the weighted growth rate to arrive at average indicated ROEs of 8.61%
12		and 8.10% for the 2017 and current market data, respectively. The difference between the
13		2017 and current ROEs, or negative 0.52%, is the indicated change in the investor-required
14		return using the DCF model.
15	Q.	DO YOU HAVE ANY SPECIFIC CONCERNS WITH DR. WON'S APPLICATION
16		OF THE DCF MODEL?
17	A.	Yes, I do. While I appreciate Dr. Won's use of projected growth rates in the DCF model,
18		I do not agree with Dr. Won's use of expected DPS growth rates as the growth rate in a
19		DCF analysis. In addition, even though Dr. Won claims that his DCF model is a constant
20		growth model, the use of projected GDP growth rates implies that Dr. Won is actually
21		using a type of multi-stage DCF model, which is not applicable to utility companies.

### Q. WHY ARE EPS GROWTH ESTIMATES MOST APPROPRIATE FOR USE IN THE DCF?

3 A. Over the long run, there can be no growth in DPS without growth in EPS. Earnings 4 expectations have a more significant, but not sole, influence on market prices than dividend 5 expectations. Thus, the use of earnings growth rates in a DCF analysis provides a better match between investors' market appreciation expectations implicit in market prices and 6 7 the growth rate component of the DCF. Consequently, earnings expectations have a 8 significant influence on market prices which affect market price appreciation, and hence, 9 the "growth" experienced by investors. This should be evident even to relatively 10 unsophisticated investors just by listening to financial news reports on radio, TV, or reading 11 newspapers. In fact, Morin states:

12 Because of the dominance of institutional investors and their influence on 13 individual investors, analysts' forecasts of long-run growth rates provide a sound 14 basis for estimating required returns. Financial analysts exert a strong influence on 15 the expectations of many investors who do not possess the resources to make their own forecasts, that is, they are a cause of g. The accuracy of these forecasts in the 16 17 sense of whether they turn out to be correct is not at issue here, as long as they 18 reflect widely held expectations. As long as the forecasts are typical and/or 19 influential in that they are consistent with current stock price levels, they are 20 relevant. The use of analysts' forecasts in the DCF model is sometimes denounced 21 on the grounds that it is difficult to forecast earnings and dividends for only one 22 year, let alone for longer time periods. This objection is unfounded, however, 23 because it is present investor expectations that are being priced; it is the consensus 24 forecast that is embedded in price and therefore in required return, and not the 25 future as it will turn out to be.

- 26 \* \* \*
- Published studies in the academic literature demonstrate that growth forecasts
  made by security analysts represent an appropriate source of DCF growth rates, are
  reasonable indicators of investor expectations and are more accurate than forecasts
  based on historical growth. These studies show that investors rely on analysts'
  forecasts to a greater extent than on historic data only.<sup>36</sup>

<sup>36</sup> Roger A. Morin, <u>New Regulatory Finance</u>, Public Utility Reports, Inc., 2006, at 298. ("Morin")

1		However, while EPS is a significant factor influencing market prices, it is by no means the
2		only factor that affects market prices, a fact recognized by Bonbright regarding public
3		utilities. <sup>37</sup> In addition, studies performed by Cragg and Malkiel demonstrate that analysts'
4		forecasts are superior to historical growth rate extrapolations. They state:
5 6 7 8 9 10 11 12 13 14 15 16 17 18		Efficient market hypotheses suggest that valuation should reflect the information available to investors. Insofar as analysts' forecasts are more precise than other types we should therefore expect their differences from other measures to be reflected in the market. It is therefore noteworthy that our regression results do support the hypothesis that analysts' forecasts are needed even when calculated growth rates are available. As we noted when we described the data, security analysts do not use simple mechanical methods to obtain their evaluations of companies. The growth-rate figures we obtained were distilled from careful examination of all aspects of the companies' records, evaluation of contingencies to which they might be subject, and whatever information about their prospects the analysts could glean from the companies themselves of from other sources. It is therefore notable that the results of their efforts are found to be so much more relevant to the valuation than the various simpler and more "objective" alternatives that we tried. <sup>38</sup>
19		In addition, Vander Weide and Carleton conclude:
20 21 22 23		our studies affirm the superiority of analyst's forecasts over simple historical growth extrapolations in the stock price formation process. Indirectly, this finding lends support to the use of valuation models whose input includes expected growth rates. <sup>39</sup>
24	Q.	IN REVIEWING THE FINANCIAL LITERATURE, DID YOU DISCOVER ANY
25		PUBLICATIONS THAT SUPPORTED THE USE OF PROJECTED DPS

26 **GROWTH RATES FOR USE IN A DCF MODEL?** 

A. No, I did not.

<sup>37</sup> James C. Bonbright, Albert L. Danielsen and David R. Kamerschen, <u>Principles of Public Utility Rates</u> (Public Utilities Reports, Inc., 1988), at 334.

<sup>38</sup> John G. Cragg and Burton G. Malkiel, <u>Expectations and the Structure of Share Prices</u> (University of Chicago Press, 1982) Chapter 4.

<sup>39</sup> James H. Vander Weide and Willard T. Carleton, *Investor Growth Expectations: Analysts vs. History;* <u>The</u> <u>Journal of Portfolio Management</u>, Spring 1988 78-82.

1	Q.	LIKEWISE, ARE YOU AWARE OF ANY SOURCES OF DATA WHICH
2		PROVIDE PROJECTED DPS GROWTH RATES TO INVESTORS?
3	A.	Value Line is the only source of which I am aware that publishes projected DPS growth
4		rates. If investors indeed valued projected DPS growth rates, there would be a market for
5		that data. As they are not relied on by investors to determine their required returns on
6		investments, there is not. Conversely, projected EPS growth rates are widely available to
7		investors.
8	Q.	WHY IS A MULTI-STAGE DCF MODEL AN INAPPROPRIATE APPROACH TO
9		ESTIMATING THE ROE FOR A UTILITY?
10	A.	As noted in my Direct Testimony, given that utilities are in the mature stage (steady-stage)
11		of the company/industry life cycle, this necessitates the use of a constant growth DCF, <sup>40</sup> as
12		opposed to a multi-stage DCF.
13	Q.	ARE THERE EXAMPLES IN BASIC FINANCE TEXTS THAT SUPPORT YOUR
14		POSITION?
15	A.	Yes. For example, in <u>Investments</u> , life cycles and multi-stage growth models are discussed:
16 17 18 19 20 21 22 23 24 25 26		As useful as the constant-growth DDM (dividend discount model) formula is, you need to remember that it is based on a simplifying assumption, namely, that the dividend growth rate will be constant forever. In fact, firms typically pass through life cycles with very different dividend profiles in different phases. In early years, there are ample opportunities for profitable reinvestment in the company. Payout ratios are low, and growth is correspondingly rapid. In later years, the firm matures, production capacity is sufficient to meet market demand, competitors enter the market, and attractive opportunities for reinvestment may become harder to find. In this mature phase, the firm may choose to increase the dividend payout ratio, rather than retain earnings. The dividend level increases, but thereafter it grows at a slower pace because the company has fewer growth opportunities.
27		Table 18.2 illustrates this pattern. It gives Value Line's forecasts of return on assets,

<sup>40</sup> D'Ascendis Direct Testimony, at 15.

- 1 dividend payout ratio, and 3-year growth in earnings per share for a sample of the 2 firms in the computer software industry versus those of east coast electric utilities... 3 By in large, the software firms have attractive investment opportunities. The median 4 return on assets of these firms is forecast to be 19.5%, and the firms have responded 5 with high plowback ratios. Most of these firms pay no dividends at all. The high 6 return on assets and high plowback result in rapid growth. The median growth rate 7 of earnings per share in this group is projected at 17.6%. 8 In contrast, the electric utilities are more representative of mature firms. Their 9 median return on assets is lower, 6.5%; dividend payout is higher, 68%; and median 10 growth is lower, 4.6%. \*\*\* 11 12 To value companies with temporarily high growth, analysts use a multistage version 13 of the dividend discount model. Dividends in the early high-growth period are 14 forecast and their combined present value is calculated. Then, once the firm is 15 projected to settle down to a steady-growth phase, the constant-growth DDM is applied to value the remaining stream of dividends.<sup>41</sup> (Clarification and emphasis 16 17 added) 18 In view of the above, Dr. Won should not apply a Multi-Stage DCF model, as it is not 19 applicable to utilities, and instead exclusively rely on the three- to five-year projected EPS 20 growth rates for each company. He also should not apply the GDP growth rate to his 21 company-specific growth rate, because it is not a company-specific growth rate, nor is it 22 an upper bound for growth. 23 **Q**. WHY IS LONG-TERM GROWTH IN GDP NOT THE APPLICABLE MEASURE 24 **OF LONG-TERM GROWTH?**
- A. First, GDP is not a market measure—rather it is a measure of the value of the total output
  of goods and services, excluding inflation, in an economy. While I understand that EPS
  growth is also not a market measure, it is well-established in the financial literature that

<sup>41</sup> Z. Bodie, A. Kane, and A. J. Marcus, <u>Investments</u>, 7<sup>th</sup> Edition, McGraw-Hill Irwin, 2008, at 616-617.

1		projected growth in EPS is the superior measure of dividend growth in a DCF model. <sup>42</sup>
2		Furthermore, GDP is simply the sum of all private industry and government output in the
3		United States, and its growth rate is simply an average of the value of those industries. To
4		illustrate, DWD Schedule R-4 presents the compound growth rate of the industries that
5		comprise GDP from 1947 through 2020. Of the 15 industries represented, seven industries,
6		including utilities, grew faster than the overall GDP, and eight industries grew slower than
7		the overall GDP. <sup>43</sup>
8	Q.	WHAT WOULD DR. WON'S DCF MODEL RESULTS BE IF HE CORRECTLY
9		RELIED SOLELY ON PROJECTED EPS GROWTH RATES?
10	A.	As shown on DWD Schedule R-5, the indicated DCF cost rates are 9.20% and 10.60%
11		using 2017 and current market data, respectively. This approach indicates an increasing
12		cost of capital (by 140 basis points) since the Company's last rate case.
13		Application of the Capital Asset Pricing Model
14	Q.	PLEASE PROVIDE A BRIEF SUMMARY OF DR. WON'S APPLICATION OF
15		THE CAPM.
16	A.	Dr. Won performs his CAPM analysis using the following inputs:
17		• Self-calculated Beta coefficients;
18		• Three-month average 30- year Treasury bond yields; and
19		• Four market risk premiums ("MRP"), which include:

<sup>42</sup> Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, <u>Financial</u> <u>Management</u>, Spring 1986; Christofi, Christofi, Lori and Moliver, *Evaluating Common Stocks Using Value Line's Projected Cash Flows and Implied Growth Rate*, <u>Journal of Investing</u>, Spring 1999; Harris and Marston, *Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts*, <u>Financial Management</u>, Summer 1992; and Vander Weide and Carleton, *Investor Growth Expectations: Analysts vs. History*, <u>The</u> <u>Journal of Portfolio Management</u>, Spring 1988.

<sup>43</sup> Source of Information: Bureau of Economic Analysis.

<ul> <li>2 less historical geometric mean total returns on long-term governme</li> <li>3 bonds;</li> <li>4 o Duff &amp; Phelps historical arithmetic mean total return on large stock</li> <li>5 less historical arithmetic mean total returns on long-term governme</li> </ul>	ks nt
4 o Duff & Phelps historical arithmetic mean total return on large stoc	nt
	nt
5 less historical arithmetic mean total returns on long-term governme	
	SS
6 bonds;	SS
7 o NYU/Stern historical geometric mean total return on large stocks le	
8 historical geometric mean total returns on long-term government bond	ls;
9 and	
10 o NYU/Stern historical arithmetic mean total return on large stocks le	SS
11 historical arithmetic mean total returns on long-term government bond	ls.
12 Using those inputs, Dr. Won derives indicated CAPM results of 6.74% and 6.40%	using
13 2017 and current market data, respectively. The difference between the 2017 and cu	urrent
14 indicated ROEs, or 0.34%, is the indicated change in the investor-required return using	ng the
15 CAPM.	
16 Q. WHAT ISSUES DO YOU HAVE WITH DR. WON'S CAPM ANALYSIS?	
17 A. Dr. Won's CAPM analysis is flawed in at least four respects. First, Dr. Won did no	ot use
18 Beta coefficients published by a widely available source. Second, he has incorrectly	relied
19 on a historical, <i>i.e.</i> , recent, <sup>44</sup> 30-year Treasury bond yield as his risk-free rate, despi	te the
20 fact that both ratemaking and the cost of capital are prospective and long-term in n	ature.
21 Third, he incorrectly calculated the MRP by relying on: 1) a geometric mean hist	orical
22 market ERP; and 2) the historical <u>total</u> return on U.S. Treasury bonds. Finally, Dr.	Won

<sup>44</sup> Schedule SJW-14.

did not incorporate an empirical CAPM ("ECAPM") analysis even though empirical
 evidence indicates that low-beta securities, such as utilities, earn returns higher than the
 CAPM predicts, and high-beta securities earn less.

4

#### Q. DO YOU AGREE WITH DR. WON'S CALCULATED BETA COEFFICIENT?

A. No, I do not. His calculation of Beta coefficients is not readily available to investors and,
therefore, not relevant to the investor-required return. The importance of using readily
available information in an ROE analysis refers to the Efficient Market Hypothesis
("EMH"). The relevance of the EMH as it relates to Dr. Won's calculated Beta coefficients
is that they are not readily available to investors and, therefore, not considered by them in
calculating their required returns. As such, they should be discarded by the Commission
in this proceeding.

12

#### Q. PLEASE EXPAND ON THE IMPORTANCE OF THE EMH.

A. According to Eugene F. Fama,<sup>45</sup> a market in which prices always "fully reflect" available
information is called "efficient." There are three forms of the EMH, namely:

- 15 (1) The "weak" form asserts that all past market prices and data are fully reflected in
  16 securities prices. In other words, technical analysis cannot enable an investor to
  17 "outperform the market."
- 18 (2) The "semi-strong" form asserts that all publicly available information is fully
  19 reflected in securities prices. In other words, fundamental analysis cannot enable
  20 an investor to "outperform the market."
- 21 (3) The "strong" form

<sup>(3)</sup> The "strong" form asserts that all information, both public and private, is fully

<sup>45</sup> Eugene F. Fama, *Efficient Capital Markets: A Review of Theory and Empirical Work*, <u>The Journal of Finance</u>, Vol. 25, No. 2. (May 1970), at 383-417.

1		reflected in securities prices. In other words, even insider information cannot
2		enable an investor to "outperform the market."
3		The "semi-strong" form is generally considered the most realistic because the illegal use
4		of insider information can enable an investor to "beat the market" and earn excessive
5		returns, thereby disproving the "strong" form. The semi-strong form of the EMH assumes
6		that all relevant information is available to the investor, which means the Beta coefficients
7		from Value Line would be considered by investors when making investment decisions and,
8		therefore, should be included in Dr. Won's CAPM analysis.
9	Q.	DOES DR. WON RELY ON VALUE LINE DATA IN HIS ANALYSES?
10	A.	Yes, he does. He relies on Value Line data in selecting his proxy group companies and
11		uses dividends per share data and projected DPS growth rates in his DCF analysis.
12	Q.	WOULD USING VALUE LINE BETAS CHANGE DR. WON'S CONCLUSION
13		REGARDING THE DIFFERENCE IN RISK FROM LAST CASE TO THIS CASE
14		BASED ON THE INDICATED ROE PRODUCED BY THE CAPM?
15	A.	Yes. Keeping all else equal, replacing Dr. Won's calculated betas with Value Line betas
16		for both time periods indicates a 0.09% increase in the indicated ROE from last case to
17		this case as determined by the CAPM, as shown in DWD Schedule R-6. Given the
18		additional flaws in Dr. Won's CAPM analysis, as will be discussed below, this 0.09%
19		indicated increase in risk is a conservative measure.

# Q. WHY IS DR. WON'S USE OF CURRENT YIELDS (*I.E.*, A RECENT THREE MONTH AVERAGE), ON 30-YEAR U.S. TREASURY BONDS NOT APPROPRIATE FOR COST OF CAPITAL PURPOSES?

- A. Dr. Won ignores the fact that the cost of capital and ratemaking are both prospective. As
  such, the fundamental analytical issue in applying the CAPM is to ensure that all three
  components of the model (*i.e.*, the risk-free rate, Beta coefficient, and the MRP) are
  consistent with market conditions and investor expectations. As, Morningstar observes:
- 8 It is important to note that the expected equity risk premium, as it is used in discount 9 rates and cost of capital analysis, is a forward-looking concept. That is, the equity risk 10 premium that is used in the discount rate should be reflective of what investors think 11 the risk premium will be going forward.<sup>46</sup>
- Dr. Won implicitly agrees with this as he states: "[i]n rate cases, the investors' required return from the stock could be considered to be the expected market COE of utility stock investors."<sup>47</sup>

### 15 Q. PLEASE COMMENT ON DR. WON'S USE OF THE GEOMETRIC MEAN 16 HISTORICAL MARKET RETURN.

A. On page 18 of his direct testimony, Dr. Won notes that he has relied on <u>both</u> the arithmetic
and geometric mean returns for the S&P 500 as tabulated by Duff & Phelps and
NYU/Stern. However, only arithmetic mean return rates, equity risk premiums ("ERP"),
and yields are appropriate for cost of capital purposes because *ex-post* (historical) total
returns and ERPs differ in size and direction over time, indicating volatility, *i.e.*, variance
or risk. The arithmetic mean captures the prospect for variance in returns and ERPs,

<sup>46</sup> Morningstar, Inc., <u>2013 Ibbotson Stocks, Bonds, Bills and Inflation Valuation Yearbook</u>, at 53.

<sup>47</sup> Staff Report, at 16.
1	providing the valuable insight needed by investors in estimating risk in the <i>future</i> when
2	making a <i>current</i> investment. Absent such valuable insight into the potential variance of
3	returns, investors cannot meaningfully evaluate prospective risk. The geometric mean of
4	ex-post ERPs provides no insight into the potential variance of future returns because the
5	geometric mean relates the change over many time periods to a <u>constant</u> rate of change,
6	rather than the year-to-year fluctuations, or variance, critical to risk analysis. Therefore,
7	the geometric mean is of little to no value to investors seeking to measure risk. Moreover,
8	from a statistical perspective, since stock returns and ERPs are randomly generated, the
9	arithmetic mean is expectational and consistent with the prospective nature of the cost of
10	capital and ratemaking noted above.
11	The financial literature is quite clear that risk is measured by the variability of expected
12	returns, <i>i.e.</i> , the probability distribution of returns. <sup>48</sup> Duff & Phelps <u>2021 SBBI® Yearbook</u>
13	Stocks, Bonds, Bills and Inflation ("SBBI-2021") <sup>49</sup> explains in detail why the arithmetic
14	mean is the correct mean to use when estimating the cost of capital.
15	In addition, Weston and Brigham provide the standard financial textbook definition of the
16 17	riskiness of an asset when they state: The riskiness of an asset is defined in terms of the <u>likely variability of future returns</u>
18	from the asset. (emphasis added) <sup>50</sup>
19 20 21 22 23 24 25	Furthermore, Morin states: The geometric mean answers the question of <u>what constant return</u> you would have had to achieve in each year to have your investment growth match the return achieved by the stock market. The arithmetic mean answers the question of what growth rate is the best estimate of the <u>future</u> amount of money that will be produced by continually reinvesting in the stock market. It is the rate of return which, compounded over multiple periods, gives the mean of the probability distribution of

Eugene F. Brigham, <u>Fundamentals of Financial Management</u>, (The Dryden Press, 1989), at 639. <u>SBBI-2021</u>, at p. 10-22. 48

<sup>49</sup> 

<sup>50</sup> J. Fred Weston and Eugene F. Brigham, Essentials of Managerial Finance, 3rd Edition (The Dryden Press, 1974), at 272.

1		ending wealth. (emphasis added) <sup>51</sup>
2 3 4 5 6 7		In addition, Brealey and Myers note: The proper uses of arithmetic and compound rates of return from past investments are often misunderstood Thus the arithmetic average of the returns correctly measures the opportunity cost of capital for investments <i>Moral</i> : If the cost of capital is estimated from historical returns or risk premiums, use arithmetic averages, not compound annual rates of return. (italics in original) <sup>52</sup>
8		As previously discussed, investors gain insight into relative riskiness by analyzing
9		expected <i>future</i> variability. This is accomplished using the arithmetic mean of a random
10		distribution of returns/premiums. Only the arithmetic mean considers all the
11		returns/premiums over a period of time, hence, providing meaningful insight into the
12		variance and standard deviation of those returns/premiums.
13	Q.	CAN IT BE DEMONSTRATED THAT THE ARITHMETIC MEAN TAKES INTO
14		ACCOUNT ALL OF THE RETURNS AND, THEREFORE, IS THE ONLY
15		APPROPRIATE MEAN TO USE WHEN ESTIMATING THE COST OF
16		CAPITAL?
17	A.	Yes. Pages 1 and 2 of DWD Schedule R-7 graphically demonstrate this. Page 1 charts the
18		SBBI-2021 returns on large company stocks for each and every year from 1926 through
19		2020. It is clear from looking at the year-to-year variation of these returns that stock market
20		returns and, hence, MRPs vary (see Chart 5, below).

Morin, at 133.

<sup>51</sup> 52 Richard A. Brealey and Stewart C. Myers, Principles of Corporate Finance, 5th Ed. (McGraw-Hill Publications, Inc., 1996), at 146 – 147.





3 The distribution of each of those returns for the period from 1926 through 2020 is shown

4 on page 2 of DWD Schedule R-7 and Chart 6, below.

Chart 6: Frequency Distribution of Observed Market Returns, 1926 - 2020<sup>54</sup>



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<sup>53 &</sup>lt;u>SBBI-2021</u> at Appendix A-1.

<sup>54</sup> DWD Schedule R-7, at 2.

1 There is a clear bell-shaped pattern to the probability distribution of returns, an indication that 2 they are randomly generated and not serially correlated. The arithmetic mean of this 3 distribution of returns considers each and every return in the distribution. In doing so, the 4 arithmetic mean takes into account the standard deviation or likely variance which may be 5 experienced in the future when estimating the rate of return based on such historical returns.

In contrast, the geometric mean considers only two of the returns, the initial and terminal years, which, in this case, are 1926 and 2020. Based on only those two years, a constant rate of return is calculated by the geometric average. That constant return is graphically represented by a flat line, showing no year-to-year variation, for the entire 1926 to 2020 time period. This is obviously unrealistic, based on the histogram shown in Chart 6 above. In view of the foregoing, Dr. Won should have exclusively relied on the long-term arithmetic average return on the

#### 13 Q. PLEASE COMMENT ON DR. WON'S USE OF THE HISTORICAL MEAN

market in calculating his historical risk premium using <u>SBBI-2021</u> data.

14

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#### TOTAL RETURN ON U.S. TREASURY SECURITIES.

15 A. Although relying on Duff & Phelps' historical returns in his CAPM analysis, Dr. Won has

- 16 ignored their recommendation to rely on the <u>income</u> return and not the total return on U.S.
- 17 Treasury securities in deriving an MRP. As indicated in <u>SBBI-2021</u>:
- 18Another point to keep in mind when calculating the equity risk premium is that the19income return on the appropriate-horizon Treasury security, rather than the total20return, is used in the calculation.
- 21 The total return comprises three return components: the income return, the capital 22 appreciation return, and the reinvestment return. The income return is defined as 23 the portion of the total return that results from a periodic cash flow or, in this case, 24 the bond coupon payment. The capital appreciation return results from the price 25 change of a bond over a specific period. Bond prices generally change in reaction 26 to unexpected fluctuations in yields. Reinvestment return is the return on a given 27 month's investment income when reinvested into the same asset class in the 28 subsequent months of the year. The income return is thus used in the estimation of 29 the equity risk premium because it represents the truly riskless portion of the

return.55

2		Also, as shown in <u>SBBI-2021</u> on page 6-17, the standard deviation for the income return
3		on long-term government bonds is 2.6%, which is the lowest ( <i>i.e.</i> , least risky) measure of
4		all bond returns followed by SBBI. Dr. Won's recommended measure of the risk-free rate,
5		the total return on long-term government bonds, has a standard deviation of 9.8%, which
6		is the highest (i.e., most risky) measure of all bond returns followed by SBBI. These
7		measures alone warrant the use of the income return on long-term government bonds as
8		the appropriate proxy of the risk-free rate for use in the calculation of the MRP in a CAPM
9		analysis.
10		In view of the above, the correct derivation of the historical MRP is the difference between
11		the arithmetic mean total return on large company common stocks of 12.20%, and the
12		arithmetic mean 1926-2020 income return on long-term government bonds of 4.90%,
13		which results in an MRP of 7.30%. <sup>56</sup>
14	Q.	DOES DR. WON PERFORM AN ECAPM IN HIS ANALYSIS?
15	A.	No. Dr. Won failed to consider the ECAPM, despite the fact that numerous tests of the
16		CAPM have confirmed the ECAPM's validity by showing that the empirical Security
17		Market Line ("SML") described by the traditional CAPM is not as steeply sloped as the
18		predicted SML. While the results of these tests support the notion that beta is related to
19		security returns, the empirical SML described by the CAPM formula is not as steeply
20		sloped as the predicted SML, <sup>57</sup> as discussed on page 31 of my Direct Testimony.

<sup>&</sup>lt;u>SBBI-2021</u>, at 10-22. *Ibid.*, at 6-17. Morin, at 175. 

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#### Dr. Won's "Rule of Thumb" Analysis

#### 2 Q. PLEASE DESCRIBE DR. WON'S "RULE OF THUMB" ANALYSIS.

A. Dr. Won performs a "rule of thumb" analysis as a "test of reasonableness" which he claims
is a risk premium method that "allows an objective test of individuals' COE estimates" by
"simply adding an equity risk premium to the yield-to-maturity ("YTM") of the subject
company's long-term debt."<sup>58</sup> He determines that risk premium to be in the range of 3%
to 5%. Based on the application of the "rule of thumb" analysis to current A- and Baarated utility bond yields, Dr. Won concludes that ROEs in the range of 6.40% to 8.10% are
reasonable.

#### 10 **Q**

#### Q. DO YOU AGREE WITH DR. WON'S "RULE OF THUMB" ANALYSIS?

11 A. No, I do not. First, Dr. Won's approach relies on his premise that utility stocks are proxies 12 for bond investments, which as discussed earlier, is incorrect. Second, Dr. Won's "rule of thumb" analysis ignores the inverse relationship between interest rates and equity risk 13 premiums, which I noted in my Direct Testimony,<sup>59</sup> and is consistent with financial 14 15 literature on the subject. In fact, Morin, which Dr. Won cites to in support of his 3% to 5% range, notes "beginning in 1980, risk premiums varied inversely with the level of 16 interest rates – rising when rates fell and declining when rates rose."<sup>60</sup> Plainly, ERPs are 17 18 not static and vary with interest rates. As interest rates have fallen over the last several years, the ERP has steadily risen, as shown on Chart 7, below: 19

<sup>58</sup> Staff Report, at 19.

D'Ascendis Direct Testimony, at 28-29. See, e.g., Robert S. Harris and Felicia C. Marston, The Market Risk Premium: Expectational Estimates Using Analysts' Forecasts, Journal of Applied Finance, Vol. 11, No. 1, 2001, at 11-12; Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, The Risk Premium Approach to Measuring a Utility's Cost of Equity, Financial Management, Spring 1985, at 33-45.

<sup>60</sup> Morin, at 128.





If Dr. Won's "rule of thumb" actually applied, all ERPs would be between 3% and 5%, but
as shown, this is clearly not the case, as ERPs have consistently exceeded the 5% threshold
since 2010.

#### **Failure to Reflect Company-Specific Factors**

#### 7 Q. HAS DR. WON REFLECTED SPIRE'S COMPANY-SPECIFIC FACTORS WHEN

#### 8 DETERMINING HIS RECOMMENDED ROE IN THIS PROCEEDING?

- 9 A. No, he did not. As discussed in my Direct Testimony,<sup>62</sup> Dr. Won should have considered
   10 Spire's smaller size and less risky bond ratings relative to his proxy group as well as
- 11 flotation costs in determining his ROE recommendation.

62 D'Ascendis Direct Testimony, at 40-48.

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<sup>61</sup> Source: Regulatory Research Associates, Bloomberg Professional; see also; DWD Schedule R-1, page 23.

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#### **Comparison to Recent Authorized ROEs**

2 **O**. PLEASE COMMENT ON DR. WON'S USE OF RECENT AUTHORIZED ROES 3 IN SUPPORTING HIS ROE RECOMMENDATION. 4 A. Dr. Won states that his 9.37% recommendation "is in line with current authorized ROEs." 5 In looking to current authorized ROEs, Dr. Won points to the 2020 overall average, fully 6 litigated average, and settled average of 9.46%, 9.44%, and 9.47%, respectively, as 7 compared to the 2017 averages for each of these three categories of 9.72%, 9.82%, and 9.68%, respectively.<sup>63</sup> 8 9 SHOULD THE COMMISSION BE BOUND BY HISTORICAL AUTHORIZED **Q**. 10 **ROES**? 11 A. No. While authorized ROEs may be reasonable benchmarks of acceptable ROEs in more 12 normal economic conditions, they understate the investor-required return during an unstable economic environment, as was the case for the majority of 2020. The reason why 13 14 historical authorized returns understate the investor-required return is because authorized 15 ROEs are a lagging indicator of investor-required returns; *i.e.*, authorized ROEs are based 16 on market data presented in an evidentiary record, which spans a period before the decision, 17 sometimes lasting over a year in some cases. When markets are disjointed, as they are 18 now, historical authorized returns do not completely reflect the investor required return 19 because the economic conditions in the past are not representative of economic conditions 20 now.

<sup>63</sup> Staff Report, at 21.

### 1Q.WHAT ARE YOUR CONCLUSIONS REGARDING DR. WON'S ROE2ANALYSIS?

A. While I do not agree with the premise of his ROE analysis, *i.e.*, using changes in model
results over time and applying those changes to a benchmark return, reasonable inputs to
Dr. Won's models indicate an increase in the indicated ROE since Spire's last rate case,
not a decrease like Dr. Won contends. As shown in Table 6, below, those increases result
in an average increase of 74 basis points<sup>64</sup> to Spire's previously authorized ROE. These
results are corroborated by observations of several measures of risk that have increased
since the Company's last case.

### 10Table 6: Dr. Won Updated Model Results and Comparative Risk Measures: Case11No. GR-2017-0216 and Present Docket65

Measure	Previous Case: GR-2017-0216	Present Case: GR-2021-0108
Dr. Won Updated DCF	9.20%	10.60%
Dr. Won Updated CAPM	6.87%	6.96%
Gas Proxy Group Annualized Volatility	16.43%	29.78%
S&P 500 Annualized Volatility	10.09%	13.91%
Gas Proxy Group Beta Coefficients	0.75	0.90
Average CoV – 30 Year Treasury Bonds	2.16%	4.34%
Average CoV – A-Rated Public Utility Bonds	1.43%	3.10%
Inflation	2.03%	2.23%
VIX	11.71	21.53

<sup>74 = (140 + 9) / 2</sup>; 140 and 9 reflect the increases to Dr. Won's DCF and CAPM, respectively, based on reasonable adjustments.

<sup>65</sup> Sources: Bloomberg Professional, *Value Line*, S&P Global Market Intelligence, Bureau of Economic Analysis. VIX, Average coefficients of variations ("CoV") and annualized volatilities based on duration of proceedings for Case No. GR-2017-0216 (April 11, 2017-February 21, 2018) and for present docket (December 11, 2020-May 28, 2021). Inflation measured as average year-over-year growth for CPI for months April 2017-February 2018 and December 2020-April 2020.

### 2 Q. PLEASE PROVIDE A SUMMARY OF MR. MURRAY'S ANALYSES AND 3 CONCLUSIONS REGARDING THE COMPANY'S ROE.

V. RESPONSE TO OPC WITNESS MURRAY

4 Mr. Murray recommends that the appropriate ROE for Spire is 9.25%, based on a range of A. 8.50% to 9.50%, assuming his proposed capital structure is accepted.<sup>66</sup> 5 His recommendation is based on comparing Spire's risk profile to that of The Empire District 6 Electric Company ("EDE") in Case No. ER-2019-0374, in which the Commission awarded 7 EDE an ROE of 9.25%.<sup>67</sup> Mr. Murray's recommended ROE based on the results of his 8 analytical models, however, is between 6.50% and 7.50%.<sup>68</sup> Specifically, Mr. Murray 9 10 performs several multi-stage DCF analyses, with results ranging from 7.37% to 7.88%, and 11 several CAPM analyses, which range from 5.44% to 6.76%.

### 12 Q. DO YOU HAVE ANY GENERAL COMMENTS REGARDING MR. MURRAY'S 13 ANALYSES AND CONCLUSIONS?

A. Yes, I do. Like Dr. Won, Mr. Murray relies on making relative risk adjustments to a recently authorized return for EDE rather than relying on market models applied to a proxy group of comparable risk companies. EDE is a vertically integrated electric utility, which has significantly different risks than that of Spire, which is a natural gas distribution utility, a fact which Mr. Murray devotes several pages to in his direct testimony.<sup>69</sup>

19 Also like Dr. Won, Mr. Murray assumes that market-based ROE analyses are not equal to

20 the authorized ROE awarded to utilities stating: "because it is abundantly clear that the

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<sup>66</sup> Murray Direct Testimony, at 38.

<sup>67</sup> *Ibid.*, at 2.

<sup>68</sup> *Ibid.*, at 5.

<sup>69</sup> *Ibid.*, at 10-22.

1		COE is much lower than the allowed ROEs, I don't consider it critical to attempt to
2		determine a precise COE estimate."70 As discussed previously, that assumption is
3		incorrect.
4		Finally, Mr. Murray's analytical results, which range from approximately 5.50% to 7.90%,
5		are below any reasonable measure of ROE for natural gas distribution utilities since at least
6		1980. As with Dr. Won, Mr. Murray's CAPM analysis fails his own "rule of thumb"
7		criterion for a reasonable ROE.
8	Q.	WHAT SPECIFIC ISSUES DO YOU HAVE WITH MR. MURRAY'S ANALYSES
9		AND CONCLUSIONS?
10	A.	I have several issues, as follows:
11		• His reliance on electric utility-specific measures of ROE for a natural gas
12		distribution utility;
13		• His application of the DCF model;
14		• His application of the CAPM;
15		• The applicability of his "rule-of-thumb" analysis;
16		• His failure to reflect Company-specific factors in his determination of his ROE
17		recommendation; and
18		• His recommendation to reduce the ROE if the Company's capital structure is
19		approved by the Commission.

*Ibid.*, at 32.

1 2

#### Reliance on Electric Utility-Based Cost of Capital Measures for a Natural Gas Distribution Utility

### Q. PLEASE DESCRIBE MR. MURRAY'S RELIANCE ON ELECTRIC UTILITY 4 SPECIFIC MEASURES OF COST OF CAPITAL.

5 A. Mr. Murray's benchmark return is based on an authorized ROE for EDE, which is an 6 electric utility, and he also performs DCF models on an electric utility proxy group.

### 7 Q. WHY IS MR. MURRAY'S RELIANCE ON THE AUTHORIZED ROE FOR EDE 8 INCORRECT?

9 EDE is a vertically-integrated electric utility, which, as Mr. Murray notes but does not seem A. 10 to take into consideration, is influenced by different factors and market expectations than natural gas utilities. For example, Mr. Murray notes that electric utilities have "significant 11 potential to capitalize on investment opportunities related to the 'green' movement",<sup>71</sup> as 12 13 well as pointing out that "it is difficult for investor to project potential growth for the industry past the next couple of decades,"<sup>72</sup> and notes that Wells Fargo evaluated a scenario 14 in which the natural gas utility industry would be worth \$0 by 2060.<sup>73</sup> In comparison, Mr. 15 16 Murray notes that "[a] reasonable argument can be made that the electric utility industry should have a higher perpetual growth rate compared to LDCs."<sup>74</sup> It is clear from Mr. 17 18 Murray's own testimony that electric utilities and natural gas utilities face different risks, 19 and in fact, natural gas utilities face greater risk.

<sup>71</sup> *Ibid.*, at 13.

<sup>72</sup> *Ibid.*, at 18.

<sup>73</sup> *Ibid.*, at 15.

<sup>74</sup> *Ibid.*, at 33.

## Q. DOES MR. MURRAY PRESENT ANALYSIS THAT ALSO ILLUSTRATES THE DIFFERENCE BETWEEN THE ELECTRIC AND NATURAL GAS UTILITY INDUSTRIES?

A. Yes, he does. Mr. Murray notes on page 36 of his Direct Testimony the Beta coefficients
for the two groups are different. In fact, Mr. Murray notes that natural gas betas are higher
than electric betas, which indicates that investors view natural gas utilities as riskier
investments.<sup>75</sup> More simply, the assets that comprise the systems are substantially different
(*i.e.* pipes versus wires; generation, transmission and distribution versus distribution-only).

9

#### Application of the Discounted Cash Flow Model

#### 10 Q. PLEASE BRIEFLY SUMMARIZE MR. MURRAY'S DCF ANALYSIS.

A. As noted above, Mr. Murray applies several multi-stage DCF analyses to Spire, Inc., a
 proxy group of natural gas utilities, and a proxy group of electric utilities. Based on those
 three applications, he finds the following indicated ranges:

14

#### Table 7: Mr. Murray DCF Results<sup>76</sup>

	Indicated Range
Spire, Inc.	7.37% - 7.68%
Natural Gas Utilities	7.70% - 7.90%
Pure-Play Natural Gas Utilities	7.40% - 7.70%
Electric Utilities	7.30% - 7.40%

<sup>75</sup> *Ibid.*, at 37.

<sup>76</sup> *Ibid.*, at 28, 30, and 33.

1	Q.	DO YOU FIND MR. MURRAY'S INDICATED DCF RESULTS TO BE
2		REASONABLE?
3	A.	No, I do not. As discussed previously, the multi-stage DCF is not applicable to utility
4		companies. As such, the Commission should give zero weight to Mr. Murray's multi-stage
5		DCF analysis.
6	Q.	DOES MR. MURRAY RELY ON THE RESULTS OF HIS MULTI-STAGE DCF
7		FOR HIS RECOMMENDATION IN THIS PROCEEDING?
8	A.	No, he does not. For his ROE recommendation, he simply refers to the EDE decision and
9		makes a relative risk adjustment. Because Mr. Murray himself does not rely on his own
10		model results, I recommend the Commission do the same.
11		Application of the Capital Asset Pricing Model
12	Q.	PLEASE DESCRIBE MR. MURAY'S APPLICATION OF THE CAPM.
13	A.	Mr. Murray performs his CAPM analysis using the following inputs:
14		• Self-calculated Beta coefficients;
15		• Three-month average 20- and 30- year Treasury bond yields;
16		• Duff & Phelps' normalized risk-free rate; and
17		• Three MRPs, which include:
18		• Duff & Phelps' historical geometric mean total return on large stocks less
19		historical geometric mean total returns on long-term government bonds;
20		• Duff & Phelps' historical arithmetic mean total return on large stocks less
21		historical arithmetic mean total returns on long-term government bonds;
22		and
23		• Duff & Phelps' recommended ERP.

Using those inputs, Mr. Murray derives indicated CAPM results ranging from 5.44% and
 6.69%.

### 3 Q. DOES MR. MURRAY RELY ON HIS CAPM RESULTS IN DETERMINING HIS 4 ROE RECOMMENDATION?

A. No, he does not. Mr. Murray only uses the CAPM and his Bond Yield Plus Risk Premium
(discussed below) to "test [his] conclusions"<sup>77</sup> from his DCF models. Similar to his DCF
results, Mr. Murray clearly does not take into account his CAPM results in determining his
recommended ROE and, as such, it is unclear the extent the results are used even as a
check.

### 10 Q. WHAT ISSUES DO YOU HAVE WITH MR. MURRAY'S CAPM ANALYSES AND 11 RESULTS?

12 Mr. Murray's CAPM analysis is flawed in at least four respects. First, Mr. Murray did not A. use Beta coefficients published by a widely available source. Second, he has incorrectly 13 relied on an historical, *i.e.*, recent,<sup>78</sup> 20- and 30-year Treasury bond yields as his risk-free 14 rate, despite the fact that both ratemaking and the cost of capital are prospective and long-15 16 term in nature. Third, he incorrectly calculated the MRP by relying on: 1) a geometric 17 mean historical market ERP; 2) the historical total return on U.S. Treasury bonds; and 3) 18 the Duff & Phelps recommended ERP. Finally, Mr. Murray did not incorporate an ECAPM 19 analysis even though empirical evidence indicates that low-beta securities, such as utilities, 20 earn returns higher than the CAPM predicts, and high-beta securities earn less. Because I 21 have addressed the applicability of calculated betas, historical interest rates, geometric

<sup>77</sup> *Ibid.*, at 33.

<sup>78</sup> Schedules DM-D-8-1 and DM-D-8-2.

1		mean data, total returns on risk-free assets, and the use of the ECAPM in response to Dr.
2		Won, I will not repeat those discussions here. Instead, I will focus solely on Mr. Murray's
3		use of 20-year Treasury bonds and the Duff & Phelps recommended ERP.
4	Q.	WHY IS MR. MURRAY'S USE OF 20-YEAR U.S. TREASURY BONDS NOT
5		APPROPRIATE FOR COST OF CAPITAL PURPOSES?
6	A.	As discussed below, tenor of the risk-free rate used in the CAPM should match the life (or
7 8 9 10 11 12 13 14		duration) of the underlying investment. As noted by Morningstar: The traditional thinking regarding the time horizon of the chosen Treasury security is that it should match the time horizon of whatever is being valued. When valuing a business that is being treated as a going concern, the appropriate Treasury yield should be that of a long-term Treasury bond. Note that the horizon is a function of the investment, not the investor. If an investor plans to hold stock in a company for only five years, the yield on a five-year Treasury note would not be appropriate since the company will continue to exist beyond those five years. <sup>79</sup>
15 16 17 18 19 20 21		Morin also confirms this when he states: [b]ecause common stock is a long-term investment and because the cash flows to investors in the form of dividends last indefinitely, the yield on very long-term government bonds, namely, the yield on 30-year Treasury bonds, is the best measure of the risk-free rate for use in the CAPM <sup>(footnote omitted)</sup> The expected common stock return is based on long-term cash flows, regardless of an individual's holding time period. <sup>80</sup>
22		Pratt and Grabowski recommend a similar approach to selecting the risk-free rate: "In
23		theory, when determining the risk-free rate and the matching ERP you should be matching
24		the risk-free security and the ERP with the period in which the investment cash flows are
25		expected."81 As a practical matter, equity securities represent a perpetual claim on cash
26		flows; 30-year Treasury bonds are the longest-maturity securities available to approximate
27		that perpetual claim. Thus, Mr. Murray's use of a 20-year Treasury bond yield does not

Morningstar, Inc., 2013 Ibbotson Stocks, Bonds, Bills and Inflation Valuation Yearbook, at 44. 79

<sup>80</sup> Morin, at 151

<sup>81</sup> Shannon Pratt and Roger Grabowski, <u>Cost of Capital: Applications and Examples</u>, 3rd Ed. (Hoboken, NJ: John Wiley & Sons, Inc., 2008), at 92.

match the life of the assets being valued. The use of a 30-year Treasury bond yield is a
 more appropriate risk-free rate.

### 3 Q. WHAT IS YOUR POSITION ON THE 5.50% MRP QUOTED BY DUFF & 4 PHELPS?

5 The determination of the MRP as calculated by Duff & Phelps is not transparent, especially A. in view of the historical data presented in SBBI – 2021, or the composition of its supply 6 7 side method, which are already well known by investors. Because of the transparency of 8 the historical data and how to gather and use the components of the supply-side model, 9 both the historical MRP using the long-term arithmetic mean return on large company 10 stocks, less the long-term arithmetic income returns on long-term Government bonds, using 11 data compiled by the Center for Research in Security Prices and the supply-side model, are 12 superior measures of the MRP than the Duff & Phelps simplistic and opaque MRP forecast.

#### 13 Q. MR. MURRAY POINTS TO LONG-TERM EXPECTED NOMINAL MARKET

#### 14 **RETURNS IN THE RANGE OF 4.00% TO 5.00%. DO YOU HAVE ANY ISSUES**

15

#### WITH THESE EXPECTATIONS?

A. Yes, I do. Mr. Murray derives the expected range based in part on the Philadelphia Federal
 Reserve Board's Survey of Professional Forecasters ("Philadelphia Survey"), despite
 instances in academic literature that support the conclusion that MRPs using surveys are
 not widely used by practitioners.

#### 20 For example, Dr. Damodaran, who is relied on by Dr. Won in developing his MRP, states

21 the following about the applicability of survey MRPs:

1.

- While survey premiums have become more accessible, very few practitioners seem
  to be inclined to use the numbers from these surveys in computations and there are
  several reasons for this reluctance:
- 25

Survey risk premiums are responsive to recent stock prices movements,

1		with survey numbers generally increasing after bullish periods and
2		decreasing after market decline. Thus, the peaks in the SIA survey
3		premium of individual investors occurred in the bull market of 1999, and
4		the more moderate premiums of 2003 and 2004 occurred after the market
5		collapse in 2000 and 2001.
6		
7	2.	Survey premiums are sensitive not only to whom the question is directed
8		at but how the question is asked. For instance, individual investors seem
9		to have higher (and more volatile) expected returns on equity than
10		institutional investors and the survey numbers vary depending upon the
11		framing of the question. [footnote omitted].
12		
13	3.	In keeping with other surveys that show differences across sub-groups,
14		the premium seems to vary depending on who gets surveyed. Kaustia,
15		Lehtoranta and Puttonen (2011) surveyed 1,465 Finnish investment
16		advisors and note that not only are male advisors more likely to provide
17		an estimate but that their estimated premiums are roughly 2% lower than
18		those obtained from female advisors, after controlling for experience,
19		education and other factors. [footnote omitted].
20		
21	4.	Studies that have looked at the efficacy of survey premiums indicate that
22		if they have any predictive power, it is in the wrong direction. Fisher and
23		Statman (2000) document the negative relationship between investor
24		sentiment (individual and institutional) and stock returns. [footnote
25		omitted]. In other words, investors becoming more optimistic (and
26		demanding a larger premium) is more likely to be a precursor to poor
27		(rather than good) market returns.
28	As	technology aids the process, the number and sophistication of surveys of both
29		ividual and institutional investors will also increase. However, it is also likely
30		t these survey premiums will be more reflections of the recent past rather than
31	goo	od forecasts of the future. <sup>82</sup>
32	O. ARE TH	ERE OTHER ISSUES WITH THE USE OF THE PHILADELPHIA

#### 32 Q. ARE THERE OTHER ISSUES WITH THE USE OF THE PHILADELPHIA

- 33 SURVEY?
- A. Yes, there are. As shown in Table 9 below, in the past, the Philadelphia Survey respondents
- 35 have provided forecasts that significantly underestimated actual market returns. As Table

<sup>82</sup> Aswath Damodaran, Stern School of Business, *Equity Risk Determinants, Estimation and Implications – The 2020 Edition*, Updated March 2020, at 26-27.

- 1 8 demonstrates, from 2004 through 2011, the average and median market return over the following ten years<sup>83</sup> was 11.16% and 14.06%, exceeding the Philadelphia Survey 2 3 forecasts by an average of over 5.00%.
- 4
- 5

	Actual (median)	Actual (Average)	Survey Estimate
2011 - 2020	14.85%	14.49%	7.25%
2010 - 2019	14.38%	14.15%	7.00%
2009 - 2018	14.38%	13.65%	6.50%
2008 - 2017	14.38%	10.39%	6.50%
2007 - 2016	12.83%	8.75%	7.50%
2006 - 2015	14.38%	9.14%	7.00%
2005 - 2014	14.38%	9.49%	7.00%
2004 - 2013	12.97%	9.21%	7.75%
Average	14.06%	11.16%	7.06%

#### Table 8: S&P 500 Market Return vs. Philadelphia Survey Median Expected Return<sup>84</sup>

6

#### **Application of the Bond Yield Plus Risk Premium Model**

#### 7 PLEASE SUMMARIZE MR. MURRAY'S BOND YIELD PLUS RISK PREMIUM Q.

- 8 ANALYSIS.
- Similar to Dr. Won, Mr. Murray adds 3% to 4% to the Company's bond yield as a test of 9 A.
- reasonableness on his ROE estimates.<sup>85</sup> Because I have addressed the issues with such an 10
- 11 approach in response to Dr. Won, I will not repeat that discussion here.

<sup>83</sup> Survey estimates are based on First Quarter projections from the first year of the respective ten-year window. For example, 2004 – 2013 estimate was sourced from the Philadelphia Survey released in February 2004.

<sup>84</sup> Source: Morningstar, Inc., 2021 SBBI Yearbook, Appendix A-1; https://www.philadelphiafed.org/surveys-anddata/real-time-data-research/survey-of-professional-forecasters.

Murray Direct Testimony, at 37. 85

1		Failure to Reflect Company-Specific Factors
2	Q.	HAS MR. MURRAY REFLECTED SPIRE'S COMPANY-SPECIFIC FACTORS
3		WHEN DETERMINING HIS RECOMMENDED ROE IN THIS PROCEEDING?
4	A.	No, he has not. As discussed in my Direct Testimony, <sup>86</sup> Mr. Murray should have
5		considered Spire's smaller size and less risky bond ratings relative to his proxy group as
6		well as flotation costs in determining his ROE recommendation.
7		Capital Structure Return on Equity Adjustment
8	Q.	PLEASE SUMMARIZE MR. MURRAY'S POSITION REGARDING THE
9		COMPANY'S ROE AND CAPITAL STRUCTURE.
10	A.	Mr. Murray states that his 9.25% recommendation is dependent on the Commission
11		accepting his recommended capital structure, and if the Commission were to adopt the
12		Company's proposed capital structure, the Commission should authorize an ROE no higher
13		than 8.50%.
14	Q.	IS MR. MURRAY'S DOWNWARD ADJUSTMENT OF 75 BASIS POINTS TO HIS
15		RECOMMENDED ROE IF THE COMPANY'S REQUESTED EQUITY RATIO IS
16		APPROVED APPROPRIATE?
17	A.	No, it is not. Since the cost of capital is a comparative exercise, one must compare Spire's
18		requested equity ratio with the equity ratios maintained by the proxy group from which the
19		ROE is determined. The Company's requested ratemaking common equity ratio of 54.28%
20		is reasonable and consistent with the range of common equity ratios maintained by Mr.
21		Murray's Gas Proxy Group. As shown on page 1 of DWD Schedule R-8, common equity

86 D'Ascendis Direct Testimony, at 40-48.

ratios of the Utility Proxy Group companies range from 31.01% to 62.99% for last five
 quarters.

To provide a more robust analysis, I also considered *Value Line's* projected equity ratios for the Mr. Murray's Gas Proxy Group for 2024-2026. That analysis shows a range of projected common equity ratios between 39.50% and 60.00%, which is also consistent with Spire's requested equity ratio.

7 Finally, I compared the Company's ratemaking common equity ratio with the equity ratios 8 maintained by the operating subsidiaries of the Mr. Murray's Gas Proxy Group companies. 9 As shown on page 2 of DWD Schedule R-8, common equity ratios of the operating utility 10 subsidiaries of the Utility Proxy Group range from 31.01% to 64.82% for the last five 11 quarters, which was consistent with Spire's requested equity ratio. Because Spire's 12 requested equity ratio is within the current and expected ranges of equity ratios maintained 13 by the Utility Proxy Group, and within the range of the operating subsidiaries of the Utility 14 Proxy Group, a financial risk adjustment is unnecessary and should be dismissed by the 15 Commission.

16

#### VI. CONCLUSION AND RECOMMENDATION

17 Q. PLEASE SUMMARIZE YOUR REBUTTAL TESTIMONY.

A. In this Rebuttal Testimony, I updated my ROE models with market data as of May 28,
2021. The results of the ROE models produced indicated ranges of ROEs from 9.44% to
12.53% (unadjusted) and from 9.66% to 12.75% (adjusted).<sup>87</sup> Given these ranges, I

<sup>87</sup> DWD Schedule R-1, at 2.

- maintain my initial recommendation of 9.95%, which, in light of the current capital
   markets, is reasonable, if not conservative.
- I then discussed capital market conditions and determined that given increases in inflation
  and interest rates, utility investors are requiring higher returns. I also discussed the clear
  difference between utility stock investments and bond investments.
- Regarding the Opposing Witnesses' direct testimonies, I discussed my disagreements with
  their analyses, which I supported with citations to the academic literature and empirical
  analyses.

#### 9 SHOULD ANY OR ALL OF THE ARGUMENTS MADE BY THE OPPOSING 0. 10 WITNESSES PERSUADE THE COMMISSION TO LOWER THE RETURN ON 11 COMMON EQUITY IT **APPROVES** FOR **SPIRE** BELOW YOUR 12 **RECOMMENDATION?**

# A. No, they should not. My recommended cost of common equity of 9.95%, is both reasonable and conservative. It will provide the Company with sufficient earnings to enable it to attract necessary new capital efficiently and at a reasonable cost, to the benefit of both customers and investors.

#### 17 Q. DOES THIS CONCLUDE YOUR REBUTTAL TESTIMONY?

18 A. Yes, it does.

#### **BEFORE THE PUBLIC SERVICE COMMISSION**

#### **OF THE STATE OF MISSOURI**

In the Matter of Spire Missouri Inc.'s ) Request for Authority to Implement a ) General Rate Increase for Natural Gas ) File No. GR-2021-0108 Service Provided in the Company's ) Missouri Service Areas

#### AFFIDAVIT

STATE OF NEW JERSEY	)	
	)	SS.
COUNTY OF BURLINGTON	)	

Dylan W. D'Ascendis, of lawful age, being first duly sworn, deposes and states:

My name is Dylan W. D'Ascendis. I am employed as Partner for 1. ScottMadden, Inc. My business address is 3000 Atrium Way, Suite 241, Mount Laurel, NJ 08054.

Attached hereto and made a part hereof for all purposes is my rebuttal 2. testimony on behalf of Spire Missouri, Inc.

I hereby swear and affirm that my answers contained in the attached 3. testimony to the questions therein propounded are true and correct to the best of my knowledge and belief.

Dylai .D Ascendi

Subscribed and sworn to before me this 19 day of une. 2021.

Margaret A Clancy Notary Public of New Jersey My Commission Expires 6/9/2024

63

#### Spire Missouri Inc. Recommended Capital Structure and Cost Rates for Ratemaking Purposes <u>at May 28, 2021</u>

Type Of Capital	Ratios (1)	Cost Rate	Weighted Cost Rate
Long-Term Debt Common Equity	45.72% 54.28%	3.994% (1) 9.950% (2)	1.826% 5.401%
Total	100.00%		7.227%

#### Notes:

(1) Company-provided.

(2) From page 2 of this Schedule.

#### Spire Missouri Inc. Brief Summary of Common Equity Cost Rate

		Proxy Group of Seven Natural Gas Distribution
Line No.	Principal Methods	Companies
1.	Discounted Cash Flow Model (DCF) (1)	9.44%
2.	Risk Premium Model (RPM) (2)	10.79%
3.	Capital Asset Pricing Model (CAPM) (3)	11.89%
	Market Models Applied to Comparable Risk, Non-Price	
4.	Regulated Companies (4)	12.53%
5.	Range of Common Equity Model Results	9.44% - 12.53%
6.	Size Risk Adjustment (5)	0.10%
7.	Credit Risk Adjustment (6)	-0.10%
8.	Flotation Cost Adjustment (7)	0.22%
9.	Indicated Range of Common Equity Cost Rates after Adjustment	9.66% - 12.75%
10.	Recommended Common Equity Cost Rate	9.95%
Notes:	<ol> <li>From page 3 of this Schedule.</li> <li>From page 11 of this Schedule.</li> <li>From page 24 of this Schedule.</li> </ol>	

- (4) From page 29 of this Schedule.
- (5) Adjustment to reflect the Company's greater business risk due to its smaller size relative to the Utility Proxy Group as detailed in Mr. D'Ascendis' direct testimony.
- (6) Company-specific risk adjustment to reflect Spire Missouri's lower risk due to a higher long-term issuer rating relative to the proxy group as detailed in Mr. D'Ascendis' direct testimony.
- (7) From page 37 of this Schedule.

	[8]	Indicated	Common Equity Cost Rate (5)	9.77 % 8.89	8.06	8.64	11.66	9.30	10.65	9.57 %	9.30 %	9.44 %	
	[2]	Adjusted	Dividend Yield (4)	2.63 % 3.28	3.65	3.10	5.00	3.55	3.61	Average	Median	ı and Median	
the	[9]	Average Projected Five	Year Growth in EPS (3)	7.14 % 5.61	4.41	5.54	6.66	5.75	7.04			Average of Mean and Median	
Flow Model for <u>panies</u>	[2]	Yahoo! Finance Projected Five Year	Growth in EPS	7.17 % 6.00	3.80	5.00	4.80	4.00	7.31				
<u>i Inc.</u> Discounted Cash Distribution Com	[4]	Bloomberg's Five Year Projected	Growth Rate in EPS	7.10 % 7.33	4.42	5.67	4.93	4.50	5.33				
<u>Spire Missouri Inc.</u> mmon Equity Cost Rate Using the Discounted Cash Flow M <u>Proxy Group of Seven Natural Gas Distribution Companies</u>	[3]	Zack's Five Year Projected	Growth Rate in EPS	7.30 % 7.10	3.90	5.00	5.40	5.50	5.50				
<u>Spire Missouri Inc.</u> Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model for the <u>Proxy Group of Seven Natural Gas Distribution Companies</u>	[2]	Value Line Projected Five	Year Growth in EPS (2)	7.00 % 2.00	5.50	6.50	11.50	9.00	10.00				
Indicate	[1]	Average	Dividend Yield (1)	2.54 % 3.19	3.57	3.02	4.84	3.45	3.49				Motor.
			Proxy Group of Seven Natural Gas Distribution Companies	Atmos Energy Corporation New Iersey Resources Corporation	Northwest Natural Holding Company	ONE Gas, Inc.	South Jersey Industries, Inc.	Southwest Gas Holdings, Inc.	Spire Inc.				

Notes:

(1) Indicated dividend at 05/28/2021 divided by the average closing price of the last 60 trading days ending 05/28/2021 for each company.

(2) From pages 4 through 10 of this Schedule.
(3) Average of columns 2 through 5 excluding negative growth rates.
(4) This reflects a growth rate component equal to one-half the conclusion of growth rate (from column 6) x column 1 to reflect the periodic payment of dividends (Gordon Model) as opposed to the continuous payment. Thus, for Atmos Energy Corporation, 2.54% x (1+(1/2 x 7.14%)) = 2.63%.

(5) Column 6 + column 7.

Source of Information:

Value Line Investment Survey www.zacks.com Downloaded on 05/28/2021 www.yahoo.com Downloaded on 05/28/2021 Bloomberg Professional Services

DWD Schedule R-1

				<u>1 UU</u>	) <u>RP.  </u>	NYSE-/	ATO P	ecent Rice	<u>98.5</u>	RATIC	י <b>18</b> .	<b>J</b> (Media	an: 19.0	RELATIVE P/E RATIO	0.U c	7 DIV'D YLD	2.7	WALU		
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16.				12.5	13.2	14.4	15.9	15.9	16.1	17.5	20.8	22.0	21.7	23.2	22.3	Bold fig Value		Avg Ann'l P/E R	atio	2
.8 4.5%				.83 5.3%	.84 4.7%	.90 4.2%	1.01 4.1%	.89 3.5%	.85 3.1%	.88 2.9%	1.09 2.4%	1.11 2.3%	1.17 2.2%	1.24 2.1%	1.13 2.2%	estim		Relative P/E Rat Avg Ann'l Div'd		1. 2.3
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	erest ear age: 9.5x	rned: 9.5x; )	total inter	rest		4.6%	5.6%	5.9%	5.9%	7.6%	10.5%	13.9%	14.3%	17.6%	20.6%	20.4%	21.4%	Net Profit Margi	n	18.2
		pitalized A	Innual ren	ntals \$20.4	4 mill.	49.4% 50.6%	45.3% 54.7%	48.8% 51.2%	44.3% 55.7%	43.5% 56.5%	38.7% 61.3%	44.0% 56.0%	34.3% 65.7%	38.0% 62.0%	40.0% 60.0%	48.0% 52.0%	45.0% 55.0%	Long-Term Deb Common Equity		40.0 60.0
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		<b>k</b> 130,671	Oblig. \$60 1,944 shs.	J4.2 mill.		8.8%	8.1%	8.9%	9.4%	9.9%	10.1%	9.8%	9.3%	8.9%	8.6%	8.0%	7.5%	Return on Shr. B	Equity	7.5
	4/30/21					8.8%	8.1% 2.8%	8.9% 4.0%	9.4% 4.7%	9.9% 4.9%	10.1% 5.1%	9.8% 4.9%	9.3% 4.8%	8.9% 4.6%	8.6% 4.4%	8.0% 4.0%	7.5%	Return on Com Retained to Cor		7.5
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.45	.48		.56	.62	.68	1.13	.77	.81	.86 1.52	.93 3.76	.98 4.15	1.04 3.80	1.11 4.39	1.19 5.83	1.27 4.65	1.34 4.10	1.42 4.10	Div'ds D Cap'l Sp	ending p		1. 4.
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	20.30	21.50	Book Va	lue per s	hD	24.
32.64 16.8	82.88 16.1		84.12 12.3	83.17 14.9	82.35 15.0	82.89 16.8	83.05 16.8	83.32 16.0	84.20	85.19 16.6	85.88 21.3	86.32 22.4	87.69 15.6	89.34 24.3	95.80 17.7	97.00	98.00		n Shs Ou I'l P/E Ra		100. 17
.89	.87		.74	.99	.95	1.05	1.07	.90	.62	.84	1.12	1.13	.84	1.29	.91	Value	ures are Line		P/E Ratio		
3.1%	3.2%	3.0%	3.3%	3.5%	3.7%	3.3%	3.4%	3.7%	3.5%	3.1%	2.9%	2.7%	2.6%	2.5%	3.5%	estin	nates	Avg Ann	ı'l Div'd Y	'ield	3.7
		JCTURE a 96.3 mill. <b>[</b>			5 mill	3009.2	2248.9	3198.1	3738.1	2734.0	1880.9	2268.6	2915.1	2592.0	1953.7	2400				A	28
Debi	\$2265	.2 mill. L	T Interes			106.5 30.2%	112.4 7.1%	113.7 25.4%	176.9 30.2%	153.7 26.3%	138.1 15.5%	149.4 17.2%	240.5	175.0 NMF	196.2 5.0%	210 5.0%	235 5.0%	Net Prof			2 5.0
		capitalize ned: 5.0x;		rest cove	rage.	3.5%	5.0%	3.6%	4.7%	5.6%	7.3%	6.6%	8.2%	6.7%	10.0%	8.7%	9.1%	Net Prof			9.1
Dx)					ugo.	35.5%	39.2%	36.6%	38.2%	43.2%	47.7%	44.6%	45.4%	49.8%	55.1%	54.0%	54.5%	-	rm Debt I		53.0
Insio	1 Assei	t <b>s-9/20</b> \$4		blig. \$64	3.0 mill.	64.5% 1203.1	60.8% 1339.0	63.4% 1400.3	61.8% 1564.4	56.8% 1950.6	52.3% 2230.1	55.4% 2233.7	54.6% 2599.6	50.2% 3088.9	44.9%	46.0%	45.5% 4605	Common Total Ca	pital (\$mi		47.0 52
d Sto	ck Non	е				1295.9	1484.9	1643.1		2128.3	2407.7	2609.7	2651.0	3041.2	3983.0	4065	4145	Net Plan	it (\$mill)		44
		<b>k</b> 96,339,8	349 shs.			9.7%	9.2%	9.0%	12.1%	8.6%	6.9%	7.7%	10.1%	6.4%	5.6%	6.0%	6.0%		on Total C	· ·	6.0
s of 5/ ARKE		: \$4.1 billi	on (Mid (	Cap)		13.7% 13.7%	13.8% 13.8%	12.8%	18.3% 18.3%	13.9% 13.9%	11.8% 11.8%	12.1% 12.1%	16.9% 16.9%	11.3%	10.6%	10.5%	11.0% 11.0%		on Shr. Ec on Com E		10.5 10.5
URRE	NT PO		2019		3/31/21	6.2%	6.2%	5.2%	11.0%	7.0%	4.8%	5.0%	10.2%	4.6%	4.3%	4.0%	4.5%		to Com		3.5
	ssets		2.7	117.0	57.7	55%	55%	59%	40%	50%	60%	59%	40%	59%	60%	62%		All Div'd			64
ther urrent	Asset		508.9 511.6	505.3 622.3	477.5				y Resourc e energy s								julated re dep. rate:				
nots F	ayable		295.9	270.1	288.2	states f	from the	Gulf Coa	ist to New	Englan	d, and Ca	anada. N	ew Jer-	own 1.3	3% of cor	mmon; Bl	ackRock,	, 14.3%;	Vanguar	d, 10.6%	(12/2
ebt D ther			46.9 103.6	152.6 111.0	31.1 96.8				3,000 cust. Iterruptible								& Direct Address				
	Liab.	4	146.4	533.7	416.1				ty release								38-1480.				
	g. Cov.			545%	550%				ruary								en ab				
change	L RATE (per sh)	10 Yrs	. 5 Y		'24-'26				esouro								d vola these				
	Flow"	-2.5 7.0	% 7.	.5% .0%	.5% 3.0%	creas	sed al	bout	15% ov	ver th	hat tir	ne fr	ame.	time,	the 1	New J	ersey	Natu	ral Ga	as (NJ	ING
arning viden	ids	6.0 7.0	% 6.	.5%	2.0% 5.5%				kely r nancia								ty se new c				
ook V		7.5			5.5%	The	retai	iler a	nd wh	oles	aler o	of ene	ergy	the	first s	six m	onths	of t	his y	ear. (	Com
scal ear nds		TERLY REV 1 Mar.31			Full Fiscal Year				ed sol r. To t								for Nes to				
)18	705.3	1019.1	543.4	647.3	2915.1				$t_{0}$ , to \$8								to \$2.				
)19 )20	811.8 615.0	866.2 639.6	434.9 299.0	479.1 400.1	2592.0 1953.7				gains o								perati				
021	454.3	802.2	525	618.5	2400				ınd to olumes								ing e TD-19				
022	505	850	575	670	2600	profi	tabili	ty_fro	ont, ov	verall	l expe	enses	fell	surro	oundir	ng con	nmodi	ty pri	ces; a	slum	ıp i
scal 'ear nds		RNINGS PE Mar.31			Full Fiscal Year				s, as a hese fa								nd; an actors		ow fo	ssil	tuel
018	1.53	1.61	d.09	d.33	2.72				nigher,								is ste		mom	entur	n t
019 020	.61 .44	1.27 1.12	d.20 d.06	.29 .57	1.96	This	was i	marke	edly be					cont	inue	into	next	year	, as	well.	$\mathbf{Th}$
021	.46	1.77	d.20	.12	2.15			of \$0.9 <b>rais</b> e	0. e <b>d our</b>	fiso	cal 20	21 (e	nds				n pace from				
022	.50	1.85 TEDI V DIV	d.13	.18	2.40	Sept	tembe	er 30	th) s	hare	-net	estin	nate	same	time	, the	regul	ated	utility	v busi	nes
Cal- ndar	QUAI Mar.31	RTERLY DIV		AID C∎ Dec.31	Full Year				ging tl								rate c hich v				
017	.255	.255	.255	.273	1.04				ire wou of abo								estmei				
018 019	.273 .2925	.273	.273 .2925	.2925 .3125	1.11	the t	top er	nd of	manag	gemei	nt's re	cently	/ in-	sion	projec	ts.			-		-
2020	.3125	.3125	.2925 .3125	.3125	1.19				ce rang river o								nd gı richl			ae, tl	nese
021	.3325	.3325							the E						n J. F		- 10111	, tan		y 28,	202
					1		rly Aug.	1			(D) Incluc										

(D) Includes regulatory assets in 2 million, \$5.51/share.
 (E) In millions, adjusted for splits.

Company's Financial Strength Stock's Price Stability Price Growth Persistence Earnings Predictability	A+ 80 60 55
To subscribe call 1-800-VAL	UELINE

(A) Fiscal year ends Sept. 30th.
 (B) Diluted earnings. Qtly. revenues and egs. may not sum to total due to rounding and change in shares outstanding. Next earnings
 (C) Dividends historically paid in early Jan., April, July, and October. 

 Dividends historically paid in early Jan., April, July, and October. 

 Dividends historically paid in early Jan., April, July, and October. 

 Dividends historically paid in early Jan., April, July, and October. 

 Dividends historically paid in early Jan., (E) In millions, adjusted for splits.
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 (E) In millions, adjusted for splits.

DWD Schedule R-1

N.W	. N	ATUF		VYSE-N	WN		R P	ecent Rice	54.22	2 P/E RATI	o <b>21</b> .	3 (Traili Media	ng: 20.4) an: 24.0)	relative P/E ratio	<b>0.9</b>	<b>8</b> DIV'D YLD	3.5	5% V		6 of 3	<u> </u>
IMELIN	IESS 3	3 Raised 1	1/20/20	High: Low:	50.9 41.1	49.0 39.6	50.8 41.0	46.6 40.0	52.6 40.1	52.3 42.0	66.2 48.9	69.5 56.5	71.8 51.5	74.1 57.2	77.3 42.3	56.8 41.7				t Price 2025	
AFETY		3 Lowered		LEGE	60 x Divide	ends p sh													2024	2025	128
ECHNI		4 Raised 5	/7/21	div •••• Re	vided by In elative Pric	iterest Rate e Strength										/					96
		= Market)	Danas	Options: '	Yes	ates recess	ion								<u>ر</u> السرا	<u></u>					
ow-Hig		get Price	•	•		ասեր				LL LANDAR				Imm, In		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					48
27-\$71		) (-10%)	to miu)		di III.					mi						11					-40 -32
		ROJECTIC	DNS		********																24
F	Price	Aı Gain	nn'l Total Return					*****			•••••••	·····									16
igh Sw	90 ( 60 (	+65%) +10%)	15% 6%						•••••••••	*****			••••••		•						_12
	tional	Decision	าร				1									ŀŀ				VL ARITH.*	
Buy	202020 73	92	4Q2020 99	Percen shares	t 15 <del>-</del> 10 -			11.1		1.1.1		1.1	Ш. І. І.					1 yr.	sтоск -13.9	INDEX 75.2	F
o Sell Id's(000)	103 21936		85 22201	traded	5 -			<b>1:    </b>										3 yr. 5 yr.	-3.8 21.6	56.1 103.5	F
005	2006	-	2008	2009	2010	2011	2012	2013		2015	2016	2017	2018	2019	2020	2021	2022	© VALI	je line p	UB. LLC	24-2
33.01	37.20		39.16	38.17	30.56	31.72	27.14	28.02	27.64	26.39	23.61	26.52	24.45	24.49	25.29	26.80	27.80	Revenue			31.
4.34 2.11	4.76 2.35		5.31 2.57	5.20 2.83	5.18 2.73	5.00 2.39	4.94 2.22	5.04 2.24	5.05 2.16	4.91 1.96	4.93 2.12	1.04 d1.94	5.28 2.33	5.15 2.19	5.69 2.30	5.80 2.55	6.05 2.65		low" per sh		6. 3.
1.32	1.39	1.44	1.52	1.60	1.68	1.75	1.79	1.83	1.85	1.86	1.87	1.88	1.89	1.90	1.91	1.92	1.93	Div'ds D	ecl'd per	sh <sup>B</sup> ∎	1.
3.48	3.56		3.92	5.09	9.35	3.76	4.91	5.13	4.40	4.37	4.87	7.43	7.43	7.95	9.18	8.40	8.70		ending p		9. 45
1.28	22.01 27.24		23.71 26.50	24.88 26.53	26.08 26.58	26.70 26.76	27.23 26.92	27.77 27.08	28.12 27.28	28.47 27.43	29.71 28.63	25.85 28.74	26.41 28.88	28.42 30.47	29.05 30.59	33.85 31.00	37.10 31.00		lue per sl n Shs Out		45. 32
17.0	15.9		18.1	15.2	17.0	19.0	20.32	19.4	20.7	23.7	26.9		26.6	30.9	25.0	Bold fig	ures are		'I P/E Rat		24
.91	.86		1.09	1.01	1.08	1.19	1.34	1.09	1.09	1.19	1.41		1.44	1.65	1.30	Value estin			P/E Ratio		1
8.7%	3.7%		3.3%	3.7%	3.6%	3.9%	3.8%	4.2%	4.1%	4.0%	3.3%	3.0%	3.0%	2.8%	3.3%				'l Div'd Y	ield	2.0
		JCTURE a 92.2 mill. <b>D</b>			2 mill.	848.8 63.9	730.6 59.9	758.5 60.5	754.0 58.7	723.8 53.7	676.0 58.9	762.2 d55.6	706.1 67.3	746.4 65.3	773.7 70.3	830 79.0	860 82.0	Revenue Net Profi	. ,		9
	\$860.7			st \$43.1 n		40.4%	42.4%	40.8%	41.5%	40.0%	40.9%		26.4%	16.2%	23.1%	21.0%	21.0%	Income 1	<u> </u>		21.0
tal in	terest co	overage: 3	3.1x)			7.5%	8.2%	8.0%	7.8%	7.4%	8.7%	NMF	9.5%	8.8%	9.1%	9.5%	9.5%	Net Profi			10.
neior	Accet	s-12/20 \$3	272 9 mill			47.3% 52.7%	48.5% 51.5%	47.6% 52.4%	44.8% 55.2%	42.5% 57.5%	44.4% 55.6%	47.9% 52.1%	48.1% 51.9%	48.2% 51.8%	49.2% 50.8%	49.0% 51.0%	46.5% 53.5%	Long-Ter Commor			43.0 57.
				blig. \$595	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		pital (\$mi		25
d Sto	ck None	9				1893.9	1973.6	2062.9	2121.6	2182.7	2260.9	2255.0	2421.4	2438.9	2654.8	2640	2750	Net Plan	<u> </u>		31
		<b>k</b> 30,656,0	06 share	S		6.2% 8.9%	5.7% 8.2%	5.8% 8.1%	5.8% 7.6%	5.5% 6.9%	5.1% 6.9%	NMF NMF	5.8% 8.8%	5.2% 7.5%	5.2% 7.9%	4.0% 7.5%	4.0% 7.0%		n Total C n Shr. Eq		4.( 7.(
of 4/2	26/21					8.9%	8.2%	8.1%	7.6%	6.9%	6.9%	NMF	8.8%	7.5%	7.9%	7.5%	7.0%	Return o			7.0
		\$1.7 billio		• /		2.4%	1.6%	1.5%	1.1%	.6%	.9%	NMF	2.1%	1.4%	1.7%	2.0%	2.0%		to Com		2.
(\$MIL	NT POS .L.)	SITION	2019		3/31/21	73%	80%	81%	85%	92%	87%	NMF	76%	82%	79%	75%	73%		s to Net F		6
ish A her	ssets	2	9.6 284.1	30.2 293.0	17.9 284.9				Natural Ho 75,000 cus									derground cial, 22%			
irrent	Assets		293.7	323.2	302.8	tomers)	and in s	southwes	t Washing	ton state	e. Princip	al cities	served:	portatior	n, 41%.	Employs	1,167.	BlackRoo	ck Inc. o	owns 16	6.4%
ebt Du	ayable Je	2		97.9 399.9	88.6 331.5				R; Vanco R). Compa									./Dir., 1.0 Address:			
her Irrent	Liab.			129.3 627.1	<u>165.6</u> 585.7				; has trar									11. Interne			
	g. Cov.			335%	312%				oruary					perce	ntage	of	the	top li	ine. (	Comb	
	(per sh)	S Past 10 Yrs.		st Est'd	l '18-'20 '24-'26				atural edly h												
venu	es	-3.5	% -2.	.0%	4.0% 4.0%				eary n e, the								a si	lare.	inis i	Jestec	1 0
ash F rning	S	0.5 -1.5	% 1.	.5%	5.5%	appr	oxima	itely	17%.	Whi	le <sup>°</sup> th	is is	en-	We h	ave	raise	d oui	r 2021	rev	enue	ar
viden ok Va	ds alue	1.5 1.0	% 0. %	.5%	.5% 8.5%				estors d sell o									by \$1 llion			
al-	QUAR	RTERLY RE			Full				020. In												
	Mar.31			Dec.31	Year	more	e thar	n 45%	b of it	s val	ue th	rough		would	l rep	resen	t a :	more-f	than-1	L0%	yea
18 19	264.7 285.4	124.6 123.4	91.2 90.3	226.7 247.3	706.1				hit earl I <b>e con</b>		•	-	solid					advano stimat			
20	285.2	135.0	93.3	260.2	773.7			res			the			sales,							
21 22	315.9 <b>320</b>	145 150	110 120	259.1 270	830 860				is evid												
22 al-		ARNINGS P			Full				to \$3 reases												
dar	Mar.31	Jun.30	Sep.30	Dec.31	Year	grow	th, a	nd as	sset m	anag	emen	t ben	efits.	sition	s. Th	e NW	7 Nat	ural V	Water	Com	pāi
18 19	1.46 1.50	d.01 .07	d.39 d.61	1.27 1.26	2.33 2.19				ulated												
20	1.58	d.17	d.61	1.50	2.30				al gas dition <i>a</i>												
	1.94 <b>1.96</b>	d.10 d.08	d.60 d.58	1.31 1.35	2.55 2.65	norm	nal w	reathe	r patt	terns	acro	ss N	WN's	able s	servic	e to it	s cust	tomers	s. Ö	,	
		a.08 TERLY DIV							y help												
)22	a UAN		Sep.30		Full Year				and. ] t by												
)22 :al-	Mar.31		.47											above							
022 Cal- Idar 017	.47	.47		.4725	1.88																
022 Cal- ndar 017 018	.47 .4725	.4725	.4725	.475	1.89	How	ever,	with	vaccin	es ro	lling	out, i	t ap-	and	well o	covere	d. W	hat's i	more,	NWI	
021 022 Cal- ndar 017 018 019 020	.47	.4725 .475				How pears	ever, s that	with t ther	vaccino e is a	es ro ligh	lling t at t	out, i the er	t ap- nd of	and fers	well o worth	covere while	d. W recov	hat's i	more,	NWI	
)22 al- dar )17 )18 )19	.47 .4725 .475	.4725 .475	.4725 .475	.475 .4775	1.89 1.90	How pears that	ever, s that tunn	with t ther el. Or	vaccin	es ro ligh marg	lling t at t in fro	out, i the er nt, ov	t ap- nd of verall	and fers pull t	well o worth to 202	covere while 4-202	d. W recov	hat's i	more, otenti	NWI	r tł

recurring items: '06, (\$0.06); '08, (\$0.03); '09, May, August, and November. \$0.06; May not sum due to rounding. Next earnings report due in early Aug. © 2017 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.

Company's Financial Strength	A	
Stock's Price Stability	85	
Price Growth Persistence	30	
Earnings Predictability	5	
o subscribe call 1-800-VAL	UELINE	

DWD Schedule R-1

ECHNICAL 4 Raised 5/28/21 ETA 80 (1.00 = Market) B-Month Target Price Range bw-High Midpoint (% to Mid) 50-\$121 \$91 (20%) 2024-26 PROJECTIONS Price Gain Return gh 145 (+95%) 20% W 105 (+40%) 12% Institutional Decisions 202020 302020 402020 Buy 142 130 123 Pe sha	ercent 21 - haded area indi- haded area indi- traded 7 began trad- York Stock . That hap- paration of n operation off, on Jan- ibuted one r every four bock held by d as of the 1. It should I not retain v company	control contro control control control control control control control control co		High: Low: 2013    		2015 29.62 4.82 2.24 1.20 5.63	<b>2016</b> 27.30 5.43 2.65 1.40	29.43 5.96 3.02	<b>2018</b> 31.08 6.32			••	2022 33.85 8.20		5 20 
ECHNICAL 4 Raised 5/28/21 ETA .80 (1.00 = Market) B-Month Target Price Range bw-High Midpoint (% to Mid) 30-\$121 \$91 (20%) 2024-26 PROJECTIONS Price Gain Return gh 145 (+95%) 20% W 105 (+40%) 12% Distitutional Decisions 202020 302020 402020 Buy 142 130 123 Sell 137 151 163 Sell 142 130 123 Sell 137 151 163 Sell 157 163 Sell 137 151 153 Sell 137 151 153	ercent 21 - ercent 21 - haded area indi- baded area indi- tions: Yes haded area indi- ares 14 ares 14 aded 7 began trad- York Stock . That hap- paration off, on Jan- ibuted one r every four ock held by J as of the 1. It should I not retain v company.	cates recess	ion	2013	2014 34.92 4.52 2.07 84 5.70 34.45	2015 2.24 1.20 5.63	<b>2016</b> 27.30 5.43 2.65 1.40	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	······································	······································	2020 28.78	u1 €	33.85	% TOT. RETURN 4/21 THIS VL ARTH 1 yr. 3.9 75.2 3 yr. 23.8 561.1 5 yr. 54.8 103.5 © VALUE LINE PUB. LLC Revenues per sh	2 
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are of OGS common stock for ares of ONEOK common stoc IEOK shareholders of record se of business on January 21 mentioned that ONEOK did y ownership interest in the new PITAL STRUCTURE as of 3/31/21 al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$11 interest earned: 4.8x; total interest \$12 interest earned: 4.8x; total interest \$12 interest earned: 4.8x; total interest \$12 interest earned: 4.8x; total interest \$12 istock None Sion Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 IRKET CAP: \$4.0 billion (Mid Cap)	r every four ock held by d as of the 1. It should I not retain v company. \$1020.0 mill.		   				5.91	6.81	7.50	7.91	8.87	9.00	9.20		9
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IEOK shareholders of record se of business on January 21 mentioned that ONEOK did / ownership interest in the new PITAL STRUCTURE as of 3/31/21 al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$13 interest earned: 4.8x; total interest erage: 4.8x) uses, Uncapitaled Annual rentals \$ Stock None ision Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/28/21 RKET CAP: \$4.0 billion (Mid Cap)	as of the 1. It should I not retain v company. \$1020.0 mill.					52.26	52.28	52.31	52.57	52.77	53.17	53.50	53.50	v	
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mentioned that ONEOK did / ownership interest in the new PITAL STRUCTURE as of 3/31/21 al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$113 interest earned: 4.8x; total interest erage: 4.8x) ses, Uncapitalized Annual rentals \$ Stock None Stock None Stock None Stock Solution (Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)	l not retain v company. \$1020.0 mill.				.94	1.00	1.19	1.18	1.25	1.35	1.11	Value estin		Relative P/E Ratio	
/ ownership interest in the new PITAL STRUCTURE as of 3/31/21 al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$19 interest earned: 4.8x; total interest erage: 4.8x) ises, Uncapitalized Annual rentals \$ Stock None ision Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)	v company. \$1020.0 mill.				2.3%	2.7%	2.3%	2.4%	2.5%	2.3%	2.7%	esun	ales	Avg Ann'l Div'd Yield	2
PITAL STRUCTURE as of 3/31/21 al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$11 interest earned: 4.8x; total interest erage: 4.8x) sses, Uncapitalized Annual rentals \$ Stock None Stock None Stock S3,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)	\$1020.0 mill.				1818.9	1547.7	1427.2	1539.6	1633.7	1652.7	1530.3	1675	1810	Revenues (\$mill)	2
al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$11 interest earned: 4.8x; total interest erage: 4.8x) ses, Uncapitalized Annual rentals \$ Stock None ision Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)		1 <u></u>			109.8	119.0	140.1	159.9	172.2	186.7	196.4	205			-
al Debt \$4529.7 mill. Due in 5 Yrs \$ Debt \$4082.7 mill. LT Interest \$11 interest earned: 4.8x; total interest erage: 4.8x) ses, Uncapitalized Annual rentals \$ Stock None Stock None Stock Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)					38.4%	38.0%	37.8%	36.4%	23.7%	18.7%	17.5%	17.0%	17.5%	<u> </u>	22
Debt \$4082.7 mill. LT Interest \$15 interest earned: 4.8x; total interest erage: 4.8x) sees, Uncapitalized Annual rentals \$ Stock None ision Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)					6.0%	7.7%	9.8%	10.4%	10.5%	11.3%	12.8%	12.2%	11.9%		11
erage: 4.8x) ses, Uncapitalized Annual rentals ( Stock None ision Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)					40.1%	39.5%	38.7%	37.8%	38.6%	37.7%	41.5%	64.0%			47.
ises, Uncapitalized Annual rentals & Stock None Ision Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)					59.9%	60.5%	61.3%	62.2%			41.5 % 58.5%	36.0%			
Stock None           sion Assets-12/20 \$987.6 mill.           Oblig. \$1077.6           mmon Stock 53,245,144 shs.           of 4/26/21           RKET CAP: \$4.0 billion (Mid Cap)									61.4%	62.3%				Common Equity Ratio	53
nsion Assets-12/20 \$987.6 mill. Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)	\$7.9 mill.					3042.9	3080.7	3153.5	3328.1	3415.5	3815.7	6600	6820		8
Oblig. \$1077.6 mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)						3511.9	3731.6	4007.6	4283.7	4565.2	4867.1	5100	5330		6
mmon Stock 53,245,144 shs. of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)	6 mill				4.4%	4.7%	5.2%	5.8%	5.9%	6.4%	6.0%	5.0%	5.0%	Return on Total Cap'l	5.
of 4/26/21 RKET CAP: \$4.0 billion (Mid Cap)					6.1%	6.5%	7.4%	8.2%	8.4%	8.8%	8.8%	8.5%	8.5%		6
1 17					6.1%	6.5%	7.4%	8.2%	8.4%	8.8%	8.8%	8.5%			6
RRENT POSITION 2019 202	)				3.7%	3.1%	3.5%	3.7%	3.7%	3.8%	3.7%	3.5%	3.0%	Retained to Com Eq	3
	20 3/31/21				40%	53%	52%	55%	56%	56%	58%	61%	62%	All Div'ds to Net Prof	!
(\$MILL.) sh Assets 17.9 8.	3.0 704.9	BUSIN	ESS: ON	E Gas,	Inc. provid	es natu	iral gas o	distributior	n serv-	& indust	rial, 9.4%	6; other,	.6%. ON	IE Gas has around 3,600	) emp
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rrent Assets 506.2 539.		· · ·			Kansas Ga									Investment, 7.6%; offic	
cts Payable 120.5 152.	2.3 228.0				ased 153 E									CEO: Pierce H. Norto	
bt Due 516.5 418. ner 235.7 226.					2019. Tota									15 East Fifth Street, Tul: Internet: www.onegas.co	
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. Chg. Cov. 567% 587%		ONE			tom li					comp	any is	ssued	\$1 bi	illion of 0.85 pe	erce
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nange (per sh) 10 Yrs. 5 Yrs.	to '24-'26	of 20			net of					perce	nt sei	nior 1	notes	due 2024, and	\$8
venues1.0%	6.0%	than	the	prior	-year t	otal	of \$1	.72. 1	Γhat	millic	on of	float	ing-ra	te senior notes	s di
ash Flow" 8.0% nings 10.0%	6.0%	parti	ally re	eflect	ed ben	efits f	from 1	new ra	ates,	2023.	It sł	hould	also	be stated that	ON
idends 14.5%	6.5% 7.0%	prim	arily i	in Te	xas an	d Ok	lahom	ia. An	oth-					those costs the	
ok Value 3.0%	10.5%				factor									till, since the ba	
al- QUARTERLY REVENUES (\$ mill	ill.) Full				in Ok									everaged, we lo	
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22 650 355 300 505	1810 15	more	e detai	ils). 1	Althoug	gh th	e effe	cts of	the	tribut	tor (a	s mea	asured	d by customer o	our
EARNINGS PER SHARE A	Full				ve cor									d Kansas, and	
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	1.08 3.80	5%, 1	to \$4.0	00.	0					Unite	ed St	ates.	Also	, ONE Gas s	seen
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al- QUARTERLY DIVIDENDS PAID					ertain					quire	ments	, са	pital	expenditures,	ar
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21 .58 .58	.42 1.68 .46 1.84	whic purc	billior	1. 10	pay 101	• thes	i appr se exp	oxima enses.	tely				rris, II	II May 28	, 20

 2017, \$U.05. Next earnings report due earry Aug. Quarterly EPS for 2018 don't add up due to rounding.
 June, Sept., and Dec. 

 Dividend reinvestment (C) In millions.
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DWD Schedule R-1 Page 8 of 38

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1.25	1.75			1.86	2.10	2.23	2.34	2.48	2.67	2.42	2.67	2.79	2.91	2.56	3.32	2.95	3.25		low" per		4.
.86 .43	1.23 .46			1.19 .61	1.35	1.45 .75	1.52	1.52	1.57 .96	1.44 1.02	1.34 1.06	1.23	1.38 1.13	1.12	1.68 1.19	1.80 1.25	1.95 1.32	Earnings Div'ds D			2. 1.
1.60	1.26	6 .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	5.85	6.65	Cap'l Sp	ending p	er sh	7.
6.75 57.96	7.5			9.12 59.59	9.54 59.75	10.33 60.43	11.63 63.31	12.64 65.43	13.65 68.33	14.62 70.97	16.22 79.48	14.99 79.55	14.82 85.51	15.41 92.39	16.51 100.59	18.20 103.00	18.85 105.00	Book Va Commor			22. 115.
16.6	00.00 11.9			15.0	16.8	18.4	16.9	18.9	18.0	17.9	21.7	27.9	22.6	92.39	14.9		ures are	Avg Ann			115
.88	.64		.96	1.00	1.07	1.15	1.08	1.06	.95	.90	1.14	1.40	1.22	1.51	.77	Value	e Line nates	Relative	P/E Ratio	0	
3.0%	3.2%			3.4%	3.0%	2.8%	3.2%	3.1%	3.4%	3.9%	3.6%	3.2%	3.6%	3.7%	4.8%			Avg Ann		ld	3.
		77.5 mill.		1/21 Yrs \$380.	1 mill.	828.6 87.0	706.3 93.3	731.4	887.0 104.0	959.6 99.0	1036.5 102.8	1243.1 98.1	1641.3 116.2	1628.6 103.0	1541.4	1775 185	205	Revenue Net Profi			25
Debt	\$3063	.4 mill.	LT Intere	<b>st</b> \$100 m	ill.	22.4%	10.8%			5.9%	42.0%				9.9%	21.0%	21.0%	Income 1	Tax Rate		21.
						10.5% 40.5%	13.2% 45.0%	13.3% 45.1%	11.7% 48.0%	10.3%	9.9% 38.5%	7.9%	7.1%	6.3% 59.2%	10.6%	10.4% 63.0%	10.8% 63.0%	Net Profi Long-Ter		Datio	12. 60.
		ts-12/20 \$		ntals \$1.2	mili.	40.5 %	55.0%	54.9%	52.0%	49.2 % 50.8%	61.5%	51.5%	37.6%	40.8%	37.4%	37.0%		Commor			39.
d Sto	ck Non	۵	0	<b>blig.</b> \$48	1.8 mill.	1048.3	1337.6	1507.4		2043.9	2097.2	2315.4	3373.9	3493.9	4437.3	5075	5380	Total Ca		ill)	6
						1352.4 8.9%	1578.0 7.4%	1859.1 6.8%	2134.1 6.4%	2448.1 5.4%	2623.8 5.4%	2700.2	3653.5	4073.5	4464.2	4800 4.5%	5150 5.0%	Net Plan Return o		an'l	58 5.5
ommo of 5/		<b>k</b> 112,421	1,394 sns			13.9%	12.7%	11.7%	11.2%	9.5%	8.0%	8.2%	9.2%	7.2%	9.8%	10.0%	10.5%	Return o		•	11.
	ТСАР	: \$2.9 bill	ion (Mid	Can)		13.9% 6.7%	12.7% 5.8%	11.7% 4.8%	11.2% 4.3%	9.5%	8.0%	8.2%	9.2%	7.2%	9.8% 2.9%	10.0% 3.0%	10.5% 3.5%	Return o Retained			
JRRE	NT PO	SITION	2019	• •	3/31/21	52%	55%	4.0 %	61%	2.0% 71%	80%	.9 % 89%	82%	104%	70%	70%	68%	All Div'd		· ·	5.
	L.) ssets		6.4	34.0	30.4	BUSIN	ESS: S	outh Jers	ey Industr	ies, Inc	. is a ho	lding co	mpany.	Energy,	South .	Jersey E	inergy Se	ervice Plu	us, and	SJI Mid	strea
her Irrent	Asset		<u>646.1</u> 652.5	472.8 506.8	458.5				natural ganix '20: res									own less orporatior			
	ayable	•	232.2 316.6	256.6 739.2	218.1 314.1	cogen.	and ele	ctric gen	, 9%; indu	ustrial, 2	20%. Acc	. Elizabe	thtown	Group,	10.8% (3	/21 prox	y). Pres.	& CEO: N	Michael J	J. Renna	. Čh
ther		_	183.1	167.8	220.5				8. Nonutil. Group, S									Addr.: 1 \$ 0. Web: v			
	: Liab. g. Cov.		731.9 <sup>-</sup> 176%	1163.6 238%	752.7 333%				Indus					-				conti			
INUA	L RATI	ES Past		st Est'd		com	plete	d two	o cono	curre	ent re	egiste	ereď	from	solid	cust	omer	grow	th, ra	ate r	elie
venu	(per sh)	1.	5% 6	.5%	' <b>24-'26</b> 4.0%				<b>gs.</b> Thi of com									mode: th Jer			
rning		1.5	5% -1	.5% 1	6.0% 1.5%	milli	on ir	equi	ty unit	ts. T	he eq	uity 1	inits	the 1	eliabi	lity o	f its s	system	ns and	d ear	nε
viden ok V	ds alue	6. 5.	5% 4 5% 2	.0% .5%	4.5% 6.5%				l on t procee									thes favor			
al-		RTERLY R			Full				ed to					the 1	nonuti	ility s	ыd́е. Л	The E	nergy	Mar	ag
dar 18	Mar.3 521.9	1 Jun.30 227.3	Sep.30 302.5	Dec.31 589.6	Year 1641.3				ooses, a nainly									olesale enefit			
19	637.3	266.9	261.2	463.2	1628.6				h as ir									portur			
)20 )21	534.1 674.3	260.0 <b>285</b>	261.5 <b>285</b>	485.8 <b>530.7</b>	1541.4 1775				s were									ent co			
22	640	320	320	620	1900				nd the nance									nd sol orman			
al- dar	E Mar.3	ARNINGS		E A Dec.31	Full	drive	es do	wn th	e pric	e of	a sec	urity	and	gy Pi	roduct	ion se	egmen	t.			
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)19	1.09	d.13	d.30	.46	1.12	But	the	equi	y has					ing	six to	o 12	mont	t <b>hs.</b> L	ookin	ng fun	rthe
)20 )21	1.15	d.01 .01	d.06 <b>d.05</b>	.62 <b>.58</b>	1.68 1.80				l <b>y.</b> Th r the									reasir rnings			
022	1.32	.02	d.02	.63	1.95	top	line i	ncreas	ed rou	ghly	26%,	year	over					e pull			
al- dar		RTERLY DI			Full	year	, to \$	674.3	millior	n. Ad	justed	earn	ings	From	the	recent	t quot	ation,	this	equit	уо
dar )17	Mar.3	<u>1 Jun.30</u> .273	Sep.30 .273	.553	Year 1.10				\$1.26 year t					iers	attra ntial	This	is he	¦-term lped ∣	tota by a	u re relat	tur ive
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019 020		.287 .295	.287 .295	.582 .598	1.16	well	in th	e recei s for	nt perio the	od.	ino •	eare	an-		ne-ori ; to lik			ints n	nay fi	ind s	ome
021		.303				pear	r fave	orable	e here.	. The	comp	any's	util-		ael Ne				Ma	y 28,	202
Base	d on ec	onomic e	gs. from 2	2007. GA/ .49; '13,	AP non	recur. gai	n (loss):	'10, (\$0.2	4); '11, \$0	.04;	August. (	B) Div'ds	paid ea	rly April, .	July, Oct.	, Coi	mpany's	Financia	l Streng	th	B++
3: '10	\$1.11	; '11, \$1.4	9; '12, \$1	.49; '13, 1.56; '17,	'12,	(\$0.03); '	13, (\$0.2	24); '14, (3	60.11); '15 18, (\$1.17	,	and late	Dec. = Di	v. reinve	st. plan a 20: \$674.0	vail.	Sto	ck's Pric ce Growt	e Stabilit	ty -		6 1

 EPS: 10, \$1.1; 11, \$1.49; 12; \$1.49; 13, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 12, \$1.2; \$1.6; 12, \$1.2; \$1.6; 12, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 17, \$1.2; \$1.6; 12, \$1.2; \$1.6; 12, \$1.2; \$1.6; \$1.2; \$1.6; 12, \$1.2; \$1.6; \$1.2; \$1.2; \$1.6; \$1.2; \$1.2; \$1.6; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1.2; \$1

DWD Schedule R-1 0 of 20

South	-IWF	ST G		VSE-eu	vx	R	ecent Rice	68.88	P/E RATIO	o <b>15</b> .'	3 (Traili Media	ng: 14.2) an: 19.0)	RELATIVE P/E RATIO		1 DIV'D YLD	3.5			88
	•		High:	37.3	43.2	46.1	56.0	64.2 47.2	63.7	79.6	86.9	86.0	92.9	81.6	73.5			get Price	Ran
AFETY	3 Lowere		Low:	26.3 NDS	32.1	39.0	42.0	47.2	50.5	53.5	72.3	62.5	73.3	45.7	57.0			4 2025	
ECHNICAL	4 Raised		.88	0 x Divider vided by In	iterest Rate														16
<b>TA</b> .95 (1.0		0.20.21	Options:	elative Pric Yes	•	. –									/				
B-Month Ta	rget Pric	e Range	Shaded	area indici	ates recess	ion					JU Marriell		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	, , , , , , , , , , , , , , , , , , ,					
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	84 (20%)				իստոլլի		Sum.							1					40
2024-26 P		ONS Ann'l Total	<b>ii</b>	ր,դր,															
Price qh 125	Gain (+80%)	Return 18%		******	*******	••**•,	*****	****		••••	•••••		****						20
w 85	(+25%)	<b>9%</b>						**********	•••••			••••	•	•	1		% TOT. RET	URN 4/21	-15
stitutiona 20202															•••		THIS	VL ARITH.*	
Buy 13	30 116	140	Percen shares	10 -		Lutto.						الالال	ul h aut				1 yr4.9 3 yr. 3.5	75.2 56.1	F
Sell 12 d's(000) 4808	46991	48058	traded	5 -													5 yr. 22.3	103.5	t
005 200		-	2009	2010	2011	2012	2013		2015		2017	2018	2019	2020	2021	2022	© VALUE LINI		
3.59 48.4 5.20 5.9			42.00 6.16	40.18	41.07 6.81	41.77 7.73	42.08	45.61 8.47	52.00 8.62	51.82 9.29	53.00 8.83	54.31 8.14	56.72 9.40	57.68 9.87	59.30 10.50	60.65 11.05	Revenues per "Cash Flow" p		67. 14.
1.25 1.9			1.94	2.27	2.43	2.86	3.11	3.01	2.92	3.18	3.62	3.68	3.94	4.14	4.50	4.75	Earnings per s		6
.82 .8	.86		.95	1.00	1.06	1.18	1.32	1.46	1.62	1.80	1.98	2.08	2.18	2.28	2.37	2.48	Div'ds Decl'd p	ersh <sup>B</sup> ∎†	2
7.49 8.2			4.81	4.73	8.29	8.57	7.86	8.53	10.30	11.15	12.97	14.44	17.06	14.43	13.55	16.40	Cap'l Spending		24
9.10 21.5 9.33 41.7			24.44 45.09	25.62 45.56	26.66 45.96	28.35 46.15	30.47 46.36	31.95 46.52	33.61 47.38	35.03 47.48	37.74 48.09	42.47 53.03	45.56 55.01	46.77 57.19	50.00 59.00		Book Value per Common Shs		63 65
20.6 15.			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		Avg Ann'l P/E		1
1.10 .8			.81	.89	.98	.95	.89	.94	.98	1.13	1.12	1.11	1.13	.87	Value estin		Relative P/E Ra		
.2% 2.69			4.0%	3.2%	2.8%	2.8%	2.7%	2.7%	2.9%	2.6%	2.5%	2.7%	2.6%	3.3%			Avg Ann'l Div'o		2.
PITAL STR tal Debt \$30				9 mill	1887.2 112.3	1927.8 133.3	1950.8		2463.6	2460.5 152.0	2548.8	2880.0	3119.9	3298.9 232.3	3500 260		Revenues (\$mi	'	4
Debt \$2696	6.6 mill.	LT Interes	st \$100.0	mill.	36.2%	36.2%	145.3 35.0%	141.1 35.7%	138.3 36.4%	33.9%	173.8 32.8%	182.3 25.3%	213.9 20.5%	232.3	200	285 21.0%	Net Profit (\$mi Income Tax Ra		21.
otal interest ases, Unca			(48% of ( 11als \$13)		6.0%	6.9%	7.4%	6.7%	5.6%	6.2%	6.8%	6.3%	6.9%	7.0%	7.4%		Net Profit Marg		9.
nsion Asse		61238.7 m	ill.		43.2%	49.2%	49.4%		49.3%	48.2%	49.8%	48.3%	47.9%	50.5%	50.5%	50.0%	Long-Term Deb		48.
I Stock Nor	ne	Oblig	. \$1581.4	mill.	56.8% 2155.9	50.8% 2576.9	50.6% 2793.7		50.7% 3143.5	51.8% 3213.5	50.2% 3613.3	51.7% 4359.3	52.1% 4806.4	49.5% 5407.2	49.5% 5950		Common Equit Total Capital (\$		52. 78
					3218.9	3343.8	3486.1		3891.1	4132.0	4523.7	5093.2	5685.2	6176.1	6400		Net Plant (\$mil		80
mmon Sto	<b>ck</b> 58.001.	396 shs.			6.4%	6.4%	6.3%	5.7%	5.5%	5.8%	5.8%	5.2%	5.4%	5.3%	5.0%		Return on Tota	,	6.0
of 4/30/21					9.2% 9.2%	10.2% 10.2%	10.3%	9.5% 9.5%	8.7% 8.7%	9.1% 9.1%	9.6% 9.6%	8.1% 8.1%	8.5% 8.5%	8.7% 8.7%	9.0% 9.0%		Return on Shr.		10.0 10.0
ARKET CAP	P: \$4.0 bill	ion (Mid (	Cap)		9.2% 5.3%	6.1%	6.1%	9.5% 5.0%	4.0%	9.1%	9.0%	3.6%	3.9%	4.0%	9.0% 4.0%	9.0%	Return on Com Retained to Co		5.
IRRENT PO	OSITION	2019	2020	3/31/21	43%	40%	41%	47%	54%	55%	53%	55%	54%	54%	54%		All Div'ds to Ne		4
(\$MILL.)		49.5	83.4	92.3	BUSIN	ESS: So	uthwest	Gas Holdii	ngs, Ind	c. is the	parent	holding	put: 2.2	billion th	erms. Ha	as 11,149	9 employees. C	)ff. & dir. (	own .8
ash Assets		810.4	787.6 871.0	908.6 1000.9				as and Ce serving 2.									3%; The Vang		
ish Assets her	ts –	859.9		182.8				Centuri p									LLC, 9.4% (3) CEO: John P &		
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Company's Financial Strength Stock's Price Stability Price Growth Persistence Earnings Predictability

 (A) Diluted earnings. Excl. nonrec. gains (losses): '05, (11c); '06, 7c. Next egs. report due early August. (B) Dividends historically paid early March, June, September, and De-© 2021 Yubue 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.
 Company's Financial Strength A Stock's Price Stability 80 Price Growth Persistence 60 Earnings Predictability 100

DWD Schedule R-1

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1.3				1.53	1.57	1.61	1.66	1.70	1.76	1.84	1.96	2.10	2.25	2.37	2.49	2.60	2.72	Div'ds D			3.
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21.1				22.17	22.29	22.43	22.55	32.70	43.18	43.36	45.65	48.26	50.67	50.97	51.60	52.50	53.50	Common			55.
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otai	Interest	coverage.	2.0X)			4.0%	5.6%	5.2%		6.9%	9.4%	9.3%	10.9%	9.5%	4.8%	11.8%	11.6%	Net Profi			9.4
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	IENT PC //ILL.)	DSITION	2019	2020	3/31/21	56%	59%	81%	73%	58%	59%	60%	51%	66%	NMF	57%	70%	All Div'd	s to Net F	Prof	62
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Reve Cash Cash Cash Cash Cash Cash Cash Cash	Value I QUA Dec.3 561.6 602.0 566.9 512.6 530 I EL Dec.3 2.39 1.32 1.32 1.24	31         Mar.31           3         813.4           0         803.5           9         715.5           6         1104.9           803         803           ARNINGS PI         31           31         Mar.31           9         2.03           2         3.04           4         2.54	Jun.30 350.6 321.3 321.1 377.5 376 ER SHARE Jun.30 .52 d.09 d1.87	239.2 225.6 251.9 <b>255</b> <b>266</b> <b>A B F</b> <b>Sep.30</b> d.51 d.74 d.45	1965.0 1952.4 1855.4 <b>2250</b> <b>1975</b> Full Fiscal Year 4.33 3.52 1.44	tions Storr the unit. easy quar will versu	, espe n Uri perfor Give botto ter, it jump is the	ecially i stru rman en th om-lin appe o nea e unir	y in Fel ck part ce of t at the ars tha arly 3.9 aspiring	s of the com bariso t ful 5 tin ; fisc	Gas ipany on in l-year mes, al 20	Mark face the shar to \$ 20 tal	eting s an third e net 5.00, lly of	did n comp ous ment divide	capita lot see any or obliga s, ends)	al, an em to ught tions capita with	d sho be a to be (incl al relati	ort-tern major able t luding expen	n con hurd o mee inte diture	nmitn le. So et its erest es,	o, th var pay an
Reve Cash Earniuide Sook Fisca Year Ends 2018 2020 2021 2022 Fisca Year Ends 2018 2020 2021 2020 2020 2020 2020 2020	Value I QUA Dec.3 561.6 602.0 566.9 512.6 530 I EL Dec.3 2.39 1.32 1.24 1.65	31         Mar.31           3         813.4           0         803.5           9         715.5           6         1104.9           803         803           ARNINGS PI         31           31         Mar.31           9         2.03           2         3.04           4         2.54           5         3.55	Jun.30 350.6 321.3 321.1 377.5 376 ER SHARE Jun.30 .52 d.09 d1.87 .48	239.2 225.6 251.9 <b>266</b> <b>A B F</b> <b>Sep.30</b> d.51 d.74 d.45 <i>d.68</i>	1965.0 1952.4 1855.4 <b>2250</b> <b>1975</b> Full Fiscal Year 4.33 3.52 1.44 <b>5.00</b>	tions Storr the unit. easy quar will versu \$1.44	, espe n Uri perfor botto ter, it jump is the l (whi	ecially rman en th om-lin appe o nea e unir ich wa	y in Fel ck part ce of t at the at the ars tha arly 3.8	s of the com ariso t full 5 tin fisc hed b	Gas pany on in l-year mes, al 20 by the	Mark face the shar to \$ 20 tal impa	eting s an third e net 5.00, lly of act of	did n comp ous ment divid are a	capita ot see any or obliga s, ends) lso pla	al, an em to ught tions capita with ausibl	d sho be a to be (incl al relati e.	rt-tern major able t luding expen ive ea	n con hurd o mee inte diture se. Ac	nmitn le. So et its erest es, cquisi	o, th var pay an tior
Revectors Cash Cash Cash Cash Cash Cash Cash Cas	Value I QUA Dec.3 561.8 602.0 566.9 512.6 530 I EA Dec.3 2.39 1.32 1.22 1.65 1.75	Mar.31         Mar.31           3         813.4           0         803.5           9         715.5           6         1104.9           803         803           ARNINGS PI         Mar.31           9         2.03           2         3.04           4         2.54           5         3.55           5         2.74	Jun.30 350.6 321.3 321.1 377.5 376 ER SHARE Jun.30 52 d.09 d1.87 .48 .45	239.2 225.6 251.9 <b>255</b> <b>266</b> <b>8 F</b> <b>Sep.30</b> d.51 d.74 d.45 <i>d.68</i> <i>d.64</i>	1965.0 1952.4 1855.4 <b>2250</b> <b>1975</b> Full Fiscal Year 4.33 3.52 1.44 <b>5.00</b> <b>4.30</b>	tions Storn the unit. easy quar will versu \$1.44 COV pect	, espe n Uri perfor Give botto ter, it jump s the l (whi ID-19 lower	ecially i stru rmano en th om-lin appe o nea o n	v in Fel ck part ce of t at the e comp ars tha arly 3.4 aspiring as crush rning t ugh sti	s of the com pariso t ful 5 tin f fisc ned k o ne ll res	Gas npany on in l-year mes, al 20 oy the xt ye specta	Mark face the shar to \$ 20 tal impa ar, we able, o	eting s an third e net 5.00, lly of act of e ex- earn-	did n comp ous ment divide are a <b>Thes</b> great	capita ot see any or obliga s, ends) lso pla se goo tly in	al, an m to ught tions capita with ausibl od-qu valu	d sho be a to be (incl al relati e. uality ue in	rt-tern major able t luding expen ive ea shar rece	n con hurd o mee inte diture se. Ao es ha ent m	nmitn le. So et its erest es, cquisi ave 1 onth	o, th var pa an tior <b>ise</b> s.
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	,		
Company's Financial Strength Stock's Price Stability	B++		
	90		
Price Growth Persistence	55		
Earnings Predictability	50		
To subscribe call 1-800-VALUELINE			

(A) Fiscal year ends Sept. 30th. (B) Based on dile late July. (C) Dividends paid in early Janu- (E) In millions. (F) Qtly. egs. may not sum due diluted shares outstanding. Excludes nonrecurrent of ary, April, July, and October. 

 Dividends paid in early Janu- (C) Dividen

#### <u>Spire Missouri Inc.</u> Summary of Risk Premium Models for the <u>Proxy Group of Seven Natural Gas Distribution Companies</u>

		Proxy Group of Seven Natural Gas Distribution Companies	
Predictive Risk Premium Model (PRPM) (1) Risk Premium Using an		11.03 %	
Adjusted Total Market Approach (2)		%	
	Average	10.79 %	

Notes:

(1) From page 12 of this Schedule.

(2) From page 13 of this Schedule.

[2]	Indicated ROE (4)	12.32% 12.87%	9.05%	NMF	10.73%	10.22%	11.25%	11.07%	10.99%	11.03%
[6]	Risk-Free Rate (3)	2.88% 2.88%	2.88%	2.88%	2.88%	2.88%	2.88%	Average	Median	ו and Median
[5]	Predicted Risk Premium (2)	9.44% 9.99%	6.17%	15.63%	7.85%	7.34%	8.37%			Average of Mean and Median
[4]	GARCH Coefficient	2.2565 2.0814	1.5413	4.0633	1.6346	1.3628	0.9445			
[3]	Recommended Variance	0.33% 0.38%	0.32%	0.30%	0.39%	0.43%	0.71%			
[2]	Spot Predicted Variance	0.48% 0.34%	0.38%	0.43%	0.69%	0.38%	0.52%			
[1]	LT Average Predicted Variance	0.33% 0.38%	0.32%	0.30%	0.39%	0.43%	0.71%			
	Proxy Group of Seven Natural Gas Distribution Companies	Atmos Energy Corporation New Jersey Resources Corporation	Northwest Natural Holding Company	ONE Gas, Inc.	South Jersey Industries, Inc.	Southwest Gas Holdings, Inc.	Spire Inc.			

<u>Derived by the Predictive Risk Premium Model (1)</u>

Spire Missouri Inc. Indicated ROE

Notes:

- coefficient. The historical data used are the equity risk premiums for the first available trading month as The Predictive Risk Premium Model uses historical data to generate a predicted variance and a GARCH reported by Bloomberg Professional Service. (1)
  - $(1+(Column [3] * Column [4])^{^{12}}) 1.$  $(\underline{6}, \underline{6})$
- From note 2 on page 25 of this Schedule.
  - Column [5] + Column [6].

#### Spire Missouri Inc. Indicated Common Equity Cost Rate Through Use of a Risk Premium Model Using an Adjusted Total Market Approach

<u>Line No.</u>		Proxy Group of Seven Natural Gas Distribution Companies
1.	Prospective Yield on Aaa Rated Corporate Bonds (1)	3.56 %
2.	Adjustment to Reflect Yield Spread Between Aaa Rated Corporate Bonds and A2 Rated Public	
	Utility Bonds	0.39 (2)
3.	Adjusted Prospective Yield on A2 Rated Public Utility Bonds	3.95 %
4.	Adjustment to Reflect Bond Rating Difference of Proxy Group	0.04 (3)
5.	Adjusted Prospective Bond Yield	3.99 %
6.	Equity Risk Premium (4)	6.56
7.	Risk Premium Derived Common Equity Cost Rate	10.55_%

Notes: (1) Consensus forecast of Moody's Aaa Rated Corporate bonds from Blue Chip Financial Forecasts (see pages 20 and 21 of this Schedule).

- (2) The average yield spread of A2 rated public utility bonds over Aaa rated corporate bonds of 0.39% from page 14 of this Schedule.
- (3) Adjustment to reflect the A2/A3 Moody's LT issuer rating of the Utility Proxy Group as shown on page 15 of this Schedule. The 0.04% upward adjustment is derived by taking 1/6 of the spread between A2 and Baa2 Public Utility Bonds (1/6 \* 0.26% = 0.04%) as derived from page 14 of this Schedule.
- (4) From page 17 of this Schedule.
0.17 % (3)

# <u>Spire Missouri Inc.</u> Interest Rates and Bond Spreads for <u>Moody's Corporate and Public Utility Bonds</u>

<u>Selected Bond Yields - Moody's</u>						
	[1]	[2]	[3]	[4]		
	Aaa Rated Corporate Bond	Aa2 Rated Public Utility Bond	A2 Rated Public Utility Bond	Baa2 Rated Public Utility Bond		
May-2021 Apr-2021 Mar-2021	2.96 % 2.90 3.04	3.17 % 3.13 3.27	3.33 % 3.30 3.44	3.58 % 3.57 3.72		
Average	2.97	3.19 %	3.36 %	3.62 %		
		Selected Bond Sprea	ads			
A2 Rated Public U	0.39 % (1)					
Baa2 Rated Public	0.26 % (2)					

A2 Rated Public Utility Bonds Over Aa2 Rated Public Utility Bonds:

Notes:

(1) Column [3] - Column [1].
 (2) Column [4] - Column [3].

(3) Column [3] - Column [2].

Source of Information:

**Bloomberg Professional Service** 

#### Spire Missouri Inc. Comparison of Long-Term Issuer Ratings for Proxy Group of Seven Natural Gas Distribution Companies

	Long-Term	oody's 1 Issuer Rating y 2021	Standard & Poor's Long-Term Issuer Rating May 2021		
Proxy Group of Seven Natural Gas Distribution Companies	Long-Term Issuer Rating (1)	Numerical Weighting (2)	Long-Term Issuer Rating (1)	Numerical Weighting (2)	
Atmos Energy Corporation	A1	5.0	A-	7.0	
New Jersey Resources Corporation	A1	5.0	NR		
Northwest Natural Holding Company	Baa1	8.0	A+	5.0	
ONE Gas, Inc.	A3	7.0	BBB+	8.0	
South Jersey Industries, Inc.	A3	7.0	BBB	9.0	
Southwest Gas Holdings, Inc.	Baa1	8.0	A-	7.0	
Spire Inc.	A1/A2	5.5	A-	7.0	
Average	A2/A3	6.5	A-	7.2	

Notes:

(1) Ratings are that of the average of each company's utility operating subsidiaries.

(2) From page 16 of this Schedule.

Source Information:

Moody's Investors Service Standard & Poor's Global Utilities Rating Service

Moody's Bond Rating	Numerical Bond Weighting	Standard & Poor's Bond Rating
Aaa	1	AAA
Aa1	2	AA+
Aa2	3	AA
Aa3	4	AA-
A1	5	A+
A2	6	А
A3	7	A-
Baa1	8	BBB+
Baa2	9	BBB
Baa3	10	BBB-
Ba1	11	BB+
Ba2	12	BB
Ba3	13	BB-
B1	14	B+
B2	15	В
B3	16	В-

# Numerical Assignment for Moody's and Standard & Poor's Bond Ratings

# <u>Spire Missouri Inc.</u> Judgment of Equity Risk Premium for <u>Proxy Group of Seven Natural Gas Distribution Companies</u>

Line No.	-	Proxy Group of Seven Natural Gas Distribution Companies
1.	Calculated equity risk premium based on the total market using the beta approach (1)	8.16 %
2.	Mean equity risk premium based on a study using the holding period returns of public utilities with A2 rated bonds (2)	5.88
3.	Predicted Equity Risk Premium Based on Regression Analysis of 800 Fully-Litigated Natural Gas Utility Rate Cases	5.64
4.	Average equity risk premium	6.56_%
Notes:	<ol> <li>(1) From page 18 of this Schedule.</li> <li>(2) From page 22 of this Schedule.</li> </ol>	

(3) From page 23 of this Schedule.

## Spire Missouri Inc. Derivation of Equity Risk Premium Based on the Total Market Approach Using the Beta for the Proxy Group of Seven Natural Gas Distribution Companies

		Proxy Group of Seven Natural Gas Distribution
<u>Line No.</u>	Equity Risk Premium Measure	Companies
	Ibbotson-Based Equity Risk Premiums:	
1.	Ibbotson Equity Risk Premium (1)	5.92 %
2.	Regression on Ibbotson Risk Premium Data (2)	8.69
3.	Ibbotson Equity Risk Premium based on PRPM (3)	9.87
4.	Equity Risk Premium Based on Value Line Summary and Index (4)	4.60
5.	Equity Risk Premium Based on Value Line S&P 500 Companies (5)	10.76
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	12.78
7.	Conclusion of Equity Risk Premium	8.77 %
8.	Adjusted Beta (7)	0.93
9.	Forecasted Equity Risk Premium	8.16 %

Notes provided on page 19 of this Schedule.

#### Spire Missouri Inc. Derivation of Equity Risk Premium Based on the Total Market Approach Using the Beta for the Proxy Group of Seven Natural Gas Distribution Companies

Notes:

- (1) Based on the arithmetic mean historical monthly returns on large company common stocks from Duff & Phelps 2021 SBBI® Yearbook minus the arithmetic mean monthly yield of Moody's average Aaa and Aa corporate bonds from 1928-2020.
- (2) This equity risk premium is based on a regression of the monthly equity risk premiums of large company common stocks relative to Moody's average Aaa and Aa rated corporate bond yields from 1928-2020 referenced in Note 1 above.
- (3) The Predictive Risk Premium Model (PRPM) is discussed in the accompanying direct testimony. The Ibbotson equity risk premium based on the PRPM is derived by applying the PRPM to the monthly risk premiums between Ibbotson large company common stock monthly returns and average Aaa and Aa corporate monthly bond yields, from January 1928 through May 2021.
- (4) The equity risk premium based on the Value Line Summary and Index is derived by subtracting the average consensus forecast of Aaa corporate bonds of 3.56% (from page 13 of this Schedule) from the projected 3-5 year total annual market return of 8.16% (described fully in note 1 on page 25 of this Schedule).
- (5) Using data from Value Line for the S&P 500, an expected total return of 14.32% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 3.56% results in an expected equity risk premium of 10.76%.
- (6) Using data from the Bloomberg Professional Service for the S&P 500, an expected total return of 16.34% was derived based upon expected dividend yields and long-term earnings growth estimates as a proxy for capital appreciation. Subtracting the average consensus forecast of Aaa corporate bonds of 3.56% results in an expected equity risk premium of 12.78%.
- (7) Average of mean and median beta from page 24 of this Schedule.

Sources of Information:

Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc. Industrial Manual and Mergent Bond Record Monthly Update. Value Line Summary and Index Blue Chip Financial Forecasts, June 1, 2021 Bloomberg Professional Service

#### 2 ■ BLUE CHIP FINANCIAL FORECASTS ■ JUNE 1, 2021

DWD Schedule R-1 Page 20 of 38

#### **Consensus Forecasts of U.S. Interest Rates and Key Assumptions**

				Histor	y				Cons	ensus 1	Foreca	sts-Qu	arterly	Avg.
	Av	erage For	Week End	ling	Ave	erage For	Month	Latest Qtr	2Q	3Q	4Q	1Q	2Q	3Q
Interest Rates	May 21	<u>May 14</u>	May 7	<u>Apr 30</u>	Apr	Mar	Feb	<u>1Q 2021</u>	<u>2021</u>	<u>2021</u>	<u>2021</u>	<u>2022</u>	<u>2022</u>	<u>2022</u>
Federal Funds Rate	0.06	0.06	0.06	0.07	0.07	0.07	0.08	0.08	0.1	0.1	0.1	0.1	0.1	0.1
Prime Rate	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.25	3.3	3.3	3.3	3.3	3.3	3.3
LIBOR, 3-mo.	0.15	0.16	0.17	0.18	0.18	0.19	0.19	0.20	0.2	0.2	0.2	0.3	0.3	0.3
Commercial Paper, 1-mo.	0.04	0.04	0.29	0.04	0.04	0.07	0.06	0.07	0.1	0.1	0.1	0.1	0.2	0.2
Treasury bill, 3-mo.	0.01	0.02	0.02	0.01	0.02	0.03	0.04	0.05	0.0	0.1	0.1	0.1	0.1	0.2
Treasury bill, 6-mo.	0.03	0.04	0.04	0.04	0.04	0.05	0.06	0.07	0.1	0.1	0.1	0.1	0.2	0.2
Treasury bill, 1 yr.	0.05	0.05	0.06	0.05	0.06	0.08	0.07	0.08	0.1	0.1	0.2	0.2	0.3	0.3
Treasury note, 2 yr.	0.16	0.16	0.16	0.17	0.16	0.15	0.12	0.13	0.2	0.3	0.3	0.4	0.5	0.5
Treasury note, 5 yr.	0.84	0.83	0.81	0.86	0.86	0.82	0.54	0.60	0.9	1.0	1.1	1.2	1.2	1.3
Treasury note, 10 yr.	1.64	1.65	1.60	1.63	1.64	1.61	1.26	1.32	1.7	1.8	1.9	2.0	2.0	2.1
Treasury note, 30 yr.	2.36	2.36	2.27	2.29	2.30	2.34	2.04	2.07	2.4	2.5	2.6	2.6	2.7	2.8
Corporate Aaa bond	3.09	3.11	3.01	3.04	3.04	3.15	2.84	2.88	3.0	3.1	3.3	3.3	3.3	3.4
Corporate Baa bond	3.56	3.57	3.48	3.51	3.51	3.62	3.30	3.35	3.8	4.0	4.1	4.2	4.2	4.3
State & Local bonds	2.64	2.65	2.65	2.63	2.66	2.74	2.63	2.68	2.6	2.7	2.8	2.9	2.9	2.9
Home mortgage rate	3.00	2.94	2.96	2.98	3.06	3.08	2.81	2.88	3.1	3.3	3.4	3.5	3.5	3.6
				Histor	y				Co	onsensu	ıs Fore	casts-(	<b>Juarte</b>	rly
	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q	4Q	1Q	2Q	3Q
Key Assumptions	2019	2019	2019	2020	2020	2020	2020	2021	<u>2021</u>	<u>2021</u>	<u>2021</u>	<u>2022</u>	<u>2022</u>	2022
Fed's AFE \$ Index	110.4	110.6	110.5	111.4	112.4	107.3	105.2	103.4	102.7	102.7	102.9	102.9	103.1	103.2
Real GDP	1.5	2.6	2.4	-5.0	-31.4	33.4	4.3	6.4	9.3	6.9	5.0	3.9	3.1	2.6
GDP Price Index	2.5	1.5	1.4	1.4	-1.8	3.5	2.0	4.3	3.3	2.5	2.1	2.2	2.2	2.3
Consumer Price Index	3.5	1.3	2.6	1.0	-3.1	4.7	2.4	3.7	4.8	2.6	2.1	2.2	2.3	2.2
PCE Price Index	2.5	1.4	1.5	1.3	-1.6	3.7	1.5	3.7	4.0	2.4	2.0	2.1	2.2	2.2

Forecasts for interest rates and the Federal Reserve's Major Currency Index represent averages for the quarter. Forecasts for Real GDP, GDP Price Index, PCE Price Index and Consumer Price Index are seasonally-adjusted annual rates of change (saar). Individual panel members' forecasts are on pages 4 through 9. Historical data: Treasury rates from the Federal Reserve Board's H.15; AAA-AA and A-BBB corporate bond yields from Bank of America-Merrill Lynch and are 15+ years, yield to maturity; State and local bond yields from Bank of America-Merrill Lynch, A-rated, yield to maturity; Mortgage rates from Freddie Mac, 30-year, fixed; LIBOR quotes from Intercontinental Exchange. All interest rate data are sourced from Haver Analytics. Historical data for Fed's Major Currency Index are from FRSR H.10. Historical data for Real GDP, GDP Price Index and PCE Price Index are from the Bureau of Economic Analysis (BEA). Consumer Price Index history is from the Department of Labor's Bureau of Labor Statistics (BLS).



# Long-Range Survey:

The table below contains the results of our twice-annual long-range CONSENSUS survey. There are also Top 10 and Bottom 10 averages for each variable. Shown are consensus estimates for the years 2022 through 2027 and averages for the five-year periods 2023-2027 and 2028-2032. Apply these projections cautiously. Few if any economic, demographic and political forces can be evaluated accurately over such long time spans.

				Average Fo	or The Year			Five-Year	Averages
		2022	2023	2024	2025	2026	2027	2023-2027	2028-2032
1. Federal Funds Rate	CONSENSUS	0.1	0.4	1.0	1.6	1.9	2.1	1.4	2.2
	Top 10 Average	0.2	0.7	1.6	2.4	2.6	2.7	2.0	2.7
	Bottom 10 Average	0.1	0.1	0.5	0.9	1.3	1.5	0.9	1.6
2. Prime Rate	CONSENSUS	3.3	3.5	4.2	4.7	5.0	5.2	4.5	5.2
	Top 10 Average	3.4	3.8	4.7	5.4	5.7	5.8	5.1	5.8
	Bottom 10 Average	3.2	3.3	3.7	4.0	4.4	4.6	4.0	4.7
3. LIBOR, 3-Mo.	CONSENSUS	0.4	0.6	1.3	1.8	2.1	2.3	1.6	2.4
	Top 10 Average	0.5	1.0	1.8	2.4	2.7	2.9	2.2	3.0
	Bottom 10 Average	0.2	0.4	0.8	1.2	1.6	1.7	1.1	1.8
<ol><li>Commercial Paper, 1-Mo</li></ol>	CONSENSUS	0.2	0.6	1.3	1.8	2.1	2.3	1.6	2.4
	Top 10 Average	0.4	0.9	1.6	2.3	2.6	2.8	2.0	2.8
	Bottom 10 Average	0.1	0.3	0.9	1.3	1.8	1.9	1.2	2.0
<ol><li>Treasury Bill Yield, 3-Mo</li></ol>	CONSENSUS	0.2	0.5	1.0	1.6	1.9	2.1	1.4	2.2
	Top 10 Average	0.3	0.8	1.6	2.2	2.5	2.7	1.9	2.7
	Bottom 10 Average	0.1	0.2	0.6	0.9	1.3	1.5	0.9	1.6
6. Treasury Bill Yield, 6-Mo	CONSENSUS	0.2	0.5	1.1	1.6	2.0	2.2	1.5	2.3
	Top 10 Average	0.3	0.8	1.7	2.3	2.6	2.7	2.0	2.8
	Bottom 10 Average	0.1	0.3	0.6	1.0	1.4	1.6	1.0	1.7
<ol><li>Treasury Bill Yield, 1-Yr</li></ol>	CONSENSUS	0.3	0.7	1.2	1.8	2.1	2.3	1.6	2.4
	Top 10 Average	0.5	1.0	1.8	2.4	2.8	2.9	2.2	3.0
	Bottom 10 Average	0.2	0.3	0.7	1.1	1.5	1.7	1.1	1.8
8. Treasury Note Yield, 2-Yr	CONSENSUS	0.5	0.9	1.5	2.0	2.3	2.5	1.8	2.6
	Top 10 Average	0.7	1.3	2.1	2.7	3.0	3.1	2.5	3.3
	Bottom 10 Average	0.3	0.5	0.9	1.3	1.6	1.8	1.2	1.9
9. Treasury Note Yield, 5-Yr	CONSENSUS	1.2	1.6	2.1	2.5	2.8	2.8	2.4	3.0
	Top 10 Average	1.5	2.0	2.8	3.3	3.5	3.5	3.0	3.6
	Bottom 10 Average	0.9	1.2	1.5	1.8	2.0	2.2	1.7	2.3
10. Treasury Note Yield, 10-Yr	CONSENSUS	2.0	2.4	2.7	3.0	3.2	3.3	2.9	3.3
	Top 10 Average	2.3	2.8	3.4	3.8	4.0	3.9	3.6	4.0
	Bottom 10 Average	1.7	1.9	2.1	2.3	2.5	2.6	2.3	2.7
11. Treasury Bond Yield, 30-Yr	CONSENSUS	2.6	2.9	3.3	3.6	3.8	3.8	3.5	3.9
	Top 10 Average	3.0	3.5	4.0	4.5	4.6	4.5	4.2	4.6
	Bottom 10 Average	2.3	2.4	2.5	2.7	2.9	3.1	2.7	3.2
12. Corporate Aaa Bond Yield	CONSENSUS	3.3	3.7	4.1	4.5	4.7	4.7	4.3	4.8
	Top 10 Average	3.6	4.2	4.7	5.2	5.4	5.4	5.0	5.4
	Bottom 10 Average	3.1	3.2	3.4	3.7	3.9	4.1	3.7	4.2
<ol><li>Corporate Baa Bond Yield</li></ol>	CONSENSUS	4.3	4.7	5.1	5.4	5.6	5.7	5.3	5.8
	Top 10 Average	4.6	5.1	5.6	6.1	6.3	6.2	5.9	6.4
	Bottom 10 Average	4.0	4.3	4.5	4.7	4.9	5.2	4.7	5.2
14. State & Local Bonds Yield	CONSENSUS	2.9	3.2	3.6	3.9	4.1	4.2	3.8	4.2
	Top 10 Average	3.2	3.5	4.1	4.5	4.7	4.7	4.3	4.8
	Bottom 10 Average	2.6	2.9	3.1	3.4	3.7	3.7	3.3	3.8
15. Home Mortgage Rate	CONSENSUS	3.6	4.0	4.4	4.7	4.9	5.0	4.6	5.0
	Top 10 Average	4.0	4.5	5.0	5.5	5.6	5.6	5.2	5.7
	Bottom 10 Average	3.2	3.6	3.8	4.0	4.2	4.3	4.0	4.4
A. Fed's AFE Nominal \$ Index	CONSENSUS	103.7	103.7	104.0	103.7	103.6	103.3	103.7	103.1
	Top 10 Average	105.3	106.0	106.8	107.0	107.3	107.5	106.9	107.9
	Bottom 10 Average	102.0	101.5	101.4	100.8	100.4	100.0	100.8	99.4
					ar, % Change -				Averages
	-	2022	2023	2024	2025	2026	2027	2023-2027	2028-2032
B. Real GDP	CONSENSUS	4.2	2.6	2.3	2.2	2.1	2.1	2.2	2.1
	Top 10 Average	5.3	3.3	2.7	2.5	2.4	2.4	2.7	2.5
C CDD Chains 1D 1	Bottom 10 Average	2.9	2.0	1.9	1.8	1.8	1.7	1.8	1.7
C. GDP Chained Price Index	CONSENSUS	2.3	2.3	2.2	2.1	2.2	2.1	2.2	2.1
	Top 10 Average	2.6	2.6	2.4	2.4	2.4	2.4	2.4	2.3
	D (/ 10 1	20	2.0	2.0	1.9	1.9	1.9	1.9	1.9
	Bottom 10 Average	2.0					<i>~</i> -		
D. Consumer Price Index	CONSENSUS	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.2
D. Consumer Price Index	CONSENSUS Top 10 Average	<b>2.4</b> 2.8	<b>2.4</b> 2.7	2.5	2.5	2.5	2.4	2.5	2.4
	CONSENSUS Top 10 Average Bottom 10 Average	<b>2.4</b> 2.8 2.1	<b>2.4</b> 2.7 2.1	2.5 1.9	2.5 1.9	2.5 2.0	2.4 1.9	2.5 2.0	2.4 1.9
D. Consumer Price Index E. PCE Price Index	CONSENSUS Top 10 Average Bottom 10 Average CONSENSUS	<ul><li>2.4</li><li>2.8</li><li>2.1</li><li>2.3</li></ul>	2.4 2.7 2.1 2.2	2.5 1.9 <b>2.1</b>	2.5 1.9 <b>2.1</b>	2.5 2.0 <b>2.1</b>	2.4 1.9 <b>2.1</b>	2.5 2.0 <b>2.1</b>	2.4 1.9 <b>2.1</b>
	CONSENSUS Top 10 Average Bottom 10 Average	<b>2.4</b> 2.8 2.1	<b>2.4</b> 2.7 2.1	2.5 1.9	2.5 1.9	2.5 2.0	2.4 1.9	2.5 2.0	2.4 1.9

#### Spire Missouri Inc. Derivation of Mean Equity Risk Premium Based Studies Using Holding Period Returns and Projected Market Appreciation of the S&P Utility Index

<u>Line No.</u>		Implied Equity Risk Premium
	Equity Risk Premium based on S&P Utility Index Holding Period Returns (1):	
1.	Historical Equity Risk Premium	4.16 %
2.	Regression of Historical Equity Risk Premium (2)	6.37
3.	Forecasted Equity Risk Premium Based on PRPM (3)	5.61
4.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Value Line Data) (4)	7.45
5.	Forecasted Equity Risk Premium based on Projected Total Return on the S&P Utilities Index (Bloomberg Data) (5)	5.82
6.	Average Equity Risk Premium (6)	5.88 %
Notes:	(1) Based on S&P Public Utility Index monthly total returns an Bond average monthly yields from 1928-2020. Holding pe calculated based upon income received (dividends and int change in the market value of a security over a one-year he	eriod returns are erest) plus the relative

- (2) This equity risk premium is based on a regression of the monthly equity risk premiums of the S&P Utility Index relative to Moody's A2 rated public utility bond yields from 1928 2020 referenced in note 1 above.
- (3) The Predictive Risk Premium Model (PRPM) is applied to the risk premium of the monthly total returns of the S&P Utility Index and the monthly yields on Moody's A2 rated public utility bonds from January 1928 May 2021.
- (4) Using data from Value Line for the S&P Utilities Index, an expected return of 11.40% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.95%, calculated on line 3 of page 13 of this Schedule results in an equity risk premium of 7.45%. (11.40% - 3.95% = 7.45%)
- (5) Using data from Bloomberg Professional Service for the S&P Utilities Index, an expected return of 9.77% was derived based on expected dividend yields and long-term growth estimates as a proxy for market appreciation. Subtracting the expected A2 rated public utility bond yield of 3.95%, calculated on line 3 of page 13 of this Schedule results in an equity risk premium of 5.82%. (9.77% 3.95% =
- (6) Average of lines 1 through 5.





		Prospective A2	Prospective
		Rated Utility	Equity Risk
Constant	Slope	Bond (1)	Premium
7.564001 %	-0.48585	3.95 %	5.64 %

Notes:

(1) From line 3 of page 13 of this Schedule.

Source of Information:

Regulatory Research Associates Bloomberg Professional Services

			[2]
		del (ECAPM)	[9]
	Use	al Asset Pricing Mc	[5]
<u>ıri Inc.</u>	ost Rate Through l	<u>id Empirical Capit</u>	[4]
<u>Spire Missou</u>	Common Equity C	g Model (CAPM) an	[3]
	Indicated	al Asset Pricing	[2]
		of the Traditional Capit	[1]

[8]	licated mmon ity Cost	11.32 % 12.33 11.23 11.23 11.66 12.67 11.66 11.82 11.82 11.82 % 11.89 %
	Ind Coi Equi	
[7]	ECAPM Cost Rate	$\begin{array}{c} 11.49 \\ 12.35 \\ 11.42 \\ 11.42 \\ 11.78 \\ 12.64 \\ 11.92 \\ 11.92 \\ 11.92 \\ 11.98 \\ \end{array}$
[9]	Traditional CAPM Cost Rate	$\begin{array}{c} 11.15 \\ 12.30 \\ 11.05 \\ 11.54 \\ 11.54 \\ 12.69 \\ 12.69 \\ 11.73 \\ 11.73 \\ 11.73 \\ 11.73 \\ 11.73 \\ 11.81 \\ \end{array}$
[2]	Risk-Free Rate (2)	2.88 2.88 2.88 2.88 2.88 2.88 2.88
[4]	Market Risk Premium (1)	9.62 9.62 9.62 9.62 9.62 9.62
[3]	Average Beta	0.86 0.98 0.90 1.02 1.02 0.92 0.94 0.94 0.93
[2]	Bloomberg Adjusted Beta	0.91 0.85 1.00 1.09 1.00
[1]	Value Line Adjusted Beta	0.80 0.85 0.86 0.80 0.95 0.85
	Proxy Group of Seven Natural Gas Distribution Companies	Atmos Energy Corporation New Jersey Resources Corporation Northwest Natural Holding Company ONE Gas. Inc. South Jersey Industries, Inc. Southwest Gas Holdings, Inc. Spire Inc. Mean Median Average of Mean and Median

Notes on page 25 of this Schedule.

DWD Schedule R-1 Page 24 of 38

9.39 %

10.98 %

#### Spire Missouri Inc. Notes to Accompany the Application of the CAPM and ECAPM

	'he market risk premium (MRP) is derived by using six different measures from three sources: Ibbotson, Value Line, a loomberg as illustrated below:	ınd	
<u>H</u>	listorical Data MRP Estimates:		
М	leasure 1: Ibbotson Arithmetic Mean MRP (1926-2020)		
	rithmetic Mean Monthly Returns for Large Stocks 1926-2020: .rithmetic Mean Income Returns on Long-Term Government Bonds:	12.20 5.05	%
М	IRP based on Ibbotson Historical Data:	7.15	%

Measure 2: Application of a Regression Analysis to Ibbotson Historical Data (1926-2020)

Measure 3: Application of the PRPM to Ibbotson Historical Data: (January 1926 - May 2021)

Value Line MRP Estimates:

Notes:

Measure 4: Value Line Projected MRP (Thirteen weeks ending May 28, 2021)

Total projected return on the market 3-5 years hence*:	8.16 %
Projected Risk-Free Rate (see note 2):	2.88
MRP based on Value Line Summary & Index:	5.28 %
*Forcasted 3-5 year capital appreciation plus expected dividend yield	
Measure 5: Value Line Projected Return on the Market based on the S&P 500	
Total return on the Market based on the S&P 500:	14.32 %

% Total return on the Market based on the S&P 500: Projected Risk-Free Rate (see note 2): 2.88 MRP based on Value Line data % 11.44 Measure 6: Bloomberg Projected MRP 16.34 % Total return on the Market based on the S&P 500: 2.88 Projected Risk-Free Rate (see note 2): MRP based on Bloomberg data 13.46 %

Average of Value Line, Ibbotson, and Bloomberg MRP: 9.62 % (2) For reasons explained in the direct testimony, the appropriate risk-free rate for cost of capital purposes is the average forecast of 30

year Treasury Bonds per the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts. (See pages 20 and 21 of this Schedule.) The projection of the risk-free rate is illustrated below:

Second Quarter 2021	2.40	%
Third Quarter 2021	2.50	
Fourth Quarter 2021	2.60	
First Quarter 2022	2.60	
Second Quarter 2022	2.70	
Third Quarter 2022	2.80	
2023-2027	3.50	
2028-2032	3.90	
	2.88	%

(3) Average of Column 6 and Column 7.

Sources of Information: Value Line Summary and Index Blue Chip Financial Forecasts, June 1, 2021 Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc. **Bloomberg Professional Services** 

# Spire Missouri Inc. Basis of Selection of the Group of Non-Price Regulated Companies <u>Comparable in Total Risk to the Utility Proxy Group</u>

The criteria for selection of the Non-Price Regulated Proxy Group was that the non-price regulated companies be domestic and reported in <u>Value Line Investment Survey</u> (Standard Edition).

The Non-Price Regulated Proxy Group companies were then selected based on the unadjusted beta range of 0.61 - 0.89 and residual standard error of the regression range of 2.7297 - 3.2557 of the Utility Proxy Group.

These ranges are based upon plus or minus two standard deviations of the unadjusted beta and standard error of the regression. Plus or minus two standard deviations captures 95.50% of the distribution of unadjusted betas and residual standard errors of the regression.

The standard deviation of the Gas Utility Proxy Group's residual standard error of the regression is 0.1315. The standard deviation of the standard error of the regression is calculated as follows:

Standard Deviation of the Std. Err. of the Regr. = <u>Standard Error of the Regression</u>  $\sqrt{2N}$ 

where: N = number of observations. Since Value Line betas are derived from weekly price change observations over a period of five years, N = 259

Thus, 0.1315 =  $\frac{2.9927}{\sqrt{518}}$  =  $\frac{2.9927}{22.7596}$ 

Source of Information: Value Line, Inc., March 2021 Value Line Investment Survey (Standard Edition)

# Spire Missouri Inc. Basis of Selection of Comparable Risk Domestic Non-Price Regulated Companies

	[1]	[2]	[3]	[4]
Proxy Group of Seven Natural Gas Distribution Companies	Value Line Adjusted Beta	Unadjusted Beta	Residual Standard Error of the Regression	Standard Deviation of Beta
Atmos Energy Corporation New Jersey Resources Corporation Northwest Natural Holding Company ONE Gas, Inc. South Jersey Industries, Inc. Southwest Gas Holdings, Inc. Spire Inc. Average	$\begin{array}{c} 0.80\\ 0.95\\ 0.80\\ 0.80\\ 1.05\\ 0.95\\ 0.85\\ \hline 0.89\\ \hline \end{array}$	0.66 0.92 0.69 0.67 1.00 0.88 0.71 0.79	2.7453 3.0205 3.1454 2.7077 3.4767 3.0244 2.8287 2.9927	$\begin{array}{c} 0.0685\\ 0.0754\\ 0.0785\\ 0.0676\\ 0.0868\\ 0.0755\\ 0.0706\\ \hline 0.0747\\ \end{array}$
Beta Range (+/- 2 std. Devs. of Beta) 2 std. Devs. of Beta	0.64 0.15	0.94		
Residual Std. Err. Range (+/- 2 std. Devs. of the Residual Std. Err.)	2.7297	3.2557		
Std. dev. of the Res. Std. Err.	0.1315			
2 std. devs. of the Res. Std. Err.	0.2630			

Source of Information: Valueline Proprietary Database, March 2021

#### Spire Missouri Inc. Proxy Group of Non-Price Regulated Companies Comparable in Total Risk to the Proxy Group of Seven Natural Gas Distribution Companies

	[1]	[2]	[3]	[4]
			Residual	
			Standard	Standard
Proxy Group of Forty-Eight Non-Price	VL Adjusted	Unadjusted	Error of the	Deviation of
Regulated Companies	Beta	Beta	Regression	Beta
Apple Inc.	0.90	0.81	3.1746	0.0792
Abbott Labs.	0.95	0.88	2.7401	0.0684
Assurant Inc.	0.90	0.84	2.9537	0.0737
ANSYS, Inc.	0.85	0.74	2.8841	0.0720
Booz Allen Hamilton	0.90	0.82	3.0468	0.0760
Becton, Dickinson	0.80	0.66	2.8952	0.0722
Brown-Forman 'B'	0.90	0.77	2.7453	0.0685
Broadridge Fin'l	0.85	0.70	2.7332	0.0682
Brady Corp.	1.00	0.93	3.0007	0.0749
CACI Int'l	0.95	0.86	3.1684	0.0791
Casey's Gen'l Stores	0.90	0.78	3.2522	0.0812
Cadence Design Sys.	0.90	0.79	3.0338	0.0757
Cerner Corp.	0.90	0.84	2.7309	0.0681
CSW Industrials	0.90	0.81	2.8884	0.0721
Quest Diagnostics	0.85	0.75	2.7411	0.0684
Lauder (Estee)	0.95	0.85	2.8216	0.0704
Exponent, Inc.	0.90	0.79	2.9131	0.0727
Fastenal Co.	0.90	0.85	3.2203	0.0804
Gentex Corp.	0.95	0.91	2.7546	0.0687
Int'l Flavors & Frag	0.95	0.87	3.2238	0.0804
Ingredion Inc.	0.90	0.78	2.8793	0.0718
Iron Mountain	0.90	0.82	3.0897	0.0771
Hunt (J.B.)	0.95	0.86	2.8344	0.0707
J&J Snack Foods	0.90	0.84	2.9208	0.0729
Henry (Jack) & Assoc	0.85	0.71	2.7734	0.0692
ManTech Int'l 'A'	0.85	0.77	3.0653	0.0765
McCormick & Co.	0.80 0.90	0.66 0.83	2.7887	0.0696
Altria Group MSA Safety	1.00	0.83	2.9215 3.0076	0.0729 0.0750
MSA Safety MSCI Inc.	0.95	0.94	2.9662	0.0740
Motorola Solutions	0.93	0.80	2.7926	0.0697
Vail Resorts	0.95	0.88	3.1939	0.0797
Maxim Integrated	0.95	0.87	2.9404	0.0734
Northrop Grumman	0.85	0.71	2.9032	0.0724
Old Dominion Freight	0.90	0.83	3.0708	0.0766
PerkinElmer Inc.	0.95	0.86	2.8896	0.0721
Philip Morris Int'l	0.95	0.88	3.2481	0.0811
Pool Corp.	0.85	0.75	3.2001	0.0799
Post Holdings	0.95	0.86	3.0105	0.0751
RLI Corp.	0.80	0.64	2.9883	0.0746
Rollins, Inc.	0.85	0.73	2.9697	0.0741
Selective Ins. Group	0.85	0.77	3.0004	0.0749
Sirius XM Holdings	0.95	0.91	2.7995	0.0699
Bio-Techne Corp.	0.80	0.67	3.2475	0.0810
Tetra Tech	0.90	0.84	3.0245	0.0755
Waters Corp.	0.95	0.86	2.7531	0.0687
West Pharmac. Svcs.	0.85	0.70	3.1887	0.0796
Western Union	0.80	0.67	2.7346	0.0682
Average	0.90	0.80	2.9609	0.0739
Proxy Group of Seven Natural Gas				
Distribution Companies	0.89	0.79	2.9927	0.0747

Source of Information:

Valueline Proprietary Database, March 2021

# Spire Missouri Inc. Summary of Cost of Equity Models Applied to Proxy Group of Forty-Eight Non-Price Regulated Companies Comparable in Total Risk to the Proxy Group of Seven Natural Gas Distribution Companies

Principal Methods	Proxy Group of Forty-Eight Non- Price Regulated Companies
Discounted Cash Flow Model (DCF) (1)	12.83 %
Risk Premium Model (RPM) (2)	12.62
Capital Asset Pricing Model (CAPM) (3)	11.84
	12.43 %
	12.62 %
	12.53 %

Notes:

- (1) From page 30 of this Schedule.
- (2) From page 31 of this Schedule.
- (3) From page 34 of this Schedule.

DWD Schedule R-1 Page 30 of 38

#### <u>Spire Missouri Inc.</u> DCF Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the <u>Proxy Group of Seven Natural Gas Distribution Companies</u>

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty-Eight Non-Price Regulated Companies	Average Dividend Yield	Value Line Projected Five Year Growth in EPS	Zack's Five Year Projected Growth Rate in EPS	Bloomberg's Five Year Projected Growth Rate in EPS	Yahoo! Finance Projected Five Year Growth in EPS	Average Projected Five Year Growth Rate in EPS	Adjusted Dividend Yield	Indicated Common Equity Cost Rate (1)
Apple Inc.	0.69 %	14.50 %	12.50 %	12.10 %	17.93 %	14.26 %	0.74 %	15.00 %
Abbott Labs.	1.51	11.50 %	13.80	13.63	16.49	13.86	1.61	15.47
Assurant Inc.	1.76	11.50	17.50	17.50	17.50	16.00	1.90	17.90
ANSYS, Inc.	-	8.00	12.30	12.58	10.74	10.90	-	NA
Booz Allen Hamilton	1.80	10.50	10.60	13.00	9.67	10.94	1.90	12.84
Becton, Dickinson	1.35	7.50	8.90	8.30	11.85	9.14	1.41	10.55
Brown-Forman 'B'	0.97	11.00	NA	5.39	7.40	7.93	1.01	8.94
Broadridge Fin'l	1.48	8.50	NA	12.30	11.60	10.80	1.56	12.36
Brady Corp.	1.59	7.50	7.00	9.00	7.00	7.63	1.65	9.28
CACI Int'l	-	13.50	13.10	12.06	13.68	13.08	-	NA
Casey's Gen'l Stores Cadence Design Sys.	0.63	8.00 9.50	NA 14.40	15.81 11.60	7.85 14.40	10.55 12.48	0.66	11.21 NA
Cadence Design Sys. Cerner Corp.	1.18	8.00	12.30	10.46	11.63	10.60	- 1.24	11.84
CSW Industrials	0.45	8.50	NA	12.00	12.00	10.83	0.47	11.30
Quest Diagnostics	1.91	10.00	26.50	(5.40)	3.26	13.25	2.04	15.29
Lauder (Estee)	0.71	11.00	10.70	18.20	27.18	16.77	0.77	17.54
Exponent, Inc.	0.83	12.50	NA	13.30	15.00	13.60	0.89	14.49
Fastenal Co.	2.21	8.00	9.00	8.70	7.95	8.41	2.30	10.71
Gentex Corp.	1.35	10.50	10.10	13.15	15.80	12.39	1.43	13.82
Int'l Flavors & Frag	2.20	7.50	9.80	21.48	7.72	11.63	2.33	13.96
Ingredion Inc.	2.76	7.50	NA	11.00	1.90	6.80	2.85	9.65
Iron Mountain	6.32	11.50	1.70	0.66	1.70	3.89	6.44	10.33
Hunt (J.B.)	0.71	8.00	15.00	15.00	21.53	14.88	0.76	15.64
J&J Snack Foods	1.55 1.18	10.00	NA 10.90	NA 12.47	6.00	8.00 10.75	1.61 1.24	9.61 11.99
Henry (Jack) & Assoc ManTech Int'l 'A'	1.18	9.00 9.00	5.10	5.53	10.64 3.87	5.88	1.24	7.72
McCormick & Co.	1.53	5.50	6.70	5.87	6.00	6.02	1.58	7.60
Altria Group	6.94	6.00	4.00	4.35	4.35	4.68	7.10	11.78
MSA Safety	1.10	6.50	NA	9.00	18.00	11.17	1.16	12.33
MSCI Inc.	0.69	16.00	NA	15.00	15.31	15.44	0.74	16.18
Motorola Solutions	1.49	7.00	9.00	12.20	7.37	8.89	1.56	10.45
Vail Resorts	-	9.50	NA	87.08	72.95	56.51	-	NA
Maxim Integrated	-	8.00	10.00	11.95	21.91	12.97	-	NA
Northrop Grumman	1.84	7.00	NA	5.67	5.77	6.15	1.90	8.05
Old Dominion Freight	0.32	9.00	17.20	18.98	18.93	16.03	0.35	16.38
PerkinElmer Inc.	0.21	11.00	37.90	5.66	37.90	23.11	0.23	23.34
Philip Morris Int'l	5.19	6.50	8.70	10.75	12.75	9.67	5.44	15.11
Pool Corp.	0.83	15.00	NA	NA 20.20	17.00	16.00	0.90	16.90
Post Holdings RLI Corp.	- 0.89	11.00 12.50	NA NA	20.30 NA	31.20 9.80	20.83 11.15	- 0.94	NA 12.09
Rollins, Inc.	0.89	11.50	NA	NA	8.20	9.85	0.94	10.80
Selective Ins. Group	1.33	8.50	9.50	9.51	5.10	8.15	1.38	9.53
Sirius XM Holdings	0.96	35.50	12.70	40.32	10.10	24.66	1.08	25.74
Bio-Techne Corp.	0.32	12.50	14.00	19.03	15.00	15.13	0.34	15.47
Tetra Tech	0.62	13.50	15.00	13.85	15.00	14.34	0.66	15.00
Waters Corp.	-	6.00	7.10	8.19	7.77	7.26	-	NA
West Pharmac. Svcs.	0.22	17.00	25.80	18.55	25.80	21.79	0.24	22.03
Western Union	3.74	6.00	NA	4.57	9.19	6.59	3.86	10.45
							Mean	13.33 %
							Median	12.33 %
						Average of Mean	and Median	12.83 %

#### NA= Not Available

(1) The application of the DCF model to the domestic, non-price regluated comparable risk companies is identical to the application of the DCF to the Utility Proxy Group. The dividend yield is derived by using the 60 day average price and the spot indicated dividend as of May 28, 2021. The dividend yield is then adjusted by 1/2 the average projected growth rate in EPS, which is calculated by averaging the 5 year projected growth in EPS provided by Value Line, www.zacks.com, Bloomberg Professional Services, and www.yahoo.com (excluding any negative growth rates) and then adding that growth rate to the adjusted dividend yield.

Source of Information:

Value Line Investment Survey www.zacks.com Downloaded on 05/28/2021 www.yahoo.com Downloaded on 05/28/2021 Bloomberg Professional Services

# Spire Missouri Inc. Indicated Common Equity Cost Rate Through Use of a Risk Premium Model Using an Adjusted Total Market Approach

<u>Line No.</u>		Proxy Group of Forty- Eight Non-Price Regulated Companies
1.	Prospective Yield on Baa2 Rated Corporate Bonds (1)	4.46 %
2.	Equity Risk Premium (2)	8.16
3.	Risk Premium Derived Common Equity Cost Rate	12.62_%

Notes: (1) Average forecast of Baa2 corporate bonds based upon the consensus of nearly 50 economists reported in Blue Chip Financial Forecasts dated June 1, 2021 (see pages 20 and 21 of this Schedule). The estimates are detailed below.

Second Quarter 2021	3.80 %
Third Quarter 2021	4.00
Fourth Quarter 2021	4.10
First Quarter 2022	4.20
Second Quarter 2022	4.20
Third Quarter 2022	4.30
2023-2027	5.30
2028-2032	5.80
Average	4.46 %

(2) From page 33 of this Schedule.

#### <u>Spire Missouri Inc.</u> Comparison of Long-Term Issuer Ratings for the Proxy Group of Forty-Eight Non-Price Regulated Companies of Comparable risk to the <u>Proxy Group of Seven Natural Gas Distribution Companies</u>

	Mood Long-Term Is May 2	suer Rating	Standard & Long-Term Issu May 202	ier Rating
Proxy Group of Forty-Eight Non- Price Regulated Companies	Long-Term Issuer Rating	Numerical Weighting (1)	Long-Term Issuer Rating	Numerical Weighting (1)
Apple Inc.	Aa1	2.0	AA+	2.0
Abbott Labs.	A2	6.0	A+	5.0
Assurant Inc.	Baa3	10.0	BBB	9.0
ANSYS. Inc.	NA		NA	
Booz Allen Hamilton	NA		NA	
Becton, Dickinson	Baa3	10.0	BBB	9.0
Brown-Forman 'B'	A1	5.0	A-	7.0
Broadridge Fin'l	Baa1	8.0	BBB+	8.0
Brady Corp.	NA		NA	
CACI Int'l	NA		BB+	11.0
Casey's Gen'l Stores	NA		NA	
Cadence Design Sys.	Baa2	9.0	BBB+	8.0
Cerner Corp.	NA		NA	
CSW Industrials	NA		NA	
Quest Diagnostics	Baa2	9.0	BBB+	8.0
Lauder (Estee)	A1	5.0	A+	5.0
Exponent, Inc.	NA		NA	
Fastenal Co.	NA		NA	
Gentex Corp.	NA		NA	
Int'l Flavors & Frag	Baa3	10.0	BBB	9.0
Ingredion Inc.	Baa1	8.0	BBB	9.0
Iron Mountain	Ba3	13.0	BB-	13.0
Hunt (J.B.)	Baa1	8.0	BBB+	8.0
J&J Snack Foods	NA		NA	
Henry (Jack) & Assoc	NA		NA	
ManTech Int'l 'A'	WR		BB+	11.0
McCormick & Co.	Baa2	9.0	BBB	9.0
Altria Group	A3	7.0	BBB	9.0
MSA Safety	NA		NA	
MSCI Inc.	Ba1	11.0	BB+	11.0
Motorola Solutions	Baa3	10.0	BBB-	10.0
Vail Resorts	B2	15.0	BB	12.0
Maxim Integrated	Baa1	8.0	BBB+	8.0
Northrop Grumman	Baa2	9.0	BBB+	8.0
Old Dominion Freight	NA		NA	
PerkinElmer Inc.	Baa3	10.0	BBB	9.0
Philip Morris Int'l	A2	6.0	А	6.0
Pool Corp.	NA		NA	
Post Holdings	B2	15.0	B+	14.0
RLI Corp.	Baa2	9.0	BBB	9.0
Rollins, Inc.	NA		NA	
Selective Ins. Group	Baa2	9.0	BBB	9.0
Sirius XM Holdings	NA		BB	12.0
Bio-Techne Corp.	NA		NA	
Tetra Tech	NA		NA	
Waters Corp.	NA		NA	
West Pharmac. Svcs.	NA		NA	
Western Union	Baa2	9.0	BBB	9.0
Average	Baa2	8.8	BBB	8.9

Notes:

(1) From page 16 of this Schedule.

Source of Information:

Bloomberg Professional Services

## Spire Missouri Inc. Derivation of Equity Risk Premium Based on the Total Market Approach Using the Beta for Proxy Group of Forty-Eight Non-Price Regulated Companies of Comparable risk to the Proxy Group of Seven Natural Gas Distribution Companies

Line No.	Equity Risk Premium Measure	Proxy Group of Forty-Eight Non- Price Regulated Companies
Ib	botson-Based Equity Risk Premiums:	
1.	Ibbotson Equity Risk Premium (1)	5.92 %
2.	Regression on Ibbotson Risk Premium Data (2)	8.69
3.	Ibbotson Equity Risk Premium based on PRPM (3)	9.87
4.	Equity Risk Premium Based on <u>Value Line</u> Summary and Index (4)	4.60
5	Equity Risk Premium Based on <u>Value Line</u> S&P 500 Companies (5)	10.76
6.	Equity Risk Premium Based on Bloomberg S&P 500 Companies (6)	12.78
7.	Conclusion of Equity Risk Premium	8.77 %
8.	Adjusted Beta (7)	0.93
9.	Forecasted Equity Risk Premium	8.16 %
Notes:		

- (1) From note 1 of page 19 of this Schedule.
- (2) From note 2 of page 19 of this Schedule.
- (3) From note 3 of page 19 of this Schedule.
- (4) From note 4 of page 19 of this Schedule.
- (5) From note 5 of page 19 of this Schedule.
- (6) From note 6 of page 19 of this Schedule.
- (7) Average of mean and median beta from page 34 of this Schedule.

Sources of Information:

Stocks, Bonds, Bills, and Inflation - 2021 SBBI Yearbook, John Wiley & Sons, Inc. Value Line Summary and Index Blue Chip Financial Forecasts, June 1, 2021 Bloomberg Professional Services

# <u>Spire Missouri Inc.</u> Traditional CAPM and ECAPM Results for the Proxy Group of Non-Price-Regulated Companies Comparable in Total Risk to the <u>Proxy Group of Seven Natural Gas Distribution Companies</u>

	[1]	[2]	[3]	[4]	[5]	[6]	[7]	[8]
Proxy Group of Forty- Eight Non-Price Regulated Companies	Value Line Adjusted Beta	Bloomberg Beta	Average Beta	Market Risk Premium (1)	Risk-Free Rate (2)	Traditional CAPM Cost Rate	ECAPM Cost Rate	Indicated Common Equity Cost Rate (3)
Apple Inc.	0.90	1.01	0.96	9.62 %	2.88 %	12.11 %	12.21 %	12.16 %
Abbott Labs.	0.90	0.85	0.88	9.62	2.88	11.34	11.63	11.49
Assurant Inc.	0.90	1.00	0.95	9.62	2.88	12.02	12.14	12.08
ANSYS, Inc.	0.85	0.97	0.91	9.62	2.88	11.63	11.85	11.74
Booz Allen Hamilton	0.90	0.92	0.91	9.62	2.88	11.63	11.85	11.74
Becton, Dickinson	0.80	0.58	0.69	9.62	2.88	9.52	10.26	9.89
Brown-Forman 'B'	0.90	0.97	0.94	9.62	2.88	11.92	12.06	11.99
Broadridge Fin'l	0.80	0.84	0.82	9.62	2.88	10.77	11.20	10.98
Brady Corp.	1.00	1.05	1.02	9.62	2.88	12.69	12.64	12.67
CACI Int'l	0.95	1.01	0.98	9.62	2.88	12.30	12.35	12.33
Casey's Gen'l Stores	0.90	0.91	0.91	9.62	2.88	11.63	11.85	11.74
Cadence Design Sys.	0.90	0.98	0.94	9.62	2.88	11.92	12.06	11.99
Cerner Corp.	0.90	0.89	0.90	9.62	2.88	11.54	11.78	11.66
CSW Industrials	0.90	1.05	0.97	9.62	2.88	12.21	12.28	12.24
Quest Diagnostics	0.85	0.96	0.91 0.98	9.62 9.62	2.88 2.88	11.63	11.85	11.74
Lauder (Estee) Exponent, Inc.	0.95 0.90	1.00 0.94	0.98	9.62	2.88	12.30 11.73	12.35 11.92	12.33 11.82
Fastenal Co.	0.90	0.94	0.92	9.62	2.88	11.73	11.92	11.82
Gentex Corp.	0.95	1.06	1.01	9.62	2.88	12.59	12.57	12.58
Int'l Flavors & Frag	0.95	1.08	1.01	9.62	2.88	12.69	12.64	12.67
Ingredion Inc.	0.90	0.92	0.91	9.62	2.88	11.63	11.85	11.74
Iron Mountain	0.90	1.02	0.96	9.62	2.88	12.11	12.21	12.16
Hunt (J.B.)	0.95	0.91	0.93	9.62	2.88	11.82	11.99	11.91
J&J Snack Foods	0.90	0.77	0.84	9.62	2.88	10.96	11.34	11.15
Henry (Jack) & Assoc	0.85	0.89	0.87	9.62	2.88	11.25	11.56	11.40
ManTech Int'l 'A'	0.85	1.11	0.98	9.62	2.88	12.30	12.35	12.33
McCormick & Co.	0.80	0.70	0.75	9.62	2.88	10.09	10.69	10.39
Altria Group	0.90	0.88	0.89	9.62	2.88	11.44	11.70	11.57
MSA Safety	1.00	0.99	1.00	9.62	2.88	12.50	12.50	12.50
MSCI Inc.	0.95	0.94	0.94	9.62	2.88	11.92	12.06	11.99
Motorola Solutions	0.90	0.96	0.93	9.62	2.88	11.82	11.99	11.91
Vail Resorts	0.95	1.14	1.05	9.62	2.88	12.98	12.86	12.92
Maxim Integrated	0.95	0.99	0.97	9.62	2.88	12.21	12.28	12.24
Northrop Grumman	0.85	0.80	0.83	9.62	2.88	10.86	11.27	11.07
Old Dominion Freight	0.95	0.97	0.96	9.62	2.88	12.11	12.21	12.16
PerkinElmer Inc.	0.90	0.84	0.87	9.62	2.88	11.25	11.56	11.40
Philip Morris Int'l	0.95	0.91	0.93	9.62	2.88	11.82	11.99	11.91
Pool Corp.	0.85 0.95	0.95 0.90	0.90 0.93	9.62 9.62	2.88 2.88	11.54 11.82	11.78	11.66
Post Holdings RLI Corp.	0.95	0.90	0.95	9.62	2.88	11.82	11.99 11.42	11.91 11.23
Rollins, Inc.	0.80	0.69	0.83	9.62	2.88	10.29	10.84	10.56
Selective Ins. Group	0.85	0.97	0.91	9.62	2.88	11.63	11.85	11.74
Sirius XM Holdings	0.05	1.10	1.02	9.62	2.88	12.69	12.64	12.67
Bio-Techne Corp.	0.80	0.93	0.86	9.62	2.88	11.15	11.49	11.32
Tetra Tech	0.95	1.06	1.00	9.62	2.88	12.50	12.50	12.50
Waters Corp.	0.95	0.86	0.91	9.62	2.88	11.63	11.85	11.74
West Pharmac. Svcs.	0.80	0.75	0.78	9.62	2.88	10.38	10.91	10.65
Western Union	0.80	1.05	0.93	9.62	2.88	11.82	11.99	11.91
		Mean	0.92			11.70 %	11.90 %	11.80 %
		Median	0.93			11.78 %	11.96 %	11.87 %
	Average of Me	ean and Median	0.93			11.74 %	11.93 %	11.84 %

Notes:

From note 1 of page 25 of this Schedule.
 From note 2 of page 25 of this Schedule.
 Average of CAPM and ECAPM cost rates.

	[4]	Spread from Applicable Size Premium (4)		0.34%	[D]	Size Premium (Return in Excess of CAPM)*		-0.22% 0.49% 0.71%	0.75%	1.09% 1 37%	1.54%	1.46%	2.29% 5.01%		[A]) corresponds o. 2 is derived as
	[3]	Applicable Size Premium (3)	1.09%	0.75%	[c]	Market Capitalization of Largest Company	(millions)	<pre>\$ 1,966,078.882 28,808.073 13.177.828</pre>	6,710.676	3,836.536 2 444 745	1,591.765	911.103	451.800 189 831	t of Capital Navigator	rropriate decile (Column mn [1]. n the bottom of this page % in Column [4], Line N
<u>Spire Missouri Inc.</u> Derivation of Investment Risk Adjustment Based upon Ibbotson Associates' Size Premia for the Decile Portfolios of the NYSE/AMEX/NASDAQ	[2]	Applicable Decile of the NYSE/AMEX/ NASDAQ (2)	IJ	4	[B]	Market Capitalization of Smallest Company	( millions )	<pre>\$ 29,025.803 13,178.743 6.743.361</pre>	3,861.858	2,445.693 1 591 865	911.586	451.955	190.019 2 194	*From 2021 Duff & Phelps Cost of Capital Navigator	From page 36 of this Schedule. Gleaned from Columns [B] and [C] on the bottom of this page. The appropriate decile (Column [A]) corresponds to the market capitalization of the proxy group, which is found in Column [1]. Corresponding risk premium to the decile is provided in Column [D] on the bottom of this page. Line No. 1 Column [3] – Line No. 2 Column [3]. For example, the 0.34% in Column [4], Line No. 2 is derived as follows 0.34% = 1.09% - 0.75%.
Spire Missouri Inc. sstment Risk Adjustment <sup>I</sup> for the Decile Portfolios of		n on September ) (1) (times larger)		1.7 x	[A]	Decile		7 7 F	5 4	ഗ	2	8	9 10		Schedule. is [B] and [C] on the zation of the proxy g remium to the decile ] – Line No. 2 Colum % - 0.75%.
Spire Missouri Inc. Derivation of Investment Risk Adjustment Based upon sociates' Size Premia for the Decile Portfolios of the NYSE/	[1]	Market Capitalization on September 30, 2020 (1) ( millions ) (times larger)	\$ 2,702.269	\$ 4,615.314				Largest					Smallect		(1) (3) (3)
<u>Ibbotson As</u>			Spire Missouri Inc.	Proxy Group of Seven Natural Gas Distribution Companies											Notes:
		Line No.	1.	2.											

DWD Schedule R-1 Page 35 of 38

			[1]		[2]		[3]	[4]		[5]		[9]
Company	Exchange	Commo Outstar Yean ( r	Common Stock Shares Outstanding at Fiscal Year End 2020 (millions )	Book Share Year F	Book Value per Share at Fiscal Year End 2020 (1)	Total Co at Fisc ( m	Total Common Equity at Fiscal Year End 2020 ( millions )	Closing Stock Market Price on May 28, 2021	ock ce on 021	Market-to- Book Ratio on May 28, 2021 (2)	l Capit May 2 ( r	Market Capitalization on May 28, 2021 (3) ( millions )
Spire Missouri Inc.			NA		NA		1,538.877 (4)		NA			
Based upon Proxy Group of Seven Natural Gas Distribution Companies									II	175.6 (5)	÷	2,702.269 (6)
Proxy Group of Seven Natural Gas Distribution Companies												
Atmos Energy Corporation	NYSE	÷	125.882	÷	53.949	÷	6,791.203	6 \$	99.170	183.8 %	÷	12,483.765
New Jersey Resources Corporation Northwest Natural Holding Company	NYSE NYSE		95.949 $30.589$		19.226 29.054		1,844.692 888.733	4 0	42.720 52.880	222.2 182.0		4,098.949 1.617.546
ONE Gas, Inc.	NYSE		53.167		42.006		2,233.311	2	74.320	176.9		3,951.352
South Jersey Industries, Inc.	NYSE		100.592		16.571		1,666.876	5	26.660	160.9		2,681.781
Southwest Gas Holdings, Inc. Spire Inc.	NYSE		57.193 51.612		46.771 44.182		2,674.953 2,280.300	9	66.010 71.660	141.1 162.2		3,775.305 3,698.501
Average		\$	73.569	Ŷ	35.966	÷	2,625.724	\$ 6	61.917	175.6 %	<del>\$</del>	4,615.314
	NA= Not Available											
	Notes:	Notes: (1) Column 3	3 / Column 1.									

Market Capitalization of Spire Missouri Inc. and the Spire Missouri Inc.

(1) Column 5 / Column 2.
(2) Column 4 / Column 2.
(3) Column 1 \* Column 4.
(4) Initial requested rate base multiplied by the initial requested common equity ratio.
(5) The market-to-book ratio of Spire Missouri Inc. on May 28, 2021 is assumed to be equal to the market-to-book ratio of Proxy Group of Seven Natural Gas Distribution Companies on May 28, 2021 as appropriate.

Source of Information: 2020 Annual Forms 10K yahoo.finance.com Bloomberg Professional Spire Missouri Inc. Derivation of the Flotation Cost Adjustment to the Cost of Common Equity.

# Equity Issuances since 2010

		[Column 1]	ŭ	[Column 2]	[Co.	[Column 3]	[Colt	[Column 4]	[Colt	[Column 5]	[Colı	[Column 6]	Ū	[Column 7]	[Column 8]	[Column 9]	[Column 10]	
Date of Offering	Date of Offering Transaction (1) Shares Issued	Shares Issued	Mar pe	Market Price per Share	Av Offer per	Average Offering Price per Share	Ma	Market Pressure (2)	Total Expei Sh	Total Offering Expense per Share	Net P1 per Sł	Net Proceeds per Share (3)	Gross	Gross Equity Issue before Costs (4)	Total Net Proceeds (5)	s Total Flotation Costs (6)	Flotation Cost Percentage (7)	
5/10/2018	Equity Offering	2,300,000	\$	71.10	\$	68.75	\$	2.35	\$	2.251	\$	66.4993	\$	163,530,000	\$ 152,948,426	\$ 10,581,574	6.47%	
5/12/2016	Equity Offering	2,185,000	\$	64.70	\$	63.05	\$	1.65	\$	2.186	\$	60.8636	\$	141,369,500	\$ 132,986,967	\$ 8,382,534	5.93%	
6/11/2014	Equity Offering	10,350,000	\$	47.19	\$	46.25	\$	0.94	\$	1.808	<b>4</b> .	44.4421	ŝ	488,416,500	\$ 459,976,063	\$ 28,440,438	5.82%	
5/29/2013	Equity Offering	10,005,000	\$	45.09	\$	44.50	\$	0.59	\$	1.824	<b>\$</b>	42.6757	ŝ	451,125,450	\$ 426,970,128	\$ 24,155,322	5.35%	
													\$ 1,:	\$ 1,244,441,450	\$ 1,172,881,583	\$ 71,559,867	5.75%	

# Flotation Cost Adjustment

Flotation Cost Adjustment (10)	0.22 %
DCF Cost Rate Adjusted for Flotation (9)	9.78
Average DCF Cost Rate Unadjusted for Flotation (8)	9.56 %
Adjusted Dividend Yield	3.54 %
	%
Average Projected EPS Growth Rate	6.02 %
I	%
Average Dividend Yield	3.44 %
	Proxy Group of Eight Natural Gas Distribution Companies

See page 38 of this Schedule for notes.

Source of Information: Company SEC filings

## Spire Missouri Inc. Notes to Accompany the Derivation of the Flotation Cost Adjustment to the Cost of Common Equity

- (1) Company SEC Filings
- (2) Column 2 Column 3.
- (3) Column 2 the sum of columns 4 and 5.
- (4) Column 1 \* Column 2.
- (5) Column1 \* Column 6.
- (6) Column1 \* (the sum of columns 4 and 5).
- (7) (Column 7 Column 8) divided by Column 7.
- (8) Using the average growth rate from page 3 of this Schedule.
- (9) Adjustment for flotation costs based on adjusting the average DCF constant growth cost rate in accordance with the following:

$$K = \frac{D(1+0.5g)}{P(1-F)} + g,$$

where g is the growth factor and F is the percentage of flotation costs.

(10) Flotation cost adjustment of 0.22% equals the difference between the flotation adjusted average DCF cost rate of 9.78% and the unadjusted average DCF cost rate of 9.56% of the Utility Proxy Group.

Source of Information:

**Company SEC Filings** 

#### Spire Missouri Inc.

#### Calculation of Price Appreciation and Annualized Volatility of the Combined Gas Proxy Group, Mr. Murray's Electric Proxy Group, <u>Other Utility Indices, and Market Indices since January 31, 2020</u>

Combined Gas Proxy Group	Price Appreciation (1)	Annualized Volatility (2)
Atmos Energy Corporation New Jersey Resources Corporation	-15.26% 3.39%	38.03% 57.42%
NiSource Inc.	-13.00%	40.76%
Northwest Natural Holding Company	-27.94%	55.42%
ONE Gas Inc.	-21.35%	46.11%
South Jersey Industries, Inc.	-13.44%	53.51%
Southwest Gas Holdings, Inc.	-12.58%	46.17%
Spire Inc.	-15.01%	44.17%
Average	-14.40%	47.70%
Mr. Murray Electric Proxy	Price	Annualized
Group	Appreciation (1)	Volatility (2)
Alliant Energy Corporation	-3.72%	35.25%
Ameren Corporation	2.62%	38.97%
American Electric Power Company, Inc.	-17.48%	34.73%
CMS Energy Corporation	-8.42%	35.26%
DTE Energy Company	4.06%	42.60%
IDACORP, Inc.	-12.69%	38.72%
OGE Energy Corporation	-24.75%	40.24%
Pinnacle West Capital Corporation	-13.42%	40.39%
Portland General Electric Company	-22.05%	45.09%
The Southern Company	-9.20%	41.20%
WEC Energy Group	-5.99%	38.88%
Xcel Energy, Inc.	2.44%	35.84%
Average	-9.05%	38.93%
Dow Jones Utility Average	-4.39%	34.58%
Utilities Select SPDR Fund	-5.54%	34.79%
Dow Jones Industrial Average	22.20%	32.59%
S&P 500	30.34%	30.87%

#### Notes:

- (1) (5/28/2021 price minus 1/31/2020 price) divided by 1/31/2020 price.
- (2) Standard deviation of returns over the period multiplied by the square root of 252, or number of trading days in a year.

Source: S&P Global Market Intelligence

#### Spire Missouri Inc. Calculation of Price Appreciation and Dividends as a Percentage of Total Returns for the Combined Gas Proxy Group and Mr. Murray's Electric Proxy Group

	[1]	[2]	[3]	[4]	[5]	[6]	[7]
	Pric	e (1)					
							Dividends as
			Price	Cumulative	Total	Price as % of	% of Total
Combined Gas Proxy Group	12/31/2010	12/31/2020	Appreciation (2)	Dividends (3)	Return (4)	Total Return (5)	Return (6)
Atmos Energy Corporation	31.20	95.43	64.23	17.29	81.51	78.80%	21.20%
New Jersey Resources Corporation	21.56	35.55	13.99	10.00	24.00	58.32%	41.68%
NiSource Inc.	6.92	22.94	16.02	5.79	21.81	73.44%	26.56%
Northwest Natural Holding Company	46.47	45.99	(0.48)	18.54	18.06	-2.66%	102.66%
ONE Gas Inc.	33.10	76.77	43.67	11.12	54.79	79.70%	20.30%
South Jersey Industries, Inc.	26.41	21.55	(4.86)	10.09	5.23	-92.88%	192.88%
Southwest Gas Holdings, Inc.	36.67	60.75	24.08	16.64	40.72	59.14%	40.86%
Spire Inc.	36.54	64.04	27.50	20.00	47.50	57.89%	42.11%
					Average	38.97%	61.03%
					Median	58.73%	41.27%
			Aver	age excluding N	WN and SII	67.88%	32.12%
				lian excluding N	,	66.29%	33.71%

Price (1)

	Pric	e(1)					
							Dividends as
			Price	Cumulative	Total	Price as % of	% of Total
Mr. Murray Electric Proxy Group	12/31/2010	12/31/2020	Appreciation (2)	Dividends (3)	Return (4)	Total Return (5)	Return (6)
Alliant Energy Corporation	18.39	51.53	33.14	11.53	44.67	74.20%	25.80%
Ameren Corporation	28.19	78.06	49.87	17.28	67.15	74.26%	25.74%
American Electric Power Company, Inc.	35.98	83.27	47.29	22.60	69.89	67.66%	32.34%
CMS Energy Corporation	18.60	61.01	42.41	12.23	54.64	77.62%	22.38%
DTE Energy Company	45.32	121.41	76.09	30.83	106.92	71.16%	28.84%
IDACORP, Inc.	36.98	96.03	59.05	19.82	78.87	74.87%	25.13%
OGE Energy Corporation	22.77	31.86	9.09	11.11	20.20	45.01%	54.99%
Pinnacle West Capital Corporation	41.45	79.95	38.50	25.32	63.82	60.32%	39.68%
Portland General Electric Company	21.70	42.77	21.07	12.65	33.72	62.48%	37.52%
The Southern Company	38.23	61.43	23.20	21.97	45.17	51.36%	48.64%
WEC Energy Group	29.43	92.03	62.60	18.15	80.75	77.52%	22.48%
Xcel Energy, Inc.	23.55	66.67	43.12	13.35	56.47	76.36%	23.64%
					Average	67.74%	32.26%
					Median	72.68%	27.32%
			A	Cara and Elasteria	C	F( 220)	42 770/
			Average	Gas and Electric	companies	56.23%	43.77%

Average Gas and Electric Companies	56.23%	43.77%
Median Gas and Electric Companies	69.41%	30.59%
Average excluding NWN and SJI	67.78%	32.22%
Median excluding NWN and SJI	72.30%	27.70%

Notes:

- (1) Source: Yahoo! Finance; OGS began trading on January 16, 2014
- (2) Column [2] Column [1]
- (3) Source: Yahoo! Finance
- (4) Column [3] Column [4]
- (5) Column [3] / Column [5]
- (6) Column [4] / Column [5]

# Spire Missouri Inc. Gross Domestic Product by Industry

Industry	1947	2020	CAGR
Agriculture, forestry, fishing, and hunting	19.9	175.8	3.03%
Mining	5.8	192.5	4.91%
Utilities	3.5	336.9	6.46%
Construction	8.9	897.6	6.52%
Manufacturing	63.4	2,269.2	5.02%
Wholesale trade	15.6	1,217.7	6.15%
Retail trade	23.2	1,200.9	5.56%
Transportation and warehousing	14.1	595.9	5.26%
Information	7.7	1,161.4	7.11%
Finance, insurance, real estate, rental, and leasing	25.8	4,660.2	7.38%
Professional and business services	8.2	2,673.6	8.25%
Educational services, health care, and social assistance	4.6	1,807.5	8.53%
Arts, entertainment, recreation, accommodation, and food services	8.0	679.7	6.27%
Other services, except government	7.5	421.9	5.68%
Government	33.5	2,645.7	6.17%
Total Gross Domestic Product	249.7	20,936.5	6.25%

Source: Bureau of Economic Analysis

## Spire Missouri Inc. Recreation of Dr. Won's DCF Model Indicated Common Equity Cost Rate Using the Discounted Cash Flow Model for Dr. Won's Proxy Group

	[1]	[2]	[3]	[4]
Dr. Won's Proxy Group (2021)	Average Dividend Yield (1)	Value Line Projected Five Year Growth in EPS (2)	Adjusted Dividend Yield (3)	Indicated Common Equity Cost Rate (4)
		( <u>_</u> )		
Atmos Energy Corporation	2.53 %	7.00 %	2.61 %	9.61 %
New Jersey Resources Corporation	3.34	1.50	3.36	4.86
Northwest Natural Holding Company	4.05	5.50	4.16	9.66
ONE Gas, Inc.	2.99	6.50	3.08	9.58
South Jersey Industries, Inc.	5.00	10.50	5.27	15.77
Southwest Gas Holdings, Inc.	3.60	8.00	3.74	11.74
Spire Inc.	3.78	9.00	3.95	12.95
			Average	10.60 %

Dr. Won's Proxy Group (2017)	Average Dividend Yield (1)	Value Line Projected Five Year Growth in EPS (2)	Adjusted Dividend Yield (3)	Indicated Common Equity Cost Rate (4)
Atmos Energy Corporation	2.20 %	6.50 %	2.27 %	8.77 %
New Jersey Resources Corporation	2.49	3.00	2.53	5.53
Northwest Natural Holding Company	3.12	7.00	3.23	10.23
ONE Gas, Inc.	2.41	9.50	2.53	12.03
South Jersey Industries, Inc.	3.04	3.00	3.08	6.08
Southwest Gas Holdings, Inc.	2.46	7.00	2.54	9.54
Spire Inc.	3.05	9.00	3.19	12.19
			Average	9.20 %

Notes:

(1) From Schedule SJW-13.

(2) From Schedule SJW-11.

(3) Column 1 x (1+(1/2 Column 2)).

(4) Column 2 + Column 3.

Source of Information:

	Indi	Recreation of Dr. Won's CAPM Model Indicated Common Equity Cost Rate Using the Capital Asset Pricing Model for Dr. Won's Proxy Group	<u>Recreation o</u> Equity Cost R <u>Dr. W</u>	Recreation of Dr. Won's CAPM Model Squity Cost Rate Using the Capital Ass <u>Dr. Won's Proxy Group</u>	<u>PM Model</u> Capital Asset F oup	Pricing Model fo	Jr			
	[1]	[2]	[3]	[4]	[5]	[9]	[7] CAPM	[8] CAPM	[9] CAPM	[10] CAPM
		Risk-Free		D&P MRP	NYU MRP	NYU MRP	D&P (G)	D&P (A)	NYU (G)	NYU (A)
Dr. Won's Proxy Group (2021)	Beta (1)	Rate (2)	(G) (2) (A	(A) (2) (G	(G) (2) (A	(A) (2)			(5)	(9)
Atmos Energy Corporation	0.80	2.07 %		6.10 %	4.84 %	6.43 %			5.95 %	
New Jersey Resources Corporation	0.95	2.07		6.10	4.84	6.43			6.67	8.18
Northwest Natural Holding Company	0.80	2.07		6.10	4.84	6.43			5.95	7.21
ONE Gas, Inc.	0.80	2.07		6.10	4.84	6.43			5.95	7.21
South Jersey Industries, Inc.	1.05	2.07		6.10	4.84	6.43	7.01	8.48	7.16	8.82
Southwest Gas Holdings, Inc.	0.95	2.07		6.10	4.84	6.43			6.67	8.18
Spire Inc.	0.85	2.07		6.10	4.84	6.43			6.19	7.53
									6.36	7.76
Average D&P and NYU CAPM (7)										6.96
							CAPM	CAPM	CAPM	CAPM
		Risk-Free	D&P MRP	D&P MRP	NYU MRP	NYU MRP	D&P (G)	D&P (A)	NYU (G)	NYU (A)
Dr. Won's Proxy Group (2017)	Beta (1)	Rate (2)	(G) (2)	(A) (2)	(G) (2)	(A) (2)	(3)	(3)	(3)	(3)
Atmos Energy Corporation	0.70	2.90 %			4.93 %	6.38 %			6.35 %	
New Jersey Resources Corporation	0.80	2.90	4.50		4.93	6.38	6.50		6.84	8.00
Northwest Natural Holding Company	0.65	2.90		6.00	4.93	6.38	5.83		6.10	7.04
ONE Gas, Inc.	0.70	2.90		6.00	4.93	6.38	6.05		6.35	7.36
South Jersey Industries, Inc.	0.80	2.90		6.00	4.93	6.38	6.50		6.84	8.00
Southwest Gas Holdings, Inc.	0.75	2.90	4.50	6.00	4.93	6.38	6.28		6.60	7.68
Spire Inc.	0.70	2.90		6.00	4.93	6.38	6.05	7.10	6.35	7.36
							0.18	17.1	0.49	CC./
Average D&F and NTU CAFM (7)										0.07
Notes:										

Spire Missouri Inc.

Notes: (1) Source: Value Line (2) Source: Schedule SJW-14 (3) Column [2] + Column [1] \* Column [3] (4) Column [2] + Column [1] \* Column [4] (5) Column [2] + Column [1] \* Column [5] (6) Column [2] + Column [1] \* Column [6] (7) Average Columns [7] - [10]





Source: Duff & Phelps, SBBI 2021 Yearbook: Stocks, Bonds, Bills, and Inflation 1926 - 2020, Appendix A





# Spire Missouri Inc. Range of Capital Structures for the Past Five Quarters for the <u>Combined Gas Proxy Group of Eight Natural Gas Distribution Companies</u>

<u>C</u>	<u>ommon Equity</u>	<u>Ratio</u>							
Company	2021Q1	2020Q4	2020Q3	2020Q2	2020Q1				
Atmos Energy Corporation	51.67%	58.46%	59.98%	58.78%	59.29%				
New Jersey Resources Corporation	44.33%	42.56%	44.65%	52.10%	54.16%				
NiSource Inc.	33.15%	32.49%	31.01%	33.01%	35.83%				
Northwest Natural Holding Company	49.48%	48.19%	47.16%	48.09%	48.59%				
ONE Gas, Inc.	36.00%	58.53%	58.17%	58.08%	62.99%				
South Jersey Industries, Inc.	35.14%	36.26%	37.83%	38.30%	37.11%				
Southwest Gas Holdings, Inc.	50.09%	49.10%	48.96%	48.16%	50.68%				
Spire Inc.	44.98%	44.96%	45.55%	45.94%	47.01%				
Five Quarter Range		<u>31.0</u>	<u>1% - 62.99%</u>	<u>.</u>					
Long-Term Debt Ratio									
Company	2021Q1	2020Q4	2020Q3	2020Q2	2020Q1				
Atmos Energy Corporation	48.33%	41.54%	40.02%	41.22%	40.71%				
New Jersey Resources Corporation	55.67%	57.44%	55.35%	47.90%	45.84%				
NiSource Inc.	60.92%	61.64%	62.98%	60.92%	57.68%				
Northwest Natural Holding Company	50.52%	51.81%	52.84%	51.91%	51.41%				
ONE Gas, Inc.	64.00%	41.47%	41.83%	41.92%	37.01%				
South Jersey Industries, Inc.	64.86%	63.74%	62.17%	61.70%	62.89%				
Southwest Gas Holdings, Inc.	49.91%	50.90%	51.04%	51.84%	49.32%				
Spire Inc.	50.65%	50.40%	49.62%	49.26%	48.30%				
Five Quarter Range		<u>37.0</u>	<u>1% - 64.86%</u>	<u>.</u>					

Source: S&P Global Market Intelligence; S&P Capital IQ; Company Filings

# Spire Missouri Inc. Range of Capital Structures for the Past Five Quarters for the <u>Combined Gas Proxy Group of Eight Natural Gas Distribution Companies at the Operating Company Level</u>

<u>Common Equity Ratio</u>					
Company	2021Q1	2020Q4	2020Q3	2020Q2	2020Q1
Atmos Energy Corporation	51.67%	58.46%	59.98%	58.78%	59.29%
New Jersey Natural Gas Company	55.58%	54.13%	53.10%	57.64%	58.62%
NiSource Inc.	33.15%	32.49%	31.01%	33.01%	35.83%
Northwest Natural Gas Company	49.01%	47.66%	46.76%	47.79%	48.33%
ONE Gas, Inc.	36.00%	58.53%	58.17%	58.08%	62.99%
South Jersey Gas Company	56.53%	54.94%	57.03%	54.94%	54.61%
Southwest Gas Corporation	49.33%	47.81%	47.76%	47.15%	49.97%
Spire Alabama Inc.	59.05%	57.75%	64.35%	64.75%	64.82%
Spire Missouri Inc.	59.20%	57.73%	56.79%	56.78%	56.71%
Five Quarter Range	<u>31.01% - 64.82%</u>				
Long-Term Debt Ratio					
Company	2021Q1	2020Q4	2020Q3	2020Q2	2020Q1
Atmos Energy Corporation	48.33%	41.54%	40.02%	41.22%	40.71%
New Jersey Natural Gas Company	44.42%	45.87%	46.90%	42.36%	41.38%
NiSource Inc.	60.92%	61.64%	62.98%	60.92%	57.68%
Northwest Natural Gas Company	50.99%	52.34%	53.24%	52.21%	51.67%
ONE Gas, Inc.	64.00%	41.47%	41.83%	41.92%	37.01%
South Jersey Gas Company	43.47%	45.06%	42.97%	45.06%	45.39%
Southwest Gas Corporation	50.67%	52.19%	52.24%	52.85%	50.03%
Spire Alabama Inc.	40.95%	42.25%	35.65%	35.25%	35.18%
Spire Missouri Inc.	40.80%	42.27%	43.21%	43.22%	43.29%
Five Quarter Range	<u>35.18% - 64.00%</u>				

Source: S&P Global Market Intelligence; S&P Capital IQ; Company Filings