Exhibit No.:

Issue(s): Cost of Capital Witness: Ann E. Bulkley

Type of Exhibit: Surrebuttal Testimony
Sponsoring Party: Union Electric Company

File No.: GR-2024-0369

Date Testimony Prepared: May 2, 2025

#### MISSOURI PUBLIC SERVICE COMMISSION

FILE NO. GR-2024-0369

**SURREBUTTAL TESTIMONY** 

OF

ANN E. BULKLEY

ON

**BEHALF OF** 

UNION ELECTRIC COMPANY

D/B/A AMEREN MISSOURI

St. Louis, Missouri May 2025

### **TABLE OF CONTENTS**

| I.   | INTRODUCTION                                    | 3  |
|------|---|----|
| II.  | SUMMARY AND CONCLUSIONS                         | 4  |
| III. | PROXY GROUP                                     | 6  |
| IV.  | COST OF EQUITY ESTIMATES VERSUS AUTHORIZED ROES | 14 |
| V.   | DCF ANALYSIS                                    | 18 |
| VI.  | CAPM ANALYSIS                                   | 27 |
| VII. | ECAPM ANALYSIS                                  | 43 |
| VIII | , RISK PREMIUM ANALYSIS                         | 47 |
| IX.  | BUSINESS RISK FACTORS                           | 51 |

# OF ANN E. BULKLEY FILE NO. GR-2024-0369

#### I. INTRODUCTION

1

- Q: Are you the same Ann E. Bulkley that previously filed direct and rebuttal testimony in this proceeding?
- A. Yes. I previously submitted direct and rebuttal testimony before the Missouri Public

  Service Commission ("Commission") in this proceeding on behalf of Ameren

  Missouri ("Company" or "Ameren Missouri"), a wholly-owned subsidiary of Ameren

  Corporation ("Ameren"), regarding the Company's gas utility operations.

### 8 Q: What is the purpose of your surrebuttal testimony?

9 A. The purpose of my surrebuttal testimony is to respond to the rebuttal testimonies of
10 Dr. Seoung Joun Won on behalf of the Missouri Public Service Commission Staff
11 ("Staff"), 1 and David Murray on behalf of the Missouri Office of the Public Counsel
12 ("OPC") 2 regarding their respective proposals for the return on equity for the
13 Company in this proceeding. In addition, my surrebuttal testimony responds to the
14 rebuttal testimony of Mr. Keith Majors on behalf of Staff regarding the regulatory and

Missouri Public Service Commission, Case No. GR-2024-0369, Rebuttal Testimony of Seoung Joun Won, PhD, April 4, 2025 ("Won Rebuttal").

<sup>&</sup>lt;sup>2</sup> Missouri Public Service Commission, Case No. GR-2024-0369, Rebuttal Testimony of David Murray, April 4, 2025 ("Murray Rebuttal").

15

16

17

18

19

20

21

22

business risks of the Company.<sup>3</sup> To the extent that I do not address a particular issue raised by these witnesses in my surrebuttal testimony should not be viewed as acceptance of that issue.

#### 4 Q: Are you sponsoring any exhibits in support of rebuttal direct testimony?

A. Yes. I am sponsoring Schedule AEB-SR1, Attachments 1 through 3, which have been prepared by me or under my direction.

#### II. SUMMARY AND CONCLUSIONS

- Q: Please briefly summarize your surrebuttal testimony and your key
   conclusions and recommendations regarding the appropriate ROE for
   Ameren Missouri in this proceeding.
- 11 A. Nothing in the rebuttal testimonies of Dr. Won, Mr. Murray, or Mr. Majors has caused
  12 me to change my conclusions or recommendations. Based on my review of their
  13 respective rebuttal testimonies, my key conclusions regarding a reasonable ROE
  14 for the Company in this proceeding are as follows:
  - It is not credible for Mr. Murray to suggest that I should have relied on the
    assumptions used by his cost of equity estimation models when he does
    not directly rely on the results of those models to support his recommended
    ROE.
  - Neither Dr. Won nor Mr. Murray demonstrate that their suggested changes to my proxy group are supported.
    - It is unreasonable for Dr. Won to exclude NiSource Inc. ("NI") from the proxy group because of a dividend cut in 2015. Dr. Won has

Missouri Public Service Commission, Case No. GR-2024-0369, Rebuttal Testimony of Keith Majors, April 4, 2025 ("Majors Rebuttal").

39

40

provided no evidence in either his direct or rebuttal testimonies to show that NI's dividend cut in 2015 affected the recent market data he relies on to develop both his DCF and CAPM analyses. Further, his consideration of 10-year period in the application of his dividend screen is inconsistent his application of the dividend screen in prior proceedings.

- There is no basis for Mr. Murray's exclusion of utilities comparable to Ameren Missouri that have unregulated operations but derive the majority of their operating income from regulated gas operations.
- o In addition, there is no discernible trend in the constant growth discounted cash flow ("DCF") results for the companies in my proxy group that would indicate companies with a relatively higher percentage of unregulated operations have a higher cost of equity than companies with a relatively lower percentage of unregulated operations, and Mr. Murray has not conducted any analysis or provided evidence that supports this view.
- There is no basis to Mr. Murray's claim that regulators, including the Commission, have incorrectly authorized ROEs for years that are substantially higher than the cost of equity.
- Dr. Won's and Mr. Murray's criticism regarding the use of projected earnings growth rates in the constant growth DCF model is unfounded.
  - While Dr. Won, and Mr. Murray essentially suggest that I should have relied on the multi-stage DCF model using their assumptions, the results of their multi-stage DCF models are below each of their ROE recommendations.
  - Earnings are the fundamental driver of dividend growth rates, and there is significant academic research demonstrating that EPS growth rates are most relevant in stock price valuation.
- Dr. Won's and Mr. Murray's allegation that the market return, used in my Capital Asset Pricing Model ("CAPM") and Empirical CAPM ("ECAPM") analyses, is too high is contradicted by the fact that the methodology that I use to estimate the market return:
  - Is consistent with historical average returns.
  - Has been accepted by various regulators.
  - Is consistent with the results of a study by the Federal Reserve Bank of New York that evaluated various market risk premium estimates.
  - Furthermore, there are critical errors in Dr. Won's "adjustment" to my CAPM and ECAPM analyses, that when corrected, continues to support an ROE of 10.25 percent and fails to support Dr. Won's conclusion.

- 1 2 3 4 5
- 6 7 8 9

12

17

18

19

20212223

24

25

26

27

28

29

30

- Neither Dr. Won nor Mr. Murray provide any evidence that the results of my Bond Yield Plus Risk Premium analysis ("BYRP") are unreliable.
  - The regression analysis that I conducted demonstrates a strong inverse relationship between interest rates and the equity risk premium for utilities.
  - Dr. Won's concern regarding the data used in my BYRP analysis applies equally to his own analysis and given that his ROE recommendation in this proceeding is equivalent to the result of his BYRP, the concern that he raises in regard to the BYRP could affect his ROE recommendation in this proceeding.
- Dr. Won, Mr. Majors and Mr. Murray fail to consider the relevant comparison point when evaluating the Company's business and regulatory risks.
  - Each fail to recognize that the appropriate comparison is the Company's risk relative to the proxy group companies, not the Company's risk with or without regulatory mechanisms,
  - All else equal, while I agree that regulatory mechanisms that reduce a utility's regulatory lag in cost recovery help to mitigate risk, the appropriate analysis for purposes of establishing the Company's ROE in this proceeding is to evaluate how Ameren Missouri's regulatory risk compares to the other companies in the proxy group.
  - Dr. Won and Mr. Murray incorrectly dismiss consideration of the small size risk of Ameren Missouri's natural gas operations because Ameren Missouri also has electric operations and is a subsidiary of Ameren. However, this reasoning violates the stand-alone principle of ratemaking which requires regulated rates to be based on the risks and benefits of the regulated utility, not its investors, parent or affiliates.

### III. PROXY GROUP

- Q: Please summarize the disagreements that Dr. Won and Mr. Murray have with the proxy group that you relied on for Ameren Missouri.
- A. Dr. Won disagrees with the inclusion NiSource Inc. ("NI") in my proxy group.<sup>4</sup> Dr.

  Won believes that NI should be excluded because NI cut its dividend in 2015 and

<sup>4</sup> Won Rebuttal, at 8.

2016. He believes companies that have cut their dividend should be excluded because: (1) a dividend cut could signal an increase in financial instability; (2) a past dividend cut lowers expected future dividends and could signal lower growth, each of which could result in the DCF model producing an inflated cost of equity estimate; and (3) dividend cuts can signal weaker financial performance and increase price volatility which would increase both the equity risk premium and beta thus also inflating the cost of equity estimate produced by the CAPM.<sup>5</sup>

Mr. Murray disagrees with the inclusion of Southwest Gas ("SWX") and Spire ("SR") in my proxy group because they both have "significant exposure" (which he defines as greater than 10 percent) to unregulated operations. Mr. Murray suggests that companies with a higher percentage of unregulated operations have greater risk, and therefore, concludes that I do not account for the increased risk of unregulated operations when comparing the business risk of Ameren Missouri to the proxy group.<sup>6</sup> Further, Mr. Murray also contends that my cost of equity analysis is "incomplete" because I have not considered Ameren in my assessment of Ameren Missouri's cost of equity.<sup>7</sup>

<sup>&</sup>lt;sup>5</sup> *Id.*, at 8-9

<sup>&</sup>lt;sup>6</sup> Murray Rebuttal, at 19-20.

<sup>&</sup>lt;sup>7</sup> *Id.*, at 20.

### Q: Do you agree with Dr. Won that NI should be excluded because of its dividend cuts in 2015 and 2016?

No. First, it is important to note that Dr. Won incorrectly states that NI had a dividend cut in both 2015 and 2016. As I discussed in my rebuttal testimony and shown in Figure 1 below, NI reduced its dividend in 2015 when the company spun—off Columbia Pipeline Partners LP; however, NI did not cut its dividend in 2016. As shown in Figure 1, it appears Dr. Won incorrectly assumes that because the annual dividend for NI is lower in 2016 that it reduced its dividend in 2016, which is clearly not the case. In fact, NI began to increase its dividend again in 2016.

FIGURE 1: NI – DIVIDEND PER SHARE ("DPS") – 2014-20168

|           | 2014   | 2015   | 2016   |
|-----------|--------|--------|--------|
| Quarter 1 | \$0.25 | \$0.26 | \$0.16 |
| Quarter 2 | \$0.25 | \$0.26 | \$0.16 |
| Quarter 3 | \$0.26 | \$0.16 | \$0.17 |
| Quarter 4 | \$0.26 | \$0.16 | \$0.17 |
| Annual    | \$1.02 | \$0.83 | \$0.64 |

Second, as discussed in my rebuttal testimony, while I agree that companies included in the proxy group must pay a consistent cash dividend that has not been reduced, I disagree with Dr. Won's use of a ten-year historical review for the following reasons: <sup>9</sup>

<sup>&</sup>lt;sup>8</sup> Bloomberg Professional.

Missouri Public Service Commission, Case No. GR-2024-0369, Rebuttal Testimony of Ann E. Bulkley, April 4, 2025 ("Bulkley Rebuttal"), at 36-39.

Q:

- **A**.

- -
- Murray Rebuttal, at 19.
- Manya Saini and David French, "Southwest Gas unit jumps in strong market debut," *Reuters*, April 18, 2024.

- Dr. Won's use of a ten-year historical review in the current proceeding is not consistent with the review period he relied on in Ameren Missouri's last rate case (six years). Had Dr. Won relied on the most recent six years in the application of the dividend screen, NI would have been included in his proxy group.
- Dr. Won's use of the ten-year period starting in 2015 is inconsistent with his criteria in recent rate proceedings for both electric (review period started in 2019) and water (review period started in 2017) utilities. Dr. Won has provided no evidence to suggest that the market would react differently based on the regulated business (water, natural gas or electric utility), such that it would make sense to change the duration of the dividend screen period. Furthermore, NI would meet the dividend screen that Dr. Won has applied in rate proceedings for electric and water utilities
- Dr. Won has provided no evidence in either his direct or rebuttal testimonies to show that NI's dividend cut in 2015 affected the recent market data he relies on to develop both his DCF and CAPM analyses.
- Do you agree with Mr. Murray that your proxy group includes companies with significant unregulated operations that result in greater risk for the proxy group companies?
- No. First, Mr. Murray's characterization of SWX's unregulated operations is incorrect. Mr. Murray's contends that SWX's unregulated operations "include its nonregulated utility infrastructure construction business, Centuri Group, Inc. ("Centuri"), which it is in the process of divesting." However, SWX is no longer "in the process" of divesting Centuri as Centuri was spun-off in April 2024. Therefore, SWX divested the unregulated operations Mr. Murray references as the reason for excluding SWX from the proxy group well before Mr. Murray filed his direct testimony in February 2025. Further, while Mr. Murray contends that the transaction caused

volatility in SWX's share price, since the transaction closed in April 2024, it is reasonable to assume that the transaction would not have caused volatility in the share prices that Mr. Murray relied on to develop his multi-stage DCF analysis, which reflected the three-month average ending January 1, 2025. As a result, Mr. Murray should have included SWX in his proxy group.

Second, as discussed in my direct testimony, I apply a screening criterion that requires a company to derive at least 70.00 percent of its operating income from regulated operations, which ensures that, together with my other screening criteria, the companies in my cost of equity analyses have operating and financial risk characteristics that are substantially comparable to Ameren Missouri, including substantial regulated gas operations. As shown in Schedule AEB-D2, Attachment 2 of my direct testimony, SWX and SR derive over 86.00 percent and 83.00 percent, respectively, of operating income from regulated operations over the most recent three-year period of 2021-2023.

Third, while I screen the proxy group to limit unregulated operations and will show below that there is no evidence that companies in my proxy group with unregulated operations are perceived to have higher risk, Mr. Murray does not conduct any analysis to support his conclusions that the companies such as either SWX or SR

Missouri Public Service Commission, Case No. GR-2024-0369, Direct Testimony of Ann E. Bulkley, September 30, 2024 ("Bulkley Direct"), at 22.

For SWG, the three-year period of 2021-2023 would include the unregulated operations of Centuri. Therefore, with the recent divesture of Centuri, SWX's percentage of operating income derived from regulated operations will increase going forward.

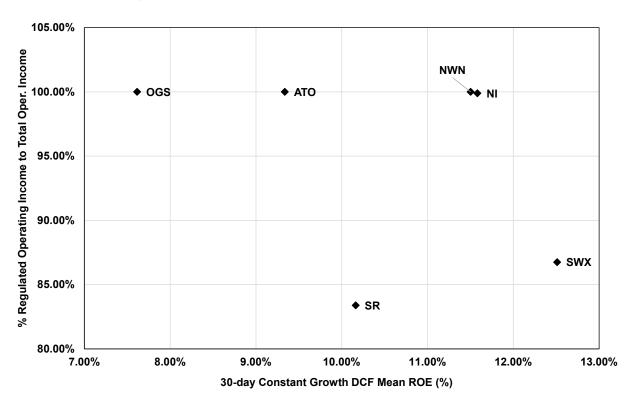
- with a higher percentage of unregulated operations in my proxy group have greater risk than Ameren Missouri.
- Q: Do you conduct any analyses to test whether the unregulated operations of the proxy companies that you have relied upon have biased the results of your analyses?
- Yes. Figure 2 graphs the percentage of regulated operations, as determined by 6 operating income, and the constant growth DCF results for my proxy group from my 7 rebuttal testimony. As shown, there is no discernible trend in the constant growth 8 DCF results for the companies in my proxy group that would indicate companies 9 with a relatively higher percentage of unregulated operations have a higher cost of 10 11 equity than companies with a relatively lower percentage of unregulated operations. This further supports that the operating risk of companies with a relatively higher 12 percentage of unregulated operations in the proxy group are not perceived to have 13 greater risk than companies in the proxy group with a relatively lower percentage of 14 unregulated operations. 15

2

3

6

FIGURE 2: COMPARISON OF 30-DAY CONSTANT GROWTH DCF RESULTS AS OF FEBRUARY 28, 2025 AND PERCENTAGE OF REGULATED OPERATING INCOME 14



Therefore, I disagree with Mr. Murray that my proxy group does not reasonably address unregulated operations for the proxy companies.

### Q: Does Dr. Won include SWX and SR in his proxy group?

7 A. Yes, Dr. Won includes both SWX and SR in his proxy group used to estimate the ROE for Ameren Missouri. 15

<sup>&</sup>lt;sup>14</sup> Bulkley Rebuttal, Schedule AEB-R1, Attachment 2.

Missouri Public Service Commission, Case No. GR-2024-0369, Direct Testimony of Seoung Joun Won, PhD, February 28, 2025 ("Won Direct"), at 41.

- Q: Do you agree with Mr. Murray that the cost of equity for Ameren should be used to determine the cost of equity for Ameren Missouri?<sup>16</sup>
- A. No. First, while Ameren Missouri is a subsidiary of Ameren, it is important to treat

  Ameren Missouri as a stand-alone entity and evaluate the Company based on its

  utility operations in Missouri. The *Hope* and *Bluefield* decisions require that the

  return that is established for a regulated utility be based on the returns for other

  entities of comparable risk. It does not suggest that the return be based on the

  return available to the parent company or affiliates.

#### As Dr. Roger Morin states:

9

10

11

12

13

14

15

16

17

18

A utility operating company, segment, division, or line of business must be treated as a separate stand-alone entity, distinct from its parent company because it is the cost of capital for the division that we are attempting to measure and not the cost of capital for the parent company's consolidated activities.<sup>17</sup>

Second, I exclude Ameren from the proxy group used to estimate the cost of equity for Ameren Missouri because of the circularity that results from the use of the parent company market return to establish the return for the operating utility, which in turn contributes to the ROE of the parent company.

Murray Rebuttal, at 20.

<sup>&</sup>lt;sup>17</sup> Roger A. Morin, *Modern Regulatory Finance*, Public Utilities Reports, Inc., 2021, at 252.

2

### IV. COST OF EQUITY ESTIMATES VERSUS AUTHORIZED ROES

- Q: What is Mr. Murray's position regarding the cost of equity for utilities and authorized ROEs?
- A. Mr. Murray contends that authorized ROEs have exceeded the cost of equity because the market-to-book ratios for utilities have exceeded 1.0.<sup>18</sup>
- Q: Do you agree with Mr. Murray that authorized ROEs are above investors' required returns because the market-to-book ratios for utilities are greater than 1.0?
- No. There are several reasons why the market-to-book ratio for utilities may exceed Α. 10 1.0 other than the ROE exceeding the cost of equity. First, Mr. Murray's position 11 assumes that the Efficient Market Hypothesis ("EMH") holds true. The EMH theory 12 contends that all information currently known by investors is already reflected in 13 current stock prices. 19 For example, the theory of the DCF model is that the current 14 share price is equal to the present value of all expected future dividends. Therefore, 15 if markets were fully efficient as suggested by Mr. Murray, changes in share prices 16 could only be explained by new information that results in a change to the expected 17 dividends. 18

Murray Rebuttal, at 34; Murray Direct, at 5, and 20-21.

R. J. Shiller, *Do Stock Prices Move Too Much to be Justified by Subsequent Changes in Dividends?*, The American Economic Review, Vol. 71, No. 3, at 421-436 (1981).

2

3

4

5

6

7

8

9

10

11

12

13

14

15

However, as Dr. Lawrence Kolbe and Dr. Michael Vilbert outlined in their 2016 presentation to the California Public Utilities Commission, there is no consensus among economists regarding whether the theory of the efficient market hypothesis holds true and share prices are rationally priced, and even assuming for the sake of argument that the efficient market hypothesis does in fact hold true, there is also no consensus regarding which model produces reasonable estimates of the cost of equity.<sup>20</sup> In fact, Nobel Prize-winning economist Dr. Robert Shiller and others have provided compelling evidence against the efficient market hypothesis, concluding that share prices are not rationally priced and that the DCF model does not fully explain changes in share prices and thus will not accurately estimate the required return of investors.<sup>21</sup> There are numerous practical examples supporting this position (e.g., large sudden declines in the market such as Black Monday in 1987, the Great Recession of 2008/09, the COVID-19 crash in March 2020, and the "tech bubble" of the late 1990s) that cannot be explained by new information regarding dividends).<sup>22</sup>

A. Lawrence Kolbe, Ph.D. and Michael J. Vilbert, Ph.D., *Moving Toward Value in Utility Compensation Shareholder Value Concept*," Presented to the California Public Utilities Commission (June 13, 2016). <a href="https://www.brattle.com/insights-events/publications/moving-toward-value-in-utility-compensation-shareholder-value-concept/">https://www.brattle.com/insights-events/publications/moving-toward-value-in-utility-compensation-shareholder-value-concept/</a>

<sup>&</sup>lt;sup>21</sup> R. J. Shiller, "Do Stock Prices Move Too Much to be Justified by Subsequent Changes in Dividends?," *The American Economic Review*, 1981, Vol. 71, No. 3, at 42-436.

See, also, R. J. Shiller, "From Efficient Markets Theory to Behavioral Finance," Journal of Economic Perspectives, 2003, Vol. 17, No. 1, at 83–104. Dr. Shiller contended that there were "asset bubbles" such as the "tech boom" from 1994 to 2000 that resulted in substantial increases in share prices that could not be explained by market fundamentals.

If share prices are not necessarily rationally priced and cannot be explained by the DCF model, then a market-to-book ratio greater than 1.0 cannot be attributed to the ROE exceeding the cost of equity as Mr. Murray suggests (*i.e.*, the DCF model will not necessarily produce an accurate estimate of the return required by investors given the level of prices and, as a result, the resulting cost of equity estimate produced by the DCF model, if set as the authorized ROE, would not produce a market-to-book ratio of 1.0 – meaning prices would not adjust in the way described by Mr. Murray).

Second, as Drs. Kolbe and Vilbert also noted, even if one assumes that the theory of the EMH holds, there are several important conditions that must hold before one can assume that the ROE equals the cost of equity at a market-to-book ratio of 1.0 for regulated utilities. Those conditions include:

- A utility has to be regulated on rate base identical to its GAAP book value.
- A utility has to have 100 percent regulated operations.
- The regulatory system has to be in full equilibrium (*i.e.*, there cannot be a lag in the adjustment of the authorized ROE to the market cost of equity); and
- The ROE expected, on average, has to equal the authorized ROE.<sup>23</sup>

As Drs. Kolbe and Vilbert concluded, it is very unlikely that all of these conditions will be satisfied. For example, changes in cost trends or regulatory lag can cause a utility to earn more or less than the allowed return, and if the expected return

A. Lawrence Kolbe, Ph.D. and Michael J. Vilbert, Ph.D., *Moving Toward Value in Utility Compensation Shareholder Value Concept*," Presented to the California Public Utilities Commission (June 13, 2016). <a href="https://www.brattle.com/insights-events/publications/moving-toward-value-in-utility-compensation-shareholder-value-concept/">https://www.brattle.com/insights-events/publications/moving-toward-value-in-utility-compensation-shareholder-value-concept/</a>

12

13

14

15

16

17

18

deviates from the allowed return, then the allowed return will not equal the cost of equity, and the market-to-book ratio will not equal 1.0. 2

- Q: Do recent trends in authorized ROEs and market-to-book ratios support Mr. 3 Murray's claim that authorized ROEs have exceeded the cost of equity? 4
- Α. No, they do not. To test Mr. Murray's theory, I compared the average market-to-5 book ratio for the companies in my proxy group for the period of January 1, 2020 6 through December 31, 2024 to the average annual authorized ROEs for natural gas 7 utilities for 2020 through 2024 shown in Figure 6 of my rebuttal testimony. As shown 8 in Figure 3, the market-to-book ratio for the companies in my proxy group are 9 currently lower than in January 2020; however, the average annual authorized ROE 10 11 for natural gas utilities has increased.
  - Mr. Murray contends that authorized ROEs have been set higher than the cost of equity, and given that authorized ROEs increased over the period of 2020-2024, Mr. Murray's theory is that the market-to-book ratios for utilities should have also increased. However, the opposite has occurred and the market-to-book ratio for the companies in my proxy group declined over this period. Therefore, Mr. Murray's theory is inconsistent with market evidence and should be disregarded by the Commission.

5

6

7

8

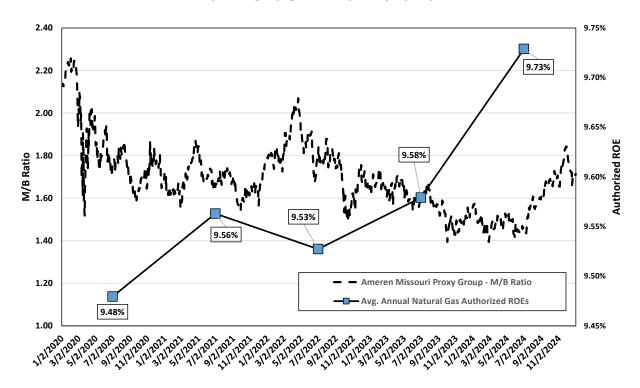
9

10

FIGURE 3: COMPARISON OF THE AVERAGE MARKET-TO-BOOK RATIO FOR MS.

BULKLEY'S PROXY GROUP AND THE AVERAGE ANNUAL AUTHORIZED ROES FOR

NATURAL GAS UTILITIES – 2020-2024<sup>24</sup>



V. DCF ANALYSIS

Q: Please summarize the positions of Dr. Won and Mr. Murray regarding your DCF analyses.

A. Both witnesses contend that the use of projected EPS growth rates in the constant growth DCF model overstates the cost of equity.<sup>25</sup> Dr. Won suggests that it would be more appropriate to rely on a long-term growth rate that approximates the level

<sup>&</sup>lt;sup>24</sup> S&P Capital IQ Pro.

Won Rebuttal, at 10-11; Murray Rebuttal, at 21-22.

2

3

4

5

6

11

12

13

14

15

16

17

of long-term gross domestic product ("GDP") growth.<sup>26</sup> Mr. Murray suggests that, by relying on projected EPS growth rates, I have assumed that 59.38 percent of total returns will be in form of capital gains with the remaining portion related to dividends, which he testifies is "illogical" since utility companies pay out approximately two-thirds of their earnings as dividends to investors.<sup>27</sup>

#### Q: Do you agree with these assessments of your DCF analyses?

- A. No. It is important to recognize that while both witnesses essentially suggest that I should rely on either a two-step DCF (Dr. Won) or a multi-stage DCF model (Mr. Murray) using their assumptions, none of them directly rely on the output of those DCF models for their respective ROE recommendations. Specifically:
  - The result of Dr. Won's two-step DCF is 8.68 percent, or 96 basis points lower than his ROE recommendation of 9.64 percent.<sup>28</sup>
  - The results of Mr. Murray's multi-stage DCF range from 7.68 percent to 8.23 percent, or approximately 127 to 182 basis points lower than his ROE recommendation of 9.50 percent.<sup>29</sup>
  - Since each of these witnesses essentially abandon their cost of equity estimates from their respective DCF analyses for purposes of their ROE recommendation, it

Won Rebuttal, at 11-12

<sup>&</sup>lt;sup>27</sup> Murray Rebuttal, at 22

Won Direct, at 3, and 43.

<sup>&</sup>lt;sup>29</sup> Missouri Public Service Commission, Case No. GR-2024-0369, Direct Testimony of David Murray, February 28, 2025 ("Murray Direct"), at 2, Schedule DM-D-2 through Schedule DM-D-5.

is unreasonable to suggest that the assumptions or methodologies they rely on are superior to the DCF analyses that I have presented in my testimonies.

# Q: What is your response to these witnesses regarding the use of projected EPS growth rates in the constant growth DCF model?

A. First, as discussed in my rebuttal testimony, there are multiple reasons why earnings growth rates are the appropriate measure of growth in the DCF model including, but not limited to, the fact that earnings are the fundamental driver of dividend growth rates (*i.e.*, over the long-term, dividend growth can only be sustained by earnings growth) and there is significant academic research demonstrating that EPS growth rates are most relevant in stock price valuation.<sup>30</sup>

Second, as discussed in my direct and rebuttal testimonies, I have not relied exclusively on the results of the constant growth DCF model. Rather, I consider the results of multiple cost of equity estimation models in determining the range of ROEs that are appropriate to consider for the Company.<sup>31</sup>

Third, considering the empirical studies comparing the total factor productivity ("TFP") growth of the utility industry relative to the economy, it is reasonable to assume that earnings growth for utilities could exceed GDP growth over the long term. In a study filed as part of the Rate Regulation Initiative of the Alberta Utilities

Bulkley Rebuttal, at 44-46.

Bulkley Direct at 6, and 24-25; Bulkley Rebuttal, at 4.

Commission, the authors calculated TFP growth<sup>32</sup> for 72 U.S. electric and combination electric and natural gas utilities and for the U.S. economy for the period of 1972 through 2009. For the U.S. utility group, TFP growth averaged 0.96 percent over the period of 1972 to 2009,<sup>33</sup> while TFP growth for the U.S. economy was 0.91 percent,<sup>34</sup> indicating that electric and combination electric and natural gas utilities were approximately 5 percent more productive than the U.S. economy over the study period. Therefore, the authors showed that utility growth exceeded growth for the U.S. economy for approximately 40 years.

Finally, while each of these witnesses criticizes the use of analysts' projected EPS growth rates in the constant growth DCF model, as noted, their preferred specification of the DCF model produces cost of equity estimates for their respective proxy groups that are below any authorized ROE in nearly half of a century for a natural gas utility in a jurisdiction with a comparable regulatory framework to Missouri, and, as I just discussed, are also more than 96 to 182 basis points below their own ROE recommendations for Ameren Missouri.

TFP growth is a measure of productivity calculated as the difference between output growth and input growth. Higher TFP growth indicates that a company is converting inputs into higher levels of output growth (*i.e.*, increased productivity).

Jeff Makholm, and Agustin Ros, "Update, Reply and PBR Plan Review for AUC Proceeding 566 – Rate Regulation Initiative", February 22, 2012, at 5.

<sup>&</sup>lt;sup>34</sup> *Id.*, at 19.

- Q: Is it reasonable that you did not conduct a two-step or multi-stage DCF such as suggested by Dr. Won and Mr. Murray?
- A. Yes. I did not conduct a two-step or multi-stage DCF analysis because, as discussed in my rebuttal testimony, there are multiple issues with the multi-stage DCF analysis, and particularly with the specifications of Dr. Won and Mr. Murray, that indicate the constant growth DCF model is the appropriate DCF model to estimate the cost of equity in this proceeding.<sup>35</sup>
- Q: Did you review the academic research Dr. Won references to support the useof a GDP growth rate in the DCF model?
- A. Yes. Dr. Won references the text *New Regulatory Finance*, in which Dr. Morin notes that all growth rates eventually converge to a level consistent with the growth in GDP.<sup>36</sup> However, it is first important to note that Dr. Won's characterization of Dr. Morin's *New Regulatory Finance* is misleading. Dr. Morin stated that:

**[s]ome financial economists** are uncomfortable with the assumption that the DCF growth rates are perpetual growth rates, and argue that above average growth can be expected to prevail for a fixed number of years and then the growth rate will settle down to a steady-state long-run level, consistent with that of the economy.<sup>37</sup>

Dr. Morin did not note that "[a]nalysts are of the concurring opinion" that long-term growth rates will converge to GDP. Furthermore, in Dr. Morin's most recent 2021

14

15

16

17

18

19

20

<sup>&</sup>lt;sup>35</sup> Bulkley Rebuttal, at 42-51, and 81-91.

Won Rebuttal, at 11.

<sup>&</sup>lt;sup>37</sup> Roger A. Morin, *New Regulatory Finance*, Public Utilities Reports, Inc., 2006, at 302; emphasis added.

text, he addresses the shortcomings of using GDP growth as proposed by Dr. Won as the long-term growth rate estimate in the multi-stage DCF model:

One central assumption in Multi-Stage DCF models, and a potential Achilles' heel, in my view, is that utility growth rates will eventually match the growth of the macroeconomy usually measured by the growth of the Gross Domestic Product (GDP). I am not aware of any financial literature supporting the notion that utility earnings per share are expected to grow at the average growth of the economy, or GDP growth.

10 \*\*\*

Multi-Stage DCF applications appear somewhat disconnected from the assumptions of the method and the consensus expectations of investors. The investment community does not look to GDP growth over the next several decades when evaluating an investment in utility stocks, nor does it anticipate a series of discrete multi-stage decennial stages. I am not aware of any evidence that investors evaluate the future based on the assumptions and data sources required to apply the two-stage or three stage DCF model.<sup>38</sup>

- Q: Is Dr. Won's GDP growth rate consistent with the growth rate that Dr. Morin relies on in the multi-stage DCF analysis?
- A. No. While Dr. Won relies on Dr. Morin for as support for the use of GDP growth, he fails to discuss, and chooses not to rely on, the methodology that Dr. Morin *employs* to estimate the long-term growth in GDP in his multi-stage DCF analysis.

<sup>38</sup> Roger A. Morin, *Modern Regulatory Finance*, Pubic Utilities Reports, Inc., 2021, at 486.

Α.

Dr. Morin estimates the long-term growth rate in nominal GDP by first calculating the growth in real GDP and then adding the expected inflation rate.<sup>39</sup> In his text, Dr. Morin indicates that the growth rate in real GDP is estimated by calculating the compound annual growth rate in real GDP from 1929 through the present, and the expected inflation rate is estimated as the difference between the yield on the 20-year Treasury bond and the yield on the 20-year Treasury Inflation Protected bond, resulting in a long-term GDP growth rate of 5.50 percent in 2020.<sup>40</sup>

### 8 Q: How does Dr. Won's growth rate differ from the approach supported by Dr.9 Morin?

Dr. Won relies on the projected GDP growth rate of 3.90 percent projected by the Congressional Budget Office ("CBO") for the period for the 10-year period of 2024 through 2034 as the estimate of long-term growth in his two-stage DCF model.<sup>41</sup> Thus, Dr. Won is relying on a long-term growth rate using CBO data that only reflects growth for a ten-year forward-looking period. However, Dr. Won applies this growth rate for a long-term period that is inconsistent with the period for which the CBO has established this estimate. Therefore, Dr. Won's long-term growth estimate does not reflect the CBO's views for the entire period for which he relies on this projection.

<sup>&</sup>lt;sup>39</sup> *Id.*, at 388.

<sup>&</sup>lt;sup>40</sup> *Id*.

Won Direct, Schedule SJW-d10.

Q:

1

2

3

4

5

6

7

8

9

13

14

15

16

17

18

19

20

Have you reviewed any additional academic research that supports Dr. Morin's methodology for estimating the long-term nominal GDP growth rate? Yes. As discussed in my rebuttal testimony, similar to Dr. Morin's methodology, Α. Morningstar recommends estimating the projected long-term nominal GDP growth rate by first calculating the historical growth in real GDP and then adding the expected inflation rate. 42 As shown on Schedule AEB-R1, Attachment 9 of my

rebuttal testimony, when longer-term GDP growth is estimated consistent with the

methodology outlined by *Morningstar*, the long-term nominal GDP growth rate is

5.50 percent – or significantly higher than the growth rate that Dr. Won relies on.

- Q: Have you compared the long-term GDP growth rate that is consistent with the 10 methodology outlined by Dr. Morin and *Morningstar* to the EPS growth rates 11 12 you relied on in your constant growth DCF model?
  - Α. Yes. The long-term GDP growth rate consistent with the methodology outlined by Dr. Morin and *Morningstar* is 5.50 percent. The proxy group average EPS growth rate is 5.98 percent in my direct testimony as shown on Schedule AEB-D2, Attachment 3, and 6.74 percent in my rebuttal testimony as shown on Exhibit AEB-R1, Attachment 2. Therefore, the long-term GDP growth rate is more supportive of the average analysts' projected EPS growth rates that I have relied on as opposed to the GDP growth rate assumed by Dr. Won, which is 160 basis points lower than the methodology outlined by *Morningstar* and consistent with Dr. Morin.

Bulkley Rebuttal, at 47-48.

Therefore, while Dr. Won suggests that if I had used his two-step DCF approach the resulting cost of equity would be 9.67 percent,<sup>43</sup> there is no basis for his analysis given that his GDP growth rate is inconsistent with the methodology of the source that he cites in his testimony.

### Q: Why does Mr. Murray conclude that your reliance on projected EPS growth rates is "illogical?" 44

A. Mr. Murray states that by relying on projected EPS growth rates, I have assumed that approximately 59.38 percent of investors' returns will be in the form of capital gains (*i.e.*, price appreciation) with the remaining portion attributable to dividends. <sup>45</sup> According to Mr. Murray, this assumption is illogical given that utilities typically have a payout ratio that is approximately two-thirds of their annual EPS, meaning payout approximately 67 percent of earnings as dividends. Mr. Murray contends that if it is assumed that 59.38 percent of an investor's return is attributable to dividends (*i.e.*, closer to his assumed payout ratio for utilities), the cost of equity would be 6.96 percent, which is closer to the investors' return requirements than a cost of equity of 10.07 percent. <sup>46</sup>

Won Rebuttal, at 12.

<sup>44</sup> Murray Rebuttal, at 22.

Murray Rebuttal, at 22; Mr. Murray's referenced 59.38 percent is calculated as the proxy group median projected EPS growth rate of 5.98 percent divided by the result of the proxy group average constant growth DCF result assuming 90-day average stock prices of 10.07 percent.

<sup>46</sup> Murray Rebuttal, at 22.

#### 1 Q: Is there any merit to Mr. Murray's contention?

A. No. It is important to note that a cost of equity estimate of 6.96 percent is significantly lower than any authorized return for a natural gas utility since at least 1980 in a jurisdiction with a comparable regulatory framework to Missouri. A return of 6.96 percent is clearly unreasonable and over 250 basis points lower than Mr. Murray's own ROE recommendation in this proceeding, and which clearly would not satisfy the comparable return standard of *Hope* and *Bluefield*.

#### VI. CAPM ANALYSIS

- Q: What are the positions of Dr. Won and Mr. Murray regarding your CAPManalyses?
- A. Each of these witnesses contend that the market return used in my CAPM analysis is unreasonable. Specifically:
  - Dr. Won suggests that the calculation of the market return should exclude companies that do not pay dividends and should not rely on short-term growth rates.<sup>47</sup> Dr. Won states that when companies that do not pay dividends are removed from the market return calculation, and his two-step DCF approach is also applied to the derivation of the market return, the result is a market return of 10.02 percent. Dr. Won contends that when this market return of 10.02 percent is applied to my CAPM, the resulting cost of equity would be 8.79 percent.<sup>48</sup>
  - Mr. Murray states that he is unaware of any authoritative sources that calculate the market return such as I have done (i.e., using a constant growth DCF model with projected earnings growth rates as the estimate of

13

14

15

16

17

18

19

20

21

22

23

Won Rebuttal, at 14.

<sup>&</sup>lt;sup>48</sup> *Id.*, at 17; see also Dr. Won's workpapers titled "1 Summary," "4 CAPM," and "6 Mkt Return."

Α.

growth).<sup>49</sup> Mr. Murray states that the sources he has reviewed recommend using a growth rate no higher than the growth rate of GDP when estimating the long-term return for the market.<sup>50</sup> Finally, Mr. Murray asserts that the Wilshire 5000, which is an index of the value of all American stocks traded in the United States, would be approximately 40 times the value of GDP in 50 years if the index grew at the earnings growth rate that I have relied on to calculate my market return.<sup>51</sup>

# Q: Do you agree with Dr. Won's proposed adjustment to your market return calculation to remove non-dividend paying companies?

A. No. While Dr. Won attempts to recalculate the market return used in my CAPM analysis by excluding non-dividend paying companies, his calculation contains an error. Therefore, neither his adjustment to my market return nor his CAPM result of 8.79 percent based on that incorrect market return can be relied upon.

Q: Please explain the error in Dr. Won's re-calculation of your market return calculation, excluding non-dividend paying companies.

The market return calculation relied upon in my direct testimony, which Dr. Won adjusts and then uses in his modifications to my CAPM and ECAPM analyses, is a market return weighted by the market capitalization of the companies in the S&P 500 Index. However, there is an error in Dr. Won's adjustment to remove non-dividend paying companies. Specifically, as shown on Dr. Won's rebuttal testimony workpaper "6 Market Return," his calculation does not properly reflect the weightings of the companies in the market return when he attempts to remove the non-dividend

<sup>&</sup>lt;sup>49</sup> Murray Rebuttal, at 23.

<sup>&</sup>lt;sup>50</sup> *Id*.

<sup>&</sup>lt;sup>51</sup> *Id.*, at 24.

Α.

paying companies. Therefore, his adjusted market return of 10.02 percent is incorrect. In order for this calculation to be performed correctly, it is necessary that the dividend yield and growth rate are weighted by the market capitalization of the companies that are included in the calculation. In other words, when the non-dividend paying companies are removed from the calculation, the market capitalization of the non-dividend paying companies also must be removed from the weighting factor as it affects both the dividend yield and growth rate.

# Q: Can you provide a specific example that demonstrates the error in the market weightings in Dr. Won's market return calculation?

Yes. While I disagree with removing the non-dividend paying companies from the market return calculation, I can provide an example of the error that resulted when Dr. Won attempted to remove these companies from his estimated market return. As shown on his workpaper "6 Market Return," the company AutoZone Inc. ("AZO") does not have an estimated dividend yield. When removing AZO from the calculation, Dr. Won should have also removed AZO from his weighting of the companies by market capitalization. However, as shown on his workpaper, Dr. Won did not remove AZO but rather has incorrectly included the company in the overall index weighting. While AZO is one example, this same error also applies for numerous additional companies in the S&P 500 where Dr. Won has failed to consistently remove non-dividend paying companies consistent with his stated methodology.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

Α.

### Q: Do you agree with Dr. Won's application of the two-step DCF when adjusting your calculation of the market return?

No. Dr. Won's application of the two-step DCF to his recalculation of my market return is not appropriate for several reasons. First, it is inconsistent with the method that the Federal Energy Regulatory Commission ("FERC") uses to calculate the market return used in the CAPM analysis, even though Dr. Won cites the FERC in his direct testimony to support his use of a two-step DCF analysis to estimate the cost of equity for the Company. Specifically, Dr. Won calculates the dividend yield component of the market return in the same general manner as I have done (although, as noted, he removes only a portion of the non-dividend paying companies), but he applies a two-step DCF for purposes of calculating the growth rate component of the market return. For his two-step DCF, Dr. Won calculates the growth rate by applying a weight of 80.00 percent to his derived growth rate of the S&P 500 Index (which, as just discussed, was derived incorrectly) and applying a weight of 20.00 percent to the GDP growth rate of 3.90 percent that he assumes in his CAPM analysis. Dr. Won does not discuss in his testimony why or how this twostep DCF approach to calculating the growth rate component of the market returns is appropriate, but rather simply states that, "[w]ith more reasonable assumptions, such as a market return of 10.02%," my average CAPM result would be 8.79 percent.<sup>52</sup> Thus, Dr. Won fails to acknowledge that the FERC has continued to rely on the constant growth DCF model to calculate the market return such as I have

Won Rebuttal, at 14 and 17.

done in my CAPM analyses, not the use of a two-step DCF model using GDP growth as suggested by Dr. Won:

We also continue to find that the CAPM should use a one-step DCF for its risk premium. This is because the rationale for using a two-step DCF methodology for a specific group of utilities does not apply when conducting a DCF study of the dividend-paying companies in the S&P 500, as the Commission found in Opinion Nos. 531-B and 569. A long-term component is unnecessary because of the regular updates to the S&P 500, which allows it to continue to grow at a short-term growth rate and because S&P 500 companies include stocks that are both new and mature, the latter of which have a moderating effect on the short-term growth rates.<sup>53</sup>

In addition, the U.S. Court of Appeals for the District of Columbia addressed this issue in its review of FERC Opinion No. 569-B. In the Court's decision, it acknowledged that the FERC has relied on the use of EPS growth rates in the calculation of the market return on the S&P 500 because the S&P 500 is regularly updated to include companies with high market capitalization and it includes companies at all stages of growth, including lower and higher growth potential. The Court determined that FERC's rationale for using projected EPS growth rates was sufficient and rejected the challenge to this assumption.<sup>54</sup>

Second, not only does Dr. Won utilize a two-step DCF to calculate the market return, but he also does so assuming a GDP growth rate of 3.90 percent, which, as

Ass'n. of Businesses Advocating Tariff Equity, et. al. v. Midcontinent Indep. Sys. Operator, Inc., et. al., 171 FERC ¶ 61,154 (2020) ("Opinion No. 569-A"), at ¶ 85; emphasis added; footnotes omitted.

<sup>&</sup>lt;sup>54</sup> MISO Transmission Owners v. FERC, 45 F.4<sup>th</sup> 248, 259-60, (D.C. Cir. 2022).

2

3

4

Α.

12

13

14

15

16

17

18

19

discussed in my rebuttal testimony, is inconsistent with the approach for determining a long-term growth rate as cited by *Morningstar*<sup>55</sup> as well as Dr. Morin, who is referenced by Dr. Won as support for the use of a GDP growth rate in the DCF model.

### Q: What are your conclusions regarding Dr. Won's adjustments to your CAPMand ECAPM analyses?

A. As noted previously, there are fundamental errors with Dr. Won's adjustment to market return that render his recalculation of the results of my CAPM and ECAPM analyses unusable.

# 10 Q: Have you corrected Dr. Won's calculation of the market return to properly 11 reflect the exclusion of non-dividend paying companies?

Yes. Schedule AEB-SR1, Attachment 1, pages 1 through 12 present the market return calculation as filed in my direct testimony of 12.07 percent and Dr. Won's erroneous adjustment to my market return of 10.02 percent, respectively. However, as shown on Schedule AEB-SR1, Attachment 1, pages 13 through 18, while I do not agree with excluding non-dividend paying companies from the calculation of the overall market return, I correct the errors in Dr. Won's market return calculation and remove Dr. Won's application of the two-step DCF so the calculation of the market return is consistent with the methodology relied on by FERC. As shown on

<sup>&</sup>lt;sup>55</sup> Bulkley Rebuttal, at 47-48.

Schedule AEB-SR1, Attachment 1, page 13, this analysis demonstrates that my market return is not an "extreme outlier" as Dr. Won suggests.

Specifically, as shown on Schedule AEB-SR1, Attachment 1, page 13, when Dr. Won's market return is reasonably adjusted to (1) remove non-dividend paying companies correctly from the market return calculation; and (2) rely on a constant growth DCF analysis instead of a two-step DCF analysis, the market return is 12.05 percent, only 2 basis point lower than my calculation of the market return that includes both dividend paying and non-dividend paying companies. Therefore, when the error in Dr. Won's analysis is corrected and the constant growth DCF model is applied consistent with the methodology relied on by FERC, the resulting projected market return supports my analyses and demonstrates that my market return is not "unreasonably high" as Dr. Won contends.<sup>56</sup>

# Q: How would the results of your CAPM analyses change if you relied on this adjusted market return calculation?

A. As shown on Schedule AEB-SR1, Attachment 3, when relying on a fully corrected market return of 12.05 percent, the results of the CAPM would be 10.45 percent, which demonstrates that the Company's requested ROE of 10.25 percent is reasonable.

Won Rebuttal, at 13.

- Q: Do you agree with Dr. Won and Mr. Murray that the forward-looking market risk premium in your CAPM analysis is overstated?
- No. The market risk premium is the difference between the market return and the risk-free rate. As discussed, the market return used in my CAPM analysis is reasonable, consistent with the range established by historical market return data, <sup>57</sup> and has been relied upon in other regulatory jurisdictions. Specifically, Figure 4 shows that my market return falls towards the middle of the distribution of historical annual returns.

<sup>&</sup>lt;sup>57</sup> Bulkley Direct, at 32-33.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

14 12.07% 12 10 8 6 2 0 (- 5%, 0%] 25%] 30%] 35%] (0%, 5%] 40%] [%09 [-35%, -30%] [-30%, -25%] - 25%, - 20%] - 20%, - 15%] - 15%, - 10%] (- 10%, - 5%] 10%, 15%] 15%, 20%] 20%] 55%] [5%, 10%] 20%, 25%, 30%, 35%, 40%, 50%,

FIGURE 4: ANNUAL MARKET RETURNS DISTRIBUTION 1926-2024

Moreover, the following summarizes the use of methodologies that are consistent with the approach I relied upon to develop the market risk premium in my CAPM:

- In a recent cost of capital proceeding for the electric utilities, the California Public Utilities Commission noted that all parties recognized that historical market returns and economically logical projections fall within the range of 12.00 percent.<sup>58</sup> This recognition is consistent with the market return utilized in the initial CAPM analyses in my direct testimony (*i.e.*, 12.07 percent) and in the updated CAPM analyses in my rebuttal testimony (*i.e.*, 12.15 percent).
- As just discussed, the FERC has supported the use of a constant growth DCF model to estimate the market return in the CAPM such as I have done, and the U.S. State Court of Appeals for the District of Columbia has addressed the concern regarding the use of projected EPS growth rates in a constant growth DCF model to estimate the market return.

<sup>&</sup>lt;sup>58</sup> California Public Utilities Commission, Application 22-04-008, *et al.*, Decision 22-12-031, at 23, December 15, 2022.

12

13

• Various state utility regulatory commissions have also supported the use of a constant growth DCF model to estimate the market return in the CAPM. As shown in Figure 5, the Staff of the Illinois Commerce Commission ("ICC"), the Bureau of Investigation and Enforcement ("I&E") of the Pennsylvania Public Utility Commission ("Pennsylvania PUC"), and the Staff of the Maine Public Utilities Commission ("Maine PUC") have each supported the forward-looking market risk premium, and the market return estimates using the constant growth DCF model. In each of these cases, the respective regulatory commission relied on the estimated CAPM results by these parties to determine the authorized ROE and did not dispute the use of the constant growth DCF model to calculate the market return.

FIGURE 5: REGULATORY COMMISSIONS - MARKET RETURN ESTIMATED USING THE CONSTANT GROWTH DCF MODEL

| Intervening<br>Party      | Company                       | Docket No.                    | Market Return   | Date of<br>Order | Did the<br>Commission<br>Rely on the<br>Party's CAPM?           |
|---------------------------|-------------------------------|-------------------------------|---|------------------|---|
| Staff of the ICC          | North Shore<br>Gas Company    | Docket 20-<br>0810            | CGDCF of the<br>dividend-paying<br>companies in the S&P<br>500 (11.95%) <sup>59</sup> | 9/8/21           | Yes <sup>60</sup>   |
| I&E                       | Aqua<br>Pennsylvania,<br>Inc. | Docket No. R-<br>2021-3027385 | CGDCF of the <i>Value Line</i> Universe and S&P 500 (12.14%) <sup>61</sup>            | 5/12/22          | Yes, the PPUC placed primary weight on I&E's CAPM <sup>62</sup> |
| Staff of the<br>Maine PUC | Northern<br>Utilities, Inc.   | Docket No.<br>2019-00092      | CGDCF of the dividend-paying companies in the S&P 500 (11.33% - 13.49%) <sup>63</sup> | 4/1/20           | Yes <sup>64</sup>   |

14

15

16

17

18

 Finally, given the fact that the expected market return estimated in my direct testimony is consistent with the range of annual equity returns that have been observed over the past century, and the expected market return estimated in my rebuttal testimony is only slightly higher, my market return

<sup>&</sup>lt;sup>59</sup> Illinois Commerce Commission, Docket No. 20-0810, Order, September 8, 2021, at 71.

<sup>60</sup> *Id.*, at 86-87.

Pennsylvania Public Utility Commission, Aqua Pennsylvania, Inc., Opinion and Order, Public Meeting held May 12, 2022, at 147.

<sup>62</sup> *Id.*. at 178.

Maine Public Utilities Commission, Docket No. 2019-00092, Bench Analysis, October 29, 2019, at 21.

<sup>64</sup> *Id.*, Order Part II, April 1, 2020, at 58.

continues to be consistent with the frequency of historical market returns at or above my market return estimate, further demonstrating that it my estimate is a reasonable expectation for the market.

All of these factors support the market return and market risk premium used in my CAPM and ECAPM analyses and invalidate the claim made by Dr. Won and Mr. Murray regarding the reasonableness of my market return and thus market risk premium.

Q: What is your response to Mr. Murray's contention that he is not "aware of any authoritative sources" that use your approach to estimating the market return?<sup>65</sup>

I do not believe that is a true statement. I have filed testimony in this jurisdiction in numerous cases in response to Mr. Murray and have discussed the regulatory support for the calculation of the market return that I have relied upon. 66 Accordingly, as just discussed, there are multiple authoritative sources that have relied on the constant growth DCF to estimate the market return in the CAPM of which I am aware and previously have made Mr. Murray aware.

<sup>65</sup> Murray Rebuttal, at 23.

See, e.g., Missouri Public Service Commission, Case No. ER-2022-0337, Surrebuttal Testimony of Ann E. Bulkley, March 13, 2023, at 35-36; Missouri Public Service Commission, Case No. WR-2022-0303, Surrebuttal Testimony of Ann E. Bulkley, at 46-48.

Α.

Q: How do you respond to Dr. Won's view that your market risk premium is an "extreme outlier"?<sup>67</sup>

I disagree. The decisions of other regulators that I have just discussed contradict Dr. Won's conclusion that my market return is an outlier. Further, the estimates that Dr. Won summarizes in Figure 2<sup>68</sup> of his rebuttal testimony have been addressed in my rebuttal testimony since they are used in Dr. Won's CAPM analyses, and in part in Mr. Murray's CAPM analyses.<sup>69</sup> The additional estimates that he provides in his rebuttal testimony are misleading, in that they were proposed by parties in a FERC proceeding, but not accepted by the FERC. Therefore, Dr. Won has provided no evidence demonstrating that a regulator has relied on these estimates.

Specifically, Dr. Won presents forward-looking market risk premium estimates from *Value Line*, Duff & Phelps (now *Kroll*), and American Appraisal in Figure 2 of his rebuttal testimony, and he cites the FERC's Opinion No. 569 as the source for those estimate. The However, Dr. Won fails to acknowledge that the market risk premia that he cites from Opinion No. 569 were not agreed upon by the FERC in that proceeding. Rather, these estimates were raised by a specific intervenor group in that proceeding and summarized as such in Opinion No. 569 as part of the summary

Won Rebuttal, at 15.

*Id.*, 16

<sup>&</sup>lt;sup>69</sup> Bulkley Rebuttal, at 52-65.

Won Rebuttal, at 15, footnote 52.

of the record.<sup>71</sup> The FERC did not agree with that intervenor's position in calculating the market return and thus market risk premium, and it instead adopted an approach that is similar to the methodology I use to estimate the market risk premium.<sup>72</sup> Moreover, Opinion No. 569 was issued in November 2019, approximately five years ago, which means that the specific estimates of the market risk premia that he summarizes, while not supported by FERC, are also outdated and not relevant for purposes of determining the cost of equity in the current proceeding.

Q: Dr. Won also references the market risk premium resulting from a 2021 survey conducted by the IESE Business School. Is this supportive of Dr. Won's position?

A. No. Dr. Won ignores the fact that the authors of this study caution against the use of survey data estimate the market return and market risk premium. Specifically, the survey notes:

We can find out the REP [Required Equity Premium] and the EEP [Expected Equity Premium] of an investor by asking him, although for many investors the REP is not an explicit parameter but, rather, it is implicit in the price they are prepared to pay for the shares. However, it is not possible to determine the REP for the market as a whole, because it does not exist: even if we knew the REPs of all the investors in the market, it would be meaningless to talk of a REP for the market as a whole. There is a distribution of REPs and we can only say that some percentage of investors have REPs contained in

Ass'n. of Businesses Advocating Tariff Equity, et al. v. Midcontinent Indep. Sys. Operator, Inc., et. al., 169 FERC ¶ 61,129 (2019) ("Opinion No. 569"), at ¶ 249.

<sup>&</sup>lt;sup>72</sup> *Id.*, at ¶ 260-261.

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

Α.

a range. The average of that distribution cannot be interpreted as the REP of the market nor as the REP of a representative investor.<sup>73</sup>

# Q: Have you reviewed any studies that have evaluated the reasonableness of market risk premium estimates?

Yes. As discussed in my rebuttal testimony, I reviewed a study conducted by the Federal Reserve Bank of New York which examined 20 methodologies over the period 1960 through 2013 for estimating the market risk premium and showed that: (1) the 20 methodologies produced a market risk premium range of -1 percent to 14.5 percent and (2) the principal component analysis of the 20 models produced a range for the market risk premium of approximately 0 percent to over 10 percent from 1960 through 2013, with the market risk premium consistently exceeding 10 percent following the financial crisis of 2008/09 through the end of the study period.<sup>74</sup> Further, as I also discuss in my rebuttal testimony, the Federal Reserve Bank of New York concluded that the market risk premium is higher during period of increased inflation which is consistent with current market conditions as inflation currently remains above the Federal Reserve's target of 2 percent and inflation is likely to remain elevated over the near-term as a result of the significant tariffs implemented by the Trump Administration.<sup>75</sup> Therefore, the results of the Federal Reserve Bank of New York study demonstrate that both the market risk premia

Pablo Fernandez, Sofia Bañuls and Pablo F. Acin, "Survey: Market Risk Premium and Risk-Free Rate used for 88 countries in 2021," IESE Business School, June 2021, at 10.

Bulkley Rebuttal, at 97-98; Fernando Duarte and Carla Rosa, "The Equity Risk Premium: A Review of Models," Federal Reserve Bank of New York, 2015.

Id., at 99-100; Fernando Duarte and Carla Rosa, "The Equity Risk Premium: A Review of Models," Federal Reserve Bank of New York, 2015.

estimates in my direct testimony, which range from 7.84 percent to 7.95 percent, as
well as the market risk premia estimates in my rebuttal testimony, which range from
7.42 percent to 7.85 percent, are reasonable.

## Q: Please summarize the analysis that Mr. Murray performed using the Wilshire 5000 Index.

A. Mr. Murray calculates the market capitalization of the Wilshire 5000 index in 50 years using the earnings growth rate that I relied on to calculate my market return, as well as GDP in 50 years using a long-term GDP growth rate of 4.00 percent. Mr. Murray concluded that in 50 years the value of the Wilshire 5000 would be approximately 40 times higher than GDP, which he notes is unreasonable.<sup>76</sup>

#### Q: Is this analysis meaningful?

12 A. No. First, Mr. Murray ignores the fact that the annualized ten-year total return on 13 the Wilshire 5000 as of March 31, 2025, was 11.27 percent, which is generally 14 consistent with the market return estimate in both my direct and rebuttal testimonies.

Further, Mr. Murray's comparison is entirely dependent on his selection of an assumed GDP growth rate of 4.00 percent.<sup>77</sup> This analysis has no probative value, as he has not provided any support for his GDP growth rate, which is fundamental to the point of his analysis. It is simply a demonstration in compound annual growth

11

15

16

17

18

Murray Rebuttal at 24.

<sup>&</sup>lt;sup>77</sup> *Id*.

Α.

at two different rates. As shown previously in Schedule AEB-R1, Attachment 9 of my rebuttal testimony, Mr. Murray's assumed growth rate is significantly below a long-term projected GDP growth rate of 5.50 percent.

Q: Are you aware of additional information that addresses Mr. Murray's assumption that growth in the overall market is constrained over the long-term by the growth rate in U.S. GDP?

Yes. A recent Morgan Stanley article challenges the link between GDP and earnings in the context of the Buffett indicator (*i.e.*, ratio of the market value of all publicly-traded equity securities to gross national product ("GNP")). In a modern global economy, as "U.S. companies now get more of their sales from outside the U.S. than they did in the past. GDP does not include those sales." A recent Wellington Management article provides an intuitive example of this disconnect between GDP and EPS can be observed between the U.S. and China. "China EPS growth has stagnated while U.S. EPS growth has been exceptional, despite China's economy growing at twice the speed of the U.S. ... When EPS is diluted by additional company share issuance, it can further exacerbate this misalignment with GDP growth." U.S. companies selling goods and services to China and other countries contribute to EPS but not GDP. Both earnings derived from international

Michael J. Mauboussin and Dand Callahan, "Charts from the Vault," Morgan Stanley Investment Management, Counterpoint Global Insights, December 5, 2024.

N. Samouihan and A. King, "Chart in focus: The need to differentiate market growth from macro growth," Wellington Management, September 2024.

- sales and share issuances/buybacks weaken the link between EPS growth and GDP growth.
- Furthermore, Economist Martin Feldstein observed that with the rise of services in the economy, GDP "official measures provide at best a lower bound on the true real growth rate with no indication of the size of the underestimation."<sup>80</sup>
- Accordingly, the referenced articles support my conclusion that it is not appropriate to assume that the long-term growth of the S&P 500 is constrained by U.S. GDP growth.

#### VII. ECAPM ANALYSIS

- 10 Q: What are the positions of Dr. Won and Mr. Murray regarding your ECAPM
  11 analysis?
- A. Dr. Won states that my ECAPM analyses rely on a market risk premium that is too high. 81 In addition, Dr. Won disagrees with the adjustment made in the ECAPM to account for the tendency of the CAPM to underestimate the cost of equity for companies with betas less than 1.00.82 Specifically, Dr. Won states that there is a fairly wide range of alpha estimates between academic studies primarily due to the methodologies employed and time periods used which means the estimates of

9

Martin Feldstien, "Underestimating the real growth of GDP, personal income, and productivity," *Journal of Economic Perspectives*, 31(2), at 145-164 (2017).

Won Rebuttal, at 17.

<sup>&</sup>lt;sup>82</sup> *Id*.

Α.

alpha are not strictly comparable.<sup>83</sup> Further, Dr. Won contends that Dr. Morin presented other studies that produced returns between -9.61 percent to 13.56 percent, which Dr. Won claims means that the CAPM overestimated the return in some instances and that such findings do not lend credibility to the use of the ECAPM.<sup>84</sup>

Mr. Murray's response to my ECAPM simply reiterates his concern regarding the market risk premium of my CAPM, which I have already addressed in this testimony; however, he does not specifically discuss the ECAPM.<sup>85</sup>

#### Q: Do you agree with Dr. Won's conclusions on the ECAPM studies?

No, I do not. The concept of the ECAPM and the conclusion that the risk-return relationship is flatter than predicted by the CAPM is generally accepted in financial literature. In *Modern Regulatory Finance*, Dr. Morin provides a list of studies each of which concludes that the CAPM understates the returns for companies with betas less than 1.0 (which is typically utilities) and overstates the return for companies with betas greater than 1.0.86 It is these empirical studies that formed the basis of the development of alternative models such as the ECAPM that would better predict the risk return-relationship observed when reviewing actual market data.

*Id.*, at 17-18.

<sup>&</sup>lt;sup>84</sup> *Id.*, at 18.

<sup>85</sup> Murray Rebuttal, at 24-25.

<sup>&</sup>lt;sup>86</sup> Roger A. Morin, *Modern Regulatory Finance*, Public Utilities Reports, Inc., 2021, at 206-208.

Academics and researchers use the equation shown below to determine the value of the constant term ( $\alpha$ ) or "alpha factor" using historical market data:

 $K_e = r_f + \alpha + \beta ((r_m - r_f) - \alpha)$  [1]

4 Where:

 $K_e$  = the required market COE;

 $\alpha$  = a constant term;

 $\beta$  = beta coefficient of an individual security;

r<sub>f</sub> = the risk-free ROR; and

r<sub>m</sub> = the required return on the market as a whole.

There have been numerous additional studies published to estimate the value of the constant term or alpha factor in the ECAPM equation. Figure 6 provides the list of studies summarized by Dr. Morin and referenced by Dr. Won as support for his conclusion that the ECAPM is not credible. However, Dr. Won's conclusion improperly masks the fact that, as shown, six of the eight studies estimated positive values of the constant term, which indicates that the consensus among the studies is that the CAPM understates the observed return. Additionally, among the six studies that estimate only positive values of the constant term, the range of the constant term was 1.63 percent to 13.56 percent. Dr. Morin relied on a constant term in the range of 1 to 2 percent to develop the 0.25 and 0.75 factors included in the ECAPM, and considering the range of the constant term provided in Figure 6, it would appear Dr. Morin's estimate is conservative.

FIGURE 6: EMPIRICAL EVIDENCE ON THE ALPHA FACTOR (CONSTANT TERM)87

| Author                                   | Range of Alpha   |
|--|------------------|
| Fischer (1993)                           | -3.6% to 3.6%    |
| Fischer, Jensen and Scholes (1972)       | -9.61% to 12.24% |
| Fama and McBeth (1972)                   | 4.08% to 9.36%   |
| Fama and French (1992)                   | 10.08% to 13.56% |
| Litzenberger and Ramaswamy (1979)        | 5.32% to 8.17%   |
| Litzenberger, Ramaswamy and Sosin (1980) | 1.63% to 5.04%   |
| Pettengill, Sundaram and Mathur (1995)   | 4.6%             |
| Morin (1989)                             | 2.0%             |

#### Q: Is Dr. Won's recalculation of your ECAPM analyses reasonable? 88

No. Dr. Won's recalculation relies on the same incorrect market return and market risk premium "adjustment" that he developed in response to my CAPM. As a result, his ECAPM is unusable as an estimate of the cost of equity. Further, as summarized on Schedule AEB-SR1, Attachment 3, when the error in Dr. Won's recalculation of my ECAPM analysis is corrected, and the constant growth DCF model is applied to calculate the market return consistent with the methodology relied on by FERC, the overall resulting cost of equity is 10.85 percent, or higher than the Company's proposed ROE in this proceeding.

2

3

4

5

6

7

8

9

10

11

Α.

<sup>&</sup>lt;sup>87</sup> *Id.*, at 222.

Won Rebuttal, Workpaper "4 CAPM."

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

#### VIII. RISK PREMIUM ANALYSIS

- Q: What are the positions of Dr. Won and Mr. Murray regarding your Bond Yield

  Plus Risk Premium ("BYRP" or "Risk Premium") analysis?
- A. These witnesses offer the following positions regarding the Risk Premium approach generally, and my analyses specifically:
  - Dr. Won's primary concerns with the BYRP analysis are that: (1) the analysis is determined based on the yield on the 30-year Treasury bond yield, which is affected by government intervention through the Federal Reserve's monetary policy and not solely through the financial market; (2) the 30-year Treasury yield increased too much as a result of the COVID-19 pandemic to accurately estimate an ROE; and (3) the relationship between the 30-year Treasury bond yield and the ROE is not constant over time. <sup>89</sup> In addition, Dr. Won states that he agrees with the FERC that the BYRP is likely to provide a less accurate current cost of equity estimate than the DCF or CAPM models because it relies on previous ROE determinations that may not be directly determined by a market-based methodology. <sup>90</sup>
  - Mr. Murray contends that I have concluded from my BYRP analysis that ROEs have not changed as much as interest rates, and thus an adjustment needs to be made to recognize that regulators have been hesitant to adjust authorized ROEs as much as interest rates would suggest. Mr. Murray states that this is circular because the regression coefficient is dependent on regulatory commissions' decisions and not on market required returns.<sup>91</sup>

#### Q: Is there any merit to Dr. Won's concerns that your BYRP analysis?

A. No. Regardless of my use of authorized ROE and Treasury bond yield data back to 1980 and the changes in that data over time, the regression analysis that I have conducted nonetheless demonstrates a strong inverse relationship between interest rates and the equity risk premium for utilities. As shown in Schedule AEB-R1,

<sup>89</sup> Won Rebuttal, at 20-22.

<sup>&</sup>lt;sup>90</sup> *Id.*, at 22.

<sup>91</sup> Murray Rebuttal, at 25.

Α.

Attachment 6 of my rebuttal testimony, the regression in my BYRP analysis has an R<sup>2</sup> of approximately 0.85, which means that 85 percent of the variation in historical implied utility equity risk premia can be explained by changes in interest rates. The regression indicates that there indeed exists a strong negative correlation between utility equity risk premia and interest rates, and that the regression equation is an effective tool for predicting authorized ROEs at specified interest rate levels, whether current or projected interest rates. Although I disagree with his specification of the BYRP, Dr. Won's BYRP analysis also shows a strong negative relationship between interest rates and the equity risk premium for utilities.

# Q: Is Dr. Won's criticism of your BYRP analysis inconsistent with his own BYRP analysis?

Yes. In Figure 3 of Dr. Won's rebuttal testimony, he claims that the results of my BYRP analysis are unreliable because of a divergence in the relationship between authorized ROEs and 30-year Treasury bond yields post-COVID. Provided ROEs and 30-year Treasury bond yields post-COVID. Provided ROEs and utility below, the same divergence is present in the authorized ROE and utility bond yield data that Dr. Won relies on for his BYRP analysis. Further, if Dr. Won believes that such a divergence in the authorized ROE and utility bond yield data produces an unreliable result, then he has invalidated the result of his own BYRP analysis. More importantly, given that Dr. Won's ROE recommendation

<sup>&</sup>lt;sup>92</sup> Won Rebuttal, at 20-21.

<sup>93</sup> Won Direct, at 46-48.

2

3

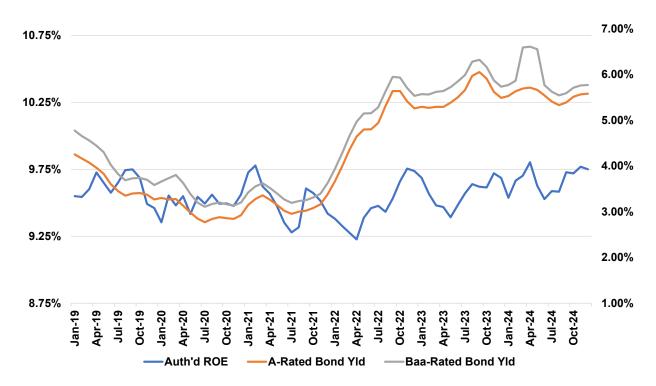
4

5

6

in this proceeding is equivalent to the result of his BYRP analysis, he has also invalidated his ROE recommendation in this proceeding.





# Q: Is Mr. Murray's position regarding your BYRP analysis consistent with his own analyses?

A. No. While Mr. Murray suggests that the relationship between authorized ROEs and bond yields does not reflect investor behavior, 95 he evaluates authorized ROEs and long-term Treasury bond yields as support for his recommended ROE. 96 Therefore,

Data sourced from Dr. Won's "BYRP Model.xls" workpaper.

<sup>95</sup> Murray Rebuttal at 25.

<sup>&</sup>lt;sup>96</sup> Murray Direct at 3-6.

to the extent that Mr. Murray believes that my BYRP analysis cannot be relied upon,

2 he invalidates his own analyses.

3

4

5

6

7

8

9

10

11

12

13

14

15

It is unquestionable that both credit rating agencies and investors consider the

authorized ROE data in their determination of the valuation of utility stocks. As I

discussed in my direct and rebuttal testimonies, both credit rating agencies and

investors have responded negatively to authorized ROEs deemed to be too low.97

Therefore, the relationship between recently authorized ROEs and the prevailing

interest rates at the time that the ROE was authorized is reasonable to consider

when setting the ROE in the context of a rate proceeding.

Lastly, while Mr. Murray criticizes my BYRP analysis for not reflecting a market

required return, his own "rule of thumb" risk premium analysis is simply that – a rule

of thumb - which is certainly not derived based on current or projected market

conditions.

Therefore, for all of these reasons, there is no basis to Mr. Murray's criticism

regarding my BYRP analysis.

<sup>97</sup> Bulkley Direct, at 11; Bulkley Rebuttal, at 27-34.

#### IX. BUSINESS RISK FACTORS

Q: What are the positions of Dr. Won, Mr. Majors, and Mr. Murray regarding the Company's business risks and the effect on the Company's ROE?

Dr. Won states that he considers Ameren Missouri's business and regulatory risks when recommending his ROE in this proceeding; however, he alleges that I have a biased approach that inflates the Company's business and regulatory risks. 98 Furthermore, while acknowledging that the Company does have some regulatory lag and time limits, Dr. Won contends that Ameren Missouri does not have greater risk than the proxy group, stating that the Company takes advantage of several alternative regulatory mechanisms such the Delivery Charge Adjustment ("DCA") and that he finds no evidence that Ameren Missouri has significantly greater risk than the proxy group that requires an upward adjustment to the ROE to be authorized in this proceeding. 99 Finally, Dr. Won opposes my consideration of small size risk because while Ameren Missouri's natural gas operations may be small, Ameren Missouri's natural gas operations do not operate as a financially independent entity as Ameren Missouri's natural gas and electric operations operate as one entity in terms of financing. 100

Mr. Majors states that Ameren Missouri has several alternative regulatory mechanisms such as a Weather Normalization Adjustment Rider ("WNAR") and a

<sup>98</sup> Won Rebuttal, at 27.

<sup>&</sup>lt;sup>99</sup> *Id*., at 30.

<sup>100</sup> Won Rebuttal, at 28

Infrastructure System Replacement Surcharge ("ISRS") that mitigate regulatory lag and reduce the business risk for the Company. As a result, Mr. Majors recommends that the Commission consider the effect of the Company's mechanisms when determining the return for Ameren Missouri; however, he acknowledges that he has not evaluated other aspects of Ameren Missouri's business risk nor has he conducted a comparison of the Company's business risks relative to "any of its peers." Rather, he refers to Dr. Won for an assessment of the effect of the Company's business risk on the cost of equity. On the cost of equity.

Mr. Murray disagrees with my consideration of the small size of Ameren Missouri's natural gas operations because it is based on the "hypothetical" assumption that Ameren Missouri's natural gas operations are a stand-alone entity. <sup>104</sup> Further, Mr. Murray contends that my proxy group "contains companies that have smaller market capitalizations than the broader market" and suggests I could have weighted my DCF estimates to account for smaller companies. <sup>105</sup> Finally, Mr. Murray states that in my assessment of business risk, I have failed to recognize that my proxy group contains companies with significant non-regulated business risk exposure. <sup>106</sup>

<sup>&</sup>lt;sup>101</sup> Majors Rebuttal, at 3.

<sup>&</sup>lt;sup>102</sup> *Id.*, at 11.

<sup>&</sup>lt;sup>103</sup> *Id.* 

<sup>&</sup>lt;sup>104</sup> Murray Rebuttal, at 26.

<sup>&</sup>lt;sup>105</sup> *Id.*, at 27.

<sup>&</sup>lt;sup>106</sup> *Id.*, at 26.

Α.

Q: What is your response to these witnesses' positions regarding the Company's business and regulatory risks?

Dr. Won, Mr. Majors, and Mr. Murray fail to recognize the purpose for the business risk analysis in the estimation of the appropriate ROE for a company from within the range of cost of equity estimates developed. Since the cost of equity estimates are based on market data for the proxy group companies, which reflects the risk profiles of these companies, it is necessary to evaluate the Company's business and regulatory risk *relative to the proxy group*. This analysis allows the analyst to make a more informed determination as to where, within the range of returns established for the proxy group, the return on equity should reasonably be established.

Neither Mr. Murray nor Mr. Majors evaluate the Company's business and regulatory risks *relative to the proxy group*. Indeed, Mr. Majors acknowledges that he has not conducted a comparison of the Company's business risks relative to "any of its peers" and instead refers to Dr. Won for an assessment of the effect of the Company's business risk on its cost of equity. However, Dr. Won also largely omits this comparative analysis with the exception of his discussion regarding Ameren Missouri's expected capital expenditures as a percentage of net utility plant relative to the average ratio of the proxy group. Mr. Majors simply claims that the Company's business risk has been reduced in absolute terms because of regulatory

Majors Rebuttal, at 11.

Won Rebuttal, at 29-30.

Α.

mechanisms such as the ISRS and WNAR<sup>109</sup> while Dr. Won and Mr. Murray reference the ISRS and DCA as support for their conclusion that the Company does not have greater risk relative to the proxy group. However, the simple existence of regulatory mechanisms provides no information as to *where in the range of market data* the authorized ROE should be established. In contrast, I evaluate various regulatory and business risks to which Ameren Missouri is subject relative to the proxy group in my direct testimony and conclude that the Company has relatively greater regulatory and business risk than the proxy group.<sup>110</sup>

Q: Do you agree with Dr. Won and Mr. Murray that the risk of Ameren Missouri's natural gas operations should not be considered on a stand-alone basis to determine the ROE?

No, I do not. Based on the stand-alone principle of ratemaking, regulated rates should be based on the risks and benefits of the regulated utility, not its investors, parent or affiliates. 111 Many state regulatory commissions have determined that the objective of a rate case is to establish the cost of equity for the jurisdictional utility as if it were a stand-alone entity. In that way, Commissions are able to insulate ratepayers from the risks associated with those higher risk non-jurisdictional activities.

Since Dr. Won himself did not perform the proper comparative analysis to the business risk of the proxy group, Mr. Majors' opinions about risk reduction are completely irrelevant.

Bulkley Direct, at 39-58.

Morin, Dr. Roger A. New Regulatory Finance. Public Utilities Reports, Inc., 2006, at 215-216.

As a result, the fact that Ameren Missouri also has electric operations in Missouri and is affiliated with Ameren Corp is not an appropriate consideration in this rate proceeding. Furthermore, even given the fact that Ameren Missouri may have greater access to capital, Ameren Missouri's natural gas operations still need to compete against electric operations in Missouri and other Ameren Corp subsidiaries to have capital allocated to it over another subsidiary, making the size of Ameren Missouri's natural gas operations a relevant determination in capital allocation.

# Q: Does Mr. Murray recommend an approach for considering the small size risk of a company?

A. Yes. Mr. Murray notes that the proxy group does contain companies that are smaller than the broader and therefore, to recognize the risk of small size, I could have placed greater weight on the DCF results of the smaller companies in my proxy group since the DCF results would reflect "all" of the risks of a company through the price an investor is willing to pay for the stock. 112 Although, Mr. Murray contends that the DCF results of the smaller companies in my proxy group do not support a small size premium. 113

<sup>&</sup>lt;sup>112</sup> Murray Rebuttal, at 27.

<sup>&</sup>lt;sup>113</sup> *Id.* 

A.

Q: Do you agree with Mr. Murray's approach of placing greater weight on the DCF results of the smaller companies in the proxy group to account for small size risk?

I do not because as Mr. Murray noted the DCF results would reflect not only a company's risk with respect to small size but also other business and financial risks such that it would not be possible to isolate the specific effect of small size risk. However, as I discussed in my direct testimony, I evaluated the business risks (*i.e.*, small size, regulatory risk, capital expenditures) of the Company relative to the proxy group to determine where amongst the range of results including the DCF the Company's ROE should fall. This approach is similar to the approach recommended by Mr. Murray but it is more appropriate because it considers multiple business risks faced by the Company and the proxy companies as opposed to just size. Further, it does not appear as though Mr. Murray oppose such an approach since, he recommended considering the range of DCF results when considering small size. As discussed in my direct testimony, I concluded that the Company has greater business risk relative to the proxy group warranting an ROE towards the high-end of the range of cost of equity results.

Bulkley Direct, at 6-7

<sup>&</sup>lt;sup>115</sup> Bulkley Direct, at 45, 50, 57-58.

- Q: Mr. Murray contends that you did not consider small size because your recommend ROE for Ameren Missouri's natural gas operations is equivalent to your recommended ROE in the recent proceeding for Ameren Missouri's electric operations. 116 How do you respond?
- Mr. Murray is incorrect. As I noted in my direct testimony in the current proceeding 5 Α. for Ameren Missouri's natural gas operations 117 and my direct testimony in Case No. 6 ER-2024-0319 for Ameren Missouri's electric operations, 118 the 10.25 percent ROE 7 is the company's request and not my recommendation. As I further note in my direct 8 testimony, the Company's request of 10.25 percent is conservative considering 9 current and projected market conditions as well as the business and financial risk of 10 the Company as compared to the proxy group. 119 Therefore, it is misleading for Mr. 11 Murray to state that I have not considered the risk associated with the small size of 12 Ameren Missouri's natural gas operations in Missouri. 13
- Q: Do you agree with Mr. Murray that you have failed to consider the nonregulated business risk exposure of your proxy group?
- A. No. As discussed in my proxy group discussion in Section III, Mr. Murray contends that my proxy group contains significant non-regulated business risk exposure with

<sup>&</sup>lt;sup>116</sup> Murray Rebuttal, at 27

Bulkley Direct, at 8.

Missouri Public Service Commission, Case No. ER-2024-0319, Direct Testimony of Ann E. Bulkley, June 28, 2024, at 9-10.

Bulkley Direct, at 8.

A.

the inclusion of SWX and SR.<sup>120</sup> In developing a proxy group, it is essential to balance the relative risk of the companies included in the proxy group with the overall size of the group, and thus it is always the case that the proxy companies do not have exactly the same risk profile as the subject company. However, as stated in my direct testimony, I have developed the proxy group to ensure that all of the companies used in my cost of equity analyses possess a set of operating and financial risk characteristics that are substantially comparable to Ameren Missouri, and, therefore, provide a reasonable basis to estimate the appropriate cost of equity for the Company. This includes a screening criterion that requires a substantial portion of a utility's total operating income to be from regulated operations.<sup>121</sup>

# Q: What is your conclusion regarding the Company's business and regulatory risks and its effect on the ROE to be authorized in this proceeding?

The results of the cost of equity analyses alone do not provide an appropriate estimate of the cost of equity, and several additional factors must be considered when determining where the Company's cost of equity falls within the range of analytical results. However, Dr. Won, Mr. Majors and Mr. Murray have not evaluated the Company's business and regulatory risk relative to the proxy group. Absent this comparison, there is no basis for either Dr. Won, Mr. Majors or Mr. Murray to comment on the business risk of Ameren Missouri relative to the proxy group.

Note that Dr. Won also includes SWX and SR in his proxy group.

Bulkley Direct, at 20-22.

All else equal, I agree that regulatory mechanisms that reduce a utility's regulatory lag in cost recovery help to mitigate risk. However, in setting the ROE, the data relied upon is based on the risk profile of a proxy group of companies. Therefore, the appropriate analysis for purposes of establishing the Company's ROE in this proceeding is not to identify whether Ameren Missouri has regulatory mechanisms that mitigate its regulatory lag, but rather how does Ameren Missouri's regulatory risk compare to the other companies in the proxy group. Dr. Won, Mr. Majors and Mr. Murray each highlight the regulatory mechanisms that Ameren Missouri has for cost recovery, yet neither evaluates Ameren Missouri's cost recovery risk relative to the proxy group.

- 11 Q: Does this conclude your surrebuttal testimony?
- 12 A. Yes.

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Weighted Average Long-Term Growth Rate [2] 10.45%

S&P 500 Estimated Required Market Return [3] 12.07%

|   |              | [4]                  | [5]              | [6]                      | [7]            | [8]                            | [9]                           | [10]                                  | [11]                                 |
|---|--------------|----------------------|------------------|--------------------------|----------------|--------------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|   |              |                      | [0]              | [0]                      | [-]            |                                | Capitalization                |                                       | Capitalization                       |
| Name  | Ticker       | Shares<br>Outst'g    | Price            | Market<br>Capitalization | Weight in      | Estimated<br>Dividend<br>Yield | Weighted<br>Dividend<br>Yield | Bloomberg<br>Long-Term<br>Growth Est. | Weighted<br>Long-Term<br>Growth Est. |
|   |              |                      |                  | •                        | i ilidex       |                                | rieid                         |                                       | Glowiii Est.                         |
| LyondellBasell Industries NV<br>American Express Co     | LYB<br>AXP   | 325.09<br>710.91     | 98.70<br>258.65  | 32,086<br>183,877        | 0.50%          | 5.43%<br>1.08%                 | 0.01%                         | -8.07%<br>15.74%                      | 0.08%                                |
| Verizon Communications Inc                              | VZ           | 4,209.52             | 41.78            | 175,874                  | 0.48%          | 6.37%                          | 0.03%                         | 0.86%                                 | 0.00%                                |
| Broadcom Inc  | AVGO<br>BA   | 4,654.88<br>616.17   | 162.82<br>173.74 | 757,908<br>107,053       | 2.08%          | 1.29%                          | 0.03%                         | 15.88%<br>38.60%                      | 0.33%                                |
| Boeing Co/The Solventum Corp                            | SOLV         | 172.71               | 64.11            | 11,073                   |                |                                |                               | -2.00%                                |                                      |
| Caterpillar Inc   | CAT          | 484.90               | 356.10           | 172,672                  | 0.47%          | 1.58%                          | 0.01%                         | 8.38%                                 | 0.04%                                |
| JPMorgan Chase & Co                                     | JPM          | 2,845.17             | 224.80           | 639,593                  | 1.75%          | 2.05%                          | 0.04%                         | 4.05%                                 | 0.07%                                |
| Chevron Corp Coca-Cola Co/The                           | CVX<br>KO    | 1,828.92<br>4,309.87 | 147.95<br>72.47  | 270,588<br>312,336       | 0.74%<br>0.86% | 4.41%<br>2.68%                 | 0.03%<br>0.02%                | 7.00%<br>6.36%                        | 0.05%<br>0.05%                       |
| AbbVie Inc  | ABBV         | 1,766.34             | 196.31           | 346,751                  | 0.95%          | 3.16%                          | 0.03%                         | 8.80%                                 | 0.08%                                |
| Walt Disney Co/The                                      | DIS          | 1,813.59             | 90.38            | 163,912                  | 0.45%          | 1.00%                          | 0.00%                         | 18.89%                                | 0.08%                                |
| Corpay Inc  | CPAY         | 69.43                | 315.55           | 21,910                   | 0.06%          | 2 660/                         |                               | 14.87%                                | 0.01%                                |
| Extra Space Storage Inc Exxon Mobil Corp                | EXR<br>XOM   | 211.93<br>4,442.83   | 177.00<br>117.94 | 37,511<br>523,987        | 1.44%          | 3.66%<br>3.22%                 | 0.05%                         | -0.20%<br>5.00%                       | 0.07%                                |
| Phillips 66   | PSX          | 418.57               | 140.31           | 58,729                   |                | 3.28%                          |                               | -9.00%                                |                                      |
| General Electric Co                                     | GE           | 1,084.31             | 174.62           | 189,342                  | 0.400/         | 0.64%                          | 0.000/                        | 29.30%                                |                                      |
| HP Inc Home Depot Inc/The                               | HPQ<br>HD    | 963.72<br>993.29     | 36.18<br>368.50  | 34,867<br>366,028        | 0.10%<br>1.00% | 3.05%<br>2.44%                 | 0.00%<br>0.02%                | 1.42%<br>3.87%                        | 0.00%<br>0.04%                       |
| Monolithic Power Systems Inc                            | MPWR         | 48.75                | 934.68           | 45,568                   | 1.0070         | 0.53%                          | 0.0270                        | 3.0770                                | 0.0470                               |
| International Business Machines Corp                    | IBM          | 921.15               | 202.13           | 186,192                  | 0.51%          | 3.30%                          | 0.02%                         | 3.90%                                 | 0.02%                                |
| Johnson & Johnson                                       | JNJ          | 2,407.24             | 165.86           | 399,265                  | 1.09%          | 2.99%                          | 0.03%                         | 3.73%                                 | 0.04%                                |
| Lululemon Athletica Inc<br>McDonald's Corp              | LULU<br>MCD  | 117.66<br>717.34     | 259.47<br>286.99 | 30,529<br>205,870        | 0.08%<br>0.56% | 2.33%                          | 0.01%                         | 7.00%<br>5.15%                        | 0.01%<br>0.03%                       |
| Merck & Co Inc  | MRK          | 2,534.81             | 118.45           | 300,248                  | 0.82%          | 2.60%                          | 0.01%                         | 14.00%                                | 0.03%                                |
| 3M Co   | MMM          | 549.35               | 134.69           | 73,992                   |                | 2.08%                          |                               | -5.37%                                |                                      |
| American Water Works Co Inc                             | AWK          | 194.86               | 143.12           | 27,889<br>316 203        | 0.08%          | 2.14%                          | 0.00%                         | 8.00%                                 | 0.01%                                |
| Bank of America Corp Pfizer Inc                         | BAC<br>PFE   | 7,759.58<br>5,666.70 | 40.75<br>29.01   | 316,203<br>164,391       | 0.45%          | 2.55%<br>5.79%                 | 0.03%                         | 6.39%                                 | 0.03%                                |
| Procter & Gamble Co/The                                 | PG           | 2,349.71             | 171.54           | 403,069                  | 1.10%          | 2.35%                          | 0.03%                         | 7.37%                                 | 0.08%                                |
| AT&T Inc  | Т            | 7,170.24             | 19.90            | 142,688                  | 0.39%          | 5.58%                          | 0.02%                         | 1.84%                                 | 0.01%                                |
| Travelers Cos Inc/The                                   | TRV          | 227.93               | 228.07           | 51,984                   | 0.14%          | 1.84%                          | 0.00%                         | 18.21%                                | 0.03%                                |
| RTX Corp Analog Devices Inc                             | RTX<br>ADI   | 1,330.24<br>496.49   | 123.34<br>233.92 | 164,072<br>116,140       | 0.45%          | 2.04%<br>1.57%                 | 0.01%                         | 10.23%<br>-5.82%                      | 0.05%                                |
| Walmart Inc   | WMT          | 8,038.25             | 77.23            | 620,794                  | 1.70%          | 1.07%                          | 0.02%                         | 9.24%                                 | 0.16%                                |
| Cisco Systems Inc                                       | CSCO         | 4,028.82             | 50.54            | 203,616                  | 0.56%          | 3.17%                          | 0.02%                         | 3.40%                                 | 0.02%                                |
| Intel Corp General Motors Co                            | INTC<br>GM   | 4,276.00<br>1,123.92 | 22.04<br>49.78   | 94,243<br>55,949         | 0.26%<br>0.15% | 0.96%                          | 0.00%                         | 4.26%<br>11.02%                       | 0.01%<br>0.02%                       |
| Microsoft Corp  | MSFT         | 7,433.04             | 49.76            | 3,100,617                | 8.50%          | 0.90%                          | 0.06%                         | 16.10%                                | 1.37%                                |
| Dollar General Corp                                     | DG           | 219.92               | 82.97            | 18,246                   |                | 2.84%                          |                               | -3.74%                                |                                      |
| Cigna Group/The   | CI           | 279.55               | 361.81           | 101,144                  | 0.28%          | 1.55%                          | 0.00%                         | 11.65%                                | 0.03%                                |
| Kinder Morgan Inc Citigroup Inc                         | KMI<br>C     | 2,219.46<br>1,907.80 | 21.57<br>62.64   | 47,874<br>119,504        | 0.13%          | 5.33%<br>3.58%                 | 0.01%                         | 6.52%<br>27.26%                       | 0.01%                                |
| American International Group Inc                        | AIG          | 643.95               | 77.05            | 49,616                   | 0.14%          | 2.08%                          | 0.00%                         | 12.42%                                | 0.02%                                |
| Altria Group Inc  | MO           | 1,706.22             | 53.77            | 91,744                   | 0.25%          | 7.59%                          | 0.02%                         | 4.14%                                 | 0.01%                                |
| HCA Healthcare Inc                                      | HCA          | 258.07               | 395.59           | 102,091                  | 0.28%          | 0.67%                          | 0.00%                         | 10.81%                                | 0.03%                                |
| International Paper Co Hewlett Packard Enterprise Co    | IP<br>HPE    | 347.37<br>1,299.67   | 48.42<br>19.37   | 16,820<br>25,175         | 0.07%          | 3.82%<br>2.68%                 | 0.00%                         | -2.00%<br>3.73%                       | 0.00%                                |
| Abbott Laboratories                                     | ABT          | 1,739.90             | 113.27           | 197,078                  | 0.54%          | 1.94%                          | 0.01%                         | 8.12%                                 | 0.04%                                |
| Aflac Inc   | AFL          | 560.03               | 110.36           | 61,804                   | 0.17%          | 1.81%                          | 0.00%                         | 7.55%                                 | 0.01%                                |
| Air Products and Chemicals Inc                          | APD          | 222.32               | 278.85           | 61,993                   | 0.17%          | 2.54%                          | 0.00%                         | 9.52%                                 | 0.02%                                |
| Super Micro Computer Inc<br>Royal Caribbean Cruises Ltd | SMCI<br>RCL  | 58.56<br>257.42      | 437.70<br>164.62 | 25,630<br>42,376         |                | 0.97%                          |                               | 69.00%<br>30.00%                      |                                      |
| Hess Corp   | HES          | 308.12               | 138.06           | 42,538                   | 0.12%          | 1.27%                          | 0.00%                         | 16.00%                                | 0.02%                                |
| Archer-Daniels-Midland Co                               | ADM          | 478.14               | 60.99            | 29,162                   |                | 3.28%                          |                               | -3.62%                                |                                      |
| Automatic Data Processing Inc Verisk Analytics Inc      | ADP<br>VRSK  | 407.80<br>142.42     | 275.91<br>272.82 | 112,515<br>38,856        | 0.11%          | 2.03%<br>0.57%                 | 0.00%                         | 12.54%                                | 0.01%                                |
| AutoZone Inc  | AZO          | 17.08                | 3,181.48         | 54,349                   | 0.11%          | 0.57 70                        | 0.0070                        | 14.66%                                | 0.02%                                |
| Linde PLC   | LIN          | 477.50               | 478.25           | 228,366                  | 0.63%          | 1.16%                          | 0.01%                         | 11.76%                                | 0.07%                                |
| Avery Dennison Corp                                     | AVY          | 80.52                | 221.85           | 17,863                   | 0.05%          | 1.59%                          | 0.00%                         | 12.84%                                | 0.01%                                |
| Enphase Energy Inc MSCI Inc                             | ENPH<br>MSCI | 135.42<br>78.65      | 121.04<br>580.59 | 16,391<br>45,663         | 0.04%<br>0.13% | 1.10%                          | 0.00%                         | 7.45%<br>11.93%                       | 0.00%<br>0.01%                       |
| Ball Corp   | BALL         | 303.57               | 63.61            | 19,310                   | 0.05%          | 1.26%                          | 0.00%                         | 13.35%                                | 0.01%                                |
| Axon Enterprise Inc                                     | AXON         | 75.57                | 364.97           | 27,582                   |                |                                |                               | 20.81%                                |                                      |
| Dayforce Inc<br>Carrier Global Corp                     | DAY<br>CARR  | 158.10<br>902.75     | 57.17<br>72.78   | 9,039<br>65,702          | 0.18%          | 1.04%                          | 0.00%                         | 6.74%                                 | 0.01%                                |
| Bank of New York Mellon Corp/The                        | BK           | 737.96               | 68.22            | 50,343                   | 0.16%          | 2.76%                          | 0.00%                         | 10.55%                                | 0.01%                                |
| Otis Worldwide Corp                                     | OTIS         | 400.56               | 94.69            | 37,929                   | 0.10%          | 1.65%                          | 0.00%                         | 10.00%                                | 0.01%                                |
| Baxter International Inc                                | BAX          | 510.18               | 37.94            | 19,356                   | 0.05%          | 3.06%                          | 0.00%                         | 6.50%                                 | 0.00%                                |
| Becton Dickinson & Co Berkshire Hathaway Inc            | BDX<br>BRK/B | 289.04<br>1,325.19   | 242.41<br>475.92 | 70,067<br>630,686        | 0.19%          | 1.57%                          | 0.00%                         | 8.34%                                 | 0.02%                                |
| Best Buy Co Inc   | BBY          | 215.71               | 100.40           | 21,658                   | 0.06%          | 3.75%                          | 0.00%                         | 4.17%                                 | 0.00%                                |
| Boston Scientific Corp                                  | BSX          | 1,472.63             | 81.79            | 120,446                  | 0.33%          |                                |                               | 12.58%                                | 0.04%                                |
| Bristol-Myers Squibb Co                                 | BMY          | 2,027.40             | 49.95            | 101,268                  |                | 4.80%                          |                               | 33.60%                                |                                      |
| Brown-Forman Corp<br>Coterra Energy Inc                 | BF/B<br>CTRA | 303.54<br>739.27     | 45.37<br>24.33   | 13,772<br>17,987         | 0.05%          | 1.92%<br>3.45%                 | 0.00%                         | -2.38%<br>10.06%                      | 0.00%                                |
| Hilton Worldwide Holdings Inc                           | HLT          | 246.43               | 219.64           | 54,125                   | 0.15%          | 0.27%                          | 0.00%                         | 14.97%                                | 0.02%                                |
| Carnival Corp   | CCL          | 1,122.46             | 16.50            | 18,521                   |                |                                |                               |                                       |                                      |
| Qorvo Inc   | QRVO         | 94.86                | 115.89           | 10,993                   | 0.03%          |                                |                               | 17.09%                                | 0.01%                                |
| Builders FirstSource Inc UDR Inc                        | BLDR<br>UDR  | 116.45<br>329.82     | 174.00<br>44.51  | 20,263<br>14,680         | 0.06%<br>0.04% | 3.82%                          | 0.00%                         | 1.45%<br>1.85%                        | 0.00%<br>0.00%                       |
| Clorox Co/The   | CLX          | 123.86               | 158.31           | 19,609                   | 0.05%          | 3.08%                          | 0.00%                         | 8.65%                                 | 0.00%                                |
| Paycom Software Inc                                     | PAYC         | 57.43                | 162.78           | 9,349                    | 0.03%          | 0.92%                          | 0.00%                         | 9.41%                                 | 0.00%                                |
| CMS Energy Corp   | CMS          | 298.64<br>817.00     | 67.86<br>106.50  | 20,265                   | 0.06%          | 3.04%                          | 0.00%                         | 7.28%<br>8.73%                        | 0.00%                                |
| Colgate-Palmolive Co EPAM Systems Inc                   | CL<br>EPAM   | 817.09<br>56.94      | 106.50<br>200.76 | 87,020<br>11,430         | 0.24%<br>0.03% | 1.88%                          | 0.00%                         | 8.73%<br>5.29%                        | 0.02%<br>0.00%                       |
| Conagra Brands Inc                                      | CAG          | 479.05               | 31.20            | 14,946                   | 0.04%          | 4.49%                          | 0.00%                         | 1.81%                                 | 0.00%                                |
| Airbnb Inc  | ABNB         | 440.00               | 117.31           | 51,617                   | 0.14%          |                                |                               | 19.84%                                | 0.03%                                |
| Consolidated Edison Inc                                 | ED           | 346.15               | 101.56           | 35,155                   | 0.10%          | 3.27%                          | 0.00%                         | 5.58%                                 | 0.01%                                |
| Corning Inc GoDaddy Inc                                 | GLW<br>GDDY  | 855.70<br>140.97     | 41.85<br>167.41  | 35,811<br>23,600         | 0.10%          | 2.68%                          | 0.00%                         | 13.41%                                | 0.01%                                |
| Cummins Inc   | CMI          | 137.05               | 312.85           | 42,875                   | 0.12%          | 2.33%                          | 0.00%                         | 8.28%                                 | 0.01%                                |
| Caesars Entertainment Inc                               | CZR          | 216.34               | 37.64            | 8,143                    |                |                                |                               | -35.64%                               |                                      |
| Danaher Corp  | DHR          | 722.21               | 269.31           | 194,499                  | 0.53%          | 0.40%                          | 0.00%                         | 1.89%                                 | 0.01%                                |
| Target Corp   | TGT          | 460.68               | 153.62           | 70,769                   | 0.19%          | 2.92%                          | 0.01%                         | 14.38%                                | 0.03%                                |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Weighted Average Long-Term Growth Rate [2] 10.45%

S&P 500 Estimated Required Market Return [3] 12.07%

|  |                          |          | [4]      | [5]    | [6]            | [7]      | [8]      | [9]            | [10]        | [11]           |
|--|--------------------------|----------|----------|--------|----------------|----------|----------|----------------|-------------|----------------|
| Page    |                          |          | [4]      | [9]    | [ο]            | [/]      |          | Capitalization |             | Capitalization |
| Common   C |                          | <b>-</b> |          |        |                | •        | Dividend | Dividend       | Long-Term   | Long-Term      |
| Description  | Name                     | Ticker   | Outst'g  | Price  | Capitalization | n Index  | Yield    | Yield          | Growth Est. | Growth Est.    |
| Demoting   |                          |          |          |        |                |          |          |                |             |                |
| See   Personal   19.00   19. | •                        |          |          |        | -              | 0.07%    |          | 0.00%          |             | 0.01%          |
| Description   Dist   71,00   15,00   27,00   27,00   28,00   |                          |          |          |        |                | 0.04%    |          | 0.00%          |             | 0.00%          |
| Migran   M | -                        |          |          |        |                | 0.24%    |          | 0.019/         |             | 0.020/         |
| Select Comp  |                          |          |          |        |                |          |          |                |             |                |
| Persistant   Per |                          |          |          |        | •              |          |          |                |             |                |
| Emerson   Emer |                          |          |          |        |                |          |          |                |             |                |
| Color   Part   | •                        |          |          |        | ,              |          |          |                |             |                |
| Emery   Fire   12,100   12,1 |                          |          |          |        |                |          |          |                |             |                |
| Egress   E |                          |          |          |        |                |          |          |                |             |                |
| Control   Cont |                          |          |          |        |                | 0.07%    |          | 0.00%          |             | 0.01%          |
| Carton   | •                        |          |          |        |                |          |          |                | 21.40/0     |                |
| Field Corp   | •                        |          |          |        |                |          |          |                |             |                |
| FMC Cup   FMC   1426   1450  |                          |          |          |        |                |          | 1 050/   | 0.00%          |             |                |
| Seman Silvame No.   Seman No | •                        |          |          |        |                |          |          |                |             |                |
| Neutline Delay   Neut | •                        |          |          |        |                |          |          |                |             |                |
| Frankin Pressure in Community  |                          |          |          |        |                |          |          |                |             |                |
| Seminar   Learner   Lear |                          |          |          |        |                | 0.45%    |          | 0.01%          | 8.17%       | 0.04%          |
| Peacer Name   Fix   A. 18,88   4.228   0.8284   0.719   1.389   0.098   1.799   0.098   0.00 |                          |          |          |        |                | 0.10%    |          | 0.00%          | 9.55%       | 0.01%          |
| Contract Mills in the   Contract Mills in the   Contract Mills in   Contract Mills i |                          |          |          |        |                |          |          |                |             |                |
| Common   Parts   Common   Co |                          |          |          |        |                | 0.000/   | 4.000/   | 0.000/         |             | 0.040/         |
| Semine Pener Score   |                          |          |          |        |                |          |          |                |             |                |
| Amount   A |                          |          |          |        |                | 0.1176   |          | 0.00%          | 2.36%       | 0.00%          |
| Halbuston Co   |                          |          |          |        |                | 0.06%    |          | 0.00%          | 7.00%       | 0.00%          |
| Usbarier Rehmungeler Inche   Link   1887   2867   2467   |                          |          |          |        |                | 0.000/   |          | 0.000/         |             | 0.0404         |
| Membrase Properties Inc   DOC   681.28   2.08   5.08   0 |                          |          |          |        |                |          |          |                |             |                |
| Install Cup  | _                        |          |          |        |                |          |          |                |             |                |
| Ferties Corp   |                          |          |          |        |                |          |          |                |             |                |
| Hernaley Colfne  |                          |          |          |        |                | 0.070/   | 0.400/   | 0.000/         |             | 0.040/         |
| Synchroprise   Sync | ·                        |          |          |        |                |          |          |                |             |                |
| Home Floods Corp   | •                        |          |          |        |                | 0.0070   |          | 0.0070         |             | 0.0070         |
| Mondister Infernational Inc  |                          | HRL      | 548.31   | 32.55  | 17,847         | 0.05%    | 3.47%    | 0.00%          | 6.59%       | 0.00%          |
| Center   C | _                        |          |          |        |                |          |          |                |             |                |
| Human Inc  |                          |          |          |        |                |          |          |                |             |                |
| Minos Incol Worse Incol Wors |                          |          |          |        |                | 0.0070   |          | 0.0070         |             | 0.0070         |
| CDW CMPDE    CDW   13.88   25.64   30.140   0.08   1.10%   0.09%   7.02%   0.09%   1.566   0.08%   1.10%   0.00%   0.09%   1.566   0.08%   1.10%   0.00%   0 | Willis Towers Watson PLC |          |          |        | 29,666         |          |          |                | 11.69%      |                |
| Time Technologies PLC  |                          |          |          |        |                |          |          |                |             |                |
| Interpublic Group of Cos Inc/The International Filams of Engances Inc International Filams of Engances In International Filams of Enganges In International Filams of Enganges In International Filams of Enganges Internati | •                        |          |          |        |                |          |          |                |             |                |
| Sement Holdings Inc   NNPS Seminoral Holdings Inc   NNPS Seminoral May 1   | _                        |          |          |        |                |          |          |                |             |                |
| NY   Semiconductors NY   NXP    254,73   256,36   63,030   0,18%   1,58%   0,00%   0,58%   0,01%   0,19%   0 | •                        |          |          |        |                |          | 1.54%    | 0.00%          |             |                |
| Mathematic Solutions Inc   | •                        |          |          |        |                |          | 1 500/   | 0.000/         |             |                |
| Broadmirds Foundrids Fou |                          |          |          |        |                |          |          |                |             |                |
| Kimon Realty Corp         Kimble         674.12         23.26         15.860         0.04%         4.13%         0.00%         3.63%         0.00%           Oracle Corp         RR         27.179         53.21         389.375         1.07%         1.13%         0.00%         3.13%         0.00%           Lennar Corp         LEN         241.70         35.21         38.06         0.17%         2.41%         0.00%         4.30%         0.00%           Bath Body Works Inc         BBWI         219.11         30.76         6.740         0.02%         2.60%         0.00         14.74%         0.00%           Charter Communications Inc         LC         219.52         81.04         41.0973         1.85%         -0.19%         -1.01%         0.00%         16.74%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.00%         1.474%         0.01%         1.474%         0.01%         1.474%         0.01%         1.474%         0.01%         1.474%         0.00%         1.274%         0.00%         1.22%         1.22%         1.24%<   |                          |          |          |        |                |          |          |                |             |                |
| Oracle Corp         ORCL         2,755,88         141,29         389,375         1,07%         1,13%         0,01%         15,06%         0,1%           Kroger CoThe         KR         721,79         53,21         38,406         0,11%         2,41%         0,00%         3,11%         0,00%           Eli Lily & Co         LEN         241,70         182,06         44,004         0,11%         2,41%         0,00%         4,30%         0,00%           Bath & Body Works Inc         BBM         2119         30,76         6,740         0,02%         2,60%         0,00%         17,47%         0,00%           Charter Communications Inc         CHTR         142,72         347,54         48,608         0,14%         1,00%         7,10%         0,10%           Lowes Corp         LD         CHTR         142,72         347,54         48,608         0,14%         0,00%         7,10%         0,10%           Lowes Corp         LD         LILY         357,57         206,48         140,973         1,34%         0,00%         9,10%         0,00%           Lowes Corp         LD         HILBB         53,68         399,92         21,418         5,50%         0,00%         3,10%         1,10%         <  |                          |          |          |        |                |          |          |                |             |                |
| Kroger CoThe   Kr  |                          |          |          |        |                |          |          |                |             |                |
| Bit Name   | •                        |          |          |        |                |          |          |                |             |                |
| Bath & Body Works Inc         BBWI         219.11         30.76         6,740         0.02%         2.60%         0.00%         14.74%         0.00%           Charter Communications Inc         CHTR         14.274         347.54         49.80%         1.01%         -1.31%         -1.70%         0.01%           Lows Corp         L         219.52         81.94         17.997         1.85%         1.019%         -1.01%           Hubbel Inc         HUBB         53.68         39.92         21.486         1.631         1.33%         -1.02%         -1.01  | ·                        |          |          |        | ,              | 0.12%    |          | 0.00%          |             | 0.01%          |
| Charter Communications Inc         CHTR         14.2 a 219.52 b 19.34 b 17.987         0.14% b 17.987         0.15% b 18.5% b 1.00%         7.10% b 0.01% b 1.00%         0.01% b 1.00% b  | -                        |          |          |        |                | 0.000/   |          | 0.000/         |             | 0.000/         |
| Lows Corp  | •                        |          |          |        |                |          | 2.00%    | 0.00%          |             |                |
| Hubbel Inc   Hubbe   |                          | L        |          |        |                | 0.1170   | 0.31%    |                | 7.12070     | 0.0170         |
| IEX  |                          |          |          |        |                |          |          |                | -0.19%      |                |
| Marsh & McLennan Cos Inc         MMC         491.76         227.51         111,879         0.31%         1.43%         0.00%         9.10%         0.03%           Masco Corp         MAS         218.25         77.956         17.364         0.05%         1.46%         0.00%         1.453%         0.00%           S&P Global Inc         SPGI         320.20         513.24         164,339         0.45%         0.71%         0.00%         1.453%         0.07%           Medtronic PLC         MDT         1,282.49         88.58         113,603         0.31%         3.16%         0.01%         5.66%         0.02%           Visitis Inc         VTRS         1,193.52         12.08         14,418         3.97%         0.14%         1.34%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.41%         0.00%         3.21%         0.00%         3.21%         0.00%         3.21%         0.00%         3.21%         0.00%         3.21%         0.00%         3.21%         0.00%         3.21%         0.00%         3.21%   |                          |          |          |        |                |          |          |                |             |                |
| Masco Corp         MAS         218.25         79.56         17,364         0.05%         1.46%         0.00%         7.76%         0.00%           S&P Global Inc         SPGI         320.20         513.24         164,303         0.45%         0.71%         0.00%         14.53%         0.07%           Wedtronic PLC         MDT         1,282.49         88.58         113,603         0.45%         0.71%         0.00%         14.53%         0.07%           Visitis Inc         VTRS         1,193.52         12.08         14.418         3.97%         -3.41%         -3.41%           CVS Health Corp         CVS         1,257.98         57.24         72,007         0.00%         4.65%         0.01%         1.82%         0.00%           DuPort de Remours Inc         MU         1,108.84         96.24         106.75         -1.04%         0.00%         2.50%         0.00%         2.50%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%         9.36%         0.00%   | •                        |          |          |        |                | 0.31%    |          | 0.00%          | 9.10%       | 0.03%          |
| Medtronic PLC         MDT         1,282.49         88.58         113,603         0.31%         3.16%         0.01%         5.66%         0.02%           Viatris Inc         VTRS         1,193.52         12.08         14.418         3.97%         -3.41%           CVS Health Corp         CVS         1,257.98         87.57         47.207         0.20%         4.65%         0.01%         1.82%         0.00%           DuPont de Nemours Inc         DD         417.50         84.25         35,174         0.10%         1.80%         0.00%         2.50%         0.00%           Micron Technology Inc         MU         1,108.84         442.04         73,750         0.20%         0.89%         0.00%         9.36%         0.02%           Cboe Global Markets Inc         CBOE         104.63         205.4         21,492         0.06%         1.23%         0.00%         9.36%         0.21%           NEW Incorr         MEM         1,152.49         53.39         61.531         1.78%         0.00%         4.445         0.18%           NIKE Inc         NKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.11%           NSCU cash <th< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></th<>   |                          |          |          |        |                |          |          |                |             |                |
| Vitaris Inc         VTRS         1,193.52         12.08         14,418         3.97%         -3.41%           CVS Health Corp         CVS         1,257.98         57.24         72,007         0.20%         4.65%         0.01%         1.82%         0.00%           DIPOnt de Nemours Inc         DD         417.50         84.25         35,174         0.10%         1.80%         0.00%         2.50%         0.00%           Micron Technology Inc         MU         1,108.84         96.24         106,715         0.48%         0.00%         9.36%         0.02%           Cboc Global Markets Inc         CBOE         104.63         205.40         21,492         0.06%         1.23%         0.00%         13.78%         0.01%           Newmont Corp         NEM         1,152.49         53.39         61.53         1.78%         0.00%         4.46%         0.01%           NIKE Inc         NIKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.01%           NiSoure Inc         NIKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.01%           NiFe Incipal Financial Group Inc         <  |                          |          |          |        |                |          |          |                |             |                |
| CVS Health Corp         CVS         1,257.98         57.24         72,007         0.20%         4.65%         0.01%         1.82%         0.00%           DuPont de Nemours Inc         DD         417.50         84.25         35,174         0.10%         1.80%         0.00%         2.50%         0.00%           Micron Technology Inc         MSI         11,68.84         96.24         106,715         0.48%         0.00%         9.36%         0.02%           Motorola Solutions Inc         MSI         186.84         442.04         73,750         0.20%         0.89%         0.00%         9.36%         0.02%           Cboe Global Markets Inc         CBOE         104.63         205.40         21,492         0.06%         1.23%         0.00%         13.78%         0.01%           Newmont Corp         NEM         1,152.49         53.39         61,531         1.87%         0.00%         4.46%         0.01%           NIKE Inc         NKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.01%           NiSource Inc         NII         448.51         33.06         14,828         0.04%         3.21%         0.00%         3.50%         0.02%  |                          |          |          |        |                | 0.31%    |          | 0.01%          |             | 0.02%          |
| DuPont de Nemours Inc   Du   |                          |          |          |        |                | 0.20%    |          | 0.01%          |             | 0.00%          |
| Motorola Solutions Inc         MSI         166.84         442.04         73,750         0.20%         0.89%         0.00%         9.36%         0.02%           Cboe Global Markets Inc         CBOE         104.63         205.40         21,492         0.06%         1.23%         0.00%         13.78%         0.01%           Newmont Corp         NEM         1,152.49         53.39         61,531         1.87%         0.00%         48.45%           NIKE Inc         NKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.48.57           NiSource Inc         NKE         2,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.48.57           NiSource Inc         NKE         226.16         57,917         0.16%         2.11%         0.00%         4.66%         0.00%           Norfolk Southern Corp         NSC         231.58         81.42         18,856         0.05%         3.54%         0.00%         9.68%         0.02%           Principal Financial Group Inc         PFG         231.58         81.42         18,856         0.05%         3.54%         0.00%         5.46%         0.00%           Vells Fargos & Co         <  |                          | DD       | 417.50   | 84.25  | 35,174         | 0.10%    | 1.80%    | 0.00%          | 2.50%       | 0.00%          |
| Cboe Global Markets Inc         CBOE         104.63         205.40         21,492         0.06%         1.23%         0.00%         13.78%         0.01%           Newmont Corp         NEM         1,152.49         53.39         61,531         1.87%         48.45%           NIKE Inc         NKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.01%           NiSource Inc         NI         448.51         33.06         14,828         0.04%         3.21%         0.00%         4.06%         0.00%           Norfolk Southern Corp         NSC         226.10         256.16         57,917         0.16%         2.11%         0.00%         9.68%         0.02%           Principal Financial Group Inc         PFG         231.58         81.42         18,856         0.05%         3.54%         0.00%         13.00%         0.01%           Eversource Energy         ES         357.39         67.53         24,134         0.07%         4.24%         0.00%         5.46%         0.00%           Vells Fargo & Co         WFC         3,403.77         58.47         199,018         0.55%         2.74%         0.01%         7.95%         0.04%   |                          |          |          |        |                | 0.000/   |          | 0.000/         |             | 0.000/         |
| Newmont Corp         NEM         1,152.49         53.39         61,531         1.87%         48.45%           NIKE Inc         NKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.01%           NiSource Inc         NI         448.51         33.06         14,828         0.04%         3.21%         0.00%         7.00%         0.00%           Norfolk Southern Corp         NSC         226.10         256.16         57,917         0.16%         2.11%         0.00%         9.68%         0.02%           Principal Financial Group Inc         PFG         231.58         81.42         18,856         0.05%         3.54%         0.00%         13.00%         0.01%           Eversource Energy         ES         357.39         67.53         24,134         0.07%         4.24%         0.00%         5.46%         0.00%           Northrop Grumman Corp         NCC         146.25         521.15         76,216         0.21%         1.58%         0.00%         8.68%         0.02%           Wells Fargo & Co         WFC         3,403.77         58.47         199,018         0.55%         2.74%         0.01%         7.95%         0.04%   |                          |          |          |        |                |          |          |                |             |                |
| NIKE Inc         NKE         1,201.46         82.95         99,661         0.27%         1.78%         0.00%         4.46%         0.01%           NiSource Inc         NI         448.51         33.06         14,828         0.04%         3.21%         0.00%         7.00%         0.00%           Norfolk Southern Corp         NSC         226.10         256.16         57,917         0.16%         2.11%         0.00%         9.68%         0.02%           Principal Financial Group Inc         PFG         231.58         81.42         18,856         0.05%         3.54%         0.00%         9.68%         0.02%           Eversource Energy         ES         357.39         67.53         24,134         0.07%         4.24%         0.00%         5.46%         0.00%           Northrop Grumman Corp         NOC         146.25         521.15         76,216         0.21%         1.58%         0.00%         8.68%         0.02%           Wells Fargo & Co         WFC         3,403.77         58.47         199,018         0.55%         2.74%         0.01%         7.95%         0.04%           Nucor Corp         NUE         237.34         151.91         36,054         1.42%         0.00%         1.48%  |                          |          |          |        |                | 3.3070   |          | J.00 /0        |             | 0.0170         |
| Norfolk Southern Corp         NSC         226.10         256.16         57,917         0.16%         2.11%         0.00%         9.68%         0.02%           Principal Financial Group Inc         PFG         231.58         81.42         18,856         0.05%         3.54%         0.00%         13.00%         0.01%           Eversource Energy         ES         357.39         67.53         24,134         0.07%         4.24%         0.00%         5.46%         0.00%           Northrop Grumman Corp         NOC         146.25         521.15         76,216         0.21%         1.58%         0.00%         8.68%         0.02%           Wells Fargo & Co         WFC         3,403.77         58.47         199,018         0.55%         2.74%         0.01%         7.95%         0.04%           Nucor Corp         NUE         237.34         151.91         36,054         1.42%         1.48%         24.00%           Occidental Petroleum Corp         OXY         916.20         56.98         52,205         1.54%         2.79%         0.00%         5.36%         0.00%           OMEOK Inc         OKE         584.07         92.36         53,945         4.29%         4.29%         0.00%         15.40%         0.0  | NIKE Inc                 | NKE      | 1,201.46 | 82.95  | 99,661         |          | 1.78%    |                | 4.46%       |                |
| Principal Financial Group Inc         PFG         231.58         81.42         18,856         0.05%         3.54%         0.00%         13.00%         0.01%           Eversource Energy         ES         357.39         67.53         24,134         0.07%         4.24%         0.00%         5.46%         0.00%           Northrop Grumman Corp         NOC         146.25         521.15         76,216         0.21%         1.58%         0.00%         8.68%         0.02%           Wells Fargo & Co         WFC         3,403.77         58.47         199,018         0.55%         2.74%         0.01%         7.95%         0.04%           Nucor Corp         NUE         237.34         151.91         36,054         1.42%         -1.48%         -1.48%           Occidental Petroleum Corp         OXY         916.20         56.98         52,205         1.54%         24.00%         -1.48%           Omnicom Group Inc         OMC         195.65         100.43         19,649         0.05%         2.79%         0.00%         5.36%         0.00%           ONEOK Inc         OKE         584.07         92.36         53,945         -4.29%         -4.29%           Raymond James Financial Inc         RJ         20.59   |                          |          |          |        |                |          |          |                |             |                |
| Eversource Energy  | •                        |          |          |        |                |          |          |                |             |                |
| Northrop Grumman Corp         NOC         146.25         521.15         76,216         0.21%         1.58%         0.00%         8.68%         0.02%           Wells Fargo & Co         WFC         3,403.77         58.47         199,018         0.55%         2.74%         0.01%         7.95%         0.04%           Nucor Corp         NUE         237.34         151.91         36,054         1.42%         -1.48%           Occidental Petroleum Corp         OXY         916.20         56.98         52,205         1.54%         24.00%           Omnicom Group Inc         OMC         195.65         100.43         19,649         0.05%         2.79%         0.00%         5.36%         0.00%           ONEOK Inc         OKE         584.07         92.36         53,945         4.29%         4.29%         15.40%         0.00%         15.40%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0.00%         0.00%         15.40%         0   | ·                        |          |          |        |                |          |          |                |             |                |
| Nucor Corp         NUE         237.34         151.91         36,054         1.42%         -1.48%           Occidental Petroleum Corp         OXY         916.20         56.98         52,205         1.54%         24.00%           Omnicom Group Inc         OMC         195.65         100.43         19,649         0.05%         2.79%         0.00%         5.36%         0.00%           ONEOK Inc         OKE         584.07         92.36         53,945         4.29%         4.29%         4.29%         4.29%         4.29%         6.00.20         7.148         0.12%         0.20%         0.00%         15.40%         0.01%         0.01%         PG&E Corp         PCG         2,137.46         19.70         42,108         0.12%         0.20%         0.00%         9.95%         0.01%         0.01%         PARker-Hannifin Corp         PH         128.60         600.20         77,183         0.21%         1.09%         0.00%         13.44%         0.03%         ROL         484.31         50.18         24,303         0.07%         1.20%         0.00%         13.38%         0.01%         PPL Corp         PPL 737.77         31.91         23,542         0.06%         3.23%         0.00%         7.01%         0.00%  | Northrop Grumman Corp    | NOC      | 146.25   | 521.15 | 76,216         | 0.21%    | 1.58%    | 0.00%          | 8.68%       | 0.02%          |
| Occidental Petroleum Corp         OXY         916.20         56.98         52,205         1.54%         24.00%           Omnicom Group Inc         OMC         195.65         100.43         19,649         0.05%         2.79%         0.00%         5.36%         0.00%           ONEOK Inc         OKE         584.07         92.36         53,945         4.29%         4.29%         4.29%         4.29%         4.29%         6.00.00%         1.51%         0.00%         15.40%         0.01%         0.01%         PG&E Corp         PCG         2,137.46         19.70         42,108         0.12%         0.20%         0.00%         9.95%         0.01%         0.01%         Parker-Hannifin Corp         PH         128.60         600.20         77,183         0.21%         1.09%         0.00%         13.44%         0.03%         0.01%         PRISTING         8.01         484.31         50.18         24,303         0.07%         1.20%         0.00%         13.38%         0.01%         0.00%         13.38%         0.01%         0.00%         7.01%         0.00%         7.01%         0.00%         7.01%         0.00%         7.01%         0.00%         7.01%         0.00%         7.01%         0.00%         7.01%         0.00%         7.01%<   | _                        |          |          |        |                | 0.55%    |          | 0.01%          |             | 0.04%          |
| Omnicom Group Inc         OMC         195.65         100.43         19,649         0.05%         2.79%         0.00%         5.36%         0.00%           ONEOK Inc         OKE         584.07         92.36         53,945         4.29%         4.29%         4.29%         4.29%         5.36%         0.00%         15.40%         0.01%         0.00%         15.40%         0.01%         0.00%         15.40%         0.01%         0.00%         15.40%         0.01%         0.00%         15.40%         0.01%         0.00%         9.95%         0.01%         0.00%         9.95%         0.01%         0.00%         13.44%         0.03%         0.00%         13.44%         0.03%         0.00%         13.38%         0.01%         0.00%         13.38%         0.01%         0.00%         13.38%         0.01%         0.00%         0.00%         7.01%         0.00%         0.00%         7.01%         0.00%         0.00%         0.00%         7.01%         0.00% <td< td=""><td>•</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>  | •                        |          |          |        |                |          |          |                |             |                |
| ONEOK Inc         OKE         584.07         92.36         53,945         4.29%           Raymond James Financial Inc         RJF         205.94         119.57         24,625         0.07%         1.51%         0.00%         15.40%         0.01%           PG&E Corp         PCG         2,137.46         19.70         42,108         0.12%         0.20%         0.00%         9.95%         0.01%           Parker-Hannifin Corp         PH         128.60         600.20         77,183         0.21%         1.09%         0.00%         13.44%         0.03%           Rollins Inc         ROL         484.31         50.18         24,303         0.07%         1.20%         0.00%         13.38%         0.01%           PPL Corp         PPL         737.77         31.91         23,542         0.06%         3.23%         0.00%         7.01%         0.00%  | •                        |          |          |        |                | 0.05%    |          | 0.00%          |             | 0.00%          |
| PG&E Corp         PCG         2,137.46         19.70         42,108         0.12%         0.20%         0.00%         9.95%         0.01%           Parker-Hannifin Corp         PH         128.60         600.20         77,183         0.21%         1.09%         0.00%         13.44%         0.03%           Rollins Inc         ROL         484.31         50.18         24,303         0.07%         1.20%         0.00%         13.38%         0.01%           PPL Corp         PPL         737.77         31.91         23,542         0.06%         3.23%         0.00%         7.01%         0.00%  |                          |          |          |        |                | 2.2.2.70 |          |                |             |                |
| Parker-Hannifin Corp         PH         128.60         600.20         77,183         0.21%         1.09%         0.00%         13.44%         0.03%           Rollins Inc         ROL         484.31         50.18         24,303         0.07%         1.20%         0.00%         13.38%         0.01%           PPL Corp         PPL         737.77         31.91         23,542         0.06%         3.23%         0.00%         7.01%         0.00%  | •                        |          |          |        |                |          |          |                |             |                |
| Rollins Inc ROL 484.31 50.18 24,303 0.07% 1.20% 0.00% 13.38% 0.01% PPL Corp PPL 737.77 31.91 23,542 0.06% 3.23% 0.00% 7.01% 0.00%  | •                        |          |          |        |                |          |          |                |             |                |
| PPL Corp PPL 737.77 31.91 23,542 0.06% 3.23% 0.00% 7.01% 0.00%   | •                        |          |          |        |                |          |          |                |             |                |
| ConocoPhillips COP 1,161.25 113.79 132,139 0.36% 2.74% 0.01% 13.00% 0.05%  |                          | PPL      |          |        |                |          |          |                |             |                |
|  | ConocoPhillips           | COP      | 1,161.25 | 113.79 | 132,139        | 0.36%    | 2.74%    | 0.01%          | 13.00%      | 0.05%          |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Weighted Average Long-Term Growth Rate [2] 10.45% S&P 500 Estimated Required Market Return [3] 12.07%

|   |               | [4]                  | [5]                | [6]                  | [7]            | [8]                   | [9]<br>Capitalization | [10]                   | [11] Capitalization   |
|---|---------------|----------------------|--------------------|----------------------|----------------|-----------------------|-----------------------|------------------------|-----------------------|
|   |               | Shares               |                    | Market               | Weight in      | Estimated<br>Dividend | Weighted<br>Dividend  | Bloomberg<br>Long-Term | Weighted<br>Long-Term |
| Name  | Ticker        | Outst'g              | Price              | Capitalization       | Index          | Yield                 | Yield                 | Growth Est.            | Growth Est.           |
| PulteGroup Inc  | PHM           | 207.52               | 131.65             | 27,321               | 0.07%          | 0.61%                 | 0.00%                 | 8.99%                  | 0.01%                 |
| Pinnacle West Capital Corp PNC Financial Services Group Inc/The | PNW<br>PNC    | 113.61<br>397.50     | 87.52<br>185.09    | 9,943<br>73,573      | 0.03%<br>0.20% | 4.02%<br>3.46%        | 0.00%<br>0.01%        | 8.22%<br>18.04%        | 0.00%<br>0.04%        |
| PPG Industries Inc  | PPG           | 233.30               | 129.73             | 30,266               | 0.08%          | 2.10%                 | 0.00%                 | 8.33%                  | 0.01%                 |
| Progressive Corp/The Veralto Corp                               | PGR<br>VLTO   | 585.67<br>247.11     | 252.20<br>112.43   | 147,705<br>27,782    |                | 0.16%<br>0.32%        |                       | 36.31%                 |                       |
| Public Service Enterprise Group Inc                             | PEG<br>COO    | 498.16<br>199.16     | 80.75<br>105.73    | 40,227<br>21,057     | 0.11%<br>0.06% | 2.97%                 | 0.00%                 | 7.47%<br>12.43%        | 0.01%<br>0.01%        |
| Cooper Cos Inc/The Edison International                         | EIX           | 383.93               | 87.03              | 33,413               | 0.00%          | 3.58%                 | 0.00%                 | 6.00%                  | 0.01%                 |
| Schlumberger NV Charles Schwab Corp/The                         | SLB<br>SCHW   | 1,419.84<br>1,778.45 | 43.99<br>65.10     | 62,459<br>115,777    | 0.17%<br>0.32% | 2.50%<br>1.54%        | 0.00%<br>0.00%        | 12.22%<br>12.07%       | 0.02%<br>0.04%        |
| Sherwin-Williams Co/The   | SHW           | 252.26               | 369.37             | 93,177               | 0.26%          | 0.77%                 | 0.00%                 | 9.88%                  | 0.03%                 |
| West Pharmaceutical Services Inc J M Smucker Co/The             | WST<br>SJM    | 72.54<br>106.41      | 313.63<br>114.68   | 22,751<br>12,203     | 0.06%<br>0.03% | 0.26%<br>3.77%        | 0.00%<br>0.00%        | 2.89%<br>6.07%         | 0.00%<br>0.00%        |
| Snap-on Inc   | SNA           | 52.68                | 283.74             | 14,948               | 0.03%          | 2.62%                 | 0.00%                 | 3.83%                  | 0.00%                 |
| AMETEK Inc Uber Technologies Inc                                | AME<br>UBER   | 231.54<br>2,100.94   | 171.05<br>73.13    | 39,604<br>153,642    | 0.11%          | 0.65%                 | 0.00%                 | 7.02%<br>60.59%        | 0.01%                 |
| Southern Co/The   | SO            | 1,094.63             | 86.40              | 94,576               | 0.26%          | 3.33%                 | 0.01%                 | 7.23%                  | 0.02%                 |
| Truist Financial Corp Southwest Airlines Co                     | TFC<br>LUV    | 1,339.14<br>599.16   | 44.46<br>28.92     | 59,538<br>17,328     | 0.16%          | 4.68%<br>2.49%        | 0.01%                 | 10.91%                 | 0.02%                 |
| W R Berkley Corp  | WRB           | 380.55               | 59.70              | 22,719               | 0.06%          | 0.54%                 | 0.00%                 | 13.27%                 | 0.01%                 |
| Stanley Black & Decker Inc                                      | SWK<br>PSA    | 153.96<br>175.83     | 101.54<br>343.72   | 15,633<br>60,436     | 0.17%          | 3.23%<br>3.49%        | 0.019/                | 1 220/                 | 0.00%                 |
| Public Storage Arista Networks Inc                              | ANET          | 314.15               | 353.38             | 111,015              | 0.17%          | 3.49%                 | 0.01%                 | 1.23%<br>18.60%        | 0.06%                 |
| Sysco Corp  | SYY           | 491.52               | 77.97              | 38,324               | 0.11%          | 2.62%                 | 0.00%                 | 7.00%                  | 0.01%                 |
| Corteva Inc Texas Instruments Inc                               | CTVA<br>TXN   | 687.80<br>913.05     | 57.13<br>214.34    | 39,294<br>195,702    | 0.11%          | 1.19%<br>2.43%        | 0.00%                 | 9.85%<br>-2.86%        | 0.01%                 |
| Textron Inc   | TXT           | 187.36               | 91.20              | 17,088               | 0.05%          | 0.09%                 | 0.00%                 | 10.05%                 | 0.00%                 |
| Thermo Fisher Scientific Inc TJX Cos Inc/The                    | TMO<br>TJX    | 382.00<br>1,127.87   | 615.07<br>117.27   | 234,954<br>132,266   | 0.64%<br>0.36% | 0.25%<br>1.28%        | 0.00%<br>0.00%        | 8.70%<br>8.20%         | 0.06%<br>0.03%        |
| Globe Life Inc  | GL            | 89.82                | 105.05             | 9,436                | 0.03%          | 0.91%                 | 0.00%                 | 6.00%                  | 0.00%                 |
| Johnson Controls International plc Ulta Beauty Inc              | JCI<br>ULTA   | 668.01<br>47.12      | 72.85<br>352.84    | 48,665<br>16,624     | 0.13%<br>0.05% | 2.03%                 | 0.00%                 | 8.72%<br>1.64%         | 0.01%<br>0.00%        |
| Union Pacific Corp  | UNP           | 609.20               | 256.09             | 156,010              | 0.43%          | 2.09%                 | 0.01%                 | 11.33%                 | 0.05%                 |
| Keysight Technologies Inc UnitedHealth Group Inc                | KEYS<br>UNH   | 173.54<br>923.42     | 154.12<br>590.20   | 26,746<br>545,001    | 1.49%          | 1.42%                 | 0.02%                 | -1.19%<br>10.44%       | 0.16%                 |
| Blackstone Inc  | BX            | 720.08               | 142.36             | 102,510              | 1.4370         | 2.30%                 | 0.0270                | 24.48%                 | 0.1070                |
| Marathon Oil Corp<br>Bio-Rad Laboratories Inc                   | MRO<br>BIO    | 559.38<br>22.80      | 28.65<br>337.32    | 16,026<br>7,689      | 0.02%          | 1.54%                 |                       | -5.00%<br>12.00%       | 0.00%                 |
| Ventas Inc  | VTR           | 413.15               | 62.11              | 25,661               | 0.02%          | 2.90%                 | 0.00%                 | 8.22%                  | 0.00%                 |
| Labcorp Holdings Inc  | LH            | 83.96                | 229.89             | 19,302               | 0.05%          | 1.25%                 | 0.00%                 | 8.45%                  | 0.00%                 |
| Vulcan Materials Co<br>Weyerhaeuser Co                          | VMC<br>WY     | 132.06<br>727.32     | 245.21<br>30.49    | 32,382<br>22,176     |                | 0.75%<br>2.62%        |                       | -13.66%                |                       |
| Williams Cos Inc/The  | WMB           | 1,218.93             | 45.77              | 55,790               | 0.15%          | 4.15%                 | 0.01%                 | 4.28%                  | 0.01%                 |
| Constellation Energy Corp WEC Energy Group Inc                  | CEG<br>WEC    | 315.12<br>316.08     | 196.70<br>93.03    | 61,984<br>29,405     | 0.08%          | 0.72%<br>3.59%        | 0.00%                 | 20.39%<br>7.82%        | 0.01%                 |
| Adobe Inc   | ADBE          | 443.40               | 574.41             | 254,693              | 0.70%          |                       |                       | 16.27%                 | 0.11%                 |
| Vistra Corp AES Corp/The  | VST<br>AES    | 343.56<br>710.92     | 85.43<br>17.13     | 29,350<br>12,178     |                | 1.03%<br>4.03%        |                       |                        |                       |
| Expeditors International of Washington Inc                      | EXPD          | 141.13               | 123.41             | 17,417               | 0.05%          | 1.18%                 | 0.00%                 | 4.39%                  | 0.00%                 |
| Amgen Inc Apple Inc   | AMGN<br>AAPL  | 537.33<br>15,204.14  | 333.83<br>229.00   | 179,377<br>3,481,747 | 0.49%<br>9.54% | 2.70%<br>0.44%        | 0.01%<br>0.04%        | 3.52%<br>8.04%         | 0.02%<br>0.77%        |
| Autodesk Inc  | ADSK          | 215.51               | 258.40             | 55,688               | 0.15%          |                       |                       | 10.23%                 | 0.02%                 |
| Cintas Corp Comcast Corp  | CTAS<br>CMCSA | 100.77<br>3,863.06   | 805.12<br>39.57    | 81,131<br>152,861    | 0.22%<br>0.42% | 0.78%<br>3.13%        | 0.00%<br>0.01%        | 10.59%<br>7.32%        | 0.02%<br>0.03%        |
| Molson Coors Beverage Co  | TAP           | 192.59               | 53.97              | 10,394               | 0.03%          | 3.26%                 | 0.00%                 | 5.29%                  | 0.00%                 |
| KLA Corp Marriott International Inc/MD                          | KLAC<br>MAR   | 134.43<br>281.52     | 819.43<br>234.69   | 110,152<br>66,071    | 0.30%<br>0.18% | 0.71%<br>1.07%        | 0.00%<br>0.00%        | 10.00%<br>4.25%        | 0.03%<br>0.01%        |
| Fiserv Inc  | FI            | 575.73               | 174.60             | 100,522              | 0.28%          |                       |                       | 11.52%                 | 0.03%                 |
| McCormick & Co Inc/MD PACCAR Inc                                | MKC<br>PCAR   | 252.02<br>524.22     | 80.03<br>96.18     | 20,169<br>50,420     | 0.06%<br>0.14% | 2.10%<br>1.25%        | 0.00%<br>0.00%        | 5.83%<br>0.48%         | 0.00%<br>0.00%        |
| Costco Wholesale Corp   | COST          | 443.34               | 892.38             | 395,623              | 1.08%          | 0.52%                 | 0.01%                 | 10.36%                 | 0.11%                 |
| Stryker Corp Tyson Foods Inc                                    | SYK<br>TSN    | 381.08<br>285.82     | 360.42<br>64.31    | 137,347<br>18,381    | 0.38%          | 0.89%<br>3.05%        | 0.00%                 | 8.60%                  | 0.03%                 |
| Lamb Weston Holdings Inc  | LW            | 143.67               | 61.92              | 8,896                | 0.02%          | 2.33%                 | 0.00%                 | 2.16%                  | 0.00%                 |
| Applied Materials Inc American Airlines Group Inc               | AMAT<br>AAL   | 824.40<br>653.54     | 197.26<br>10.62    | 162,622<br>6,941     | 0.45%          | 0.81%                 | 0.00%                 | 9.28%<br>-13.42%       | 0.04%                 |
| Cardinal Health Inc   | CAH           | 243.85               | 112.72             | 27,486               | 0.08%          | 1.79%                 | 0.00%                 | 9.84%                  | 0.01%                 |
| Cincinnati Financial Corp  Paramount Global                     | CINF<br>PARA  | 156.24<br>626.01     | 137.03<br>10.47    | 21,410<br>6,554      | 0.06%          | 2.36%<br>1.91%        | 0.00%                 | 7.83%<br>49.00%        | 0.00%                 |
| DR Horton Inc   | DHI           | 326.04               | 188.76             | 61,543               | 0.17%          | 0.64%                 | 0.00%                 | 8.27%                  | 0.01%                 |
| Electronic Arts Inc Fair Isaac Corp                             | EA<br>FICO    | 264.20<br>24.52      | 151.82<br>1,730.27 | 40,111<br>42,424     | 0.11%          | 0.50%                 | 0.00%                 | 12.85%<br>23.00%       | 0.01%                 |
| Fastenal Co   | FAST          | 572.65               | 68.28              | 39,100               |                | 2.28%                 |                       | 23.0070                |                       |
| M&T Bank Corp<br>Xcel Energy Inc                                | MTB<br>XEL    | 167.00<br>557.50     | 170.76<br>61.23    | 28,517<br>34,136     | 0.08%<br>0.09% | 3.16%<br>3.58%        | 0.00%<br>0.00%        | 3.87%<br>7.10%         | 0.00%<br>0.01%        |
| Fifth Third Bancorp   | FITB          | 676.80               | 42.69              | 28,892               | 0.09%          | 3.28%                 | 0.0076                | 25.00%                 | 0.0176                |
| Gilead Sciences Inc   | GILD          | 1,244.99             | 79.00              | 98,354               | 0.27%          | 3.90%                 | 0.01%                 | 15.38%                 | 0.04%                 |
| Hasbro Inc Huntington Bancshares Inc/OH                         | HAS<br>HBAN   | 139.41<br>1,452.43   | 68.16<br>14.97     | 9,502<br>21,743      | 0.06%          | 4.11%<br>4.14%        | 0.00%                 | 33.11%<br>3.32%        | 0.00%                 |
| Welltower Inc   | WELL          | 609.15               | 120.68             | 73,512               | 0.20%          | 2.22%                 | 0.00%                 | 15.65%                 | 0.03%                 |
| Biogen Inc Northern Trust Corp                                  | BIIB<br>NTRS  | 145.66<br>201.64     | 204.76<br>91.21    | 29,826<br>18,391     | 0.08%<br>0.05% | 3.29%                 | 0.00%                 | 6.10%<br>10.11%        | 0.00%<br>0.01%        |
| Packaging Corp of America                                       | PKG           | 89.81                | 209.54             | 18,819               | 0.05%          | 2.39%                 | 0.00%                 | 5.83%                  | 0.00%                 |
| Paychex Inc QUALCOMM Inc  | PAYX<br>QCOM  | 359.74<br>1,114.00   | 131.20<br>175.30   | 47,198<br>195,284    | 0.13%<br>0.54% | 2.99%<br>1.94%        | 0.00%<br>0.01%        | 7.54%<br>10.64%        | 0.01%<br>0.06%        |
| Ross Stores Inc   | ROST          | 333.58               | 150.61             | 50,240               | 0.14%          | 0.98%                 | 0.00%                 | 8.85%                  | 0.01%                 |
| IDEXX Laboratories Inc<br>Starbucks Corp                        | IDXX<br>SBUX  | 82.31<br>1,133.20    | 481.33<br>94.57    | 39,616<br>107,167    | 0.11%<br>0.29% | 2.41%                 | 0.01%                 | 11.25%<br>9.67%        | 0.01%<br>0.03%        |
| KeyCorp   | KEY           | 928.12               | 17.06              | 15,834               | 0.04%          | 4.81%                 | 0.00%                 | 20.00%                 | 0.01%                 |
| Fox Corp Fox Corp   | FOXA<br>FOX   | 224.65<br>235.58     | 41.37<br>38.43     | 9,294<br>9,053       | 0.03%<br>0.02% | 1.31%<br>1.41%        | 0.00%<br>0.00%        | 5.35%<br>5.35%         | 0.00%<br>0.00%        |
| State Street Corp   | STT           | 298.62               | 87.10              | 26,010               | 0.07%          | 3.49%                 | 0.00%                 | 8.82%                  | 0.01%                 |
| Norwegian Cruise Line Holdings Ltd US Bancorp                   | NCLH<br>USB   | 439.69<br>1,560.51   | 17.89<br>47.23     | 7,866<br>73,703      | 0.20%          | 4.15%                 | 0.01%                 | 50.58%<br>3.39%        | 0.01%                 |
| <del></del>   | 335           | .,000.01             | 20                 | . 5,7 50             | J.20/0         | 1070                  | J.J 170               | 2.3370                 | 3.3170                |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Weighted Average Long-Term Growth Rate [2] 10.45%

S&P 500 Estimated Required Market Return [3] 12.07%

|  |  | [4]   | [5]   | [6]                                   | [7]                              | 101                   | [0]                   | [10]                              | [11]                             |
|--|--|---|---|---------------------------------------|----------------------------------|-----------------------|-----------------------|-----------------------------------|----------------------------------|
|  |  | [4]   | [5]   | [6]                                   | [7]                              | [8]                   | [9]<br>Capitalization | [10]                              | [11]<br>Capitalization           |
|  |  | Shares                                      |   | Market                                | Weight in                        | Estimated<br>Dividend | Weighted<br>Dividend  | Bloomberg<br>Long-Term            | Weighted<br>Long-Term            |
| Name   | Ticker                                   | Outst'g                                     | Price   | Capitalization                        | Index                            | Yield                 | Yield                 | Growth Est.                       | Growth Est.                      |
| A O Smith Corp<br>Gen Digital Inc  | AOS<br>GEN                               | 119.96<br>615.53                            | 83.72<br>26.46                                  | 10,043<br>16,287                      | 0.04%                            | 1.53%<br>1.89%        | 0.00%                 | 10.49%                            | 0.00%                            |
| T Rowe Price Group Inc   | TROW                                     | 222.60                                      | 106.04  | 23,604                                | 0.06%                            | 4.68%                 | 0.00%                 | 7.30%                             | 0.00%                            |
| Waste Management Inc   | WM                                       | 401.32                                      | 212.04  | 85,095                                | 0.23%                            | 1.41%                 | 0.00%                 | 13.29%                            | 0.03%                            |
| Constellation Brands Inc Invesco Ltd   | STZ<br>IVZ                               | 182.19<br>450.03                            | 240.71<br>17.09                                 | 43,855<br>7,691                       | 0.12%<br>0.02%                   | 1.68%<br>4.80%        | 0.00%<br>0.00%        | 11.37%<br>9.27%                   | 0.01%<br>0.00%                   |
| Intuit Inc   | INTU                                     | 279.55                                      | 630.26  | 176,187                               | 0.48%                            | 0.66%                 | 0.00%                 | 18.79%                            | 0.00%                            |
| Morgan Stanley   | MS                                       | 1,620.89                                    | 103.61  | 167,940                               | 0.46%                            | 3.57%                 | 0.02%                 | 9.60%                             | 0.04%                            |
| Microchip Technology Inc<br>Crowdstrike Holdings Inc   | MCHP<br>CRWD                             | 536.51<br>232.72                            | 82.16<br>277.28                                 | 44,079<br>64,528                      |                                  | 2.21%                 |                       | -10.99%<br>35.70%                 |                                  |
| Chubb Ltd  | CRWD                                     | 403.93                                      | 284.18  | 114,790                               | 0.31%                            | 1.28%                 | 0.00%                 | 2.20%                             | 0.01%                            |
| Hologic Inc  | HOLX                                     | 232.27                                      | 81.24   | 18,870                                | 0.05%                            |                       |                       | 8.86%                             | 0.00%                            |
| Citizens Financial Group Inc   | CFG                                      | 448.30                                      | 43.05   | 19,299                                | 0.000/                           | 3.90%                 | 0.000/                | 7.420/                            | 0.000/                           |
| Jabil Inc O'Reilly Automotive Inc  | JBL<br>ORLY                              | 113.45<br>58.01                             | 109.28<br>1,129.97                              | 12,397<br>65,545                      | 0.03%<br>0.18%                   | 0.29%                 | 0.00%                 | 7.13%<br>10.21%                   | 0.00%<br>0.02%                   |
| Allstate Corp/The  | ALL                                      | 264.04                                      | 188.94  | 49,888                                |                                  | 1.95%                 |                       | 168.00%                           |                                  |
| Equity Residential   | EQR                                      | 379.14                                      | 74.88   | 28,390                                | 0.08%                            | 3.61%                 | 0.00%                 | 4.23%                             | 0.00%                            |
| BorgWarner Inc Keurig Dr Pepper Inc  | BWA<br>KDP                               | 227.77<br>1,356.09                          | 33.96<br>36.61                                  | 7,735<br>49,646                       | 0.02%<br>0.14%                   | 1.30%<br>2.35%        | 0.00%<br>0.00%        | 4.40%<br>6.90%                    | 0.00%<br>0.01%                   |
| Host Hotels & Resorts Inc  | HST                                      | 702.44                                      | 17.70   | 12,433                                | 0.1470                           | 4.52%                 | 0.0070                | 0.50%                             | 0.0170                           |
| Incyte Corp  | INCY                                     | 192.60                                      | 65.66   | 12,646                                |                                  |                       |                       | 33.16%                            |                                  |
| Simon Property Group Inc   | SPG                                      | 326.04                                      | 167.35  | 54,562                                | 0.15%                            | 4.90%                 | 0.01%                 | 1.42%                             | 0.00%                            |
| Eastman Chemical Co AvalonBay Communities Inc  | EMN<br>AVB                               | 116.86<br>142.22                            | 102.37<br>225.73                                | 11,963<br>32,103                      | 0.03%<br>0.09%                   | 3.16%<br>3.01%        | 0.00%<br>0.00%        | 6.10%<br>4.93%                    | 0.00%<br>0.00%                   |
| Prudential Financial Inc   | PRU                                      | 357.00                                      | 121.16  | 43,254                                | 0.09%                            | 4.29%                 | 0.00%                 | 4.93%<br>9.72%                    | 0.00%                            |
| United Parcel Service Inc  | UPS                                      | 732.51                                      | 128.55  | 94,164                                | 0.26%                            | 5.07%                 | 0.01%                 | 0.60%                             | 0.00%                            |
| Walgreens Boots Alliance Inc   | WBA                                      | 863.28                                      | 9.25  | 7,985                                 |                                  | 10.81%                |                       | -14.70%                           |                                  |
| STERIS PLC McKesson Corp   | STE<br>MCK                               | 98.62<br>129.68                             | 241.10<br>561.08                                | 23,777<br>72,759                      | 0.20%                            | 0.95%<br>0.51%        | 0.00%                 | 11.18%                            | 0.02%                            |
| Lockheed Martin Corp   | LMT                                      | 238.36                                      | 564.95  | 134,660                               | 0.37%                            | 2.23%                 | 0.01%                 | 2.11%                             | 0.01%                            |
| Cencora Inc  | COR                                      | 196.01                                      | 239.57  | 46,958                                | 0.13%                            | 0.85%                 | 0.00%                 | 10.67%                            | 0.01%                            |
| Campbell Soup Co   | CPB                                      | 298.55                                      | 49.72   | 14,844                                | 0.04%                            | 2.98%                 | 0.00%                 | 8.36%                             | 0.00%                            |
| Capital One Financial Corp<br>Waters Corp  | COF<br>WAT                               | 381.86<br>59.36                             | 146.93<br>346.35                                | 56,106<br>20,560                      | 0.15%<br>0.06%                   | 1.63%                 | 0.00%                 | 12.32%<br>7.80%                   | 0.02%<br>0.00%                   |
| Nordson Corp   | NDSN                                     | 57.18                                       | 256.56  | 14,671                                | 0.0070                           | 1.22%                 |                       | 7.0070                            | 0.0070                           |
| Dollar Tree Inc  | DLTR                                     | 214.94                                      | 84.49   | 18,161                                | 0.05%                            |                       |                       | 12.39%                            | 0.01%                            |
| Darden Restaurants Inc   | DRI                                      | 118.46                                      | 158.15  | 18,735                                | 0.05%                            | 3.54%                 | 0.00%                 | 10.59%                            | 0.01%                            |
| Evergy Inc Match Group Inc   | EVRG<br>MTCH                             | 229.75<br>257.90                            | 59.14<br>37.21                                  | 13,587<br>9,596                       | 0.04%                            | 4.35%                 | 0.00%                 | 4.00%<br>36.15%                   | 0.00%                            |
| Domino's Pizza Inc   | DPZ                                      | 34.97                                       | 414.21  | 14,486                                | 0.04%                            | 1.46%                 | 0.00%                 | 12.56%                            | 0.00%                            |
| NVR Inc  | NVR                                      | 3.08  | 9,172.46  | 28,233                                | 0.08%                            |                       |                       | 7.60%                             | 0.01%                            |
| NetApp Inc   | NTAP                                     | 204.78                                      | 120.72  | 24,721                                | 0.07%                            | 1.72%                 | 0.00%                 | 5.34%                             | 0.00%                            |
| Old Dominion Freight Line Inc DaVita Inc   | ODFL<br>DVA                              | 214.30<br>83.90                             | 192.80<br>150.92                                | 41,316<br>12,662                      | 0.11%<br>0.03%                   | 0.54%                 | 0.00%                 | 3.02%<br>20.00%                   | 0.00%<br>0.01%                   |
| Hartford Financial Services Group Inc/The  | HIG                                      | 293.01                                      | 115.63  | 33,881                                | 0.09%                            | 1.63%                 | 0.00%                 | 12.37%                            | 0.01%                            |
| Iron Mountain Inc  | IRM                                      | 293.34                                      | 113.26  | 33,223                                |                                  | 2.53%                 |                       |                                   |                                  |
| Estee Lauder Cos Inc/The   | EL                                       | 233.18                                      | 91.66   | 21,373                                | 0.06%                            | 2.88%                 | 0.00%                 | 14.58%                            | 0.01%                            |
| Cadence Design Systems Inc Tyler Technologies Inc  | CDNS<br>TYL                              | 273.82<br>42.67                             | 268.93<br>587.87                                | 73,638<br>25,086                      | 0.20%                            |                       |                       | 16.20%                            | 0.03%                            |
| Universal Health Services Inc  | UHS                                      | 59.46                                       | 237.77  | 14,138                                | 0.04%                            | 0.34%                 | 0.00%                 | 15.50%                            | 0.01%                            |
| Skyworks Solutions Inc   | SWKS                                     | 159.72                                      | 109.59  | 17,503                                |                                  | 2.55%                 |                       | -2.57%                            |                                  |
| Quest Diagnostics Inc Rockwell Automation Inc  | DGX<br>ROK                               | 111.32<br>113.47                            | 156.97<br>272.03                                | 17,473<br>30,866                      | 0.05%<br>0.08%                   | 1.91%<br>1.84%        | 0.00%<br>0.00%        | 6.05%<br>1.73%                    | 0.00%<br>0.00%                   |
| Kraft Heinz Co/The   | KHC                                      | 1,209.08                                    | 35.43   | 42,838                                | 0.08%                            | 4.52%                 | 0.00%                 | 2.51%                             | 0.00%                            |
| American Tower Corp  | AMT                                      | 467.08                                      | 224.06  | 104,654                               | 0.29%                            | 2.89%                 | 0.01%                 | 12.31%                            | 0.04%                            |
| Regeneron Pharmaceuticals Inc  | REGN                                     | 108.42                                      | 1,184.69  | 128,441                               |                                  |                       |                       | 52.50%                            |                                  |
| Amazon.com Inc Jack Henry & Associates Inc   | AMZN<br>JKHY                             | 10,495.57<br>72.91                          | 178.50<br>173.03                                | 1,873,459<br>12,615                   | 0.03%                            | 1.27%                 | 0.00%                 | 28.99%<br>9.73%                   | 0.00%                            |
| Ralph Lauren Corp  | RL                                       | 40.06                                       | 171.26  | 6,860                                 | 0.02%                            | 1.93%                 | 0.00%                 | 11.05%                            | 0.00%                            |
| BXP Inc  | BXP                                      | 157.93                                      | 75.22   | 11,880                                | 0.03%                            | 5.21%                 | 0.00%                 | 0.40%                             | 0.00%                            |
| Amphenol Corp  | APH                                      | 1,204.29                                    | 67.45   | 81,229                                | 0.22%                            | 0.98%                 | 0.00%                 | 16.86%                            | 0.04%                            |
| Howmet Aerospace Inc Valero Energy Corp  | HWM<br>VLO                               | 408.15<br>320.38                            | 96.66<br>146.73                                 | 39,451<br>47,009                      |                                  | 0.33%<br>2.92%        |                       | 22.11%<br>-24.00%                 |                                  |
| Synopsys Inc   | SNPS                                     | 153.61                                      | 519.58  | 79,815                                | 0.22%                            | 2.0270                |                       | 16.33%                            | 0.04%                            |
| Etsy Inc   | ETSY                                     | 114.75                                      | 55.09   | 6,322                                 | 0.02%                            |                       |                       | 4.06%                             | 0.00%                            |
| CH Robinson Worldwide Inc Accenture PLC  | CHRW<br>ACN                              | 117.28<br>626.38                            | 103.51<br>341.95                                | 12,140<br>214,192                     | 0.03%<br>0.59%                   | 2.40%<br>1.51%        | 0.00%<br>0.01%        | 17.48%<br>5.80%                   | 0.01%<br>0.03%                   |
| TransDigm Group Inc  | TDG                                      | 56.11                                       | 1,373.21  | 77,052                                | 0.39%                            | 1.5170                | 0.0176                | 19.57%                            | 0.03%                            |
| Yum! Brands Inc  | YUM                                      | 281.17                                      | 134.92  | 37,935                                | 0.10%                            | 1.99%                 | 0.00%                 | 11.41%                            | 0.01%                            |
| Prologis Inc   | PLD                                      | 925.91                                      | 127.82  | 118,350                               | 0.32%                            | 3.00%                 | 0.01%                 | 5.36%                             | 0.02%                            |
| FirstEnergy Corp VeriSign Inc  | FE<br>VRSN                               | 575.92<br>97.60                             | 43.92<br>183.90                                 | 25,294<br>17,949                      | 0.07%                            | 3.87%                 | 0.00%                 | 7.02%                             | 0.00%                            |
| Quanta Services Inc  | PWR                                      | 147.33                                      | 275.13  | 40,535                                |                                  | 0.13%                 |                       |                                   |                                  |
| Henry Schein Inc   | HSIC                                     | 126.71                                      | 70.55   | 8,939                                 | 0.02%                            |                       |                       | 9.01%                             | 0.00%                            |
| Ameren Corp  | AEE                                      | 266.51                                      | 82.51   | 21,990                                | 0.06%                            | 3.25%                 | 0.00%                 | 6.16%                             | 0.00%                            |
| ANSYS Inc<br>FactSet Research Systems Inc  | ANSS<br>FDS                              | 87.39<br>38.04                              | 321.42<br>422.84                                | 28,088<br>16,085                      | 0.04%                            | 0.98%                 | 0.00%                 | 9.67%                             | 0.00%                            |
| NVIDIA Corp  | NVDA                                     | 24,530.00                                   | 119.37  | 2,928,146                             | 0.0470                           | 0.03%                 | 0.0070                | 44.35%                            | 0.0070                           |
| Cognizant Technology Solutions Corp  | CTSH                                     | 495.66                                      | 77.77   | 38,547                                | 0.11%                            | 1.54%                 | 0.00%                 | 6.20%                             | 0.01%                            |
| Intuitive Surgical Inc   | ISRG                                     | 355.35                                      | 492.63  | 175,058                               | 0.48%                            |                       |                       | 17.51%                            | 0.08%                            |
| Take-Two Interactive Software Inc Republic Services Inc  | TTWO<br>RSG                              | 175.28<br>314.07                            | 161.71<br>208.21                                | 28,345<br>65,392                      | 0.18%                            | 1.11%                 | 0.00%                 | 60.49%<br>10.33%                  | 0.02%                            |
| eBay Inc   | EBAY                                     | 489.00                                      | 59.10   | 28,900                                | 0.18%                            | 1.83%                 | 0.00%                 | 10.33%                            | 0.02 %                           |
| Goldman Sachs Group Inc/The  | GS                                       | 315.80                                      | 510.25  | 161,137                               | 0.44%                            | 2.35%                 | 0.01%                 | 14.20%                            | 0.06%                            |
| SBA Communications Corp  | SBAC                                     | 107.47                                      | 226.66  | 24,360                                | 0.07%                            | 1.73%                 | 0.00%                 | 15.96%                            | 0.01%                            |
| Sempra   | SRE                                      | 633.15                                      | 82.18<br>487.74                                 | 52,032<br>88,817                      | 0.14%<br>0.24%                   | 3.02%<br>0.70%        | 0.00%<br>0.00%        | 5.27%<br>14.41%                   | 0.01%<br>0.04%                   |
| Moody's Corp   |  | 182 10                                      |   | 55,517                                | J.27/U                           | 0.1070                | 0.0070                | _ T. T_/U                         | U.U-T /U                         |
|  | MCO<br>ON                                | 182.10<br>428.36                            | 77.87   | 33,356                                | 0.09%                            |                       |                       | 1.28%                             | 0.00%                            |
| ON Semiconductor Corp Booking Holdings Inc   | MCO<br>ON<br>BKNG                        | 428.36<br>33.52                             | 77.87<br>3,909.23                               | 131,053                               | 0.36%                            | 0.90%                 | 0.00%                 | 14.59%                            | 0.05%                            |
| F5 Inc   | MCO<br>ON<br>BKNG<br>FFIV                | 428.36<br>33.52<br>58.28                    | 77.87<br>3,909.23<br>203.15                     | 131,053<br>11,840                     | 0.36%<br>0.03%                   | 0.90%                 | 0.00%                 | 14.59%<br>7.83%                   | 0.05%<br>0.00%                   |
| ON Semiconductor Corp Booking Holdings Inc F5 Inc Akamai Technologies Inc  | MCO<br>ON<br>BKNG<br>FFIV<br>AKAM        | 428.36<br>33.52<br>58.28<br>151.53          | 77.87<br>3,909.23<br>203.15<br>101.84           | 131,053<br>11,840<br>15,431           | 0.36%<br>0.03%<br>0.04%          | 0.90%                 | 0.00%                 | 14.59%<br>7.83%<br>6.12%          | 0.05%<br>0.00%<br>0.00%          |
| ON Semiconductor Corp Booking Holdings Inc F5 Inc  | MCO<br>ON<br>BKNG<br>FFIV                | 428.36<br>33.52<br>58.28                    | 77.87<br>3,909.23<br>203.15                     | 131,053<br>11,840                     | 0.36%<br>0.03%                   | 0.90%                 | 0.00%                 | 14.59%<br>7.83%                   | 0.05%<br>0.00%                   |
| ON Semiconductor Corp Booking Holdings Inc F5 Inc Akamai Technologies Inc Charles River Laboratories International Inc | MCO<br>ON<br>BKNG<br>FFIV<br>AKAM<br>CRL | 428.36<br>33.52<br>58.28<br>151.53<br>51.63 | 77.87<br>3,909.23<br>203.15<br>101.84<br>197.75 | 131,053<br>11,840<br>15,431<br>10,210 | 0.36%<br>0.03%<br>0.04%<br>0.03% |                       |                       | 14.59%<br>7.83%<br>6.12%<br>5.20% | 0.05%<br>0.00%<br>0.00%<br>0.00% |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Weighted Average Long-Term Growth Rate [2] 10.45%

S&P 500 Estimated Required Market Return [3] 12.07%

|   |              | [4]                | [5]              | [6]               | [7]            | [8]            | [9]<br>Capitalization | [10]                   | [11] Capitalization   |
|---|--------------|--------------------|------------------|-------------------|----------------|----------------|-----------------------|------------------------|-----------------------|
|   |              | Shares             |                  | Market            | Weight in      |                | Weighted<br>Dividend  | Bloomberg<br>Long-Term | Weighted<br>Long-Term |
| Name  | Ticker       | Outst'g            | Price            | Capitalization    | Index          | Yield          | Yield                 | Growth Est.            | Growth Est.           |
| Alphabet Inc Teleflex Inc                                       | GOOGL<br>TFX | 5,859.00<br>47.12  | 163.38<br>245.17 | 957,243<br>11,552 | 2.62%<br>0.03% | 0.49%<br>0.55% | 0.01%<br>0.00%        | 15.01%<br>7.95%        | 0.39%<br>0.00%        |
| Allegion plc  | ALLE         | 87.13              | 138.84           | 12,097            | 0.03%          | 1.38%          | 0.00%                 | 7.73%                  | 0.00%                 |
| Netflix Inc Warner Bros Discovery Inc                           | NFLX<br>WBD  | 429.17<br>2,451.91 | 701.35<br>7.84   | 300,995<br>19,223 |                |                |                       | 35.72%<br>28.63%       |                       |
| Agilent Technologies Inc  | Α            | 287.33             | 142.92           | 41,065            | 0.11%          | 0.66%          | 0.00%                 | 5.74%                  | 0.01%                 |
| Trimble Inc Elevance Health Inc                                 | TRMB<br>ELV  | 244.21<br>231.89   | 56.69<br>556.89  | 13,844<br>129,135 | 0.35%          | 1.17%          | 0.00%                 | 11.79%                 | 0.04%                 |
| CME Group Inc   | CME          | 360.09             | 215.74           | 77,687            | 0.21%          | 2.13%          | 0.00%                 | 3.82%                  | 0.01%                 |
| Juniper Networks Inc BlackRock Inc                              | JNPR<br>BLK  | 329.16<br>148.13   | 38.88<br>901.81  | 12,798<br>133,583 | 0.04%<br>0.37% | 2.26%<br>2.26% | 0.00%<br>0.01%        | 6.00%<br>9.76%         | 0.00%<br>0.04%        |
| DTE Energy Co   | DTE          | 206.93             | 125.02           | 25,870            | 0.07%          | 3.26%          | 0.00%                 | 10.27%                 | 0.01%                 |
| Celanese Corp Nasdaq Inc  | CE<br>NDAQ   | 109.26<br>575.94   | 130.60<br>72.08  | 14,270<br>41,514  | 0.04%<br>0.11% | 2.14%<br>1.33% | 0.00%<br>0.00%        | 0.56%<br>10.30%        | 0.00%<br>0.01%        |
| Philip Morris International Inc                                 | PM           | 1,554.80           | 123.29           | 191,692           | 0.53%          | 4.22%          | 0.02%                 | 9.36%                  | 0.05%                 |
| Ingersoll Rand Inc Salesforce Inc                               | IR<br>CRM    | 403.48<br>956.00   | 91.45<br>252.90  | 36,899<br>241,772 | 0.66%          | 0.09%<br>0.63% | 0.00%                 | 17.52%                 | 0.12%                 |
| Roper Technologies Inc  | ROP          | 107.20             | 554.41           | 59,432            |                | 0.54%          |                       |                        |                       |
| Huntington Ingalls Industries Inc MetLife Inc                   | HII<br>MET   | 39.22<br>700.33    | 282.77<br>77.48  | 11,089<br>54,261  | 0.03%<br>0.15% | 1.84%<br>2.81% | 0.00%<br>0.00%        | 7.62%<br>14.38%        | 0.00%<br>0.02%        |
| Tapestry Inc  | TPR          | 230.22             | 40.97            | 9,432             | 0.03%          | 3.42%          | 0.00%                 | 5.52%                  | 0.00%                 |
| CSX Corp Edwards Lifesciences Corp                              | CSX<br>EW    | 1,938.74<br>602.40 | 34.27<br>69.96   | 66,441<br>42,144  | 0.18%<br>0.12% | 1.40%          | 0.00%                 | 9.21%<br>8.56%         | 0.02%<br>0.01%        |
| Ameriprise Financial Inc  | AMP          | 98.19              | 449.44           | 44,130            | 0.12%          | 1.32%          | 0.00%                 | 16.59%                 | 0.02%                 |
| Zebra Technologies Corp Zimmer Biomet Holdings Inc              | ZBRA<br>ZBH  | 51.58<br>203.65    | 345.38<br>115.46 | 17,815<br>23,514  | 0.06%          | 0.83%          | 0.00%                 | 6.96%                  | 0.00%                 |
| Camden Property Trust   | CPT          | 106.64             | 125.20           | 13,351            | 0.04%          | 3.29%          | 0.00%                 | 1.87%                  | 0.00%                 |
| CBRE Group Inc Mastercard Inc                                   | CBRE<br>MA   | 306.43<br>916.71   | 115.14<br>483.34 | 35,282<br>443,083 | 1.21%          | 0.55%          | 0.01%                 | 15.18%                 | 0.18%                 |
| CarMax Inc  | KMX          | 156.08             | 84.55            | 13,196            | 0.04%          | 0.55%          | 0.0176                | 17.91%                 | 0.01%                 |
| Intercontinental Exchange Inc                                   | ICE<br>FIS   | 574.14<br>545.57   | 161.55<br>82.45  | 92,753<br>44,982  | 0.25%          | 1.11%<br>1.75% | 0.00%                 | 9.95%                  | 0.03%                 |
| Fidelity National Information Services Inc Smurfit WestRock PLC | SW           | 545.57             | 62.45<br>47.42   | 24,628            | 0.07%          | 2.55%          | 0.00%                 | 22.20%<br>1.00%        | 0.00%                 |
| Chipotle Mexican Grill Inc                                      | CMG          | 1,369.48           | 56.08            | 76,800            |                | 1 200/         |                       | 22.64%                 |                       |
| Wynn Resorts Ltd Live Nation Entertainment Inc                  | WYNN<br>LYV  | 110.99<br>232.11   | 76.88<br>97.67   | 8,533<br>22,671   |                | 1.30%          |                       |                        |                       |
| Assurant Inc  | AIZ          | 51.79              | 195.63           | 10,132            | 0.03%          | 1.47%          | 0.00%                 | 7.14%                  | 0.00%                 |
| NRG Energy Inc Monster Beverage Corp                            | NRG<br>MNST  | 206.38<br>979.54   | 85.01<br>47.13   | 17,544<br>46,166  | 0.05%<br>0.13% | 1.92%          | 0.00%                 | 4.00%<br>10.18%        | 0.00%<br>0.01%        |
| Regions Financial Corp  | RF           | 915.13             | 23.17            | 21,203            | 0.06%          | 4.32%          | 0.00%                 | 4.68%                  | 0.00%                 |
| Baker Hughes Co<br>Mosaic Co/The                                | BKR<br>MOS   | 993.42<br>318.64   | 35.17<br>28.57   | 34,939<br>9,103   |                | 2.39%<br>2.94% |                       | 69.21%<br>-21.74%      |                       |
| Expedia Group Inc   | EXPE         | 124.66             | 139.09           | 17,338            | 0.05%          | 0.440/         |                       | 19.59%                 | 0.01%                 |
| CF Industries Holdings Inc APA Corp                             | CF<br>APA    | 180.41<br>369.91   | 83.09<br>28.49   | 14,990<br>10,539  |                | 2.41%<br>3.51% |                       | -9.54%<br>-5.79%       |                       |
| Leidos Holdings Inc   | LDOS         | 134.71             | 158.51           | 21,354            | 0.06%          | 0.96%          | 0.00%                 | 11.76%                 | 0.01%                 |
| Alphabet Inc First Solar Inc                                    | GOOG<br>FSLR | 5,585.00<br>107.05 | 165.11<br>227.37 | 922,139<br>24,339 | 2.53%          | 0.48%          | 0.01%                 | 15.01%<br>41.25%       | 0.38%                 |
| TE Connectivity Ltd   | TEL          | 303.92             | 153.60           | 46,682            | 0.13%          | 1.69%          | 0.00%                 | 5.41%                  | 0.01%                 |
| Discover Financial Services Visa Inc                            | DFS<br>V     | 251.07<br>1,670.45 | 138.71<br>276.37 | 34,826<br>461,661 | 0.10%<br>1.27% | 2.02%<br>0.75% | 0.00%<br>0.01%        | 11.65%<br>12.33%       | 0.01%<br>0.16%        |
| Mid-America Apartment Communities Inc                           | MAA          | 116.88             | 162.37           | 18,977            | 0.05%          | 3.62%          | 0.00%                 | 0.65%                  | 0.00%                 |
| Xylem Inc/NY Marathon Petroleum Corp                            | XYL<br>MPC   | 242.89<br>334.68   | 137.53<br>177.12 | 33,405<br>59,279  |                | 1.05%<br>1.86% |                       | -13.00%                |                       |
| Tractor Supply Co   | TSCO         | 107.87             | 267.55           | 28,860            | 0.08%          | 1.64%          | 0.00%                 | 5.68%                  | 0.00%                 |
| Advanced Micro Devices Inc ResMed Inc                           | AMD<br>RMD   | 1,618.48<br>146.93 | 148.56<br>245.02 | 240,442<br>36,001 | 0.10%          | 0.87%          | 0.00%                 | 25.66%<br>9.57%        | 0.01%                 |
| Mettler-Toledo International Inc                                | MTD          | 21.36              | 1,439.08         | 30,734            | 0.08%          |                |                       | 9.15%                  | 0.01%                 |
| VICI Properties Inc Copart Inc                                  | VICI<br>CPRT | 1,043.14<br>962.30 | 33.48<br>52.96   | 34,924<br>50,963  | 0.10%          | 4.96%          | 0.00%                 | 1.83%                  | 0.00%                 |
| Jacobs Solutions Inc  | J            | 124.25             | 150.88           | 18,747            | 0.05%          | 0.77%          | 0.00%                 | 10.87%                 | 0.01%                 |
| Albemarle Corp Fortinet Inc                                     | ALB<br>FTNT  | 117.53<br>764.91   | 90.25<br>76.71   | 10,607<br>58,676  | 0.16%          | 1.80%          |                       | 35.42%<br>8.66%        | 0.01%                 |
| Moderna Inc   | MRNA         | 384.40             | 77.40            | 29,752            | 0.08%          |                |                       | 17.95%                 | 0.01%                 |
| Essex Property Trust Inc<br>CoStar Group Inc                    | ESS<br>CSGP  | 64.22<br>409.82    | 301.79<br>77.30  | 19,380<br>31,679  | 0.05%<br>0.09% | 3.25%          | 0.00%                 | 4.50%<br>13.84%        | 0.00%<br>0.01%        |
| Realty Income Corp  | 0            | 870.87             | 61.85            | 53,861            | 0.15%          | 5.10%          | 0.01%                 | 3.85%                  | 0.01%                 |
| Westinghouse Air Brake Technologies Corp Pool Corp              | WAB<br>POOL  | 175.18<br>38.26    | 169.57<br>351.62 | 29,706<br>13,452  | 0.08%          | 0.47%<br>1.37% | 0.00%                 | 16.12%<br>-0.04%       | 0.01%                 |
| Western Digital Corp  | WDC          | 343.45             | 65.59            | 22,527            | 0.050/         | 0.440/         | 0.000/                | -10.00%                | 0.050/                |
| PepsiCo Inc Diamondback Energy Inc                              | PEP<br>FANG  | 1,373.57<br>178.39 | 172.88<br>195.11 | 237,463<br>34,806 | 0.65%<br>0.10% | 3.14%<br>4.80% | 0.02%<br>0.00%        | 7.40%<br>8.34%         | 0.05%<br>0.01%        |
| Palo Alto Networks Inc  | PANW         | 323.80             | 362.72           | 117,449           | 0.32%          |                |                       | 11.52%                 | 0.04%                 |
| ServiceNow Inc Church & Dwight Co Inc                           | NOW<br>CHD   | 206.00<br>244.82   | 855.00<br>101.88 | 176,130<br>24,942 | 0.07%          | 1.11%          | 0.00%                 | 7.35%                  | 0.01%                 |
| Federal Realty Investment Trust                                 | FRT          | 83.67              | 115.00           | 9,622             | 0.03%          | 3.83%          | 0.00%                 | 4.97%                  | 0.00%                 |
| MGM Resorts International American Electric Power Co Inc        | MGM<br>AEP   | 303.77<br>532.12   | 37.59<br>100.28  | 11,419<br>53,361  | 0.15%          | 3.51%          | 0.01%                 | 20.80%<br>6.25%        | 0.01%                 |
| Invitation Homes Inc  | INVH         | 612.59             | 36.84            | 22,568            | 0.06%          | 3.04%          | 0.00%                 | 5.19%                  | 0.00%                 |
| PTC Inc  JB Hunt Transport Services Inc                         | PTC<br>JBHT  | 120.14<br>101.99   | 179.09<br>173.20 | 21,515<br>17,664  | 0.06%<br>0.05% | 0.99%          | 0.00%                 | 14.76%<br>9.73%        | 0.01%<br>0.00%        |
| Lam Research Corp   | LRCX         | 129.88             | 821.01           | 106,629           | 0.29%          | 1.12%          | 0.00%                 | 16.29%                 | 0.05%                 |
| Mohawk Industries Inc GE HealthCare Technologies Inc            | MHK<br>GEHC  | 63.12<br>456.66    | 155.14<br>84.82  | 9,792<br>38,734   | 0.03%<br>0.11% | 0.14%          | 0.00%                 | 4.45%<br>10.92%        | 0.00%<br>0.01%        |
| Pentair PLC   | PNR          | 165.50             | 88.69            | 14,678            | 0.04%          | 1.04%          | 0.00%                 | 12.50%                 | 0.01%                 |
| Vertex Pharmaceuticals Inc Amcor PLC                            | VRTX<br>AMCR | 258.10<br>1,445.34 | 495.89<br>11.44  | 127,990<br>16,535 | 0.35%<br>0.05% | 4.37%          | 0.00%                 | 11.00%<br>3.71%        | 0.04%<br>0.00%        |
| Meta Platforms Inc  | META         | 2,184.73           | 521.31           | 1,138,921         | 3.12%          | 0.38%          | 0.01%                 | 19.80%                 | 0.62%                 |
| T-Mobile US Inc United Rentals Inc                              | TMUS<br>URI  | 1,166.78<br>66.14  | 198.72<br>741.26 | 231,863<br>49,024 | 0.64%<br>0.13% | 1.31%<br>0.88% | 0.01%<br>0.00%        | 5.00%<br>7.45%         | 0.03%<br>0.01%        |
| Alexandria Real Estate Equities Inc                             | ARE          | 174.93             | 119.57           | 20,916            | 0.06%          | 4.35%          | 0.00%                 | 3.03%                  | 0.00%                 |
| Honeywell International Inc Delta Air Lines Inc                 | HON<br>DAL   | 649.67<br>645.42   | 207.91<br>42.49  | 135,073<br>27,424 | 0.37%<br>0.08% | 2.08%<br>1.41% | 0.01%<br>0.00%        | 8.65%<br>6.74%         | 0.03%<br>0.01%        |
| United Airlines Holdings Inc                                    | UAL          | 328.80             | 44.04            | 14,480            | 0.04%          |                | 0.0070                | 5.31%                  | 0.00%                 |
| Seagate Technology Holdings PLC                                 | STX          | 210.20             | 99.55            | 20,925            |                | 2.81%          |                       |                        |                       |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Weighted Average Long-Term Growth Rate [2] 10.45% S&P 500 Estimated Required Market Return [3] 12.07%

### STANDARD AND POOR'S 500 INDEX

|                               |        | [4]      | [5]    | [6]            | [7]   | [8]       | [9]            | [10]        | [11]           |
|-------------------------------|--------|----------|--------|----------------|-------|-----------|----------------|-------------|----------------|
|                               |        |          |        |                |       |           | Capitalization |             | Capitalization |
|                               |        |          |        |                |       | Estimated | Weighted       | Bloomberg   | Weighted       |
|                               |        | Shares   |        | Market         | •     | Dividend  | Dividend       | Long-Term   | Long-Term      |
| Name                          | Ticker | Outst'g  | Price  | Capitalization | Index | Yield     | Yield          | Growth Est. | Growth Est.    |
| News Corp                     | NWS    | 190.68   | 29.43  | 5,612          |       | 0.68%     |                |             |                |
| Centene Corp                  | CNC    | 526.03   | 78.83  | 41,467         | 0.11% |           |                | 4.40%       | 0.01%          |
| Martin Marietta Materials Inc | MLM    | 61.12    | 533.37 | 32,598         | 0.09% | 0.59%     | 0.00%          | 7.47%       | 0.01%          |
| Teradyne Inc                  | TER    | 163.18   | 136.73 | 22,311         | 0.06% | 0.35%     | 0.00%          | 16.14%      | 0.01%          |
| PayPal Holdings Inc           | PYPL   | 1,022.33 | 72.43  | 74,048         | 0.20% |           |                | 12.03%      | 0.02%          |
| Tesla Inc                     | TSLA   | 3,194.64 | 214.11 | 684,004        |       |           |                | -11.00%     |                |
| KKR & Co Inc                  | KKR    | 887.44   | 123.77 | 109,838        |       | 0.57%     |                |             |                |
| Arch Capital Group Ltd        | ACGL   | 376.06   | 113.09 | 42,528         | 0.12% |           |                | 6.13%       | 0.01%          |
| Dow Inc                       | DOW    | 703.27   | 53.58  | 37,681         |       | 5.23%     |                | -1.67%      |                |
| Everest Group Ltd             | EG     | 43.27    | 392.24 | 16,974         | 0.05% | 2.04%     | 0.00%          | 2.48%       | 0.00%          |
| Teledyne Technologies Inc     | TDY    | 46.78    | 432.80 | 20,248         |       |           |                |             |                |
| GE Vernova Inc                | GEV    | 274.80   | 201.00 | 55,235         |       |           |                | 70.40%      |                |
| News Corp                     | NWSA   | 378.33   | 28.33  | 10,718         |       | 0.71%     |                |             |                |
| Exelon Corp                   | EXC    | 999.74   | 38.09  | 38,080         | 0.10% | 3.99%     | 0.00%          | 5.31%       | 0.01%          |
| Global Payments Inc           | GPN    | 254.44   | 111.01 | 28,245         | 0.08% | 0.90%     | 0.00%          | 9.30%       | 0.01%          |
| Crown Castle Inc              | CCI    | 434.57   | 112.02 | 48,680         | 0.13% | 5.59%     | 0.01%          | 1.13%       | 0.00%          |
| Aptiv PLC                     | APTV   | 265.76   | 71.53  | 19,010         | 0.05% |           |                | 16.91%      | 0.01%          |
| Align Technology Inc          | ALGN   | 74.70    | 237.22 | 17,720         | 0.05% |           |                | 9.53%       | 0.00%          |
| Kenvue Inc                    | KVUE   | 1,915.17 | 21.95  | 42,038         | 0.12% | 3.74%     | 0.00%          | 13.58%      | 0.02%          |
| Targa Resources Corp          | TRGP   | 219.08   | 146.90 | 32,183         | 0.09% | 2.04%     | 0.00%          | 16.74%      | 0.01%          |
| Bunge Global SA               | BG     | 141.65   | 101.38 | 14,361         |       | 2.68%     |                | -8.59%      |                |
| LKQ Corp                      | LKQ    | 263.26   | 41.59  | 10,949         |       | 2.89%     |                |             |                |
| Deckers Outdoor Corp          | DECK   | 25.41    | 959.29 | 24,377         | 0.07% |           |                | 10.80%      | 0.01%          |
| Zoetis Inc                    | ZTS    | 453.05   | 183.49 | 83,130         | 0.23% | 0.94%     | 0.00%          | 10.36%      | 0.02%          |
| Equinix Inc                   | EQIX   | 94.95    | 834.36 | 79,218         | 0.22% | 2.04%     | 0.00%          | 14.03%      | 0.03%          |
| Digital Realty Trust Inc      | DLR    | 327.41   | 151.61 | 49,639         | 0.14% | 3.22%     | 0.00%          | 3.21%       | 0.00%          |
| Molina Healthcare Inc         | MOH    | 58.60    | 349.79 | 20,498         | 0.06% |           |                | 11.98%      | 0.01%          |
| Las Vegas Sands Corp          | LVS    | 736.43   | 38.99  | 28,713         |       | 2.05%     |                |             |                |

Notes:

[1] Equals sum of Col. [9]

[2] Equals sum of Col. [11]

[3] Equals ([1] x (1 + (0.5 x [2]))) + [2] [4] Bloomberg Professional 30-day average as of August 31, 2024 [5] Bloomberg Professional 30-day average as of August 31, 2024

[6] Equals [4] x [5]

[7] Equals weight in S&P 500 based on market capitalization [6] if Growth Rate >0% and ≤20%

[8] Bloomberg Professional 30-day average as of August 31, 2024

[9] Equals [7] x [8] [10] Bloomberg Professional 30-day average as of August 31, 2024

[11] Equals [7] x [10]

### Dr. Won's Incorrect Proposed Adjustment to Calculation of Market Return from Analysts' Long-Term Growth Estimates in Bulkley Direct Testimony

Estimated Weighted Average Dividend Yield [1] 1.54%

10.02%

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3] Total [4]

Won Proposed
Weighting
9.55% 80% weighting
20% weighting
8.42%

S&P 500 Estimated Required Market Return [5]

|   | _            | [6]                  | [7]              | [8]                | [9]            | [10]           | [11]                             | [12]                   | [13]                              |
|---|--------------|----------------------|------------------|--------------------|----------------|----------------|----------------------------------|------------------------|-----------------------------------|
|   |              | Shares               |                  | Market             | Weight in      |                | Capitalization Weighted Dividend | Bloomberg<br>Long-Term | Capitalization Weighted Long-Term |
| Name  | Ticker       | Outst'g              | Price            | Capitalization     | Index          | Yield          | Yield                            | Growth Est.            | Growth Est.                       |
| LyondellBasell Industries NV                            | LYB          | 325.09               | 98.70            | 32,086             | 0.500/         | 5.43%          | 0.040/                           | -8.07%                 | 0.000/                            |
| American Express Co<br>Verizon Communications Inc       | AXP<br>VZ    | 710.91<br>4,209.52   | 258.65<br>41.78  | 183,877<br>175,874 | 0.50%<br>0.48% | 1.08%<br>6.37% | 0.01%<br>0.03%                   | 15.74%<br>0.86%        | 0.08%<br>0.00%                    |
| Broadcom Inc  | AVGO         | 4,654.88             | 162.82           | 757,908            | 2.08%          | 1.29%          | 0.03%                            | 15.88%                 | 0.33%                             |
| Boeing Co/The<br>Solventum Corp                         | BA<br>SOLV   | 616.17<br>172.71     | 173.74<br>64.11  | 107,053<br>11,073  |                |                |                                  | 38.60%<br>-2.00%       |                                   |
| Caterpillar Inc   | CAT          | 484.90               | 356.10           | 172,672            | 0.47%          | 1.58%          | 0.01%                            | 8.38%                  | 0.04%                             |
| JPMorgan Chase & Co                                     | JPM<br>CVX   | 2,845.17<br>1,828.92 | 224.80<br>147.95 | 639,593<br>270,588 | 1.75%<br>0.74% | 2.05%<br>4.41% | 0.04%<br>0.03%                   | 4.05%<br>7.00%         | 0.07%<br>0.05%                    |
| Chevron Corp<br>Coca-Cola Co/The                        | KO           | 4,309.87             | 72.47            | 312,336            | 0.74%          | 2.68%          | 0.03%                            | 6.36%                  | 0.05%                             |
| AbbVie Inc  | ABBV         | 1,766.34             | 196.31           | 346,751            | 0.95%          | 3.16%          | 0.03%                            | 8.80%                  | 0.08%                             |
| Walt Disney Co/The<br>Corpay Inc                        | DIS<br>CPAY  | 1,813.59<br>69.43    | 90.38<br>315.55  | 163,912<br>21,910  | 0.45%<br>0.06% | 1.00%          | 0.00%                            | 18.89%<br>14.87%       | 0.08%<br>0.00%                    |
| Extra Space Storage Inc                                 | EXR          | 211.93               | 177.00           | 37,511             |                | 3.66%          |                                  | -0.20%                 |                                   |
| Exxon Mobil Corp<br>Phillips 66                         | XOM<br>PSX   | 4,442.83<br>418.57   | 117.94<br>140.31 | 523,987<br>58,729  | 1.44%          | 3.22%<br>3.28% | 0.05%                            | 5.00%<br>-9.00%        | 0.07%                             |
| General Electric Co                                     | GE           | 1,084.31             | 174.62           | 189,342            |                | 0.64%          |                                  | 29.30%                 |                                   |
| HP Inc  | HPQ          | 963.72               | 36.18            | 34,867             | 0.10%          | 3.05%          | 0.00%                            | 1.42%                  | 0.00%                             |
| Home Depot Inc/The Monolithic Power Systems Inc         | HD<br>MPWR   | 993.29<br>48.75      | 368.50<br>934.68 | 366,028<br>45,568  | 1.00%          | 2.44%<br>0.53% | 0.02%                            | 3.87%                  | 0.04%                             |
| International Business Machines Corp                    | IBM          | 921.15               | 202.13           | 186,192            | 0.51%          | 3.30%          | 0.02%                            | 3.90%                  | 0.02%                             |
| Johnson & Johnson<br>Lululemon Athletica Inc            | JNJ<br>LULU  | 2,407.24<br>117.66   | 165.86<br>259.47 | 399,265<br>30,529  | 1.09%<br>0.08% | 2.99%          | 0.03%                            | 3.73%<br>7.00%         | 0.04%<br>0.00%                    |
| McDonald's Corp   | MCD          | 717.34               | 286.99           | 205,870            | 0.06%          | 2.33%          | 0.01%                            | 7.00%<br>5.15%         | 0.00%                             |
| Merck & Co Inc  | MRK          | 2,534.81             | 118.45           | 300,248            | 0.82%          | 2.60%          | 0.02%                            | 14.00%                 | 0.12%                             |
| 3M Co<br>American Water Works Co Inc                    | MMM<br>AWK   | 549.35<br>194.86     | 134.69<br>143.12 | 73,992<br>27,889   | 0.08%          | 2.08%<br>2.14% | 0.00%                            | -5.37%<br>8.00%        | 0.01%                             |
| Bank of America Corp                                    | BAC          | 7,759.58             | 40.75            | 316,203            | 0.0070         | 2.55%          | 0.0070                           | 0.0070                 | 0.0170                            |
| Pfizer Inc  | PFE          | 5,666.70             | 29.01            | 164,391            | 0.45%          | 5.79%          | 0.03%                            | 6.39%                  | 0.03%                             |
| Procter & Gamble Co/The AT&T Inc                        | PG<br>T      | 2,349.71<br>7,170.24 | 171.54<br>19.90  | 403,069<br>142,688 | 1.10%<br>0.39% | 2.35%<br>5.58% | 0.03%<br>0.02%                   | 7.37%<br>1.84%         | 0.08%<br>0.01%                    |
| Travelers Cos Inc/The                                   | TRV          | 227.93               | 228.07           | 51,984             | 0.14%          | 1.84%          | 0.00%                            | 18.21%                 | 0.03%                             |
| RTX Corp  | RTX<br>ADI   | 1,330.24<br>496.49   | 123.34           | 164,072            | 0.45%          | 2.04%<br>1.57% | 0.01%                            | 10.23%<br>-5.82%       | 0.05%                             |
| Analog Devices Inc<br>Walmart Inc                       | WMT          | 8,038.25             | 233.92<br>77.23  | 116,140<br>620,794 | 1.70%          | 1.07%          | 0.02%                            | -5.62%<br>9.24%        | 0.16%                             |
| Cisco Systems Inc                                       | CSCO         | 4,028.82             | 50.54            | 203,616            | 0.56%          | 3.17%          | 0.02%                            | 3.40%                  | 0.02%                             |
| Intel Corp<br>General Motors Co                         | INTC<br>GM   | 4,276.00<br>1,123.92 | 22.04<br>49.78   | 94,243<br>55,949   | 0.26%<br>0.15% | 0.96%          | 0.00%                            | 4.26%<br>11.02%        | 0.00%<br>0.02%                    |
| Microsoft Corp  | MSFT         | 7,433.04             | 417.14           | 3,100,617          | 8.50%          | 0.72%          | 0.06%                            | 16.10%                 | 1.37%                             |
| Dollar General Corp                                     | DG           | 219.92               | 82.97            | 18,246             | 0.000/         | 2.84%          | 0.000/                           | -3.74%                 | 0.000/                            |
| Cigna Group/The Kinder Morgan Inc                       | CI<br>KMI    | 279.55<br>2,219.46   | 361.81<br>21.57  | 101,144<br>47,874  | 0.28%<br>0.13% | 1.55%<br>5.33% | 0.00%<br>0.01%                   | 11.65%<br>6.52%        | 0.03%<br>0.01%                    |
| Citigroup Inc   | С            | 1,907.80             | 62.64            | 119,504            |                | 3.58%          |                                  | 27.26%                 |                                   |
| American International Group Inc Altria Group Inc       | AIG<br>MO    | 643.95<br>1,706.22   | 77.05<br>53.77   | 49,616<br>91,744   | 0.14%<br>0.25% | 2.08%<br>7.59% | 0.00%<br>0.02%                   | 12.42%<br>4.14%        | 0.02%<br>0.01%                    |
| HCA Healthcare Inc                                      | HCA          | 258.07               | 395.59           | 102,091            | 0.23%          | 0.67%          | 0.02%                            | 10.81%                 | 0.01%                             |
| International Paper Co                                  | IP           | 347.37               | 48.42            | 16,820             | 0.070/         | 3.82%          |                                  | -2.00%                 |                                   |
| Hewlett Packard Enterprise Co Abbott Laboratories       | HPE<br>ABT   | 1,299.67<br>1,739.90 | 19.37<br>113.27  | 25,175<br>197,078  | 0.07%<br>0.54% | 2.68%<br>1.94% | 0.00%<br>0.01%                   | 3.73%<br>8.12%         | 0.00%<br>0.04%                    |
| Aflac Inc   | AFL          | 560.03               | 110.36           | 61,804             | 0.17%          | 1.81%          | 0.00%                            | 7.55%                  | 0.01%                             |
| Air Products and Chemicals Inc                          | APD          | 222.32               | 278.85           | 61,993             | 0.17%          | 2.54%          | 0.00%                            | 9.52%                  | 0.02%                             |
| Super Micro Computer Inc<br>Royal Caribbean Cruises Ltd | SMCI<br>RCL  | 58.56<br>257.42      | 437.70<br>164.62 | 25,630<br>42,376   |                | 0.97%          |                                  | 69.00%<br>30.00%       |                                   |
| Hess Corp   | HES          | 308.12               | 138.06           | 42,538             | 0.12%          | 1.27%          | 0.00%                            | 16.00%                 | 0.02%                             |
| Archer-Daniels-Midland Co Automatic Data Processing Inc | ADM<br>ADP   | 478.14<br>407.80     | 60.99<br>275.91  | 29,162<br>112,515  |                | 3.28%<br>2.03% |                                  | -3.62%                 |                                   |
| Verisk Analytics Inc                                    | VRSK         | 142.42               | 272.82           | 38,856             | 0.11%          | 0.57%          | 0.00%                            | 12.54%                 | 0.01%                             |
| AutoZone Inc  | AZO          | 17.08                | 3,181.48         | 54,349             | 0.15%          | 1 160/         | 0.010/                           | 14.66%                 | 0.00%                             |
| Linde PLC<br>Avery Dennison Corp                        | LIN<br>AVY   | 477.50<br>80.52      | 478.25<br>221.85 | 228,366<br>17,863  | 0.63%<br>0.05% | 1.16%<br>1.59% | 0.01%<br>0.00%                   | 11.76%<br>12.84%       | 0.07%<br>0.01%                    |
| Enphase Energy Inc                                      | ENPH         | 135.42               | 121.04           | 16,391             | 0.04%          |                |                                  | 7.45%                  | 0.00%                             |
| MSCI Inc<br>Ball Corp                                   | MSCI<br>BALL | 78.65<br>303.57      | 580.59<br>63.61  | 45,663<br>19,310   | 0.13%<br>0.05% | 1.10%<br>1.26% | 0.00%<br>0.00%                   | 11.93%<br>13.35%       | 0.01%<br>0.01%                    |
| Axon Enterprise Inc                                     | AXON         | 75.57                | 364.97           | 27,582             | 0.0070         | 1.2070         | 0.0070                           | 20.81%                 | 0.0170                            |
| Dayforce Inc  | DAY          | 158.10               | 57.17            | 9,039              | 0.400/         | 4.040/         | 0.000/                           | 0.740/                 | 0.040/                            |
| Carrier Global Corp Bank of New York Mellon Corp/The    | CARR<br>BK   | 902.75<br>737.96     | 72.78<br>68.22   | 65,702<br>50,343   | 0.18%<br>0.14% | 1.04%<br>2.76% | 0.00%<br>0.00%                   | 6.74%<br>10.55%        | 0.01%<br>0.01%                    |
| Otis Worldwide Corp                                     | OTIS         | 400.56               | 94.69            | 37,929             | 0.10%          | 1.65%          | 0.00%                            | 10.00%                 | 0.01%                             |
| Baxter International Inc Becton Dickinson & Co          | BAX<br>BDX   | 510.18<br>289.04     | 37.94<br>242.41  | 19,356<br>70,067   | 0.05%<br>0.19% | 3.06%<br>1.57% | 0.00%<br>0.00%                   | 6.50%<br>8.34%         | 0.00%<br>0.02%                    |
| Berkshire Hathaway Inc                                  | BRK/B        | 1,325.19             | 475.92           | 630,686            | 0.1370         | 1.57 70        | 0.0070                           | 0.5470                 | 0.0270                            |
| Best Buy Co Inc   | BBY          | 215.71               | 100.40           | 21,658             | 0.06%          | 3.75%          | 0.00%                            | 4.17%                  | 0.00%                             |
| Boston Scientific Corp<br>Bristol-Myers Squibb Co       | BSX<br>BMY   | 1,472.63<br>2,027.40 | 81.79<br>49.95   | 120,446<br>101,268 | 0.33%          | 4.80%          |                                  | 12.58%<br>33.60%       | 0.00%                             |
| Brown-Forman Corp                                       | BF/B         | 303.54               | 45.37            | 13,772             |                | 1.92%          |                                  | -2.38%                 |                                   |
| Coterra Energy Inc                                      | CTRA         | 739.27               | 24.33            | 17,987             | 0.05%          | 3.45%          | 0.00%                            | 10.06%                 | 0.00%                             |
| Hilton Worldwide Holdings Inc<br>Carnival Corp          | HLT<br>CCL   | 246.43<br>1,122.46   | 219.64<br>16.50  | 54,125<br>18,521   | 0.15%          | 0.27%          | 0.00%                            | 14.97%                 | 0.02%                             |
| Qorvo Inc   | QRVO         | 94.86                | 115.89           | 10,993             | 0.03%          |                |                                  | 17.09%                 | 0.00%                             |
| Builders FirstSource Inc UDR Inc                        | BLDR<br>UDR  | 116.45<br>329.82     | 174.00<br>44.51  | 20,263<br>14,680   | 0.06%<br>0.04% | 3.82%          | 0.00%                            | 1.45%<br>1.85%         | 0.00%<br>0.00%                    |
| Clorox Co/The   | CLX          | 123.86               | 158.31           | 19,609             | 0.05%          | 3.08%          | 0.00%                            | 8.65%                  | 0.00%                             |
| Paycom Software Inc                                     | PAYC         | 57.43                | 162.78           | 9,349              | 0.03%          | 0.92%          | 0.00%                            | 9.41%                  | 0.00%                             |
| CMS Energy Corp Colgate-Palmolive Co                    | CMS<br>CL    | 298.64<br>817.09     | 67.86<br>106.50  | 20,265<br>87,020   | 0.06%<br>0.24% | 3.04%<br>1.88% | 0.00%<br>0.00%                   | 7.28%<br>8.73%         | 0.00%<br>0.02%                    |
| EPAM Systems Inc  | EPAM         | 56.94                | 200.76           | 11,430             | 0.03%          |                |                                  | 5.29%                  | 0.00%                             |
| Conagra Brands Inc                                      | CAG          | 479.05               | 31.20            | 14,946<br>51,617   | 0.04%          | 4.49%          | 0.00%                            | 1.81%                  | 0.00%                             |
| Airbnb Inc Consolidated Edison Inc                      | ABNB<br>ED   | 440.00<br>346.15     | 117.31<br>101.56 | 51,617<br>35,155   | 0.14%<br>0.10% | 3.27%          | 0.00%                            | 19.84%<br>5.58%        | 0.00%<br>0.01%                    |
| Corning Inc   | GLW          | 855.70               | 41.85            | 35,811             | 0.10%          | 2.68%          | 0.00%                            | 13.41%                 | 0.01%                             |
| GoDaddy Inc<br>Cummins Inc                              | GDDY<br>CMI  | 140.97<br>137.05     | 167.41<br>312.85 | 23,600<br>42,875   | 0.12%          | 2.33%          | 0.00%                            | Q 290/                 | 0.01%                             |
| Caesars Entertainment Inc                               | CMI          | 137.05<br>216.34     | 312.85<br>37.64  | 42,875<br>8,143    | U. 12%         | 2.33%          | 0.00%                            | 8.28%<br>-35.64%       | 0.01%                             |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2]
Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3]
Total [4]

Won Proposed
Weighting
9.55% 80% weighting
3.90% 20% weighting
8.42%

10.02%

S&P 500 Estimated Required Market Return [5]

|   | _           | [6]                  | [7]              | [8]               | [9]            | [10]                  | [11]                             | [12]                   | [13]                              |
|---|-------------|----------------------|------------------|-------------------|----------------|-----------------------|----------------------------------|------------------------|-----------------------------------|
|   |             | Shares               |                  | Market            | Weight in      | Estimated<br>Dividend | Capitalization Weighted Dividend | Bloomberg<br>Long-Term | Capitalization Weighted Long-Term |
| Name  | Ticker      | Outst'g              | Price            | Capitalization    | Index          | Yield                 | Yield                            | Growth Est.            | Growth Est.                       |
| Danaher Corp Target Corp                                    | DHR<br>TGT  | 722.21<br>460.68     | 269.31<br>153.62 | 194,499<br>70,769 | 0.53%<br>0.19% | 0.40%<br>2.92%        | 0.00%<br>0.01%                   | 1.89%<br>14.38%        | 0.01%<br>0.03%                    |
| Deere & Co  | DE          | 273.60               | 385.74           | 105,538           | 0.1970         | 1.52%                 | 0.0176                           | -9.99%                 | 0.0370                            |
| Dominion Energy Inc Dover Corp                              | D<br>DOV    | 838.94<br>137.46     | 55.90<br>186.03  | 46,897<br>25,571  | 0.07%          | 4.78%<br>1.11%        | 0.00%                            | 21.59%<br>7.72%        | 0.01%                             |
| Alliant Energy Corp   | LNT         | 256.50               | 58.27            | 14,946            | 0.04%          | 3.30%                 | 0.00%                            | 7.34%                  | 0.00%                             |
| Steel Dynamics Inc Duke Energy Corp                         | STLD<br>DUK | 154.30<br>771.00     | 119.51<br>113.95 | 18,441<br>87,855  | 0.24%          | 1.54%<br>3.67%        | 0.01%                            | -4.38%<br>6.61%        | 0.02%                             |
| Regency Centers Corp  | REG         | 181.50               | 72.69            | 13,193            | 0.04%          | 3.69%                 | 0.00%                            | 3.79%                  | 0.00%                             |
| Eaton Corp PLC Ecolab Inc                                   | ETN<br>ECL  | 398.10<br>284.54     | 306.93<br>253.18 | 122,189<br>72,039 | 0.33%<br>0.20% | 1.23%<br>0.90%        | 0.00%<br>0.00%                   | 14.60%<br>15.76%       | 0.05%<br>0.03%                    |
| Revvity Inc   | RVTY        | 123.34               | 122.54           | 15,114            | 0.04%          | 0.23%                 | 0.00%                            | 9.44%                  | 0.00%                             |
| Emerson Electric Co EOG Resources Inc                       | EMR<br>EOG  | 572.70<br>568.60     | 105.39<br>128.82 | 60,357<br>73,247  | 0.17%<br>0.20% | 1.99%<br>2.83%        | 0.00%<br>0.01%                   | 15.10%<br>3.28%        | 0.02%<br>0.01%                    |
| Aon PLC   | AON         | 217.24               | 343.72           | 74,670            | 0.20%          | 0.79%                 | 0.00%                            | 11.10%                 | 0.02%                             |
| Entergy Corp Equifax Inc                                    | ETR<br>EFX  | 213.83<br>123.74     | 120.69<br>306.74 | 25,807<br>37,955  | 0.07%          | 3.75%<br>0.51%        | 0.00%                            | 7.17%<br>21.48%        | 0.01%                             |
| EQT Corp  | EQT         | 594.02               | 33.51            | 19,906            | 0.400/         | 1.88%                 |                                  |                        | 0.000/                            |
| IQVIA Holdings Inc<br>Gartner Inc                           | IQV<br>IT   | 182.30<br>77.06      | 251.55<br>491.96 | 45,858<br>37,910  | 0.13%<br>0.10% |                       |                                  | 10.83%<br>7.67%        | 0.00%<br>0.00%                    |
| FedEx Corp  | FDX         | 244.96               | 298.77           | 73,188            | 0.20%          | 1.85%                 | 0.00%                            | 13.35%                 | 0.03%                             |
| FMC Corp<br>Brown & Brown Inc                               | FMC<br>BRO  | 124.82<br>285.26     | 64.58<br>105.13  | 8,061<br>29,989   | 0.02%<br>0.08% | 3.59%<br>0.49%        | 0.00%<br>0.00%                   | 15.67%<br>10.85%       | 0.00%<br>0.01%                    |
| Ford Motor Co   | F           | 3,904.40             | 11.19            | 43,690            | 0.12%          | 5.36%                 | 0.01%                            | 1.34%                  | 0.00%                             |
| NextEra Energy Inc Franklin Resources Inc                   | NEE<br>BEN  | 2,055.00<br>523.00   | 80.51<br>20.24   | 165,448<br>10,585 | 0.45%          | 2.56%<br>6.13%        | 0.01%                            | 8.17%                  | 0.04%                             |
| Garmin Ltd  | GRMN        | 192.21               | 183.29           | 35,231            | 0.10%          | 1.64%                 | 0.00%                            | 9.55%                  | 0.01%                             |
| Freeport-McMoRan Inc Dexcom Inc                             | FCX<br>DXCM | 1,436.86<br>400.73   | 44.28<br>69.34   | 63,624<br>27,786  | 0.17%          | 1.36%                 | 0.00%                            | 17.59%<br>21.07%       | 0.03%                             |
| General Dynamics Corp                                       | GD          | 274.78               | 299.36           | 82,258            | 0.23%          | 1.90%                 | 0.00%                            | 15.55%                 | 0.04%                             |
| General Mills Inc<br>Genuine Parts Co                       | GIS<br>GPC  | 556.62<br>139.32     | 72.29<br>143.26  | 40,238<br>19,959  | 0.11%          | 3.32%<br>2.79%        | 0.00%                            | 2.38%                  | 0.00%                             |
| Atmos Energy Corp   | ATO         | 155.23               | 130.74           | 20,295            | 0.06%          | 2.46%                 | 0.00%                            | 7.00%                  | 0.00%                             |
| WW Grainger Inc<br>Halliburton Co                           | GWW<br>HAL  | 48.83<br>882.83      | 984.92<br>31.09  | 48,090<br>27,447  | 0.08%          | 0.83%<br>2.19%        | 0.00%                            | 8.17%                  | 0.01%                             |
| L3Harris Technologies Inc                                   | LHX         | 189.71               | 236.67           | 44,897            | 0.12%          | 1.96%                 | 0.00%                            | 8.77%                  | 0.01%                             |
| Healthpeak Properties Inc Insulet Corp                      | DOC<br>PODD | 699.29<br>70.12      | 22.28<br>202.77  | 15,580<br>14,217  | 0.04%<br>0.04% | 5.39%                 | 0.00%                            | 5.33%<br>17.61%        | 0.00%<br>0.00%                    |
| Catalent Inc  | CTLT        | 180.98               | 60.96            | 11,033            | 0.04 /6        |                       |                                  | 17.0170                | 0.0076                            |
| Fortive Corp  | FTV<br>HSY  | 350.34<br>147.67     | 74.40<br>193.06  | 26,065<br>28,510  | 0.07%<br>0.08% | 0.43%<br>2.84%        | 0.00%<br>0.00%                   | 10.49%<br>2.21%        | 0.01%<br>0.00%                    |
| Hershey Co/The<br>Synchrony Financial                       | SYF         | 395.23               | 50.26            | 19,864            | 0.06%          | 1.99%                 | 0.00%                            | 64.00%                 | 0.00%                             |
| Hormel Foods Corp Arthur J Gallagher & Co                   | HRL<br>AJG  | 548.31<br>219.10     | 32.55<br>292.57  | 17,847<br>64,102  | 0.05%<br>0.18% | 3.47%<br>0.82%        | 0.00%<br>0.00%                   | 6.59%<br>12.87%        | 0.00%<br>0.02%                    |
| Mondelez International Inc                                  | MDLZ        | 1,335.80             | 71.81            | 95,924            | 0.16%          | 2.62%                 | 0.00%                            | 6.93%                  | 0.02%                             |
| CenterPoint Energy Inc                                      | CNP         | 651.72               | 27.30            | 17,792            | 0.05%          | 2.93%                 | 0.00%                            | 8.00%                  | 0.00%                             |
| Humana Inc<br>Willis Towers Watson PLC                      | HUM<br>WTW  | 120.40<br>101.56     | 354.47<br>292.11 | 42,679<br>29,666  | 0.08%          | 1.00%<br>1.21%        | 0.00%                            | -1.30%<br>11.69%       | 0.01%                             |
| Illinois Tool Works Inc                                     | ITW         | 296.90               | 253.18           | 75,169            | 0.21%          | 2.37%                 | 0.00%                            | 6.90%                  | 0.01%                             |
| CDW Corp/DE Trane Technologies PLC                          | CDW<br>TT   | 133.58<br>225.67     | 225.64<br>361.66 | 30,140<br>81,616  | 0.08%<br>0.22% | 1.10%<br>0.93%        | 0.00%<br>0.00%                   | 7.02%<br>15.56%        | 0.01%<br>0.03%                    |
| Interpublic Group of Cos Inc/The                            | IPG         | 375.59               | 32.28            | 12,124            | 0.03%          | 4.09%                 | 0.00%                            | 3.20%                  | 0.00%                             |
| International Flavors & Fragrances Inc Generac Holdings Inc | IFF<br>GNRC | 255.66<br>60.15      | 103.99<br>156.53 | 26,586<br>9,416   | 0.07%<br>0.03% | 1.54%                 | 0.00%                            | 2.12%<br>7.00%         | 0.00%<br>0.00%                    |
| NXP Semiconductors NV                                       | NXPI        | 254.73               | 256.36           | 65,303            | 0.18%          | 1.58%                 | 0.00%                            | 5.89%                  | 0.01%                             |
| Kellanova Broadridge Financial Solutions Inc                | K<br>BR     | 343.95<br>116.71     | 80.04<br>212.86  | 27,530<br>24,843  | 0.08%          | 2.85%<br>1.65%        | 0.00%                            | 9.29%                  | 0.01%                             |
| Kimberly-Clark Corp   | KMB         | 336.80               | 144.66           | 48,722            | 0.13%          | 3.37%                 | 0.00%                            | 8.36%                  | 0.01%                             |
| Kimco Realty Corp Oracle Corp                               | KIM<br>ORCL | 674.12<br>2,755.86   | 23.26<br>141.29  | 15,680<br>389,375 | 0.04%<br>1.07% | 4.13%<br>1.13%        | 0.00%<br>0.01%                   | 3.63%<br>15.06%        | 0.00%<br>0.16%                    |
| Kroger Co/The   | KR          | 721.79               | 53.21            | 38,406            | 0.11%          | 2.41%                 | 0.00%                            | 3.11%                  | 0.00%                             |
| Lennar Corp<br>Eli Lilly & Co                               | LEN<br>LLY  | 241.70<br>950.43     | 182.06<br>960.02 | 44,004<br>912,428 | 0.12%          | 1.10%<br>0.54%        | 0.00%                            | 4.30%<br>33.00%        | 0.01%                             |
| Bath & Body Works Inc                                       | BBWI        | 219.11               | 30.76            | 6,740             | 0.02%          | 2.60%                 | 0.00%                            | 14.74%                 | 0.00%                             |
| Charter Communications Inc Loews Corp                       | CHTR<br>L   | 142.74<br>219.52     | 347.54<br>81.94  | 49,608<br>17,987  | 0.14%          | 0.31%                 |                                  | 7.10%                  | 0.00%                             |
| Lowe's Cos Inc  | LOW         | 567.29               | 248.50           | 140,973           |                | 1.85%                 |                                  | -0.19%                 |                                   |
| Hubbell Inc<br>IDEX Corp                                    | HUBB<br>IEX | 53.68<br>75.70       | 399.92<br>206.48 | 21,468<br>15,631  |                | 1.22%<br>1.34%        |                                  |                        |                                   |
| Marsh & McLennan Cos Inc                                    | MMC         | 491.76               | 227.51           | 111,879           | 0.31%          | 1.43%                 | 0.00%                            | 9.10%                  | 0.03%                             |
| Masco Corp<br>S&P Global Inc                                | MAS<br>SPGI | 218.25<br>320.20     | 79.56<br>513.24  | 17,364<br>164,339 | 0.05%<br>0.45% | 1.46%<br>0.71%        | 0.00%<br>0.00%                   | 7.76%<br>14.53%        | 0.00%<br>0.07%                    |
| Medtronic PLC   | MDT         | 1,282.49             | 88.58            | 113,603           | 0.31%          | 3.16%                 | 0.01%                            | 5.66%                  | 0.02%                             |
| Viatris Inc<br>CVS Health Corp                              | VTRS<br>CVS | 1,193.52<br>1,257.98 | 12.08<br>57.24   | 14,418<br>72,007  | 0.20%          | 3.97%<br>4.65%        | 0.01%                            | -3.41%<br>1.82%        | 0.00%                             |
| DuPont de Nemours Inc                                       | DD          | 417.50               | 84.25            | 35,174            | 0.10%          | 1.80%                 | 0.00%                            | 2.50%                  | 0.00%                             |
| Micron Technology Inc Motorola Solutions Inc                | MU<br>MSI   | 1,108.84<br>166.84   | 96.24<br>442.04  | 106,715<br>73,750 | 0.20%          | 0.48%<br>0.89%        | 0.00%                            | 31.94%<br>9.36%        | 0.02%                             |
| Cboe Global Markets Inc                                     | CBOE        | 104.63               | 205.40           | 21,492            | 0.06%          | 1.23%                 | 0.00%                            | 13.78%                 | 0.01%                             |
| Newmont Corp NIKE Inc                                       | NEM<br>NKE  | 1,152.49<br>1,201.46 | 53.39<br>82.95   | 61,531<br>99,661  | 0.27%          | 1.87%<br>1.78%        | 0.00%                            | 48.45%<br>4.46%        | 0.01%                             |
| NiSource Inc  | NI          | 448.51               | 33.06            | 14,828            | 0.04%          | 3.21%                 | 0.00%                            | 7.00%                  | 0.00%                             |
| Norfolk Southern Corp Principal Financial Group Inc         | NSC<br>PFG  | 226.10<br>231.58     | 256.16<br>81.42  | 57,917<br>18,856  | 0.16%<br>0.05% | 2.11%<br>3.54%        | 0.00%<br>0.00%                   | 9.68%<br>13.00%        | 0.02%<br>0.01%                    |
| Eversource Energy   | ES          | 357.39               | 67.53            | 24,134            | 0.07%          | 4.24%                 | 0.00%                            | 5.46%                  | 0.00%                             |
| Northrop Grumman Corp<br>Wells Fargo & Co                   | NOC<br>WFC  | 146.25<br>3,403.77   | 521.15<br>58.47  | 76,216<br>199,018 | 0.21%<br>0.55% | 1.58%<br>2.74%        | 0.00%<br>0.01%                   | 8.68%<br>7.95%         | 0.02%<br>0.04%                    |
| Nucor Corp  | NUE         | 237.34               | 151.91           | 36,054            | 3.0070         | 1.42%                 | 2.0170                           | -1.48%                 | 2.2.70                            |
| Occidental Petroleum Corp Omnicom Group Inc                 | OXY<br>OMC  | 916.20<br>195.65     | 56.98<br>100.43  | 52,205<br>19,649  | 0.05%          | 1.54%<br>2.79%        | 0.00%                            | 24.00%<br>5.36%        | 0.00%                             |
| ONEOK Inc   | OKE         | 584.07               | 92.36            | 53,945            |                | 4.29%                 |                                  |                        |                                   |
| Raymond James Financial Inc PG&E Corp                       | RJF<br>PCG  | 205.94<br>2,137.46   | 119.57<br>19.70  | 24,625<br>42,108  | 0.07%<br>0.12% | 1.51%<br>0.20%        | 0.00%<br>0.00%                   | 15.40%<br>9.95%        | 0.01%<br>0.01%                    |
| Parker-Hannifin Corp  | PH          | 128.60               | 600.20           | 77,183            | 0.21%          | 1.09%                 | 0.00%                            | 13.44%                 | 0.03%                             |
| Rollins Inc   | ROL         | 484.31               | 50.18            | 24,303            | 0.07%          | 1.20%                 | 0.00%                            | 13.38%                 | 0.01%                             |

Estimated Weighted Average Dividend Yield [1] 1.54%

10.02%

Won Proposed
Weighting
9.55% 80% weighting
3.90% 20% weighting
8.42% Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2]
Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3]
Total [4]

S&P 500 Estimated Required Market Return [5]

|   |              |                     |                  |                          |                 |                                |                         |                                       | [13]                           |
|---|--------------|---------------------|------------------|--------------------------|-----------------|--------------------------------|-------------------------|---------------------------------------|--------------------------------|
|   | -            | [6]                 | [7]              | [8]                      | [9]             | [10]                           | [11]<br>Capitalization  | [12]                                  | [13]<br>Capitalization         |
| Name  | Ticker       | Shares<br>Outst'g   | Price            | Market<br>Capitalization | Weight in Index | Estimated<br>Dividend<br>Yield | Weighted Dividend Yield | Bloomberg<br>Long-Term<br>Growth Est. | Weighted Long-Term Growth Est. |
| PPL Corp  | PPL          | 737.77              | 31.91            | 23,542                   | 0.06%           | 3.23%                          | 0.00%                   | 7.01%                                 | 0.00%                          |
| ConocoPhillips  | COP          | 1,161.25            | 113.79           | 132,139                  | 0.36%           | 2.74%                          | 0.01%                   | 13.00%                                | 0.05%                          |
| PulteGroup Inc  | PHM          | 207.52              | 131.65           | 27,321                   | 0.07%           | 0.61%                          | 0.00%                   | 8.99%                                 | 0.01%                          |
| Pinnacle West Capital Corp                              | PNW          | 113.61              | 87.52            | 9,943                    | 0.03%           | 4.02%                          | 0.00%                   | 8.22%                                 | 0.00%                          |
| PNC Financial Services Group Inc/The PPG Industries Inc | PNC<br>PPG   | 397.50<br>233.30    | 185.09<br>129.73 | 73,573<br>30,266         | 0.20%<br>0.08%  | 3.46%<br>2.10%                 | 0.01%<br>0.00%          | 18.04%<br>8.33%                       | 0.04%<br>0.01%                 |
| Progressive Corp/The                                    | PGR          | 585.67              | 252.20           | 147,705                  | 0.0070          | 0.16%                          | 0.0070                  | 36.31%                                | 0.0170                         |
| Veralto Corp  | VLTO         | 247.11              | 112.43           | 27,782                   |                 | 0.32%                          |                         |                                       |                                |
| Public Service Enterprise Group Inc                     | PEG          | 498.16              | 80.75            | 40,227                   | 0.11%           | 2.97%                          | 0.00%                   | 7.47%                                 | 0.01%                          |
| Cooper Cos Inc/The Edison International                 | COO<br>EIX   | 199.16<br>383.93    | 105.73<br>87.03  | 21,057<br>33,413         | 0.06%<br>0.09%  | 3.58%                          | 0.00%                   | 12.43%<br>6.00%                       | 0.00%<br>0.01%                 |
| Schlumberger NV   | SLB          | 1,419.84            | 43.99            | 62,459                   | 0.09%           | 2.50%                          | 0.00%                   | 12.22%                                | 0.01%                          |
| Charles Schwab Corp/The                                 | SCHW         | 1,778.45            | 65.10            | 115,777                  | 0.32%           | 1.54%                          | 0.00%                   | 12.07%                                | 0.04%                          |
| Sherwin-Williams Co/The                                 | SHW          | 252.26              | 369.37           | 93,177                   | 0.26%           | 0.77%                          | 0.00%                   | 9.88%                                 | 0.03%                          |
| West Pharmaceutical Services Inc                        | WST          | 72.54               | 313.63           | 22,751                   | 0.06%           | 0.26%                          | 0.00%                   | 2.89%                                 | 0.00%                          |
| J M Smucker Co/The<br>Snap-on Inc                       | SJM<br>SNA   | 106.41<br>52.68     | 114.68<br>283.74 | 12,203<br>14,948         | 0.03%<br>0.04%  | 3.77%<br>2.62%                 | 0.00%<br>0.00%          | 6.07%<br>3.83%                        | 0.00%<br>0.00%                 |
| AMETEK Inc  | AME          | 231.54              | 171.05           | 39,604                   | 0.11%           | 0.65%                          | 0.00%                   | 7.02%                                 | 0.01%                          |
| Uber Technologies Inc                                   | UBER         | 2,100.94            | 73.13            | 153,642                  |                 |                                |                         | 60.59%                                |                                |
| Southern Co/The   | SO           | 1,094.63            | 86.40            | 94,576                   | 0.26%           | 3.33%                          | 0.01%                   | 7.23%                                 | 0.02%                          |
| Truist Financial Corp                                   | TFC          | 1,339.14            | 44.46            | 59,538                   | 0.16%           | 4.68%                          | 0.01%                   | 10.91%                                | 0.02%                          |
| Southwest Airlines Co<br>W R Berkley Corp               | LUV<br>WRB   | 599.16<br>380.55    | 28.92<br>59.70   | 17,328<br>22,719         | 0.06%           | 2.49%<br>0.54%                 | 0.00%                   | 13.27%                                | 0.01%                          |
| Stanley Black & Decker Inc                              | SWK          | 153.96              | 101.54           | 15,633                   | 0.00%           | 3.23%                          | 0.00%                   | 13.21 70                              | 0.0176                         |
| Public Storage  | PSA          | 175.83              | 343.72           | 60,436                   | 0.17%           | 3.49%                          | 0.01%                   | 1.23%                                 | 0.00%                          |
| Arista Networks Inc                                     | ANET         | 314.15              | 353.38           | 111,015                  | 0.30%           |                                |                         | 18.60%                                | 0.00%                          |
| Sysco Corp  | SYY          | 491.52              | 77.97            | 38,324                   | 0.11%           | 2.62%                          | 0.00%                   | 7.00%                                 | 0.01%                          |
| Corteva Inc Texas Instruments Inc                       | CTVA<br>TXN  | 687.80<br>913.05    | 57.13<br>214.34  | 39,294                   | 0.11%           | 1.19%<br>2.43%                 | 0.00%                   | 9.85%<br>-2.86%                       | 0.01%                          |
| Textron Inc   | TXT          | 187.36              | 91.20            | 195,702<br>17,088        | 0.05%           | 0.09%                          | 0.00%                   | -2.06%<br>10.05%                      | 0.00%                          |
| Thermo Fisher Scientific Inc                            | TMO          | 382.00              | 615.07           | 234,954                  | 0.64%           | 0.25%                          | 0.00%                   | 8.70%                                 | 0.06%                          |
| TJX Cos Inc/The   | TJX          | 1,127.87            | 117.27           | 132,266                  | 0.36%           | 1.28%                          | 0.00%                   | 8.20%                                 | 0.03%                          |
| Globe Life Inc  | GL           | 89.82               | 105.05           | 9,436                    | 0.03%           | 0.91%                          | 0.00%                   | 6.00%                                 | 0.00%                          |
| Johnson Controls International plc                      | JCI          | 668.01              | 72.85            | 48,665                   | 0.13%           | 2.03%                          | 0.00%                   | 8.72%                                 | 0.01%                          |
| Ulta Beauty Inc Union Pacific Corp                      | ULTA<br>UNP  | 47.12<br>609.20     | 352.84<br>256.09 | 16,624<br>156,010        | 0.05%<br>0.43%  | 2.09%                          | 0.01%                   | 1.64%<br>11.33%                       | 0.00%<br>0.05%                 |
| Keysight Technologies Inc                               | KEYS         | 173.54              | 154.12           | 26,746                   | 0.4070          | 2.0070                         | 0.0170                  | -1.19%                                | 0.0070                         |
| UnitedHealth Group Inc                                  | UNH          | 923.42              | 590.20           | 545,001                  | 1.49%           | 1.42%                          | 0.02%                   | 10.44%                                | 0.16%                          |
| Blackstone Inc  | BX           | 720.08              | 142.36           | 102,510                  |                 | 2.30%                          |                         | 24.48%                                |                                |
| Marathon Oil Corp                                       | MRO          | 559.38              | 28.65            | 16,026                   | 0.000/          | 1.54%                          |                         | -5.00%                                |                                |
| Bio-Rad Laboratories Inc<br>Ventas Inc                  | BIO<br>VTR   | 22.80<br>413.15     | 337.32<br>62.11  | 7,689                    | 0.02%<br>0.07%  | 2.90%                          | 0.00%                   | 12.00%<br>8.22%                       | 0.00%<br>0.01%                 |
| Labcorp Holdings Inc                                    | LH           | 83.96               | 229.89           | 25,661<br>19,302         | 0.07%           | 2.90%<br>1.25%                 | 0.00%                   | 8.45%                                 | 0.01%                          |
| Vulcan Materials Co                                     | VMC          | 132.06              | 245.21           | 32,382                   | 0.0070          | 0.75%                          | 0.0070                  | 0.1070                                | 0.0070                         |
| Weyerhaeuser Co   | WY           | 727.32              | 30.49            | 22,176                   |                 | 2.62%                          |                         | -13.66%                               |                                |
| Williams Cos Inc/The                                    | WMB          | 1,218.93            | 45.77            | 55,790                   | 0.15%           | 4.15%                          | 0.01%                   | 4.28%                                 | 0.01%                          |
| Constellation Energy Corp                               | CEG<br>WEC   | 315.12<br>316.08    | 196.70<br>93.03  | 61,984<br>29,405         | 0.08%           | 0.72%<br>3.59%                 | 0.00%                   | 20.39%<br>7.82%                       | 0.01%                          |
| WEC Energy Group Inc Adobe Inc                          | ADBE         | 443.40              | 93.03<br>574.41  | 29,405<br>254,693        | 0.70%           | 3.59%                          | 0.00%                   | 16.27%                                | 0.01%                          |
| Vistra Corp   | VST          | 343.56              | 85.43            | 29,350                   |                 | 1.03%                          |                         |                                       | 0.007.5                        |
| AES Corp/The  | AES          | 710.92              | 17.13            | 12,178                   |                 | 4.03%                          |                         |                                       |                                |
| Expeditors International of Washington Inc              | EXPD         | 141.13              | 123.41           | 17,417                   | 0.05%           | 1.18%                          | 0.00%                   | 4.39%                                 | 0.00%                          |
| Amgen Inc Apple Inc                                     | AMGN<br>AAPL | 537.33<br>15,204.14 | 333.83<br>229.00 | 179,377<br>3,481,747     | 0.49%<br>9.54%  | 2.70%<br>0.44%                 | 0.01%<br>0.04%          | 3.52%<br>8.04%                        | 0.02%<br>0.77%                 |
| Autodesk Inc  | ADSK         | 215.51              | 258.40           | 55,688                   | 0.15%           | 0.44 /0                        | 0.0470                  | 10.23%                                | 0.00%                          |
| Cintas Corp   | CTAS         | 100.77              | 805.12           | 81,131                   | 0.22%           | 0.78%                          | 0.00%                   | 10.59%                                | 0.02%                          |
| Comcast Corp  | CMCSA        | 3,863.06            | 39.57            | 152,861                  | 0.42%           | 3.13%                          | 0.01%                   | 7.32%                                 | 0.03%                          |
| Molson Coors Beverage Co                                | TAP          | 192.59              | 53.97            | 10,394                   | 0.03%           | 3.26%                          | 0.00%                   | 5.29%                                 | 0.00%                          |
| KLA Corp Marriott International Inc/MD                  | KLAC<br>MAR  | 134.43<br>281.52    | 819.43<br>234.69 | 110,152<br>66,071        | 0.30%<br>0.18%  | 0.71%<br>1.07%                 | 0.00%<br>0.00%          | 10.00%<br>4.25%                       | 0.03%<br>0.01%                 |
| Fisery Inc  | FI           | 575.73              | 174.60           | 100,522                  | 0.18%           | 1.07 /0                        | 0.0070                  | 11.52%                                | 0.00%                          |
| McCormick & Co Inc/MD                                   | MKC          | 252.02              | 80.03            | 20,169                   | 0.06%           | 2.10%                          | 0.00%                   | 5.83%                                 | 0.00%                          |
| PACCAR Inc  | PCAR         | 524.22              | 96.18            | 50,420                   | 0.14%           | 1.25%                          | 0.00%                   | 0.48%                                 | 0.00%                          |
| Costco Wholesale Corp                                   | COST         | 443.34              | 892.38           | 395,623                  | 1.08%           | 0.52%                          | 0.01%                   | 10.36%                                | 0.11%                          |
| Stryker Corp Tyson Foods Inc                            | SYK<br>TSN   | 381.08<br>285.82    | 360.42<br>64.31  | 137,347<br>18,381        | 0.38%           | 0.89%<br>3.05%                 | 0.00%                   | 8.60%                                 | 0.03%                          |
| Lamb Weston Holdings Inc                                | LW           | 143.67              | 61.92            | 8,896                    | 0.02%           | 2.33%                          | 0.00%                   | 2.16%                                 | 0.00%                          |
| Applied Materials Inc                                   | AMAT         | 824.40              | 197.26           | 162,622                  | 0.45%           | 0.81%                          | 0.00%                   | 9.28%                                 | 0.04%                          |
| American Airlines Group Inc                             | AAL          | 653.54              | 10.62            | 6,941                    |                 | . —                            |                         | -13.42%                               |                                |
| Cardinal Health Inc                                     | CAH          | 243.85              | 112.72           | 27,486                   | 0.08%           | 1.79%                          | 0.00%                   | 9.84%                                 | 0.01%                          |
| Cincinnati Financial Corp Paramount Global              | CINF<br>PARA | 156.24<br>626.01    | 137.03<br>10.47  | 21,410<br>6,554          | 0.06%           | 2.36%<br>1.91%                 | 0.00%                   | 7.83%<br>49.00%                       | 0.00%                          |
| DR Horton Inc   | DHI          | 326.04              | 188.76           | 61,543                   | 0.17%           | 0.64%                          | 0.00%                   | 49.00%<br>8.27%                       | 0.01%                          |
| Electronic Arts Inc                                     | EA           | 264.20              | 151.82           | 40,111                   | 0.11%           | 0.50%                          | 0.00%                   | 12.85%                                | 0.01%                          |
| Fair Isaac Corp   | FICO         | 24.52               | 1,730.27         | 42,424                   |                 |                                |                         | 23.00%                                |                                |
| Fastenal Co   | FAST         | 572.65              | 68.28            | 39,100                   | 0.0001          | 2.28%                          | 0.0001                  | 0.0704                                | 0.000/                         |
| M&T Bank Corp<br>Xcel Energy Inc                        | MTB<br>XEL   | 167.00<br>557.50    | 170.76<br>61.23  | 28,517<br>34,136         | 0.08%<br>0.09%  | 3.16%<br>3.58%                 | 0.00%<br>0.00%          | 3.87%<br>7.10%                        | 0.00%<br>0.01%                 |
| Fifth Third Bancorp                                     | FITB         | 676.80              | 42.69            | 28,892                   | J.U970          | 3.58%                          | 0.0070                  | 7.10%<br>25.00%                       | U.U I /0                       |
| Gilead Sciences Inc                                     | GILD         | 1,244.99            | 79.00            | 98,354                   | 0.27%           | 3.90%                          | 0.01%                   | 15.38%                                | 0.04%                          |
| Hasbro Inc  | HAS          | 139.41              | 68.16            | 9,502                    |                 | 4.11%                          |                         | 33.11%                                |                                |
| Huntington Bancshares Inc/OH                            | HBAN         | 1,452.43            | 14.97            | 21,743                   | 0.06%           | 4.14%                          | 0.00%                   | 3.32%                                 | 0.00%                          |
| Welltower Inc   | WELL<br>BIIB | 609.15<br>145.66    | 120.68<br>204.76 | 73,512<br>29,826         | 0.20%<br>0.08%  | 2.22%                          | 0.00%                   | 15.65%<br>6.10%                       | 0.03%<br>0.00%                 |
| Biogen Inc<br>Northern Trust Corp                       | NTRS         | 145.66<br>201.64    | 204.76<br>91.21  | 29,826<br>18,391         | 0.08%<br>0.05%  | 3.29%                          | 0.00%                   | 6.10%<br>10.11%                       | 0.00%<br>0.01%                 |
| Packaging Corp of America                               | PKG          | 89.81               | 209.54           | 18,819                   | 0.05%           | 2.39%                          | 0.00%                   | 5.83%                                 | 0.00%                          |
| Paychex Inc   | PAYX         | 359.74              | 131.20           | 47,198                   | 0.13%           | 2.99%                          | 0.00%                   | 7.54%                                 | 0.01%                          |
| QUALCOMM Inc  | QCOM         | 1,114.00            | 175.30           | 195,284                  | 0.54%           | 1.94%                          | 0.01%                   | 10.64%                                | 0.06%                          |
| Ross Stores Inc   | ROST         | 333.58              | 150.61           | 50,240                   | 0.14%           | 0.98%                          | 0.00%                   | 8.85%                                 | 0.01%                          |
| IDEXX Laboratories Inc<br>Starbucks Corp                | IDXX<br>SBUX | 82.31<br>1,133.20   | 481.33<br>94.57  | 39,616<br>107,167        | 0.11%<br>0.29%  | 2.41%                          | 0.01%                   | 11.25%<br>9.67%                       | 0.00%<br>0.03%                 |
| ·   | KEY          | 928.12              | 94.57<br>17.06   | 15,834                   | 0.29%           | 2.41%<br>4.81%                 | 0.01%                   | 9.67%<br>20.00%                       | 0.03%                          |
| KeyCorp   | 171_1        | UEU                 | 17.44            |                          | J. U 1 / U      |                                | /                       | //                                    | 2.0.70                         |
| KeyCorp<br>Fox Corp                                     | FOXA         | 224.65              | 41.37            | 9,294                    | 0.03%           | 1.31%                          | 0.00%                   | 5.35%                                 | 0.00%                          |
|   |              |                     |                  |                          |                 |                                |                         |                                       | 0.00%<br>0.00%<br>0.01%        |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2]
Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3]
Total [4]

Won Proposed
Weighting
9.55% 80% weighting
3.90% 20% weighting
8.42%

10.02%

S&P 500 Estimated Required Market Return [5]

|  |              | [6]                 | [7]                | 101                      | [0]             | [40]                           | [44]                          | [40]                                  | [13]                                 |
|--|--------------|---------------------|--------------------|--------------------------|-----------------|--------------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|  | -            | [6]                 | [7]                | [8]                      | [9]             | [10]                           | [11]<br>Capitalization        |                                       | Capitalization                       |
| Name   | Ticker       | Shares<br>Outst'g   | Price              | Market<br>Capitalization | Weight in Index | Estimated<br>Dividend<br>Yield | Weighted<br>Dividend<br>Yield | Bloomberg<br>Long-Term<br>Growth Est. | Weighted<br>Long-Term<br>Growth Est. |
| Nonvegian Cruise Line Holdings Ltd                                   | NCLH         | 439.69              | 17.89              | 7,866                    |                 |                                |                               | 50.58%                                |                                      |
| Norwegian Cruise Line Holdings Ltd<br>US Bancorp                     | USB          | 439.69<br>1,560.51  | 47.23              | 7,000                    | 0.20%           | 4.15%                          | 0.01%                         | 3.39%                                 | 0.01%                                |
| A O Smith Corp   | AOS          | 119.96              | 83.72              | 10,043                   |                 | 1.53%                          |                               |                                       |                                      |
| Gen Digital Inc T Rowe Price Group Inc                               | GEN<br>TROW  | 615.53<br>222.60    | 26.46<br>106.04    | 16,287<br>23,604         | 0.04%<br>0.06%  | 1.89%<br>4.68%                 | 0.00%<br>0.00%                | 10.49%<br>7.30%                       | 0.00%<br>0.00%                       |
| Waste Management Inc   | WM           | 401.32              | 212.04             | 85,095                   | 0.23%           | 1.41%                          | 0.00%                         | 13.29%                                | 0.03%                                |
| Constellation Brands Inc   | STZ          | 182.19              | 240.71             | 43,855                   | 0.12%           | 1.68%                          | 0.00%                         | 11.37%                                | 0.01%                                |
| Invesco Ltd Intuit Inc   | IVZ<br>INTU  | 450.03<br>279.55    | 17.09<br>630.26    | 7,691<br>176,187         | 0.02%<br>0.48%  | 4.80%<br>0.66%                 | 0.00%<br>0.00%                | 9.27%<br>18.79%                       | 0.00%<br>0.09%                       |
| Morgan Stanley   | MS           | 1,620.89            | 103.61             | 167,940                  | 0.46%           | 3.57%                          | 0.02%                         | 9.60%                                 | 0.04%                                |
| Microchip Technology Inc   | MCHP         | 536.51              | 82.16              | 44,079                   |                 | 2.21%                          |                               | -10.99%                               |                                      |
| Crowdstrike Holdings Inc<br>Chubb Ltd                                | CRWD<br>CB   | 232.72<br>403.93    | 277.28<br>284.18   | 64,528<br>114,790        | 0.31%           | 1.28%                          | 0.00%                         | 35.70%<br>2.20%                       | 0.01%                                |
| Hologic Inc  | HOLX         | 232.27              | 81.24              | 18,870                   | 0.05%           | 1.2070                         | 0.0070                        | 8.86%                                 | 0.00%                                |
| Citizens Financial Group Inc   | CFG          | 448.30              | 43.05              | 19,299                   |                 | 3.90%                          |                               |                                       |                                      |
| Jabil Inc O'Reilly Automotive Inc                                    | JBL<br>ORLY  | 113.45<br>58.01     | 109.28<br>1,129.97 | 12,397<br>65,545         | 0.03%<br>0.18%  | 0.29%                          | 0.00%                         | 7.13%<br>10.21%                       | 0.00%<br>0.00%                       |
| Allstate Corp/The  | ALL          | 264.04              | 1,129.97           | 49,888                   | 0.1676          | 1.95%                          |                               | 168.00%                               | 0.00%                                |
| Equity Residential   | EQR          | 379.14              | 74.88              | 28,390                   | 0.08%           | 3.61%                          | 0.00%                         | 4.23%                                 | 0.00%                                |
| BorgWarner Inc   | BWA          | 227.77              | 33.96              | 7,735                    | 0.02%           | 1.30%                          | 0.00%                         | 4.40%                                 | 0.00%                                |
| Keurig Dr Pepper Inc<br>Host Hotels & Resorts Inc                    | KDP<br>HST   | 1,356.09<br>702.44  | 36.61<br>17.70     | 49,646<br>12,433         | 0.14%           | 2.35%<br>4.52%                 | 0.00%                         | 6.90%                                 | 0.01%                                |
| Incyte Corp  | INCY         | 192.60              | 65.66              | 12,433                   |                 | 4.52 /0                        |                               | 33.16%                                |                                      |
| Simon Property Group Inc   | SPG          | 326.04              | 167.35             | 54,562                   | 0.15%           | 4.90%                          | 0.01%                         | 1.42%                                 | 0.00%                                |
| Eastman Chemical Co  | EMN          | 116.86              | 102.37             | 11,963                   | 0.03%           | 3.16%                          | 0.00%                         | 6.10%                                 | 0.00%                                |
| AvalonBay Communities Inc Prudential Financial Inc                   | AVB<br>PRU   | 142.22<br>357.00    | 225.73<br>121.16   | 32,103<br>43,254         | 0.09%<br>0.12%  | 3.01%<br>4.29%                 | 0.00%<br>0.01%                | 4.93%<br>9.72%                        | 0.00%<br>0.01%                       |
| United Parcel Service Inc  | UPS          | 732.51              | 128.55             | 94,164                   | 0.26%           | 5.07%                          | 0.01%                         | 0.60%                                 | 0.00%                                |
| Walgreens Boots Alliance Inc   | WBA          | 863.28              | 9.25               | 7,985                    |                 | 10.81%                         |                               | -14.70%                               |                                      |
| STERIS PLC McKesson Corp   | STE<br>MCK   | 98.62<br>129.68     | 241.10<br>561.08   | 23,777<br>72,759         | 0.20%           | 0.95%<br>0.51%                 | 0.00%                         | 11.18%                                | 0.02%                                |
| Lockheed Martin Corp   | LMT          | 238.36              | 564.95             | 134,660                  | 0.20%           | 2.23%                          | 0.00%                         | 2.11%                                 | 0.02%                                |
| Cencora Inc  | COR          | 196.01              | 239.57             | 46,958                   | 0.13%           | 0.85%                          | 0.00%                         | 10.67%                                | 0.01%                                |
| Campbell Soup Co   | СРВ          | 298.55              | 49.72              | 14,844                   | 0.04%           | 2.98%                          | 0.00%                         | 8.36%                                 | 0.00%                                |
| Capital One Financial Corp Waters Corp                               | COF<br>WAT   | 381.86<br>59.36     | 146.93<br>346.35   | 56,106<br>20,560         | 0.15%<br>0.06%  | 1.63%                          | 0.00%                         | 12.32%<br>7.80%                       | 0.02%<br>0.00%                       |
| Nordson Corp   | NDSN         | 57.18               | 256.56             | 14,671                   | 0.0076          | 1.22%                          |                               | 7.0070                                | 0.00 /6                              |
| Dollar Tree Inc  | DLTR         | 214.94              | 84.49              | 18,161                   | 0.05%           |                                |                               | 12.39%                                | 0.00%                                |
| Darden Restaurants Inc   | DRI          | 118.46              | 158.15             | 18,735                   | 0.05%           | 3.54%                          | 0.00%                         | 10.59%                                | 0.01%                                |
| Evergy Inc Match Group Inc   | EVRG<br>MTCH | 229.75<br>257.90    | 59.14<br>37.21     | 13,587<br>9,596          | 0.04%           | 4.35%                          | 0.00%                         | 4.00%<br>36.15%                       | 0.00%                                |
| Domino's Pizza Inc   | DPZ          | 34.97               | 414.21             | 14,486                   | 0.04%           | 1.46%                          | 0.00%                         | 12.56%                                | 0.00%                                |
| NVR Inc  | NVR          | 3.08                | 9,172.46           | 28,233                   | 0.08%           |                                |                               | 7.60%                                 | 0.00%                                |
| NetApp Inc   | NTAP         | 204.78              | 120.72             | 24,721                   | 0.07%           | 1.72%                          | 0.00%                         | 5.34%                                 | 0.00%                                |
| Old Dominion Freight Line Inc DaVita Inc                             | ODFL<br>DVA  | 214.30<br>83.90     | 192.80<br>150.92   | 41,316<br>12,662         | 0.11%<br>0.03%  | 0.54%                          | 0.00%                         | 3.02%<br>20.00%                       | 0.00%<br>0.00%                       |
| Hartford Financial Services Group Inc/The                            | HIG          | 293.01              | 115.63             | 33,881                   | 0.09%           | 1.63%                          | 0.00%                         | 12.37%                                | 0.01%                                |
| Iron Mountain Inc  | IRM          | 293.34              | 113.26             | 33,223                   |                 | 2.53%                          |                               |                                       |                                      |
| Estee Lauder Cos Inc/The   | EL<br>CDNS   | 233.18<br>273.82    | 91.66<br>268.93    | 21,373                   | 0.06%           | 2.88%                          | 0.00%                         | 14.58%                                | 0.01%                                |
| Cadence Design Systems Inc Tyler Technologies Inc                    | TYL          | 42.67               | 587.87             | 73,638<br>25,086         | 0.20%           |                                |                               | 16.20%                                | 0.00%                                |
| Universal Health Services Inc  | UHS          | 59.46               | 237.77             | 14,138                   | 0.04%           | 0.34%                          | 0.00%                         | 15.50%                                | 0.01%                                |
| Skyworks Solutions Inc   | SWKS         | 159.72              | 109.59             | 17,503                   | 0.050/          | 2.55%                          | /                             | -2.57%                                |                                      |
| Quest Diagnostics Inc Rockwell Automation Inc                        | DGX<br>ROK   | 111.32<br>113.47    | 156.97<br>272.03   | 17,473<br>30,866         | 0.05%<br>0.08%  | 1.91%<br>1.84%                 | 0.00%<br>0.00%                | 6.05%<br>1.73%                        | 0.00%<br>0.00%                       |
| Kraft Heinz Co/The   | KHC          | 1,209.08            | 35.43              | 42,838                   | 0.12%           | 4.52%                          | 0.01%                         | 2.51%                                 | 0.00%                                |
| American Tower Corp  | AMT          | 467.08              | 224.06             | 104,654                  | 0.29%           | 2.89%                          | 0.01%                         | 12.31%                                | 0.04%                                |
| Regeneron Pharmaceuticals Inc Amazon.com Inc                         | REGN<br>AMZN | 108.42<br>10,495.57 | 1,184.69<br>178.50 | 128,441<br>1,873,459     |                 |                                |                               | 52.50%<br>28.99%                      |                                      |
| Jack Henry & Associates Inc  | JKHY         | 72.91               | 178.30             | 1,673,439                | 0.03%           | 1.27%                          | 0.00%                         | 9.73%                                 | 0.00%                                |
| Ralph Lauren Corp  | RL           | 40.06               | 171.26             | 6,860                    | 0.02%           | 1.93%                          | 0.00%                         | 11.05%                                | 0.00%                                |
| BXP Inc  | BXP          | 157.93              | 75.22              | 11,880                   | 0.03%           | 5.21%                          | 0.00%                         | 0.40%                                 | 0.00%                                |
| Amphenol Corp Howmet Aerospace Inc                                   | APH<br>HWM   | 1,204.29<br>408.15  | 67.45<br>96.66     | 81,229<br>39,451         | 0.22%           | 0.98%<br>0.33%                 | 0.00%                         | 16.86%<br>22.11%                      | 0.04%                                |
| Valero Energy Corp   | VLO          | 320.38              | 146.73             | 47,009                   |                 | 2.92%                          |                               | -24.00%                               |                                      |
| Synopsys Inc   | SNPS         | 153.61              | 519.58             | 79,815                   | 0.22%           |                                |                               | 16.33%                                | 0.00%                                |
| Etsy Inc   | ETSY         | 114.75              | 55.09              | 6,322                    | 0.02%           | 2.40%                          | 0.00%                         | 4.06%                                 | 0.00%                                |
| CH Robinson Worldwide Inc Accenture PLC                              | CHRW<br>ACN  | 117.28<br>626.38    | 103.51<br>341.95   | 12,140<br>214,192        | 0.03%<br>0.59%  | 2.40%<br>1.51%                 | 0.00%<br>0.01%                | 17.48%<br>5.80%                       | 0.01%<br>0.03%                       |
| TransDigm Group Inc  | TDG          | 56.11               | 1,373.21           | 77,052                   | 0.21%           |                                | 0.0.75                        | 19.57%                                | 0.00%                                |
| Yum! Brands Inc  | YUM          | 281.17              | 134.92             | 37,935                   | 0.10%           | 1.99%                          | 0.00%                         | 11.41%                                | 0.01%                                |
| Prologis Inc   | PLD<br>FE    | 925.91<br>575.92    | 127.82<br>43.92    | 118,350<br>25,294        | 0.32%<br>0.07%  | 3.00%<br>3.87%                 | 0.01%<br>0.00%                | 5.36%<br>7.02%                        | 0.02%<br>0.00%                       |
| FirstEnergy Corp VeriSign Inc  | VRSN         | 575.92<br>97.60     | 43.92<br>183.90    | 25,294<br>17,949         | 0.07%           | 3.87%                          | 0.00%                         | 1.UZ70                                | 0.00%                                |
| Quanta Services Inc  | PWR          | 147.33              | 275.13             | 40,535                   |                 | 0.13%                          |                               |                                       |                                      |
| Henry Schein Inc   | HSIC         | 126.71              | 70.55              | 8,939                    | 0.02%           | 0.0501                         | 0.0001                        | 9.01%                                 | 0.00%                                |
| Ameren Corp ANSYS Inc  | AEE<br>ANSS  | 266.51<br>87.39     | 82.51<br>321.42    | 21,990<br>28,088         | 0.06%           | 3.25%                          | 0.00%                         | 6.16%                                 | 0.00%                                |
| FactSet Research Systems Inc   | FDS          | 38.04               | 422.84             | 16,085                   | 0.04%           | 0.98%                          | 0.00%                         | 9.67%                                 | 0.00%                                |
| NVIDIA Corp  | NVDA         | 24,530.00           | 119.37             | 2,928,146                |                 | 0.03%                          |                               | 44.35%                                |                                      |
| Cognizant Technology Solutions Corp                                  | CTSH         | 495.66              | 77.77              | 38,547                   | 0.11%           | 1.54%                          | 0.00%                         | 6.20%                                 | 0.01%                                |
| Intuitive Surgical Inc Take-Two Interactive Software Inc             | ISRG<br>TTWO | 355.35<br>175.28    | 492.63<br>161.71   | 175,058<br>28,345        | 0.48%           |                                |                               | 17.51%<br>60.49%                      | 0.00%                                |
| Republic Services Inc  | RSG          | 314.07              | 208.21             | 65,392                   | 0.18%           | 1.11%                          | 0.00%                         | 10.33%                                | 0.02%                                |
| eBay Inc   | EBAY         | 489.00              | 59.10              | 28,900                   | 0.08%           | 1.83%                          | 0.00%                         | 10.12%                                | 0.01%                                |
| Goldman Sachs Group Inc/The  | GS           | 315.80              | 510.25             | 161,137                  | 0.44%           | 2.35%                          | 0.01%                         | 14.20%                                | 0.06%                                |
| SBA Communications Corp<br>Sempra                                    | SBAC<br>SRE  | 107.47<br>633.15    | 226.66<br>82.18    | 24,360<br>52,032         | 0.07%<br>0.14%  | 1.73%<br>3.02%                 | 0.00%<br>0.00%                | 15.96%<br>5.27%                       | 0.01%<br>0.01%                       |
| Moody's Corp   | MCO          | 182.10              | 487.74             | 52,032<br>88,817         | 0.14%           | 0.70%                          | 0.00%                         | 14.41%                                | 0.01%                                |
| ON Semiconductor Corp  | ON           | 428.36              | 77.87              | 33,356                   | 0.09%           |                                |                               | 1.28%                                 | 0.00%                                |
| Booking Holdings Inc   | BKNG         | 33.52               | 3,909.23           | 131,053                  | 0.36%           | 0.90%                          | 0.00%                         | 14.59%                                | 0.05%                                |
| F5 Inc Akamai Technologies Inc                                       | FFIV<br>AKAM | 58.28<br>151.53     | 203.15<br>101.84   | 11,840<br>15,431         | 0.03%<br>0.04%  |                                |                               | 7.83%<br>6.12%                        | 0.00%<br>0.00%                       |
| Akamai Technologies Inc Charles River Laboratories International Inc | CRL          | 51.63               | 101.84             | 10,210                   | 0.04%           |                                |                               | 5.20%                                 | 0.00%                                |
| MarketAxess Holdings Inc   | MKTX         | 37.75               | 242.39             | 9,151                    | 0.03%           | 1.22%                          | 0.00%                         | 4.02%                                 | 0.00%                                |

Estimated Weighted Average Dividend Yield [1] 1.54%

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2]
Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3]
Total [4]

Won Proposed
Weighting
9.55% 80% weighting
3.90% 20% weighting
8.42%

10.02%

S&P 500 Estimated Required Market Return [5]

|  |              | [6]                  | [7]               | [8]                 | [9]            | [10]                  | [11]                                   | [12]                   | [13]                              |
|--|--------------|----------------------|-------------------|---------------------|----------------|-----------------------|--|------------------------|-----------------------------------|
|  | _            | Shares               |                   | Market              | Weight in      | Estimated<br>Dividend | Capitalization<br>Weighted<br>Dividend | Bloomberg<br>Long-Term | Capitalization Weighted Long-Term |
| Name   | Ticker       | Outst'g              | Price             | Capitalization      | Index          | Yield                 | Yield                                  | Growth Est.            | Growth Est.                       |
| Devon Energy Corp<br>Bio-Techne Corp                               | DVN<br>TECH  | 626.20<br>158.60     | 44.78<br>73.99    | 28,041<br>11,735    | 0.08%<br>0.03% | 3.93%<br>0.43%        | 0.00%<br>0.00%                         | 6.60%<br>6.00%         | 0.01%<br>0.00%                    |
| Alphabet Inc   | GOOGL        | 5,859.00             | 163.38            | 957,243             | 2.62%          | 0.49%                 | 0.01%                                  | 15.01%                 | 0.39%                             |
| Teleflex Inc   | TFX          | 47.12                | 245.17            | 11,552              | 0.03%          | 0.55%                 | 0.00%                                  | 7.95%                  | 0.00%                             |
| Allegion plc<br>Netflix Inc  | ALLE<br>NFLX | 87.13<br>429.17      | 138.84<br>701.35  | 12,097<br>300,995   | 0.03%          | 1.38%                 | 0.00%                                  | 7.73%<br>35.72%        | 0.00%                             |
| Warner Bros Discovery Inc  | WBD          | 2,451.91             | 7.84              | 19,223              |                |                       |  | 28.63%                 |                                   |
| Agilent Technologies Inc   | A            | 287.33               | 142.92            | 41,065              | 0.11%          | 0.66%                 | 0.00%                                  | 5.74%                  | 0.01%                             |
| Trimble Inc<br>Elevance Health Inc                                 | TRMB<br>ELV  | 244.21<br>231.89     | 56.69<br>556.89   | 13,844<br>129,135   | 0.35%          | 1.17%                 | 0.00%                                  | 11.79%                 | 0.04%                             |
| CME Group Inc  | CME          | 360.09               | 215.74            | 77,687              | 0.21%          | 2.13%                 | 0.00%                                  | 3.82%                  | 0.01%                             |
| Juniper Networks Inc   | JNPR         | 329.16               | 38.88             | 12,798              | 0.04%          | 2.26%                 | 0.00%                                  | 6.00%                  | 0.00%                             |
| BlackRock Inc<br>DTE Energy Co                                     | BLK<br>DTE   | 148.13<br>206.93     | 901.81<br>125.02  | 133,583<br>25,870   | 0.37%<br>0.07% | 2.26%<br>3.26%        | 0.01%<br>0.00%                         | 9.76%<br>10.27%        | 0.04%<br>0.01%                    |
| Celanese Corp  | CE           | 109.26               | 130.60            | 14,270              | 0.04%          | 2.14%                 | 0.00%                                  | 0.56%                  | 0.00%                             |
| Nasdaq Inc   | NDAQ         | 575.94               | 72.08             | 41,514              | 0.11%          | 1.33%                 | 0.00%                                  | 10.30%                 | 0.01%                             |
| Philip Morris International Inc<br>ngersoll Rand Inc               | PM<br>IR     | 1,554.80<br>403.48   | 123.29<br>91.45   | 191,692<br>36,899   | 0.53%          | 4.22%<br>0.09%        | 0.02%                                  | 9.36%                  | 0.05%                             |
| Salesforce Inc   | CRM          | 956.00               | 252.90            | 241,772             | 0.66%          | 0.63%                 | 0.00%                                  | 17.52%                 | 0.12%                             |
| Roper Technologies Inc   | ROP          | 107.20               | 554.41            | 59,432              |                | 0.54%                 |  |                        |                                   |
| Huntington Ingalls Industries Inc                                  | HII          | 39.22                | 282.77            | 11,089              | 0.03%          | 1.84%                 | 0.00%                                  | 7.62%                  | 0.00%                             |
| MetLife Inc<br>Fapestry Inc  | MET<br>TPR   | 700.33<br>230.22     | 77.48<br>40.97    | 54,261<br>9,432     | 0.15%<br>0.03% | 2.81%<br>3.42%        | 0.00%<br>0.00%                         | 14.38%<br>5.52%        | 0.02%<br>0.00%                    |
| CSX Corp   | CSX          | 1,938.74             | 34.27             | 66,441              | 0.03%          | 1.40%                 | 0.00%                                  | 9.21%                  | 0.02%                             |
| Edwards Lifesciences Corp  | EW           | 602.40               | 69.96             | 42,144              | 0.12%          |                       |  | 8.56%                  | 0.00%                             |
| Ameriprise Financial Inc   | AMP          | 98.19                | 449.44            | 44,130<br>17,815    | 0.12%          | 1.32%                 | 0.00%                                  | 16.59%                 | 0.02%                             |
| Zebra Technologies Corp<br>Zimmer Biomet Holdings Inc              | ZBRA<br>ZBH  | 51.58<br>203.65      | 345.38<br>115.46  | 17,815<br>23,514    | 0.06%          | 0.83%                 | 0.00%                                  | 6.96%                  | 0.00%                             |
| Camden Property Trust  | CPT          | 106.64               | 125.20            | 13,351              | 0.04%          | 3.29%                 | 0.00%                                  | 1.87%                  | 0.00%                             |
| CBRE Group Inc   | CBRE         | 306.43               | 115.14            | 35,282              |                |                       |  |                        |                                   |
| Mastercard Inc   | MA           | 916.71               | 483.34            | 443,083             | 1.21%          | 0.55%                 | 0.01%                                  | 15.18%                 | 0.18%                             |
| CarMax Inc<br>Intercontinental Exchange Inc                        | KMX<br>ICE   | 156.08<br>574.14     | 84.55<br>161.55   | 13,196<br>92,753    | 0.04%<br>0.25% | 1.11%                 | 0.00%                                  | 17.91%<br>9.95%        | 0.00%<br>0.03%                    |
| Fidelity National Information Services Inc                         | FIS          | 545.57               | 82.45             | 44,982              | 0.2070         | 1.75%                 | 0.0070                                 | 22.20%                 | 0.0070                            |
| Smurfit WestRock PLC   | SW           | 519.36               | 47.42             | 24,628              | 0.07%          | 2.55%                 | 0.00%                                  | 1.00%                  | 0.00%                             |
| Chipotle Mexican Grill Inc   | CMG<br>WYNN  | 1,369.48<br>110.99   | 56.08             | 76,800<br>8.533     |                | 1.30%                 |  | 22.64%                 |                                   |
| Wynn Resorts Ltd<br>Live Nation Entertainment Inc                  | LYV          | 232.11               | 76.88<br>97.67    | 8,533<br>22,671     |                | 1.30%                 |  |                        |                                   |
| Assurant Inc   | AIZ          | 51.79                | 195.63            | 10,132              | 0.03%          | 1.47%                 | 0.00%                                  | 7.14%                  | 0.00%                             |
| NRG Energy Inc   | NRG          | 206.38               | 85.01             | 17,544              | 0.05%          | 1.92%                 | 0.00%                                  | 4.00%                  | 0.00%                             |
| Monster Beverage Corp<br>Regions Financial Corp                    | MNST<br>RF   | 979.54<br>915.13     | 47.13<br>23.17    | 46,166<br>21,203    | 0.13%<br>0.06% | 4.32%                 | 0.00%                                  | 10.18%<br>4.68%        | 0.00%<br>0.00%                    |
| Baker Hughes Co  | BKR          | 993.42               | 35.17             | 34,939              | 0.0070         | 2.39%                 | 0.0070                                 | 69.21%                 | 0.0070                            |
| Mosaic Co/The  | MOS          | 318.64               | 28.57             | 9,103               |                | 2.94%                 |  | -21.74%                |                                   |
| Expedia Group Inc  | EXPE         | 124.66               | 139.09            | 17,338              | 0.05%          | 0.440/                |  | 19.59%                 | 0.00%                             |
| CF Industries Holdings Inc<br>APA Corp                             | CF<br>APA    | 180.41<br>369.91     | 83.09<br>28.49    | 14,990<br>10,539    |                | 2.41%<br>3.51%        |  | -9.54%<br>-5.79%       |                                   |
| Leidos Holdings Inc  | LDOS         | 134.71               | 158.51            | 21,354              | 0.06%          | 0.96%                 | 0.00%                                  | 11.76%                 | 0.01%                             |
| Alphabet Inc   | GOOG         | 5,585.00             | 165.11            | 922,139             | 2.53%          | 0.48%                 | 0.01%                                  | 15.01%                 | 0.38%                             |
| First Solar Inc  | FSLR<br>TEL  | 107.05               | 227.37            | 24,339              | 0.130/         | 1 60%                 | 0.00%                                  | 41.25%<br>5.41%        | 0.010/                            |
| TE Connectivity Ltd Discover Financial Services                    | DFS          | 303.92<br>251.07     | 153.60<br>138.71  | 46,682<br>34,826    | 0.13%<br>0.10% | 1.69%<br>2.02%        | 0.00%<br>0.00%                         | 11.65%                 | 0.01%<br>0.01%                    |
| /isa Inc   | V            | 1,670.45             | 276.37            | 461,661             | 1.27%          | 0.75%                 | 0.01%                                  | 12.33%                 | 0.16%                             |
| Mid-America Apartment Communities Inc                              | MAA          | 116.88               | 162.37            | 18,977              | 0.05%          | 3.62%                 | 0.00%                                  | 0.65%                  | 0.00%                             |
| Xylem Inc/NY<br>Marathon Petroleum Corp                            | XYL<br>MPC   | 242.89<br>334.68     | 137.53<br>177.12  | 33,405<br>59,279    |                | 1.05%<br>1.86%        |  | -13.00%                |                                   |
| Fractor Supply Co  | TSCO         | 107.87               | 267.55            | 28,860              | 0.08%          | 1.64%                 | 0.00%                                  | 5.68%                  | 0.00%                             |
| Advanced Micro Devices Inc   | AMD          | 1,618.48             | 148.56            | 240,442             |                |                       |  | 25.66%                 |                                   |
| ResMed Inc   | RMD          | 146.93               | 245.02            | 36,001              | 0.10%          | 0.87%                 | 0.00%                                  | 9.57%                  | 0.01%                             |
| Mettler-Toledo International Inc<br>/ICI Properties Inc            | MTD<br>VICI  | 21.36<br>1,043.14    | 1,439.08<br>33.48 | 30,734<br>34,924    | 0.08%<br>0.10% | 4.96%                 | 0.00%                                  | 9.15%<br>1.83%         | 0.00%<br>0.00%                    |
| Copart Inc   | CPRT         | 962.30               | 52.96             | 50,963              | 0.1070         | 1.0070                | 0.0070                                 | 1.0070                 | 0.0070                            |
| Jacobs Solutions Inc   | J            | 124.25               | 150.88            | 18,747              | 0.05%          | 0.77%                 | 0.00%                                  | 10.87%                 | 0.01%                             |
| Albemarle Corp<br>Fortinet Inc                                     | ALB<br>FTNT  | 117.53<br>764.91     | 90.25<br>76.71    | 10,607<br>58,676    | 0.16%          | 1.80%                 |  | 35.42%<br>8.66%        | 0.00%                             |
| Moderna Inc  | MRNA         | 384.40               | 77.40             | 29,752              | 0.18%          |                       |  | 17.95%                 | 0.00%                             |
| Essex Property Trust Inc   | ESS          | 64.22                | 301.79            | 19,380              | 0.05%          | 3.25%                 | 0.00%                                  | 4.50%                  | 0.00%                             |
| CoStar Group Inc   | CSGP         | 409.82               | 77.30             | 31,679              | 0.09%          |                       |  | 13.84%                 | 0.00%                             |
| Realty Income Corp Westinghouse Air Brake Technologies Corp        | O<br>WAB     | 870.87<br>175.18     | 61.85<br>169.57   | 53,861<br>29,706    | 0.15%<br>0.08% | 5.10%<br>0.47%        | 0.01%<br>0.00%                         | 3.85%<br>16.12%        | 0.01%<br>0.01%                    |
| Pool Corp  | POOL         | 38.26                | 351.62            | 13,452              | 0.0076         | 1.37%                 | 0.0076                                 | -0.04%                 | 0.0176                            |
| Vestern Digital Corp   | WDC          | 343.45               | 65.59             | 22,527              |                |                       |  | -10.00%                |                                   |
| PepsiCo Inc  | PEP          | 1,373.57             | 172.88            | 237,463             | 0.65%          | 3.14%                 | 0.02%                                  | 7.40%                  | 0.05%                             |
| Diamondback Energy Inc<br>Palo Alto Networks Inc                   | FANG<br>PANW | 178.39<br>323.80     | 195.11<br>362.72  | 34,806<br>117,449   | 0.10%<br>0.32% | 4.80%                 | 0.00%                                  | 8.34%<br>11.52%        | 0.01%<br>0.00%                    |
| ServiceNow Inc   | NOW          | 206.00               | 855.00            | 176,130             | 0.0270         |                       |  | 11.0270                | 0.0070                            |
| Church & Dwight Co Inc   | CHD          | 244.82               | 101.88            | 24,942              | 0.07%          | 1.11%                 | 0.00%                                  | 7.35%                  | 0.01%                             |
| Federal Realty Investment Trust                                    | FRT          | 83.67                | 115.00            | 9,622               | 0.03%          | 3.83%                 | 0.00%                                  | 4.97%                  | 0.00%                             |
| MGM Resorts International  American Electric Power Co Inc          | MGM<br>AEP   | 303.77<br>532.12     | 37.59<br>100.28   | 11,419<br>53,361    | 0.15%          | 3.51%                 | 0.01%                                  | 20.80%<br>6.25%        | 0.01%                             |
| nvitation Homes Inc  | INVH         | 612.59               | 36.84             | 22,568              | 0.06%          | 3.04%                 | 0.00%                                  | 5.19%                  | 0.00%                             |
| PTC Inc  | PTC          | 120.14               | 179.09            | 21,515              | 0.06%          |                       |  | 14.76%                 | 0.00%                             |
| IB Hunt Transport Services Inc                                     | JBHT         | 101.99               | 173.20            | 17,664              | 0.05%          | 0.99%                 | 0.00%                                  | 9.73%                  | 0.00%                             |
| .am Research Corp<br>Mohawk Industries Inc                         | LRCX<br>MHK  | 129.88<br>63.12      | 821.01<br>155.14  | 106,629<br>9,792    | 0.29%<br>0.03% | 1.12%                 | 0.00%                                  | 16.29%<br>4.45%        | 0.05%<br>0.00%                    |
| GE HealthCare Technologies Inc                                     | GEHC         | 456.66               | 84.82             | 38,734              | 0.03%          | 0.14%                 | 0.00%                                  | 10.92%                 | 0.00%                             |
| Pentair PLC  | PNR          | 165.50               | 88.69             | 14,678              | 0.04%          | 1.04%                 | 0.00%                                  | 12.50%                 | 0.01%                             |
| /ertex Pharmaceuticals Inc   | VRTX         | 258.10               | 495.89            | 127,990             | 0.35%          | 4.0=0:                | 0.0001                                 | 11.00%                 | 0.00%                             |
| Amcor PLC<br>Meta Platforms Inc                                    | AMCR<br>META | 1,445.34<br>2,184.73 | 11.44<br>521.31   | 16,535<br>1,138,921 | 0.05%<br>3.12% | 4.37%<br>0.38%        | 0.00%<br>0.01%                         | 3.71%<br>19.80%        | 0.00%<br>0.62%                    |
| vieta Platforms Inc<br>T-Mobile US Inc                             | TMUS         | 2,184.73<br>1,166.78 | 198.72            | 231,863             | 3.12%<br>0.64% | 0.38%<br>1.31%        | 0.01%                                  | 5.00%                  | 0.62%                             |
| United Rentals Inc   | URI          | 66.14                | 741.26            | 49,024              | 0.13%          | 0.88%                 | 0.00%                                  | 7.45%                  | 0.01%                             |
| Alexandria Daal Estata Envitina la a                               | ARE          | 174.93               | 119.57            | 20,916              | 0.06%          | 4.35%                 | 0.00%                                  | 3.03%                  | 0.00%                             |
| Alexandria Real Estate Equities Inc<br>Honeywell International Inc | HON          | 649.67               | 207.91            | 135,073             | 0.37%          | 2.08%                 | 0.01%                                  | 8.65%                  | 0.03%                             |

Estimated Weighted Average Dividend Yield [1]

1.54%

10.02%

Won Proposed
Weighting
9.55% 80% weighting Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2]
Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3]
Total [4] 3.90% 20% weighting 8.42%

S&P 500 Estimated Required Market Return [5]

### STANDARD AND POOR'S 500 INDEX

|                                 | _      | [6]      | [7]    | [8]            | [9]       | [10]      | [11]           | [12]        | [13]           |
|---------------------------------|--------|----------|--------|----------------|-----------|-----------|----------------|-------------|----------------|
|                                 |        |          |        |                |           |           | Capitalization |             | Capitalization |
|                                 |        |          |        |                |           | Estimated | Weighted       | Bloomberg   | Weighted       |
|                                 |        | Shares   |        | Market         | Weight in |           | Dividend       | Long-Term   | Long-Term      |
| Name                            | Ticker | Outst'g  | Price  | Capitalization | Index     | Yield     | Yield          | Growth Est. | Growth Est.    |
| United Airlines Holdings Inc    | UAL    | 328.80   | 44.04  | 14,480         | 0.04%     |           |                | 5.31%       | 0.00%          |
| Seagate Technology Holdings PLC | STX    | 210.20   | 99.55  | 20,925         |           | 2.81%     |                |             |                |
| News Corp                       | NWS    | 190.68   | 29.43  | 5,612          |           | 0.68%     |                |             |                |
| Centene Corp                    | CNC    | 526.03   | 78.83  | 41,467         | 0.11%     |           |                | 4.40%       | 0.00%          |
| Martin Marietta Materials Inc   | MLM    | 61.12    | 533.37 | 32,598         | 0.09%     | 0.59%     | 0.00%          | 7.47%       | 0.01%          |
| Teradyne Inc                    | TER    | 163.18   | 136.73 | 22,311         | 0.06%     | 0.35%     | 0.00%          | 16.14%      | 0.01%          |
| PayPal Holdings Inc             | PYPL   | 1,022.33 | 72.43  | 74,048         | 0.20%     |           |                | 12.03%      | 0.00%          |
| Tesla Inc                       | TSLA   | 3,194.64 | 214.11 | 684,004        |           |           |                | -11.00%     |                |
| KKR & Co Inc                    | KKR    | 887.44   | 123.77 | 109,838        |           | 0.57%     |                |             |                |
| Arch Capital Group Ltd          | ACGL   | 376.06   | 113.09 | 42,528         | 0.12%     |           |                | 6.13%       | 0.00%          |
| Dow Inc                         | DOW    | 703.27   | 53.58  | 37,681         |           | 5.23%     |                | -1.67%      |                |
| Everest Group Ltd               | EG     | 43.27    | 392.24 | 16,974         | 0.05%     | 2.04%     | 0.00%          | 2.48%       | 0.00%          |
| Teledyne Technologies Inc       | TDY    | 46.78    | 432.80 | 20,248         |           |           |                |             |                |
| GE Vernova Inc                  | GEV    | 274.80   | 201.00 | 55,235         |           |           |                | 70.40%      |                |
| News Corp                       | NWSA   | 378.33   | 28.33  | 10,718         |           | 0.71%     |                |             |                |
| Exelon Corp                     | EXC    | 999.74   | 38.09  | 38,080         | 0.10%     | 3.99%     | 0.00%          | 5.31%       | 0.01%          |
| Global Payments Inc             | GPN    | 254.44   | 111.01 | 28,245         | 0.08%     | 0.90%     | 0.00%          | 9.30%       | 0.01%          |
| Crown Castle Inc                | CCI    | 434.57   | 112.02 | 48,680         | 0.13%     | 5.59%     | 0.01%          | 1.13%       | 0.00%          |
| Aptiv PLC                       | APTV   | 265.76   | 71.53  | 19,010         | 0.05%     |           |                | 16.91%      | 0.00%          |
| Align Technology Inc            | ALGN   | 74.70    | 237.22 | 17,720         | 0.05%     |           |                | 9.53%       | 0.00%          |
| Kenvue Inc                      | KVUE   | 1,915.17 | 21.95  | 42,038         | 0.12%     | 3.74%     | 0.00%          | 13.58%      | 0.02%          |
| Targa Resources Corp            | TRGP   | 219.08   | 146.90 | 32,183         | 0.09%     | 2.04%     | 0.00%          | 16.74%      | 0.01%          |
| Bunge Global SA                 | BG     | 141.65   | 101.38 | 14,361         |           | 2.68%     |                | -8.59%      |                |
| LKQ Corp                        | LKQ    | 263.26   | 41.59  | 10,949         |           | 2.89%     |                |             |                |
| Deckers Outdoor Corp            | DECK   | 25.41    | 959.29 | 24,377         | 0.07%     |           |                | 10.80%      | 0.00%          |
| Zoetis Inc                      | ZTS    | 453.05   | 183.49 | 83,130         | 0.23%     | 0.94%     | 0.00%          | 10.36%      | 0.02%          |
| Equinix Inc                     | EQIX   | 94.95    | 834.36 | 79,218         | 0.22%     | 2.04%     | 0.00%          | 14.03%      | 0.03%          |
| Digital Realty Trust Inc        | DLR    | 327.41   | 151.61 | 49,639         | 0.14%     | 3.22%     | 0.00%          | 3.21%       | 0.00%          |
| Molina Healthcare Inc           | MOH    | 58.60    | 349.79 | 20,498         | 0.06%     |           |                | 11.98%      | 0.00%          |
| Las Vegas Sands Corp            | LVS    | 736.43   | 38.99  | 28,713         |           | 2.05%     |                |             |                |
|                                 |        |          |        |                |           |           |                |             |                |

Notes:

[1] Equals sum of Col. [11]

[2] Equals sum of Col. [13]

[3] Dr. Won's proposed GDP growth rate [4] Equals ([2] x 80%) + ([3] x 20%)

[5] Equals ([1] x (1 + (0.5 x [4]))) + [4]

[6] Bloomberg Professional as of August 31, 2024

[7] Bloomberg Professional as of August 31, 2024

[8] Equals [6] x [7]

[9] Equals weight in S&P 500 based on market capitalization [6] if growth rate >0% and ≤20% and dividend yield > 0% [10] Bloomberg Professional, as of August 31, 2024

[11] Equals [10] x [9] [12] Bloomberg Professional, as of August 31, 2024

[13] Equals [9] x [12]

# Correction to Dr. Won's Adjustment to the Calculation of Market Return from Analysts' Long-Term Growth Estimates in Bulkley Direct Testimony

Estimated Weighted Average Dividend Yield [1] 1.66%

imated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] 10.31% 100.00%

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] 10.31% 100 Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3] n/a 10.31%

S&P 500 Estimated Required Market Return [5] 12.05%

| Name   |              | [6]                        | [7]                       | [8]                       | [9]             | [10] Estimated    | [11]                       | [12]<br>Bloomberg        | [13]<br>Capitalization<br>Weighted |
|--|--------------|----------------------------|---------------------------|---------------------------|-----------------|-------------------|----------------------------|--------------------------|------------------------------------|
|  |              |                            |                           |                           |                 |                   | Capitalization<br>Weighted |                          |                                    |
|  | Ticker       | Shares<br>Outst'g          | Price                     | Market<br>Capitalization  | Weight in Index | Dividend<br>Yield | Dividend<br>Yield          | Long-Term<br>Growth Est. | Long-Term<br>Growth Est.           |
| LyondellBasell Industries NV                         | LYB          | 325.09                     | 98.70                     | 32,086                    |                 | 5.43%             |                            | -8.07%                   |                                    |
| American Express Co                                  | AXP          | 710.91                     | 258.65                    | 183,877                   | 0.54%           | 1.08%             | 0.01%                      | 15.74%                   | 0.09%                              |
| Verizon Communications Inc                           | VZ           | 4,209.52                   | 41.78                     | 175,874                   | 0.52%           | 6.37%             | 0.03%                      | 0.86%                    | 0.00%                              |
| Broadcom Inc Boeing Co/The                           | AVGO<br>BA   | 4,654.88<br>616.17         | 162.82<br>173.74          | 757,908<br>107,053        | 2.24%           | 1.29%             | 0.03%                      | 15.88%<br>38.60%         | 0.36%                              |
| Solventum Corp                                       | SOLV         | 172.71                     | 64.11                     | 11,073                    |                 |                   |                            | -2.00%                   |                                    |
| Caterpillar Inc                                      | CAT          | 484.90                     | 356.10                    | 172,672                   | 0.51%           | 1.58%             | 0.01%                      | 8.38%                    | 0.04%                              |
| JPMorgan Chase & Co                                  | JPM          | 2,845.17                   | 224.80                    | 639,593                   | 1.89%           | 2.05%             | 0.04%                      | 4.05%                    | 0.08%                              |
| Chevron Corp   | CVX          | 1,828.92                   | 147.95                    | 270,588                   | 0.80%           | 4.41%             | 0.04%                      | 7.00%                    | 0.06%                              |
| Coca-Cola Co/The AbbVie Inc                          | KO<br>ABBV   | 4,309.87<br>1,766.34       | 72.47<br>196.31           | 312,336<br>346,751        | 0.92%<br>1.03%  | 2.68%<br>3.16%    | 0.02%<br>0.03%             | 6.36%<br>8.80%           | 0.06%<br>0.09%                     |
| Walt Disney Co/The                                   | DIS          | 1,813.59                   | 90.38                     | 163,912                   | 0.48%           | 1.00%             | 0.00%                      | 18.89%                   | 0.09%                              |
| Corpay Inc   | CPAY         | 69.43                      | 315.55                    | 21,910                    |                 |                   |                            | 14.87%                   |                                    |
| Extra Space Storage Inc                              | EXR          | 211.93                     | 177.00                    | 37,511                    |                 | 3.66%             |                            | -0.20%                   |                                    |
| Exxon Mobil Corp                                     | XOM          | 4,442.83                   | 117.94                    | 523,987                   | 1.55%           | 3.22%             | 0.05%                      | 5.00%                    | 0.08%                              |
| Phillips 66 General Electric Co                      | PSX<br>GE    | 418.57<br>1,084.31         | 140.31<br>174.62          | 58,729<br>189,342         |                 | 3.28%<br>0.64%    |                            | -9.00%<br>29.30%         |                                    |
| HP Inc   | HPQ          | 963.72                     | 36.18                     | 34,867                    | 0.10%           | 3.05%             | 0.00%                      | 1.42%                    | 0.00%                              |
| Home Depot Inc/The                                   | HD           | 993.29                     | 368.50                    | 366,028                   | 1.08%           | 2.44%             | 0.03%                      | 3.87%                    | 0.04%                              |
| Monolithic Power Systems Inc                         | MPWR         | 48.75                      | 934.68                    | 45,568                    |                 | 0.53%             |                            |                          |                                    |
| International Business Machines Corp                 | IBM          | 921.15                     | 202.13                    | 186,192                   | 0.55%           | 3.30%             | 0.02%                      | 3.90%                    | 0.02%                              |
| Johnson & Johnson<br>Lululemon Athletica Inc         | JNJ          | 2,407.24                   | 165.86<br>250.47          | 399,265                   | 1.18%           | 2.99%             | 0.04%                      | 3.73%                    | 0.04%                              |
| McDonald's Corp                                      | LULU<br>MCD  | 117.66<br>717.34           | 259.47<br>286.99          | 30,529<br>205,870         | 0.61%           | 2.33%             | 0.01%                      | 7.00%<br>5.15%           | 0.03%                              |
| Merck & Co Inc                                       | MRK          | 2,534.81                   | 118.45                    | 300,248                   | 0.89%           | 2.60%             | 0.02%                      | 14.00%                   | 0.12%                              |
| 3M Co  | MMM          | 549.35                     | 134.69                    | 73,992                    |                 | 2.08%             |                            | -5.37%                   |                                    |
| American Water Works Co Inc                          | AWK          | 194.86                     | 143.12                    | 27,889                    | 0.08%           | 2.14%             | 0.00%                      | 8.00%                    | 0.01%                              |
| Bank of America Corp                                 | BAC          | 7,759.58<br>5,666.70       | 40.75                     | 316,203<br>164,301        | 0.400/          | 2.55%<br>5.70%    | 0.020/                     | 6 200/                   | 0.020/                             |
| Pfizer Inc Procter & Gamble Co/The                   | PFE<br>PG    | 5,666.70<br>2,349.71       | 29.01<br>171.54           | 164,391<br>403,069        | 0.49%<br>1.19%  | 5.79%<br>2.35%    | 0.03%<br>0.03%             | 6.39%<br>7.37%           | 0.03%<br>0.09%                     |
| AT&T Inc   | T            | 7,170.24                   | 19.90                     | 142,688                   | 0.42%           | 5.58%             | 0.03%                      | 1.84%                    | 0.01%                              |
| Travelers Cos Inc/The                                | TRV          | 227.93                     | 228.07                    | 51,984                    | 0.15%           | 1.84%             | 0.00%                      | 18.21%                   | 0.03%                              |
| RTX Corp   | RTX          | 1,330.24                   | 123.34                    | 164,072                   | 0.49%           | 2.04%             | 0.01%                      | 10.23%                   | 0.05%                              |
| Analog Devices Inc                                   | ADI          | 496.49                     | 233.92                    | 116,140                   |                 | 1.57%             |                            | -5.82%                   |                                    |
| Walmart Inc  | WMT          | 8,038.25                   | 77.23                     | 620,794                   | 1.84%           | 1.07%             | 0.02%                      | 9.24%                    | 0.17%                              |
| Cisco Systems Inc Intel Corp                         | CSCO<br>INTC | 4,028.82<br>4,276.00       | 50.54<br>22.04            | 203,616<br>94,243         | 0.60%           | 3.17%             | 0.02%                      | 3.40%<br>4.26%           | 0.02%                              |
| General Motors Co                                    | GM           | 1,123.92                   | 49.78                     | 55,949                    | 0.17%           | 0.96%             | 0.00%                      | 11.02%                   | 0.02%                              |
| Microsoft Corp                                       | MSFT         | 7,433.04                   | 417.14                    | 3,100,617                 | 9.17%           | 0.72%             | 0.07%                      | 16.10%                   | 1.48%                              |
| Dollar General Corp                                  | DG           | 219.92                     | 82.97                     | 18,246                    |                 | 2.84%             |                            | -3.74%                   |                                    |
| Cigna Group/The                                      | CI           | 279.55                     | 361.81                    | 101,144                   | 0.30%           | 1.55%             | 0.00%                      | 11.65%                   | 0.03%                              |
| Kinder Morgan Inc Citigroup Inc                      | KMI<br>C     | 2,219.46<br>1,907.80       | 21.57<br>62.64            | 47,874<br>119,504         | 0.14%           | 5.33%<br>3.58%    | 0.01%                      | 6.52%<br>27.26%          | 0.01%                              |
| American International Group Inc                     | AIG          | 643.95                     | 77.05                     | 49,616                    | 0.15%           | 2.08%             | 0.00%                      | 12.42%                   | 0.02%                              |
| Altria Group Inc                                     | MO           | 1,706.22                   | 53.77                     | 91,744                    | 0.27%           | 7.59%             | 0.02%                      | 4.14%                    | 0.01%                              |
| HCA Healthcare Inc                                   | HCA          | 258.07                     | 395.59                    | 102,091                   | 0.30%           | 0.67%             | 0.00%                      | 10.81%                   | 0.03%                              |
| International Paper Co                               | IP           | 347.37                     | 48.42                     | 16,820                    | 0.070/          | 3.82%             | /                          | -2.00%                   |                                    |
| Hewlett Packard Enterprise Co Abbott Laboratories    | HPE<br>ABT   | 1,299.67<br>1,739.90       | 19.37<br>113.27           | 25,175<br>197,078         | 0.07%<br>0.58%  | 2.68%<br>1.94%    | 0.00%<br>0.01%             | 3.73%<br>8.12%           | 0.00%<br>0.05%                     |
| Affac Inc  | AFL          | 560.03                     | 110.36                    | 61,804                    | 0.38%           | 1.81%             | 0.01%                      | 7.55%                    | 0.03%                              |
| Air Products and Chemicals Inc                       | APD          | 222.32                     | 278.85                    | 61,993                    | 0.18%           | 2.54%             | 0.00%                      | 9.52%                    | 0.02%                              |
| Super Micro Computer Inc                             | SMCI         | 58.56                      | 437.70                    | 25,630                    |                 |                   |                            | 69.00%                   |                                    |
| Royal Caribbean Cruises Ltd                          | RCL          | 257.42                     | 164.62                    | 42,376                    | 0.4004          | 0.97%             | /                          | 30.00%                   |                                    |
| Hess Corp Archer-Daniels-Midland Co                  | HES<br>ADM   | 308.12<br>478.14           | 138.06<br>60.99           | 42,538<br>29,162          | 0.13%           | 1.27%<br>3.28%    | 0.00%                      | 16.00%<br>-3.62%         | 0.02%                              |
| Automatic Data Processing Inc                        | ADP          | 407.80                     | 275.91                    | 112,515                   |                 | 2.03%             |                            | -3.0276                  |                                    |
| Verisk Analytics Inc                                 | VRSK         | 142.42                     | 272.82                    | 38,856                    | 0.11%           | 0.57%             | 0.00%                      | 12.54%                   | 0.01%                              |
| AutoZone Inc   | AZO          | 17.08                      | 3,181.48                  | 54,349                    |                 |                   |                            | 14.66%                   |                                    |
| Linde PLC  | LIN          | 477.50                     | 478.25                    | 228,366                   | 0.68%           | 1.16%             | 0.01%                      | 11.76%                   | 0.08%                              |
| Avery Dennison Corp                                  | AVY          | 80.52                      | 221.85                    | 17,863                    | 0.05%           | 1.59%             | 0.00%                      | 12.84%                   | 0.01%                              |
| Enphase Energy Inc MSCI Inc                          | ENPH<br>MSCI | 135.42<br>78.65            | 121.04<br>580.59          | 16,391<br>45,663          | 0.14%           | 1.10%             | 0.00%                      | 7.45%<br>11.93%          | 0.02%                              |
| Ball Corp  | BALL         | 303.57                     | 63.61                     | 19,310                    | 0.06%           | 1.26%             | 0.00%                      | 13.35%                   | 0.01%                              |
| Axon Enterprise Inc                                  | AXON         | 75.57                      | 364.97                    | 27,582                    |                 |                   |                            | 20.81%                   |                                    |
| Dayforce Inc   | DAY          | 158.10                     | 57.17                     | 9,039                     |                 | /:-               |                            | · · ·                    |                                    |
| Carrier Global Corp                                  | CARR         | 902.75                     | 72.78                     | 65,702                    | 0.19%           | 1.04%             | 0.00%                      | 6.74%                    | 0.01%                              |
| Bank of New York Mellon Corp/The Otis Worldwide Corp | BK<br>OTIS   | 737.96<br>400.56           | 68.22<br>94.69            | 50,343<br>37,929          | 0.15%<br>0.11%  | 2.76%<br>1.65%    | 0.00%<br>0.00%             | 10.55%<br>10.00%         | 0.02%<br>0.01%                     |
| Baxter International Inc                             | BAX          | 510.18                     | 94.69<br>37.94            | 19,356                    | 0.11%           | 3.06%             | 0.00%                      | 6.50%                    | 0.01%                              |
| Becton Dickinson & Co                                | BDX          | 289.04                     | 242.41                    | 70,067                    | 0.21%           | 1.57%             | 0.00%                      | 8.34%                    | 0.02%                              |
| Berkshire Hathaway Inc                               | BRK/B        | 1,325.19                   | 475.92                    | 630,686                   |                 |                   |                            |                          |                                    |
| Best Buy Co Inc                                      | BBY          | 215.71                     | 100.40                    | 21,658                    | 0.06%           | 3.75%             | 0.00%                      | 4.17%                    | 0.00%                              |
| Boston Scientific Corp                               | BSX          | 1,472.63                   | 81.79                     | 120,446                   |                 | 4.000/            |                            | 12.58%                   |                                    |
| Bristol-Myers Squibb Co<br>Brown-Forman Corp         | BMY<br>BF/B  | 2,027.40<br>303.54         | 49.95<br>45.37            | 101,268<br>13,772         |                 | 4.80%<br>1.92%    |                            | 33.60%<br>-2.38%         |                                    |
| Coterra Energy Inc                                   | CTRA         | 739.27                     | 24.33                     | 17,987                    | 0.05%           | 3.45%             | 0.00%                      | 10.06%                   | 0.01%                              |
| Hilton Worldwide Holdings Inc                        | HLT          | 246.43                     | 219.64                    | 54,125                    | 0.16%           | 0.27%             | 0.00%                      | 14.97%                   | 0.02%                              |
| Carnival Corp  | CCL          | 1,122.46                   | 16.50                     | 18,521                    |                 |                   |                            |                          |                                    |
| Qorvo Inc  | QRVO         | 94.86                      | 115.89                    | 10,993                    |                 |                   |                            | 17.09%                   |                                    |
| Builders FirstSource Inc UDR Inc                     | BLDR<br>UDR  | 116.45<br>329.82           | 174.00<br>44.51           | 20,263<br>14,680          | 0.04%           | 3.82%             | 0.00%                      | 1.45%<br>1.85%           | 0.00%                              |
| Clorox Co/The  | CLX          | 123.86                     | 158.31                    | 19,609                    | 0.04%           | 3.02%             | 0.00%                      | 8.65%                    | 0.00%                              |
| Paycom Software Inc                                  | PAYC         | 57.43                      | 162.78                    | 9,349                     | 0.03%           | 0.92%             | 0.00%                      | 9.41%                    | 0.00%                              |
| CMS Energy Corp                                      | CMS          | 298.64                     | 67.86                     | 20,265                    | 0.06%           | 3.04%             | 0.00%                      | 7.28%                    | 0.00%                              |
| Colgate-Palmolive Co                                 | CL           | 817.09                     | 106.50                    | 87,020                    | 0.26%           | 1.88%             | 0.00%                      | 8.73%                    | 0.02%                              |
| EPAM Systems Inc                                     | EPAM         | 56.94<br>479.05            | 200.76                    | 11,430                    | 0.040/          | A 400/            | 0.000/                     | 5.29%<br>1.81%           | 0.000/                             |
| Conagra Brands Inc Airbnb Inc                        | CAG<br>ABNB  | 479.05<br>440.00           | 31.20<br>117.31           | 14,946<br>51,617          | 0.04%           | 4.49%             | 0.00%                      | 1.81%<br>19.84%          | 0.00%                              |
| Consolidated Edison Inc                              | ED           | 346.15                     | 101.56                    | 35,155                    | 0.10%           | 3.27%             | 0.00%                      | 19.84%<br>5.58%          | 0.01%                              |
| Corning Inc  | GLW          | 855.70                     | 41.85                     | 35,811                    | 0.11%           | 2.68%             | 0.00%                      | 13.41%                   | 0.01%                              |
| Confing the  | <b></b>      |                            |                           |                           |                 |                   |                            |                          |                                    |
| GoDaddy Inc  | GDDY         | 140.97                     | 167.41                    | 23,600                    |                 |                   |                            |                          |                                    |
| _  |              | 140.97<br>137.05<br>216.34 | 167.41<br>312.85<br>37.64 | 23,600<br>42,875<br>8,143 | 0.13%           | 2.33%             | 0.00%                      | 8.28%<br>-35.64%         | 0.01%                              |

Estimated Weighted Average Dividend Yield [1]

1.66%

**FERC Method** 

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3] Total [4]

No Weighting 100.00% 10.31% 10.31%

S&P 500 Estimated Required Market Return [5]

12.05%

|   |              | [6]                  | [7]              | [8]                      | [9]                | [10]              | [11]                    | [12]                     | [13]                       |
|---|--------------|----------------------|------------------|--------------------------|--------------------|-------------------|-------------------------|--------------------------|----------------------------|
|   |              |                      |                  |                          |                    | Estimated         | Capitalization Weighted | Bloomberg                | Capitalization<br>Weighted |
| Name  | Ticker       | Shares<br>Outst'g    | Price            | Market<br>Capitalization | Weight in<br>Index | Dividend<br>Yield | Dividend<br>Yield       | Long-Term<br>Growth Est. | Long-Term<br>Growth Est.   |
| Danaher Corp  | DHR          | 722.21               | 269.31           | 194,499                  | 0.58%              | 0.40%             | 0.00%                   | 1.89%                    | 0.01%                      |
| Target Corp Deere & Co  | TGT<br>DE    | 460.68<br>273.60     | 153.62<br>385.74 | 70,769<br>105,538        | 0.21%              | 2.92%<br>1.52%    | 0.01%                   | 14.38%<br>-9.99%         | 0.03%                      |
| Dominion Energy Inc   | D            | 838.94               | 55.90            | 46,897                   |                    | 4.78%             |                         | 21.59%                   |                            |
| Dover Corp  | DOV          | 137.46               | 186.03           | 25,571                   | 0.08%              | 1.11%             | 0.00%                   | 7.72%                    | 0.01%                      |
| Alliant Energy Corp Steel Dynamics Inc                                  | LNT<br>STLD  | 256.50<br>154.30     | 58.27<br>119.51  | 14,946<br>18,441         | 0.04%              | 3.30%<br>1.54%    | 0.00%                   | 7.34%<br>-4.38%          | 0.00%                      |
| Duke Energy Corp  | DUK          | 771.00               | 113.95           | 87,855                   | 0.26%              | 3.67%             | 0.01%                   | 6.61%                    | 0.02%                      |
| Regency Centers Corp Eaton Corp PLC                                     | REG<br>ETN   | 181.50<br>398.10     | 72.69<br>306.93  | 13,193<br>122,189        | 0.04%<br>0.36%     | 3.69%<br>1.23%    | 0.00%<br>0.00%          | 3.79%<br>14.60%          | 0.00%<br>0.05%             |
| Ecolab Inc  | ECL          | 284.54               | 253.18           | 72,039                   | 0.21%              | 0.90%             | 0.00%                   | 15.76%                   | 0.03%                      |
| Revvity Inc Emerson Electric Co   | RVTY<br>EMR  | 123.34<br>572.70     | 122.54<br>105.39 | 15,114<br>60,357         | 0.04%<br>0.18%     | 0.23%<br>1.99%    | 0.00%<br>0.00%          | 9.44%<br>15.10%          | 0.00%<br>0.03%             |
| EOG Resources Inc   | EOG          | 568.60               | 128.82           | 73,247                   | 0.18%              | 2.83%             | 0.00%                   | 3.28%                    | 0.01%                      |
| Aon PLC   | AON          | 217.24               | 343.72           | 74,670                   | 0.22%              | 0.79%             | 0.00%                   | 11.10%                   | 0.02%                      |
| Entergy Corp Equifax Inc  | ETR<br>EFX   | 213.83<br>123.74     | 120.69<br>306.74 | 25,807<br>37,955         | 0.08%              | 3.75%<br>0.51%    | 0.00%                   | 7.17%<br>21.48%          | 0.01%                      |
| EQT Corp  | EQT          | 594.02               | 33.51            | 19,906                   |                    | 1.88%             |                         |                          |                            |
| IQVIA Holdings Inc<br>Gartner Inc                                       | IQV<br>IT    | 182.30<br>77.06      | 251.55<br>491.96 | 45,858<br>37,910         |                    |                   |                         | 10.83%<br>7.67%          |                            |
| FedEx Corp  | FDX          | 244.96               | 298.77           | 73,188                   | 0.22%              | 1.85%             | 0.00%                   | 13.35%                   | 0.03%                      |
| FMC Corp  | FMC          | 124.82               | 64.58            | 8,061                    | 0.02%              | 3.59%             | 0.00%                   | 15.67%                   | 0.00%                      |
| Brown & Brown Inc Ford Motor Co   | BRO<br>F     | 285.26<br>3,904.40   | 105.13<br>11.19  | 29,989<br>43,690         | 0.09%<br>0.13%     | 0.49%<br>5.36%    | 0.00%<br>0.01%          | 10.85%<br>1.34%          | 0.01%<br>0.00%             |
| NextEra Energy Inc  | NEE          | 2,055.00             | 80.51            | 165,448                  | 0.49%              | 2.56%             | 0.01%                   | 8.17%                    | 0.04%                      |
| Franklin Resources Inc  | BEN<br>GRMN  | 523.00<br>192.21     | 20.24<br>183 29  | 10,585<br>35,231         | 0.400/             | 6.13%<br>1.64%    | 0.000/                  | Q 550/                   | 0.040/                     |
| Garmin Ltd<br>Freeport-McMoRan Inc                                      | GRMN<br>FCX  | 192.21<br>1,436.86   | 183.29<br>44.28  | 35,231<br>63,624         | 0.10%<br>0.19%     | 1.64%<br>1.36%    | 0.00%<br>0.00%          | 9.55%<br>17.59%          | 0.01%<br>0.03%             |
| Dexcom Inc  | DXCM         | 400.73               | 69.34            | 27,786                   |                    |                   |                         | 21.07%                   |                            |
| General Dynamics Corp General Mills Inc                                 | GD<br>GIS    | 274.78<br>556.62     | 299.36<br>72.29  | 82,258<br>40,238         | 0.24%<br>0.12%     | 1.90%<br>3.32%    | 0.00%<br>0.00%          | 15.55%<br>2.38%          | 0.04%<br>0.00%             |
| Genuine Parts Co  | GPC          | 139.32               | 143.26           | 19,959                   | 0.1270             | 2.79%             | 0.0070                  | 2.5070                   | 0.0070                     |
| Atmos Energy Corp   | ATO          | 155.23               | 130.74           | 20,295                   | 0.06%              | 2.46%             | 0.00%                   | 7.00%                    | 0.00%                      |
| WW Grainger Inc<br>Halliburton Co                                       | GWW<br>HAL   | 48.83<br>882.83      | 984.92<br>31.09  | 48,090<br>27,447         | 0.08%              | 0.83%<br>2.19%    | 0.00%                   | 8.17%                    | 0.01%                      |
| L3Harris Technologies Inc   | LHX          | 189.71               | 236.67           | 44,897                   | 0.13%              | 1.96%             | 0.00%                   | 8.77%                    | 0.01%                      |
| Healthpeak Properties Inc   | DOC          | 699.29               | 22.28            | 15,580                   | 0.05%              | 5.39%             | 0.00%                   | 5.33%                    | 0.00%                      |
| Insulet Corp Catalent Inc   | PODD<br>CTLT | 70.12<br>180.98      | 202.77<br>60.96  | 14,217<br>11,033         |                    |                   |                         | 17.61%                   |                            |
| Fortive Corp  | FTV          | 350.34               | 74.40            | 26,065                   | 0.08%              | 0.43%             | 0.00%                   | 10.49%                   | 0.01%                      |
| Hershey Co/The<br>Synchrony Financial                                   | HSY<br>SYF   | 147.67<br>395.23     | 193.06<br>50.26  | 28,510<br>19,864         | 0.08%              | 2.84%<br>1.99%    | 0.00%                   | 2.21%<br>64.00%          | 0.00%                      |
| Hormel Foods Corp   | HRL          | 548.31               | 32.55            | 17,847                   | 0.05%              | 3.47%             | 0.00%                   | 6.59%                    | 0.00%                      |
| Arthur J Gallagher & Co   | AJG          | 219.10               | 292.57           | 64,102                   | 0.19%              | 0.82%             | 0.00%                   | 12.87%                   | 0.02%                      |
| Mondelez International Inc<br>CenterPoint Energy Inc                    | MDLZ<br>CNP  | 1,335.80<br>651.72   | 71.81<br>27.30   | 95,924<br>17,792         | 0.28%<br>0.05%     | 2.62%<br>2.93%    | 0.01%<br>0.00%          | 6.93%<br>8.00%           | 0.02%<br>0.00%             |
| Humana Inc  | HUM          | 120.40               | 354.47           | 42,679                   | 0.0070             | 1.00%             | 0.0070                  | -1.30%                   | 0.0070                     |
| Willis Towers Watson PLC  | WTW          | 101.56               | 292.11           | 29,666                   | 0.09%              | 1.21%             | 0.00%                   | 11.69%                   | 0.01%                      |
| Illinois Tool Works Inc CDW Corp/DE                                     | ITW<br>CDW   | 296.90<br>133.58     | 253.18<br>225.64 | 75,169<br>30,140         | 0.22%<br>0.09%     | 2.37%<br>1.10%    | 0.01%<br>0.00%          | 6.90%<br>7.02%           | 0.02%<br>0.01%             |
| Trane Technologies PLC  | TT           | 225.67               | 361.66           | 81,616                   | 0.24%              | 0.93%             | 0.00%                   | 15.56%                   | 0.04%                      |
| Interpublic Group of Cos Inc/The International Flavors & Fragrances Inc | IPG<br>IFF   | 375.59<br>255.66     | 32.28<br>103.99  | 12,124<br>26,586         | 0.04%<br>0.08%     | 4.09%<br>1.54%    | 0.00%<br>0.00%          | 3.20%<br>2.12%           | 0.00%<br>0.00%             |
| Generac Holdings Inc  | GNRC         | 60.15                | 156.53           | 9,416                    | 0.0070             | 1.34 /0           | 0.0076                  | 7.00%                    | 0.0076                     |
| NXP Semiconductors NV   | NXPI         | 254.73               | 256.36           | 65,303                   | 0.19%              | 1.58%             | 0.00%                   | 5.89%                    | 0.01%                      |
| Kellanova Broadridge Financial Solutions Inc                            | K<br>BR      | 343.95<br>116.71     | 80.04<br>212.86  | 27,530<br>24,843         | 0.08%              | 2.85%<br>1.65%    | 0.00%                   | 9.29%                    | 0.01%                      |
| Kimberly-Clark Corp   | KMB          | 336.80               | 144.66           | 48,722                   | 0.14%              | 3.37%             | 0.00%                   | 8.36%                    | 0.01%                      |
| Kimco Realty Corp   | KIM          | 674.12               | 23.26            | 15,680                   | 0.05%              | 4.13%             | 0.00%                   | 3.63%                    | 0.00%                      |
| Oracle Corp<br>Kroger Co/The  | ORCL<br>KR   | 2,755.86<br>721.79   | 141.29<br>53.21  | 389,375<br>38,406        | 1.15%<br>0.11%     | 1.13%<br>2.41%    | 0.01%<br>0.00%          | 15.06%<br>3.11%          | 0.17%<br>0.00%             |
| Lennar Corp   | LEN          | 241.70               | 182.06           | 44,004                   | 0.13%              | 1.10%             | 0.00%                   | 4.30%                    | 0.01%                      |
| Eli Lilly & Co<br>Bath & Body Works Inc                                 | LLY<br>BBWI  | 950.43<br>219.11     | 960.02<br>30.76  | 912,428<br>6,740         | 0.02%              | 0.54%<br>2.60%    | 0.00%                   | 33.00%<br>14.74%         | 0.00%                      |
| Charter Communications Inc  | CHTR         | 142.74               | 347.54           | 49,608                   | 0.0270             | 2.0070            | 0.0070                  | 7.10%                    | 0.0070                     |
| Loews Corp  | L            | 219.52               | 81.94            | 17,987                   |                    | 0.31%             |                         | 0.400/                   |                            |
| Lowe's Cos Inc<br>Hubbell Inc   | LOW<br>HUBB  | 567.29<br>53.68      | 248.50<br>399.92 | 140,973<br>21,468        |                    | 1.85%<br>1.22%    |                         | -0.19%                   |                            |
| IDEX Corp   | IEX          | 75.70                | 206.48           | 15,631                   |                    | 1.34%             |                         |                          |                            |
| Marsh & McLennan Cos Inc Masco Corp                                     | MMC<br>MAS   | 491.76<br>218.25     | 227.51<br>79.56  | 111,879<br>17,364        | 0.33%<br>0.05%     | 1.43%<br>1.46%    | 0.00%<br>0.00%          | 9.10%<br>7.76%           | 0.03%<br>0.00%             |
| S&P Global Inc  | SPGI         | 320.20               | 513.24           | 164,339                  | 0.49%              | 0.71%             | 0.00%                   | 14.53%                   | 0.00%                      |
| Medtronic PLC   | MDT          | 1,282.49             | 88.58<br>12.08   | 113,603                  | 0.34%              | 3.16%             | 0.01%                   | 5.66%                    | 0.02%                      |
| Viatris Inc CVS Health Corp   | VTRS<br>CVS  | 1,193.52<br>1,257.98 | 12.08<br>57.24   | 14,418<br>72,007         | 0.21%              | 3.97%<br>4.65%    | 0.01%                   | -3.41%<br>1.82%          | 0.00%                      |
| DuPont de Nemours Inc   | DD           | 417.50               | 84.25            | 35,174                   | 0.10%              | 1.80%             | 0.00%                   | 2.50%                    | 0.00%                      |
| Micron Technology Inc Motorola Solutions Inc                            | MU<br>MSI    | 1,108.84<br>166.84   | 96.24<br>442.04  | 106,715<br>73,750        | 0.22%              | 0.48%<br>0.89%    | 0.00%                   | 31.94%<br>9.36%          | 0.02%                      |
| Cboe Global Markets Inc   | CBOE         | 100.84               | 205.40           | 21,492                   | 0.22%              | 1.23%             | 0.00%                   | 9.36%<br>13.78%          | 0.02%                      |
| Newmont Corp  | NEM          | 1,152.49             | 53.39            | 61,531                   |                    | 1.87%             |                         | 48.45%                   |                            |
| NIKE Inc<br>NiSource Inc  | NKE<br>NI    | 1,201.46<br>448.51   | 82.95<br>33.06   | 99,661<br>14,828         | 0.29%<br>0.04%     | 1.78%<br>3.21%    | 0.01%<br>0.00%          | 4.46%<br>7.00%           | 0.01%<br>0.00%             |
| Norfolk Southern Corp   | NSC          | 226.10               | 256.16           | 57,917                   | 0.04%              | 2.11%             | 0.00%                   | 9.68%                    | 0.02%                      |
| Principal Financial Group Inc   | PFG          | 231.58               | 81.42            | 18,856                   | 0.06%              | 3.54%             | 0.00%                   | 13.00%                   | 0.01%                      |
| Eversource Energy<br>Northrop Grumman Corp                              | ES<br>NOC    | 357.39<br>146.25     | 67.53<br>521.15  | 24,134<br>76,216         | 0.07%<br>0.23%     | 4.24%<br>1.58%    | 0.00%<br>0.00%          | 5.46%<br>8.68%           | 0.00%<br>0.02%             |
| Wells Fargo & Co  | WFC          | 3,403.77             | 58.47            | 199,018                  | 0.59%              | 2.74%             | 0.02%                   | 7.95%                    | 0.05%                      |
| Nucor Corp Occidental Petroleum Corp                                    | NUE<br>OXY   | 237.34<br>916.20     | 151.91<br>56.98  | 36,054<br>52,205         |                    | 1.42%<br>1.54%    |                         | -1.48%<br>24.00%         |                            |
| Occidental Petroleum Corp Omnicom Group Inc                             | OMC          | 916.20<br>195.65     | 56.98<br>100.43  | 52,205<br>19,649         | 0.06%              | 1.54%<br>2.79%    | 0.00%                   | 5.36%                    | 0.00%                      |
| ONEOK Inc   | OKE          | 584.07               | 92.36            | 53,945                   |                    | 4.29%             |                         |                          |                            |
| Raymond James Financial Inc PG&E Corp                                   | RJF<br>PCG   | 205.94<br>2,137.46   | 119.57<br>19.70  | 24,625<br>42,108         | 0.07%<br>0.12%     | 1.51%<br>0.20%    | 0.00%<br>0.00%          | 15.40%<br>9.95%          | 0.01%<br>0.01%             |
| Parker-Hannifin Corp  | PH           | 128.60               | 600.20           | 77,183                   | 0.23%              | 1.09%             | 0.00%                   | 13.44%                   | 0.03%                      |
| Rollins Inc   | ROL          | 484.31               | 50.18            | 24,303                   | 0.07%              | 1.20%             | 0.00%                   | 13.38%                   | 0.01%                      |
|   |              |                      |                  |                          |                    |                   |                         |                          |                            |

Estimated Weighted Average Dividend Yield [1]

1.66%

12.05%

**FERC Method** 

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3] Total [4]

No Weighting 100.00% 10.31% 10.31%

S&P 500 Estimated Required Market Return [5]

|   |              | [6]                 | [7]              | [8]                      | [9]             | [10]                           | [11]                          | [12]                                  | [13]                                 |
|---|--------------|---------------------|------------------|--------------------------|-----------------|--------------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|   |              |                     |                  |                          |                 |                                | Capitalization                |                                       | Capitalization                       |
| Name  | Ticker       | Shares<br>Outst'g   | Price            | Market<br>Capitalization | Weight in Index | Estimated<br>Dividend<br>Yield | Weighted<br>Dividend<br>Yield | Bloomberg<br>Long-Term<br>Growth Est. | Weighted<br>Long-Term<br>Growth Est. |
| PPL Corp  | PPL          | 737.77              | 31.91            | 23,542                   | 0.07%           | 3.23%                          | 0.00%                         | 7.01%                                 | 0.00%                                |
| ConocoPhillips  | COP          | 1,161.25            | 113.79           | 132,139                  | 0.39%           | 2.74%                          | 0.01%                         | 13.00%                                | 0.05%                                |
| PulteGroup Inc  | PHM          | 207.52              | 131.65           | 27,321                   | 0.08%           | 0.61%                          | 0.00%                         | 8.99%                                 | 0.01%                                |
| Pinnacle West Capital Corp                              | PNW          | 113.61              | 87.52            | 9,943                    | 0.03%           | 4.02%                          | 0.00%                         | 8.22%                                 | 0.00%                                |
| PNC Financial Services Group Inc/The PPG Industries Inc | PNC<br>PPG   | 397.50<br>233.30    | 185.09<br>129.73 | 73,573<br>30,266         | 0.22%<br>0.09%  | 3.46%<br>2.10%                 | 0.01%<br>0.00%                | 18.04%<br>8.33%                       | 0.04%<br>0.01%                       |
| Progressive Corp/The                                    | PGR          | 585.67              | 252.20           | 147,705                  | 0.0976          | 0.16%                          | 0.00%                         | 36.31%                                | 0.0176                               |
| Veralto Corp  | VLTO         | 247.11              | 112.43           | 27,782                   |                 | 0.32%                          |                               |                                       |                                      |
| Public Service Enterprise Group Inc                     | PEG          | 498.16              | 80.75            | 40,227                   | 0.12%           | 2.97%                          | 0.00%                         | 7.47%                                 | 0.01%                                |
| Cooper Cos Inc/The                                      | COO          | 199.16              | 105.73           | 21,057                   | 0.400/          | 2 500/                         | 0.00%                         | 12.43%                                | 0.019/                               |
| Edison International Schlumberger NV                    | EIX<br>SLB   | 383.93<br>1,419.84  | 87.03<br>43.99   | 33,413<br>62,459         | 0.10%<br>0.18%  | 3.58%<br>2.50%                 | 0.00%<br>0.00%                | 6.00%<br>12.22%                       | 0.01%<br>0.02%                       |
| Charles Schwab Corp/The                                 | SCHW         | 1,778.45            | 65.10            | 115,777                  | 0.34%           | 1.54%                          | 0.01%                         | 12.07%                                | 0.04%                                |
| Sherwin-Williams Co/The                                 | SHW          | 252.26              | 369.37           | 93,177                   | 0.28%           | 0.77%                          | 0.00%                         | 9.88%                                 | 0.03%                                |
| West Pharmaceutical Services Inc                        | WST          | 72.54               | 313.63           | 22,751                   | 0.07%           | 0.26%                          | 0.00%                         | 2.89%                                 | 0.00%                                |
| J M Smucker Co/The<br>Snap-on Inc                       | SJM<br>SNA   | 106.41<br>52.68     | 114.68<br>283.74 | 12,203<br>14,948         | 0.04%<br>0.04%  | 3.77%<br>2.62%                 | 0.00%<br>0.00%                | 6.07%<br>3.83%                        | 0.00%<br>0.00%                       |
| AMETEK Inc  | AME          | 231.54              | 171.05           | 39,604                   | 0.04%           | 0.65%                          | 0.00%                         | 7.02%                                 | 0.01%                                |
| Uber Technologies Inc                                   | UBER         | 2,100.94            | 73.13            | 153,642                  |                 | 0.007.5                        | 0.007.0                       | 60.59%                                |                                      |
| Southern Co/The   | so           | 1,094.63            | 86.40            | 94,576                   | 0.28%           | 3.33%                          | 0.01%                         | 7.23%                                 | 0.02%                                |
| Truist Financial Corp                                   | TFC          | 1,339.14            | 44.46            | 59,538                   | 0.18%           | 4.68%                          | 0.01%                         | 10.91%                                | 0.02%                                |
| Southwest Airlines Co                                   | LUV<br>WRB   | 599.16<br>380.55    | 28.92<br>59.70   | 17,328                   | 0.07%           | 2.49%<br>0.54%                 | 0.00%                         | 13.27%                                | 0.01%                                |
| W R Berkley Corp<br>Stanley Black & Decker Inc          | SWK          | 153.96              | 101.54           | 22,719<br>15,633         | 0.07 70         | 3.23%                          | 0.00%                         | 13.27 %                               | 0.0176                               |
| Public Storage  | PSA          | 175.83              | 343.72           | 60,436                   | 0.18%           | 3.49%                          | 0.01%                         | 1.23%                                 | 0.00%                                |
| Arista Networks Inc                                     | ANET         | 314.15              | 353.38           | 111,015                  |                 |                                |                               | 18.60%                                |                                      |
| Sysco Corp  | SYY          | 491.52              | 77.97            | 38,324                   | 0.11%           | 2.62%                          | 0.00%                         | 7.00%                                 | 0.01%                                |
| Corteva Inc Texas Instruments Inc                       | CTVA<br>TXN  | 687.80<br>913.05    | 57.13<br>214.34  | 39,294<br>195,702        | 0.12%           | 1.19%<br>2.43%                 | 0.00%                         | 9.85%<br>-2.86%                       | 0.01%                                |
| Textron Inc   | TXT          | 187.36              | 91.20            | 17,088                   | 0.05%           | 0.09%                          | 0.00%                         | -2.86%<br>10.05%                      | 0.01%                                |
| Thermo Fisher Scientific Inc                            | TMO          | 382.00              | 615.07           | 234,954                  | 0.70%           | 0.09 %                         | 0.00%                         | 8.70%                                 | 0.06%                                |
| TJX Cos Inc/The   | TJX          | 1,127.87            | 117.27           | 132,266                  | 0.39%           | 1.28%                          | 0.01%                         | 8.20%                                 | 0.03%                                |
| Globe Life Inc  | GL           | 89.82               | 105.05           | 9,436                    | 0.03%           | 0.91%                          | 0.00%                         | 6.00%                                 | 0.00%                                |
| Johnson Controls International plc                      | JCI          | 668.01              | 72.85            | 48,665                   | 0.14%           | 2.03%                          | 0.00%                         | 8.72%                                 | 0.01%                                |
| Ulta Beauty Inc<br>Union Pacific Corp                   | ULTA<br>UNP  | 47.12<br>609.20     | 352.84<br>256.09 | 16,624<br>156,010        | 0.46%           | 2.09%                          | 0.01%                         | 1.64%<br>11.33%                       | 0.05%                                |
| Keysight Technologies Inc                               | KEYS         | 173.54              | 154.12           | 26,746                   | 0.4076          | 2.0970                         | 0.0176                        | -1.19%                                | 0.0376                               |
| UnitedHealth Group Inc                                  | UNH          | 923.42              | 590.20           | 545,001                  | 1.61%           | 1.42%                          | 0.02%                         | 10.44%                                | 0.17%                                |
| Blackstone Inc  | BX           | 720.08              | 142.36           | 102,510                  |                 | 2.30%                          |                               | 24.48%                                |                                      |
| Marathon Oil Corp                                       | MRO          | 559.38              | 28.65            | 16,026                   |                 | 1.54%                          |                               | -5.00%                                |                                      |
| Bio-Rad Laboratories Inc                                | BIO          | 22.80               | 337.32           | 7,689                    | 0.000/          | 2.000/                         | 0.000/                        | 12.00%                                | 0.019/                               |
| Ventas Inc<br>Labcorp Holdings Inc                      | VTR<br>LH    | 413.15<br>83.96     | 62.11<br>229.89  | 25,661<br>19,302         | 0.08%<br>0.06%  | 2.90%<br>1.25%                 | 0.00%<br>0.00%                | 8.22%<br>8.45%                        | 0.01%<br>0.00%                       |
| Vulcan Materials Co                                     | VMC          | 132.06              | 245.21           | 32,382                   | 0.0070          | 0.75%                          | 0.0070                        | 0.1070                                | 0.0070                               |
| Weyerhaeuser Co   | WY           | 727.32              | 30.49            | 22,176                   |                 | 2.62%                          |                               | -13.66%                               |                                      |
| Williams Cos Inc/The                                    | WMB          | 1,218.93            | 45.77            | 55,790                   | 0.17%           | 4.15%                          | 0.01%                         | 4.28%                                 | 0.01%                                |
| Constellation Energy Corp                               | CEG          | 315.12              | 196.70           | 61,984                   | 0.000/          | 0.72%                          | 0.000/                        | 20.39%                                | 0.040/                               |
| WEC Energy Group Inc Adobe Inc                          | WEC<br>ADBE  | 316.08<br>443.40    | 93.03<br>574.41  | 29,405<br>254,693        | 0.09%           | 3.59%                          | 0.00%                         | 7.82%<br>16.27%                       | 0.01%                                |
| Vistra Corp   | VST          | 343.56              | 85.43            | 29,350                   |                 | 1.03%                          |                               | 10.27 70                              |                                      |
| AES Corp/The  | AES          | 710.92              | 17.13            | 12,178                   |                 | 4.03%                          |                               |                                       |                                      |
| Expeditors International of Washington Inc              | EXPD         | 141.13              | 123.41           | 17,417                   | 0.05%           | 1.18%                          | 0.00%                         | 4.39%                                 | 0.00%                                |
| Amgen Inc   | AMGN<br>AAPL | 537.33              | 333.83<br>229.00 | 179,377                  | 0.53%           | 2.70%<br>0.44%                 | 0.01%<br>0.04%                | 3.52%<br>8.04%                        | 0.02%<br>0.83%                       |
| Apple Inc Autodesk Inc                                  | ADSK         | 15,204.14<br>215.51 | 258.40           | 3,481,747<br>55,688      | 10.30%          | 0.44%                          | 0.04%                         | 10.23%                                | 0.63%                                |
| Cintas Corp   | CTAS         | 100.77              | 805.12           | 81,131                   | 0.24%           | 0.78%                          | 0.00%                         | 10.59%                                | 0.03%                                |
| Comcast Corp  | CMCSA        | 3,863.06            | 39.57            | 152,861                  | 0.45%           | 3.13%                          | 0.01%                         | 7.32%                                 | 0.03%                                |
| Molson Coors Beverage Co                                | TAP          | 192.59              | 53.97            | 10,394                   | 0.03%           | 3.26%                          | 0.00%                         | 5.29%                                 | 0.00%                                |
| KLA Corp Marriott International Inc/MD                  | KLAC<br>MAR  | 134.43<br>281.52    | 819.43<br>234.69 | 110,152<br>66,071        | 0.33%<br>0.20%  | 0.71%<br>1.07%                 | 0.00%<br>0.00%                | 10.00%<br>4.25%                       | 0.03%<br>0.01%                       |
| Fisery Inc  | FI           | 575.73              | 174.60           | 100,522                  | 0.2076          | 1.07 /0                        | 0.00 %                        | 11.52%                                | 0.0176                               |
| McCormick & Co Inc/MD                                   | MKC          | 252.02              | 80.03            | 20,169                   | 0.06%           | 2.10%                          | 0.00%                         | 5.83%                                 | 0.00%                                |
| PACCAR Inc  | PCAR         | 524.22              | 96.18            | 50,420                   | 0.15%           | 1.25%                          | 0.00%                         | 0.48%                                 | 0.00%                                |
| Costco Wholesale Corp                                   | COST         | 443.34              | 892.38           | 395,623                  | 1.17%           | 0.52%                          | 0.01%                         | 10.36%                                | 0.12%                                |
| Stryker Corp Tyson Foods Inc                            | SYK<br>TSN   | 381.08<br>285.82    | 360.42<br>64.31  | 137,347<br>18,381        | 0.41%           | 0.89%<br>3.05%                 | 0.00%                         | 8.60%                                 | 0.03%                                |
| Lamb Weston Holdings Inc                                | LW           | 143.67              | 61.92            | 8,896                    | 0.03%           | 2.33%                          | 0.00%                         | 2.16%                                 | 0.00%                                |
| Applied Materials Inc                                   | AMAT         | 824.40              | 197.26           | 162,622                  | 0.48%           | 0.81%                          | 0.00%                         | 9.28%                                 | 0.04%                                |
| American Airlines Group Inc                             | AAL          | 653.54              | 10.62            | 6,941                    | 0.055           | 4 =00:                         | 0.000                         | -13.42%                               | 2.2.2                                |
| Cardinal Health Inc                                     | CAH          | 243.85<br>156.24    | 112.72<br>137.03 | 27,486<br>21,410         | 0.08%           | 1.79%<br>2.36%                 | 0.00%                         | 9.84%<br>7.83%                        | 0.01%                                |
| Cincinnati Financial Corp Paramount Global              | CINF<br>PARA | 156.24<br>626.01    | 137.03<br>10.47  | 21,410<br>6,554          | 0.06%           | 2.36%<br>1.91%                 | 0.00%                         | 7.83%<br>49.00%                       | 0.00%                                |
| DR Horton Inc   | DHI          | 326.04              | 188.76           | 61,543                   | 0.18%           | 0.64%                          | 0.00%                         | 8.27%                                 | 0.02%                                |
| Electronic Arts Inc                                     | EA           | 264.20              | 151.82           | 40,111                   | 0.12%           | 0.50%                          | 0.00%                         | 12.85%                                | 0.02%                                |
| Fair Isaac Corp   | FICO         | 24.52               | 1,730.27         | 42,424                   |                 |                                |                               | 23.00%                                |                                      |
| Fastenal Co   | FAST<br>MTB  | 572.65<br>167.00    | 68.28<br>170.76  | 39,100<br>28,517         | 0.000/          | 2.28%                          | 0.000/                        | 2 070/                                | 0.000/                               |
| M&T Bank Corp  Xcel Energy Inc                          | XEL          | 167.00<br>557.50    | 170.76<br>61.23  | 28,517<br>34,136         | 0.08%<br>0.10%  | 3.16%<br>3.58%                 | 0.00%<br>0.00%                | 3.87%<br>7.10%                        | 0.00%<br>0.01%                       |
| Fifth Third Bancorp                                     | FITB         | 676.80              | 42.69            | 28,892                   |                 | 3.28%                          | 2.5070                        | 25.00%                                |                                      |
| Gilead Sciences Inc                                     | GILD         | 1,244.99            | 79.00            | 98,354                   | 0.29%           | 3.90%                          | 0.01%                         | 15.38%                                | 0.04%                                |
| Hasbro Inc  | HAS          | 139.41              | 68.16            | 9,502                    | 0.0001          | 4.11%                          | 0.0001                        | 33.11%                                | 0.0001                               |
| Huntington Bancshares Inc/OH Welltower Inc              | HBAN<br>WELL | 1,452.43<br>609.15  | 14.97<br>120.68  | 21,743<br>73,512         | 0.06%<br>0.22%  | 4.14%<br>2.22%                 | 0.00%<br>0.00%                | 3.32%<br>15.65%                       | 0.00%<br>0.03%                       |
| Biogen Inc  | WELL         | 609.15<br>145.66    | 120.68<br>204.76 | 73,512<br>29,826         | U.ZZ70          | Z.ZZ70                         | 0.0070                        | 15.65%<br>6.10%                       | 0.0370                               |
| Northern Trust Corp                                     | NTRS         | 201.64              | 91.21            | 18,391                   | 0.05%           | 3.29%                          | 0.00%                         | 10.11%                                | 0.01%                                |
| Packaging Corp of America                               | PKG          | 89.81               | 209.54           | 18,819                   | 0.06%           | 2.39%                          | 0.00%                         | 5.83%                                 | 0.00%                                |
| Paychex Inc   | PAYX         | 359.74              | 131.20           | 47,198                   | 0.14%           | 2.99%                          | 0.00%                         | 7.54%                                 | 0.01%                                |
| QUALCOMM Inc  | QCOM<br>POST | 1,114.00            | 175.30<br>150.61 | 195,284<br>50,240        | 0.58%           | 1.94%                          | 0.01%                         | 10.64%                                | 0.06%                                |
| Ross Stores Inc IDEXX Laboratories Inc                  | ROST<br>IDXX | 333.58<br>82.31     | 150.61<br>481.33 | 50,240<br>39,616         | 0.15%           | 0.98%                          | 0.00%                         | 8.85%<br>11.25%                       | 0.01%                                |
| Starbucks Corp  | SBUX         | 1,133.20            | 94.57            | 107,167                  | 0.32%           | 2.41%                          | 0.01%                         | 9.67%                                 | 0.03%                                |
| KeyCorp   | KEY          | 928.12              | 17.06            | 15,834                   | 0.05%           | 4.81%                          | 0.00%                         | 20.00%                                | 0.01%                                |
| Fox Corp  | FOXA         | 224.65              | 41.37            | 9,294                    | 0.03%           | 1.31%                          | 0.00%                         | 5.35%                                 | 0.00%                                |
| Fay Camp  | FOX          | 235.58              | 38.43            | 9,053                    | 0.03%           | 1.41%                          | 0.00%                         | 5.35%                                 | 0.00%                                |
| Fox Corp<br>State Street Corp                           | STT          | 298.62              | 87.10            | 26,010                   | 0.08%           | 3.49%                          | 0.00%                         | 8.82%                                 | 0.01%                                |

Estimated Weighted Average Dividend Yield [1]

1.66%

**FERC Method** 

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3] Total [4]

No Weighting 100.00% 10.31% 10.31%

S&P 500 Estimated Required Market Return [5]

12.05%

|   |              | [6]                 | [7]                | [8]                      | [9]             | [10]                           | [11]                          | [12]                                  | [13]                                 |
|---|--------------|---------------------|--------------------|--------------------------|-----------------|--------------------------------|-------------------------------|---------------------------------------|--------------------------------------|
|   |              |                     |                    |                          |                 |                                | Capitalization                | 5                                     | Capitalization                       |
| Name  | Ticker       | Shares<br>Outst'g   | Price              | Market<br>Capitalization | Weight in Index | Estimated<br>Dividend<br>Yield | Weighted<br>Dividend<br>Yield | Bloomberg<br>Long-Term<br>Growth Est. | Weighted<br>Long-Term<br>Growth Est. |
| Nonvegion Cruipe Line Holdings Ltd                                    | NCLH         | 439.69              | 17.89              | 7 966                    |                 |                                |                               | 50.58%                                |                                      |
| Norwegian Cruise Line Holdings Ltd US Bancorp                         | USB          | 1,560.51            | 47.23              | 7,866<br>73,703          | 0.22%           | 4.15%                          | 0.01%                         | 3.39%                                 | 0.01%                                |
| A O Smith Corp  | AOS          | 119.96              | 83.72              | 10,043                   |                 | 1.53%                          |                               |                                       |                                      |
| Gen Digital Inc   | GEN          | 615.53              | 26.46              | 16,287                   | 0.05%           | 1.89%                          | 0.00%                         | 10.49%                                | 0.01%                                |
| T Rowe Price Group Inc Waste Management Inc                           | TROW<br>WM   | 222.60<br>401.32    | 106.04<br>212.04   | 23,604<br>85,095         | 0.07%<br>0.25%  | 4.68%<br>1.41%                 | 0.00%<br>0.00%                | 7.30%<br>13.29%                       | 0.01%<br>0.03%                       |
| Constellation Brands Inc  | STZ          | 182.19              | 240.71             | 43,855                   | 0.23%           | 1.68%                          | 0.00%                         | 11.37%                                | 0.03%                                |
| Invesco Ltd   | IVZ          | 450.03              | 17.09              | 7,691                    | 0.02%           | 4.80%                          | 0.00%                         | 9.27%                                 | 0.00%                                |
| Intuit Inc  | INTU         | 279.55              | 630.26             | 176,187                  | 0.52%           | 0.66%                          | 0.00%                         | 18.79%                                | 0.10%                                |
| Morgan Stanley  | MS<br>MCHP   | 1,620.89            | 103.61             | 167,940                  | 0.50%           | 3.57%                          | 0.02%                         | 9.60%                                 | 0.05%                                |
| Microchip Technology Inc<br>Crowdstrike Holdings Inc                  | CRWD         | 536.51<br>232.72    | 82.16<br>277.28    | 44,079<br>64,528         |                 | 2.21%                          |                               | -10.99%<br>35.70%                     |                                      |
| Chubb Ltd   | СВ           | 403.93              | 284.18             | 114,790                  | 0.34%           | 1.28%                          | 0.00%                         | 2.20%                                 | 0.01%                                |
| Hologic Inc   | HOLX         | 232.27              | 81.24              | 18,870                   |                 |                                |                               | 8.86%                                 |                                      |
| Citizens Financial Group Inc  | CFG          | 448.30              | 43.05              | 19,299                   | 0.040/          | 3.90%                          | 0.000/                        | 7.400/                                | 0.000/                               |
| Jabil Inc O'Reilly Automotive Inc                                     | JBL<br>ORLY  | 113.45<br>58.01     | 109.28<br>1,129.97 | 12,397<br>65,545         | 0.04%           | 0.29%                          | 0.00%                         | 7.13%<br>10.21%                       | 0.00%                                |
| Allstate Corp/The   | ALL          | 264.04              | 188.94             | 49,888                   |                 | 1.95%                          |                               | 168.00%                               |                                      |
| Equity Residential  | EQR          | 379.14              | 74.88              | 28,390                   | 0.08%           | 3.61%                          | 0.00%                         | 4.23%                                 | 0.00%                                |
| BorgWarner Inc  | BWA          | 227.77              | 33.96              | 7,735                    | 0.02%           | 1.30%                          | 0.00%                         | 4.40%                                 | 0.00%                                |
| Keurig Dr Pepper Inc  | KDP          | 1,356.09            | 36.61              | 49,646                   | 0.15%           | 2.35%                          | 0.00%                         | 6.90%                                 | 0.01%                                |
| Host Hotels & Resorts Inc Incyte Corp                                 | HST<br>INCY  | 702.44<br>192.60    | 17.70<br>65.66     | 12,433<br>12,646         |                 | 4.52%                          |                               | 33.16%                                |                                      |
| Simon Property Group Inc  | SPG          | 326.04              | 167.35             | 54,562                   | 0.16%           | 4.90%                          | 0.01%                         | 1.42%                                 | 0.00%                                |
| Eastman Chemical Co   | EMN          | 116.86              | 102.37             | 11,963                   | 0.04%           | 3.16%                          | 0.00%                         | 6.10%                                 | 0.00%                                |
| AvalonBay Communities Inc   | AVB          | 142.22              | 225.73             | 32,103                   | 0.09%           | 3.01%                          | 0.00%                         | 4.93%                                 | 0.00%                                |
| Prudential Financial Inc  | PRU          | 357.00              | 121.16             | 43,254                   | 0.13%           | 4.29%<br>5.07%                 | 0.01%                         | 9.72%                                 | 0.01%                                |
| United Parcel Service Inc<br>Walgreens Boots Alliance Inc             | UPS<br>WBA   | 732.51<br>863.28    | 128.55<br>9.25     | 94,164<br>7,985          | 0.28%           | 5.07%<br>10.81%                | 0.01%                         | 0.60%<br>-14.70%                      | 0.00%                                |
| STERIS PLC  | STE          | 98.62               | 241.10             | 23,777                   |                 | 0.95%                          |                               | -14.7070                              |                                      |
| McKesson Corp   | MCK          | 129.68              | 561.08             | 72,759                   | 0.22%           | 0.51%                          | 0.00%                         | 11.18%                                | 0.02%                                |
| Lockheed Martin Corp  | LMT          | 238.36              | 564.95             | 134,660                  | 0.40%           | 2.23%                          | 0.01%                         | 2.11%                                 | 0.01%                                |
| Cencora Inc   | COR          | 196.01              | 239.57             | 46,958                   | 0.14%           | 0.85%                          | 0.00%                         | 10.67%                                | 0.01%                                |
| Campbell Soup Co Capital One Financial Corp                           | CPB<br>COF   | 298.55<br>381.86    | 49.72<br>146.93    | 14,844<br>56,106         | 0.04%<br>0.17%  | 2.98%<br>1.63%                 | 0.00%<br>0.00%                | 8.36%<br>12.32%                       | 0.00%<br>0.02%                       |
| Waters Corp   | WAT          | 59.36               | 346.35             | 20,560                   | 0.17 70         | 1.03%                          | 0.00%                         | 7.80%                                 | 0.02%                                |
| Nordson Corp  | NDSN         | 57.18               | 256.56             | 14,671                   |                 | 1.22%                          |                               | 7.0070                                |                                      |
| Dollar Tree Inc   | DLTR         | 214.94              | 84.49              | 18,161                   |                 |                                |                               | 12.39%                                |                                      |
| Darden Restaurants Inc  | DRI          | 118.46              | 158.15             | 18,735                   | 0.06%           | 3.54%                          | 0.00%                         | 10.59%                                | 0.01%                                |
| Evergy Inc  | EVRG         | 229.75              | 59.14              | 13,587                   | 0.04%           | 4.35%                          | 0.00%                         | 4.00%                                 | 0.00%                                |
| Match Group Inc Domino's Pizza Inc                                    | MTCH<br>DPZ  | 257.90<br>34.97     | 37.21<br>414.21    | 9,596<br>14,486          | 0.04%           | 1.46%                          | 0.00%                         | 36.15%<br>12.56%                      | 0.01%                                |
| NVR Inc   | NVR          | 3.08                | 9,172.46           | 28,233                   | 0.0170          | 1.1070                         | 0.0070                        | 7.60%                                 | 0.0170                               |
| NetApp Inc  | NTAP         | 204.78              | 120.72             | 24,721                   | 0.07%           | 1.72%                          | 0.00%                         | 5.34%                                 | 0.00%                                |
| Old Dominion Freight Line Inc   | ODFL         | 214.30              | 192.80             | 41,316                   | 0.12%           | 0.54%                          | 0.00%                         | 3.02%                                 | 0.00%                                |
| DaVita Inc Hartford Financial Services Group Inc/The                  | DVA<br>HIG   | 83.90<br>293.01     | 150.92<br>115.63   | 12,662                   | 0.10%           | 1.63%                          | 0.00%                         | 20.00%<br>12.37%                      | 0.01%                                |
| Iron Mountain Inc   | IRM          | 293.01              | 113.03             | 33,881<br>33,223         | 0.1076          | 2.53%                          | 0.00%                         | 12.37 70                              | 0.0176                               |
| Estee Lauder Cos Inc/The  | EL           | 233.18              | 91.66              | 21,373                   | 0.06%           | 2.88%                          | 0.00%                         | 14.58%                                | 0.01%                                |
| Cadence Design Systems Inc  | CDNS         | 273.82              | 268.93             | 73,638                   |                 |                                |                               | 16.20%                                |                                      |
| Tyler Technologies Inc  | TYL          | 42.67               | 587.87             | 25,086                   | 0.0404          | 0.040/                         | /                             | 4= =00/                               |                                      |
| Universal Health Services Inc<br>Skyworks Solutions Inc               | UHS<br>SWKS  | 59.46<br>159.72     | 237.77<br>109.59   | 14,138<br>17,503         | 0.04%           | 0.34%<br>2.55%                 | 0.00%                         | 15.50%<br>-2.57%                      | 0.01%                                |
| Quest Diagnostics Inc   | DGX          | 111.32              | 156.97             | 17,473                   | 0.05%           | 1.91%                          | 0.00%                         | 6.05%                                 | 0.00%                                |
| Rockwell Automation Inc   | ROK          | 113.47              | 272.03             | 30,866                   | 0.09%           | 1.84%                          | 0.00%                         | 1.73%                                 | 0.00%                                |
| Kraft Heinz Co/The  | KHC          | 1,209.08            | 35.43              | 42,838                   | 0.13%           | 4.52%                          | 0.01%                         | 2.51%                                 | 0.00%                                |
| American Tower Corp   | AMT          | 467.08              | 224.06             | 104,654                  | 0.31%           | 2.89%                          | 0.01%                         | 12.31%                                | 0.04%                                |
| Regeneron Pharmaceuticals Inc Amazon.com Inc                          | REGN<br>AMZN | 108.42<br>10,495.57 | 1,184.69<br>178.50 | 128,441<br>1,873,459     |                 |                                |                               | 52.50%<br>28.99%                      |                                      |
| Jack Henry & Associates Inc   | JKHY         | 72.91               | 173.03             | 12,615                   | 0.04%           | 1.27%                          | 0.00%                         | 9.73%                                 | 0.00%                                |
| Ralph Lauren Corp   | RL           | 40.06               | 171.26             | 6,860                    | 0.02%           | 1.93%                          | 0.00%                         | 11.05%                                | 0.00%                                |
| BXP Inc   | BXP          | 157.93              | 75.22              | 11,880                   | 0.04%           | 5.21%                          | 0.00%                         | 0.40%                                 | 0.00%                                |
| Amphenol Corp Howmet Aerospace Inc                                    | APH<br>HWM   | 1,204.29<br>408.15  | 67.45<br>96.66     | 81,229<br>39,451         | 0.24%           | 0.98%<br>0.33%                 | 0.00%                         | 16.86%<br>22.11%                      | 0.04%                                |
| Valero Energy Corp  | VLO          | 320.38              | 146.73             | 47,009                   |                 | 2.92%                          |                               | -24.00%                               |                                      |
| Synopsys Inc  | SNPS         | 153.61              | 519.58             | 79,815                   |                 |                                |                               | 16.33%                                |                                      |
| Etsy Inc  | ETSY         | 114.75              | 55.09              | 6,322                    |                 |                                |                               | 4.06%                                 |                                      |
| CH Robinson Worldwide Inc   | CHRW         | 117.28              | 103.51             | 12,140                   | 0.04%           | 2.40%                          | 0.00%                         | 17.48%                                | 0.01%                                |
| Accenture PLC TransDigm Group Inc                                     | ACN<br>TDG   | 626.38<br>56.11     | 341.95<br>1,373.21 | 214,192<br>77,052        | 0.63%           | 1.51%                          | 0.01%                         | 5.80%<br>19.57%                       | 0.04%                                |
| Yum! Brands Inc   | YUM          | 281.17              | 1,373.21           | 37,935                   | 0.11%           | 1.99%                          | 0.00%                         | 19.57%                                | 0.01%                                |
| Prologis Inc  | PLD          | 925.91              | 127.82             | 118,350                  | 0.35%           | 3.00%                          | 0.01%                         | 5.36%                                 | 0.02%                                |
| FirstEnergy Corp  | FE           | 575.92              | 43.92              | 25,294                   | 0.07%           | 3.87%                          | 0.00%                         | 7.02%                                 | 0.01%                                |
| VeriSign Inc  | VRSN         | 97.60               | 183.90             | 17,949                   |                 | 0.400                          |                               |                                       |                                      |
| Quanta Services Inc   | PWR<br>HSIC  | 147.33<br>126.71    | 275.13<br>70.55    | 40,535<br>8,939          |                 | 0.13%                          |                               | 9.01%                                 |                                      |
| Henry Schein Inc<br>Ameren Corp                                       | AEE          | 266.51              | 82.51              | 21,990                   | 0.07%           | 3.25%                          | 0.00%                         | 6.16%                                 | 0.00%                                |
| ANSYS Inc   | ANSS         | 87.39               | 321.42             | 28,088                   | -               |                                |                               |                                       |                                      |
| FactSet Research Systems Inc  | FDS          | 38.04               | 422.84             | 16,085                   | 0.05%           | 0.98%                          | 0.00%                         | 9.67%                                 | 0.00%                                |
| NVIDIA Corp   | NVDA         | 24,530.00           | 119.37             | 2,928,146                | 0.4407          | 0.03%                          | 0.0007                        | 44.35%                                | 0.0404                               |
| Cognizant Technology Solutions Corp Intuitive Surgical Inc            | CTSH<br>ISRG | 495.66<br>355.35    | 77.77<br>492.63    | 38,547<br>175,058        | 0.11%           | 1.54%                          | 0.00%                         | 6.20%<br>17.51%                       | 0.01%                                |
| Take-Two Interactive Software Inc                                     | TTWO         | 175.28              | 492.63<br>161.71   | 28,345                   |                 |                                |                               | 60.49%                                |                                      |
| Republic Services Inc   | RSG          | 314.07              | 208.21             | 65,392                   | 0.19%           | 1.11%                          | 0.00%                         | 10.33%                                | 0.02%                                |
| eBay Inc  | EBAY         | 489.00              | 59.10              | 28,900                   | 0.09%           | 1.83%                          | 0.00%                         | 10.12%                                | 0.01%                                |
| Goldman Sachs Group Inc/The   | GS           | 315.80              | 510.25             | 161,137                  | 0.48%           | 2.35%                          | 0.01%                         | 14.20%                                | 0.07%                                |
| SBA Communications Corp   | SBAC<br>SRE  | 107.47<br>633.15    | 226.66<br>82.18    | 24,360<br>52,032         | 0.07%<br>0.15%  | 1.73%<br>3.02%                 | 0.00%<br>0.00%                | 15.96%<br>5.27%                       | 0.01%<br>0.01%                       |
| Sempra<br>Moody's Corp  | MCO          | 182.10              | 82.18<br>487.74    | 52,032<br>88,817         | 0.15%           | 3.02%<br>0.70%                 | 0.00%                         | 5.27%<br>14.41%                       | 0.01%                                |
| ON Semiconductor Corp   | ON           | 428.36              | 77.87              | 33,356                   | 5.2070          | J., J/0                        | 2.0070                        | 1.28%                                 | 2.0170                               |
| Booking Holdings Inc  | BKNG         | 33.52               | 3,909.23           | 131,053                  | 0.39%           | 0.90%                          | 0.00%                         | 14.59%                                | 0.06%                                |
| F5 Inc  | FFIV         | 58.28               | 203.15             | 11,840                   |                 |                                |                               | 7.83%                                 |                                      |
| Akamai Technologies Inc   | AKAM         | 151.53<br>51.63     | 101.84<br>107.75   | 15,431                   |                 |                                |                               | 6.12%<br>5.20%                        |                                      |
| I HOHAE MINOR LONGSTONES  | CRL          | 51.63               | 197.75             | 10,210                   |                 |                                |                               | 5.20%                                 |                                      |
| Charles River Laboratories International Inc MarketAxess Holdings Inc | MKTX         | 37.75               | 242.39             | 9,151                    | 0.03%           | 1.22%                          | 0.00%                         | 4.02%                                 | 0.00%                                |

Estimated Weighted Average Dividend Yield [1]

1.66%

**FERC Method** 

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3] Total [4]

No Weighting 100.00% 10.31% 10.31%

S&P 500 Estimated Required Market Return [5]

12.05%

|  |              | [6]                | [7]                | [8]                      | [9]                | [10]                           | [11]                                   | [12]                                  | [13]   |
|--|--------------|--------------------|--------------------|--------------------------|--------------------|--------------------------------|--|---------------------------------------|--|
| Name   | Ticker       | Shares<br>Outst'g  | Price              | Market<br>Capitalization | Weight in<br>Index | Estimated<br>Dividend<br>Yield | Capitalization Weighted Dividend Yield | Bloomberg<br>Long-Term<br>Growth Est. | Capitalizati<br>Weighted<br>Long-Terr<br>Growth Es |
| Devon Energy Corp  | DVN          | 626.20             | 44.78              | 28,041                   | 0.08%              | 3.93%                          | 0.00%                                  | 6.60%                                 | 0.01%  |
| Bio-Techne Corp  | TECH         | 158.60             | 73.99              | 11,735                   | 0.03%              | 0.43%                          | 0.00%                                  | 6.00%                                 | 0.00%  |
| Alphabet Inc   | GOOGL        | 5,859.00           | 163.38             | 957,243                  | 2.83%              | 0.49%                          | 0.01%                                  | 15.01%                                | 0.43%  |
| eleflex Inc  | TFX          | 47.12              | 245.17             | 11,552                   | 0.03%              | 0.55%                          | 0.00%                                  | 7.95%                                 | 0.00%  |
| llegion plc<br>letflix Inc                                       | ALLE<br>NFLX | 87.13<br>429.17    | 138.84<br>701.35   | 12,097<br>300,995        | 0.04%              | 1.38%                          | 0.00%                                  | 7.73%<br>35.72%                       | 0.00%  |
| Varner Bros Discovery Inc  | WBD          | 2,451.91           | 7.84               | 19,223                   |                    |                                |  | 28.63%                                |  |
| gilent Technologies Inc  | Α            | 287.33             | 142.92             | 41,065                   | 0.12%              | 0.66%                          | 0.00%                                  | 5.74%                                 | 0.01%  |
| rimble Inc   | TRMB         | 244.21             | 56.69              | 13,844                   |                    |                                |  |                                       |  |
| levance Health Inc   | ELV          | 231.89             | 556.89             | 129,135                  | 0.38%              | 1.17%                          | 0.00%                                  | 11.79%                                | 0.05%  |
| ME Group Inc<br>uniper Networks Inc                              | CME<br>JNPR  | 360.09<br>329.16   | 215.74<br>38.88    | 77,687<br>12,798         | 0.23%<br>0.04%     | 2.13%<br>2.26%                 | 0.00%<br>0.00%                         | 3.82%<br>6.00%                        | 0.01%<br>0.00%                                     |
| lackRock Inc   | BLK          | 148.13             | 901.81             | 133,583                  | 0.40%              | 2.26%                          | 0.01%                                  | 9.76%                                 | 0.04%  |
| TE Energy Co   | DTE          | 206.93             | 125.02             | 25,870                   | 0.08%              | 3.26%                          | 0.00%                                  | 10.27%                                | 0.01%  |
| elanese Corp   | CE           | 109.26             | 130.60             | 14,270                   | 0.04%              | 2.14%                          | 0.00%                                  | 0.56%                                 | 0.00%  |
| asdaq Inc  | NDAQ         | 575.94             | 72.08              | 41,514                   | 0.12%              | 1.33%                          | 0.00%                                  | 10.30%                                | 0.01%  |
| hilip Morris International Inc<br>gersoll Rand Inc               | PM<br>IR     | 1,554.80<br>403.48 | 123.29<br>91.45    | 191,692<br>36,899        | 0.57%              | 4.22%<br>0.09%                 | 0.02%                                  | 9.36%                                 | 0.05%  |
| alesforce Inc  | CRM          | 956.00             | 252.90             | 241,772                  | 0.72%              | 0.63%                          | 0.00%                                  | 17.52%                                | 0.13%  |
| oper Technologies Inc  | ROP          | 107.20             | 554.41             | 59,432                   | 0.7.270            | 0.54%                          | 0.0070                                 | 17.0270                               | 0.1070   |
| untington Ingalls Industries Inc                                 | HII          | 39.22              | 282.77             | 11,089                   | 0.03%              | 1.84%                          | 0.00%                                  | 7.62%                                 | 0.00%  |
| etLife Inc   | MET          | 700.33             | 77.48              | 54,261                   | 0.16%              | 2.81%                          | 0.00%                                  | 14.38%                                | 0.02%  |
| apestry Inc  | TPR          | 230.22             | 40.97              | 9,432                    | 0.03%              | 3.42%                          | 0.00%                                  | 5.52%                                 | 0.00%  |
| SX Corp  | CSX          | 1,938.74           | 34.27              | 66,441                   | 0.20%              | 1.40%                          | 0.00%                                  | 9.21%                                 | 0.02%  |
| dwards Lifesciences Corp<br>meriprise Financial Inc              | EW<br>AMP    | 602.40<br>98.19    | 69.96<br>449.44    | 42,144<br>44,130         | 0.13%              | 1.32%                          | 0.00%                                  | 8.56%<br>16.59%                       | 0.02%  |
| ebra Technologies Corp   | ZBRA         | 51.58              | 345.38             | 17,815                   | 3.1070             | 1.52/0                         | 3.0070                                 | 70.0070                               | 0.02 /0  |
| mmer Biomet Holdings Inc   | ZBH          | 203.65             | 115.46             | 23,514                   | 0.07%              | 0.83%                          | 0.00%                                  | 6.96%                                 | 0.00%  |
| amden Property Trust   | CPT          | 106.64             | 125.20             | 13,351                   | 0.04%              | 3.29%                          | 0.00%                                  | 1.87%                                 | 0.00%  |
| BRE Group Inc  | CBRE         | 306.43             | 115.14             | 35,282                   | 4.040/             | 0.550/                         | 0.040/                                 | 45.400/                               | 0.000/   |
| lastercard Inc<br>arMax Inc                                      | MA<br>KMX    | 916.71<br>156.08   | 483.34<br>84.55    | 443,083<br>13,196        | 1.31%              | 0.55%                          | 0.01%                                  | 15.18%<br>17.91%                      | 0.20%  |
| armax inc<br>itercontinental Exchange Inc                        | ICE          | 574.14             | 161.55             | 92,753                   | 0.27%              | 1.11%                          | 0.00%                                  | 9.95%                                 | 0.03%  |
| idelity National Information Services Inc                        | FIS          | 545.57             | 82.45              | 44,982                   | 0.27 70            | 1.75%                          | 0.0070                                 | 22.20%                                | 0.0070   |
| murfit WestRock PLC  | SW           | 519.36             | 47.42              | 24,628                   | 0.07%              | 2.55%                          | 0.00%                                  | 1.00%                                 | 0.00%  |
| hipotle Mexican Grill Inc  | CMG          | 1,369.48           | 56.08              | 76,800                   |                    |                                |  | 22.64%                                |  |
| /ynn Resorts Ltd   | WYNN         | 110.99             | 76.88              | 8,533                    |                    | 1.30%                          |  |                                       |  |
| ve Nation Entertainment Inc<br>ssurant Inc                       | LYV<br>AIZ   | 232.11<br>51.79    | 97.67<br>195.63    | 22,671<br>10,132         | 0.03%              | 1.47%                          | 0.00%                                  | 7.14%                                 | 0.00%  |
| RG Energy Inc  | NRG          | 206.38             | 85.01              | 17,544                   | 0.05%              | 1.92%                          | 0.00%                                  | 4.00%                                 | 0.00%  |
| onster Beverage Corp   | MNST         | 979.54             | 47.13              | 46,166                   | 0.00.0             |                                | 0.007                                  | 10.18%                                | 0.007  |
| egions Financial Corp  | RF           | 915.13             | 23.17              | 21,203                   | 0.06%              | 4.32%                          | 0.00%                                  | 4.68%                                 | 0.00%  |
| aker Hughes Co   | BKR          | 993.42             | 35.17              | 34,939                   |                    | 2.39%                          |  | 69.21%                                |  |
| osaic Co/The   | MOS          | 318.64             | 28.57              | 9,103                    |                    | 2.94%                          |  | -21.74%                               |  |
| xpedia Group Inc<br>F Industries Holdings Inc                    | EXPE<br>CF   | 124.66<br>180.41   | 139.09<br>83.09    | 17,338<br>14,990         |                    | 2.41%                          |  | 19.59%<br>-9.54%                      |  |
| PA Corp  | APA          | 369.91             | 28.49              | 10,539                   |                    | 3.51%                          |  | -9.54 <i>%</i><br>-5.79%              |  |
| eidos Holdings Inc   | LDOS         | 134.71             | 158.51             | 21,354                   | 0.06%              | 0.96%                          | 0.00%                                  | 11.76%                                | 0.01%  |
| phabet Inc   | GOOG         | 5,585.00           | 165.11             | 922,139                  | 2.73%              | 0.48%                          | 0.01%                                  | 15.01%                                | 0.41%  |
| rst Solar Inc  | FSLR         | 107.05             | 227.37             | 24,339                   |                    |                                |  | 41.25%                                |  |
| E Connectivity Ltd   | TEL          | 303.92             | 153.60             | 46,682                   | 0.14%              | 1.69%                          | 0.00%                                  | 5.41%                                 | 0.01%  |
| iscover Financial Services<br>isa Inc                            | DFS<br>V     | 251.07<br>1,670.45 | 138.71<br>276.37   | 34,826<br>461,661        | 0.10%<br>1.37%     | 2.02%<br>0.75%                 | 0.00%<br>0.01%                         | 11.65%<br>12.33%                      | 0.01%<br>0.17%                                     |
| id-America Apartment Communities Inc                             | MAA          | 116.88             | 162.37             | 18,977                   | 0.06%              | 3.62%                          | 0.01%                                  | 0.65%                                 | 0.00%  |
| ylem Inc/NY  | XYL          | 242.89             | 137.53             | 33,405                   |                    | 1.05%                          |  |                                       |  |
| arathon Petroleum Corp   | MPC          | 334.68             | 177.12             | 59,279                   |                    | 1.86%                          |  | -13.00%                               |  |
| ractor Supply Co   | TSCO         | 107.87             | 267.55             | 28,860                   | 0.09%              | 1.64%                          | 0.00%                                  | 5.68%                                 | 0.00%  |
| dvanced Micro Devices Inc  | AMD          | 1,618.48           | 148.56             | 240,442                  | 0.110/             | 0.070/                         | 0.000/                                 | 25.66%                                | 0.040/   |
| esMed Inc<br>ettler-Toledo International Inc                     | RMD<br>MTD   | 146.93<br>21.36    | 245.02<br>1,439.08 | 36,001<br>30,734         | 0.11%              | 0.87%                          | 0.00%                                  | 9.57%<br>9.15%                        | 0.01%  |
| CI Properties Inc  | VICI         | 1,043.14           | 33.48              | 34,924                   | 0.10%              | 4.96%                          | 0.01%                                  | 1.83%                                 | 0.00%  |
| opart Inc  | CPRT         | 962.30             | 52.96              | 50,963                   |                    |                                |  |                                       |  |
| acobs Solutions Inc  | J            | 124.25             | 150.88             | 18,747                   | 0.06%              | 0.77%                          | 0.00%                                  | 10.87%                                | 0.01%  |
| bemarle Corp   | ALB          | 117.53             | 90.25              | 10,607                   |                    | 1.80%                          |  | 35.42%                                |  |
| ortinet Inc<br>oderna Inc  | FTNT<br>MRNA | 764.91<br>384.40   | 76.71<br>77.40     | 58,676<br>29,752         |                    |                                |  | 8.66%<br>17.95%                       |  |
| ssex Property Trust Inc  | ESS          | 384.40<br>64.22    | 77.40<br>301.79    | 29,752<br>19,380         | 0.06%              | 3.25%                          | 0.00%                                  | 4.50%                                 | 0.00%  |
| oStar Group Inc  | CSGP         | 409.82             | 77.30              | 31,679                   | 3. <b>2279</b>     |                                |  | 13.84%                                | 2.0070   |
| ealty Income Corp  | Ο            | 870.87             | 61.85              | 53,861                   | 0.16%              | 5.10%                          | 0.01%                                  | 3.85%                                 | 0.01%  |
| estinghouse Air Brake Technologies Corp                          | WAB          | 175.18             | 169.57             | 29,706                   | 0.09%              | 0.47%                          | 0.00%                                  | 16.12%                                | 0.01%  |
| ool Corp   | POOL         | 38.26              | 351.62             | 13,452                   |                    | 1.37%                          |  | -0.04%                                |  |
| estern Digital Corp<br>epsiCo Inc                                | WDC<br>PEP   | 343.45<br>1,373.57 | 65.59<br>172.88    | 22,527<br>237,463        | 0.70%              | 3.14%                          | 0.02%                                  | -10.00%<br>7.40%                      | 0.05%  |
| iamondback Energy Inc  | FANG         | 178.39             | 195.11             | 34,806                   | 0.10%              | 4.80%                          | 0.00%                                  | 8.34%                                 | 0.01%  |
| alo Alto Networks Inc  | PANW         | 323.80             | 362.72             | 117,449                  |                    |                                |  | 11.52%                                |  |
| erviceNow Inc  | NOW          | 206.00             | 855.00             | 176,130                  |                    |                                |  |                                       |  |
| hurch & Dwight Co Inc  | CHD          | 244.82             | 101.88             | 24,942                   | 0.07%              | 1.11%                          | 0.00%                                  | 7.35%                                 | 0.01%  |
| ederal Realty Investment Trust GM Resorts International          | FRT<br>MGM   | 83.67<br>303.77    | 115.00<br>37.59    | 9,622<br>11,419          | 0.03%              | 3.83%                          | 0.00%                                  | 4.97%<br>20.80%                       | 0.00%  |
| GN Resorts International merican Electric Power Co Inc           | AEP          | 532.12             | 37.59<br>100.28    | 53,361                   | 0.16%              | 3.51%                          | 0.01%                                  | 20.80%<br>6.25%                       | 0.01%  |
| vitation Homes Inc   | INVH         | 612.59             | 36.84              | 22,568                   | 0.07%              | 3.04%                          | 0.00%                                  | 5.19%                                 | 0.00%  |
| TC Inc   | PTC          | 120.14             | 179.09             | 21,515                   |                    |                                |  | 14.76%                                |  |
| 3 Hunt Transport Services Inc                                    | JBHT         | 101.99             | 173.20             | 17,664                   | 0.05%              | 0.99%                          | 0.00%                                  | 9.73%                                 | 0.01%  |
| am Research Corp   | LRCX         | 129.88             | 821.01             | 106,629                  | 0.32%              | 1.12%                          | 0.00%                                  | 16.29%                                | 0.05%  |
| ohawk Industries Inc<br>E HealthCare Technologies Inc            | MHK<br>GEHC  | 63.12<br>456.66    | 155.14<br>84.82    | 9,792<br>38,734          | 0.11%              | 0.14%                          | 0.00%                                  | 4.45%<br>10.92%                       | 0.01%  |
| entair PLC   | PNR          | 165.50             | 88.69              | 14,678                   | 0.11%              | 1.04%                          | 0.00%                                  | 12.50%                                | 0.01%  |
| ertex Pharmaceuticals Inc  | VRTX         | 258.10             | 495.89             | 127,990                  | · = - : *          | = 114                          | - <del></del>                          | 11.00%                                | 2.2170   |
| mcor PLC   | AMCR         | 1,445.34           | 11.44              | 16,535                   | 0.05%              | 4.37%                          | 0.00%                                  | 3.71%                                 | 0.00%  |
| eta Platforms Inc  | META         | 2,184.73           | 521.31             | 1,138,921                | 3.37%              | 0.38%                          | 0.01%                                  | 19.80%                                | 0.67%  |
| Mobile US Inc  | TMUS         | 1,166.78           | 198.72             | 231,863                  | 0.69%              | 1.31%                          | 0.01%                                  | 5.00%                                 | 0.03%  |
| nited Rentals Inc  | URI<br>ARE   | 66.14<br>174.93    | 741.26<br>119.57   | 49,024<br>20,916         | 0.15%<br>0.06%     | 0.88%<br>4.35%                 | 0.00%                                  | 7.45%<br>3.03%                        | 0.01%<br>0.00%                                     |
| lexandria Real Estate Equities Inc<br>oneywell International Inc | ARE<br>HON   | 174.93<br>649.67   | 119.57<br>207.91   | 20,916<br>135,073        | 0.06%<br>0.40%     | 4.35%<br>2.08%                 | 0.00%<br>0.01%                         | 3.03%<br>8.65%                        | 0.00%  |
| OHEAMEH HITEHAUGHALING   |              | J . J . J .        | -91.01             |                          | J. I J / U         | /                              | U.U I /U                               | J.JJ/U                                | 0.00/0   |

Estimated Weighted Average Dividend Yield [1]

1.66%

Estimated Wgtd. Avg Long-Term Gwth Rate - Step 1 [2] Estimated Wgtd. Avg Long-Term Gwth Rate - Step 2 [3]
Total [4]

**FERC Method** No Weighting 100.00% 10.31% 10.31%

S&P 500 Estimated Required Market Return [5]

12.05%

### STANDARD AND POOR'S 500 INDEX

|                                 |        | [6]               | [7]    | [8]                      | [9]                | [10]                           | [11]                                   | [12]                                  | [13]  |
|---------------------------------|--------|-------------------|--------|--------------------------|--------------------|--------------------------------|--|---------------------------------------|---|
| Name                            | Ticker | Shares<br>Outst'g | Price  | Market<br>Capitalization | Weight in<br>Index | Estimated<br>Dividend<br>Yield | Capitalization Weighted Dividend Yield | Bloomberg<br>Long-Term<br>Growth Est. | Capitalization Weighted Long-Term Growth Est. |
|                                 |        | g                 |        |                          |                    |                                |  |                                       |   |
| United Airlines Holdings Inc    | UAL    | 328.80            | 44.04  | 14,480                   |                    |                                |  | 5.31%                                 |   |
| Seagate Technology Holdings PLC | STX    | 210.20            | 99.55  | 20,925                   |                    | 2.81%                          |  |                                       |   |
| News Corp                       | NWS    | 190.68            | 29.43  | 5,612                    |                    | 0.68%                          |  |                                       |   |
| Centene Corp                    | CNC    | 526.03            | 78.83  | 41,467                   |                    |                                |  | 4.40%                                 |   |
| Martin Marietta Materials Inc   | MLM    | 61.12             | 533.37 | 32,598                   | 0.10%              | 0.59%                          | 0.00%                                  | 7.47%                                 | 0.01%   |
| Teradyne Inc                    | TER    | 163.18            | 136.73 | 22,311                   | 0.07%              | 0.35%                          | 0.00%                                  | 16.14%                                | 0.01%   |
| PayPal Holdings Inc             | PYPL   | 1,022.33          | 72.43  | 74,048                   |                    |                                |  | 12.03%                                |   |
| Tesla Inc                       | TSLA   | 3,194.64          | 214.11 | 684,004                  |                    |                                |  | -11.00%                               |   |
| KKR & Co Inc                    | KKR    | 887.44            | 123.77 | 109,838                  |                    | 0.57%                          |  |                                       |   |
| Arch Capital Group Ltd          | ACGL   | 376.06            | 113.09 | 42,528                   |                    |                                |  | 6.13%                                 |   |
| Dow Inc                         | DOW    | 703.27            | 53.58  | 37,681                   |                    | 5.23%                          |  | -1.67%                                |   |
| Everest Group Ltd               | EG     | 43.27             | 392.24 | 16,974                   | 0.05%              | 2.04%                          | 0.00%                                  | 2.48%                                 | 0.00%   |
| Teledyne Technologies Inc       | TDY    | 46.78             | 432.80 | 20,248                   |                    |                                |  |                                       |   |
| GE Vernova Inc                  | GEV    | 274.80            | 201.00 | 55,235                   |                    |                                |  | 70.40%                                |   |
| News Corp                       | NWSA   | 378.33            | 28.33  | 10,718                   |                    | 0.71%                          |  |                                       |   |
| Exelon Corp                     | EXC    | 999.74            | 38.09  | 38,080                   | 0.11%              | 3.99%                          | 0.00%                                  | 5.31%                                 | 0.01%   |
| Global Payments Inc             | GPN    | 254.44            | 111.01 | 28,245                   | 0.08%              | 0.90%                          | 0.00%                                  | 9.30%                                 | 0.01%   |
| Crown Castle Inc                | CCI    | 434.57            | 112.02 | 48,680                   | 0.14%              | 5.59%                          | 0.01%                                  | 1.13%                                 | 0.00%   |
| Aptiv PLC                       | APTV   | 265.76            | 71.53  | 19,010                   |                    |                                |  | 16.91%                                |   |
| Align Technology Inc            | ALGN   | 74.70             | 237.22 | 17,720                   |                    |                                |  | 9.53%                                 |   |
| Kenvue Inc                      | KVUE   | 1,915.17          | 21.95  | 42,038                   | 0.12%              | 3.74%                          | 0.00%                                  | 13.58%                                | 0.02%   |
| Targa Resources Corp            | TRGP   | 219.08            | 146.90 | 32,183                   | 0.10%              | 2.04%                          | 0.00%                                  | 16.74%                                | 0.02%   |
| Bunge Global SA                 | BG     | 141.65            | 101.38 | 14,361                   |                    | 2.68%                          |  | -8.59%                                |   |
| LKQ Corp                        | LKQ    | 263.26            | 41.59  | 10,949                   |                    | 2.89%                          |  |                                       |   |
| Deckers Outdoor Corp            | DECK   | 25.41             | 959.29 | 24,377                   |                    |                                |  | 10.80%                                |   |
| Zoetis Inc                      | ZTS    | 453.05            | 183.49 | 83,130                   | 0.25%              | 0.94%                          | 0.00%                                  | 10.36%                                | 0.03%   |
| Equinix Inc                     | EQIX   | 94.95             | 834.36 | 79,218                   | 0.23%              | 2.04%                          | 0.00%                                  | 14.03%                                | 0.03%   |
| Digital Realty Trust Inc        | DLR    | 327.41            | 151.61 | 49,639                   | 0.15%              | 3.22%                          | 0.00%                                  | 3.21%                                 | 0.00%   |
| Molina Healthcare Inc           | MOH    | 58.60             | 349.79 | 20,498                   |                    |                                |  | 11.98%                                |   |
| Las Vegas Sands Corp            | LVS    | 736.43            | 38.99  | 28,713                   |                    | 2.05%                          |  |                                       |   |

[1] Equals sum of Col. [11]

[2] Equals sum of Col. [13]

[3] No GDP growth rate per FERC approach

[4] Equals ([2] x 100%) + ([3] x 0%)

[5] Equals ([1] x (1 + (0.5 x [4]))) + [4] [6] Bloomberg Professional as of August 31, 2024

[7] Bloomberg Professional as of August 31, 2024

[8] Equals [6] x [7]

[9] Equals weight in S&P 500 based on market capitalization [6] if growth rate >0% and ≤20% and dividend yield > 0

[10] Bloomberg Professional, as of August 31, 2024

[11] Equals [10] x [9]

[12] Bloomberg Professional, as of August 31, 2024

[13] Equals [9] x [12]

# CAPITAL ASSET PRICING MODEL CURRENT RISK FREE RATE AND VALUE LINE BETA

|                               |        | [1]                      | [2]  | [3]    | [4]     | [5]     | [6]     |
|-------------------------------|--------|--------------------------|------|--------|---------|---------|---------|
|                               |        |                          |      |        |         |         |         |
|                               |        | Current 30-day average   |      |        | Market  | Cost of | Cost of |
|                               |        | of 30-year U.S. Treasury |      | Market | Risk    | Equity: | Equity: |
| Company                       | Ticker | bond yield               | Beta | Return | Premium | CAPM    | ECAPM   |
| Atmos Energy Corporation      | ATO    | 4.23%                    | 0.85 | 12.05% | 7.82%   | 10.88%  | 11.17%  |
| NiSource Inc.                 | NI     | 4.23%                    | 0.95 | 12.05% | 7.82%   | 11.66%  | 11.76%  |
| Northwest Natural Gas Company | NWN    | 4.23%                    | 0.85 | 12.05% | 7.82%   | 10.88%  | 11.17%  |
| ONE Gas, Inc.                 | OGS    | 4.23%                    | 0.85 | 12.05% | 7.82%   | 10.88%  | 11.17%  |
| Southwest Gas Corporation     | SWX    | 4.23%                    | 0.90 | 12.05% | 7.82%   | 11.27%  | 11.47%  |
| Spire, Inc.                   | SR     | 4.23%                    | 0.85 | 12.05% | 7.82%   | 10.88%  | 11.17%  |
| Mean                          |        |                          |      |        | _       | 11.07%  | 11.32%  |
| Median                        |        |                          |      |        |         | 10.88%  | 11.17%  |

<sup>[1]</sup> Bloomberg Professional 30-day average as of August 31, 2024

<sup>[2]</sup> Value Line

<sup>[3]</sup> Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)

<sup>[4]</sup> Equals [3]-[1]

<sup>[5]</sup> Equals [1] + [2] x [4]

<sup>[6]</sup> Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL NEAR TERM PROJECTED RISK-FREE RATE AND VALUE LINE BETA

|                               |        | [1]  | [2]  | [3]              | [4]             | [5]             | [6]              |
|-------------------------------|--------|--|------|------------------|-----------------|-----------------|------------------|
|                               |        | Near-term projected 30-                        |      |                  | N.A. orland     | 0               | O a tark         |
|                               |        | year U.S. Treasury bond<br>yield (Q4 2024 - Q4 |      | Markat           | Market          | Cost of         | Cost of          |
| Company                       | Ticker | yieid (Q4 2024 - Q4<br>2025)                   | Beta | Market<br>Return | Risk<br>Premium | Equity:<br>CAPM | Equity:<br>ECAPM |
| Company                       |        | ,  |      |                  |                 |                 |                  |
| Atmos Energy Corporation      | ATO    | 4.12%  | 0.85 | 12.05%           | 7.93%           | 10.86%          | 11.16%           |
| NiSource Inc.                 | NI     | 4.12%  | 0.95 | 12.05%           | 7.93%           | 11.66%          | 11.75%           |
| Northwest Natural Gas Company | NWN    | 4.12%  | 0.85 | 12.05%           | 7.93%           | 10.86%          | 11.16%           |
| ONE Gas, Inc.                 | OGS    | 4.12%  | 0.85 | 12.05%           | 7.93%           | 10.86%          | 11.16%           |
| Southwest Gas Corporation     | SWX    | 4.12%  | 0.90 | 12.05%           | 7.93%           | 11.26%          | 11.46%           |
| Spire, Inc.                   | SR     | 4.12%  | 0.85 | 12.05%           | 7.93%           | 10.86%          | 11.16%           |
| Mean                          |        |  |      |                  |                 | 11.06%          | 11.31%           |
| Median                        |        |  |      |                  |                 | 10.86%          | 11.16%           |

<sup>[1]</sup> Blue Chip Financial Forecasts, Vol. 43, No. 9, August 30, 2024, at 2

<sup>[2]</sup> Value Line

<sup>[3]</sup> Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)

<sup>[4]</sup> Equals [3] - [1]

<sup>[5]</sup> Equals [1] + [2] x [4]

<sup>[6]</sup> Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL LONG-TERM PROJECTED RISK-FREE RATE AND VALUE LINE BETA

|                               |        | [1]                    | [2]  | [3]    | [4]     | [5]     | [6]          |
|-------------------------------|--------|------------------------|------|--------|---------|---------|--------------|
|                               |        |                        |      |        |         |         |              |
|                               |        | Projected 30-year U.S. |      |        | Market  | Cost of | Cost of      |
|                               |        | Treasury bond yield    |      | Market | Risk    | Equity: | Equity:      |
| Company                       | Ticker | (2026 - 2030)          | Beta | Return | Premium | CAPM    | <b>ECAPM</b> |
| Atmos Energy Corporation      | ATO    | 4.30%                  | 0.85 | 12.05% | 7.75%   | 10.89%  | 11.18%       |
| NiSource Inc.                 | NI     | 4.30%                  | 0.95 | 12.05% | 7.75%   | 11.66%  | 11.76%       |
| Northwest Natural Gas Company | NWN    | 4.30%                  | 0.85 | 12.05% | 7.75%   | 10.89%  | 11.18%       |
| ONE Gas, Inc.                 | OGS    | 4.30%                  | 0.85 | 12.05% | 7.75%   | 10.89%  | 11.18%       |
| Southwest Gas Corporation     | SWX    | 4.30%                  | 0.90 | 12.05% | 7.75%   | 11.28%  | 11.47%       |
| Spire, Inc.                   | SR     | 4.30%                  | 0.85 | 12.05% | 7.75%   | 10.89%  | 11.18%       |
| Mean                          |        |                        |      |        |         | 11.08%  | 11.33%       |
| Median                        |        |                        |      |        |         | 10.89%  | 11.18%       |

<sup>[1]</sup> Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14

<sup>[2]</sup> Value Line

<sup>[3]</sup> Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)

<sup>[4]</sup> Equals [3] - [1]

<sup>[5]</sup> Equals [1] + [2] x [4]

<sup>[6]</sup> Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL CURRENT RISK FREE RATE AND BLOOMBERG BETA

|                               |        | [1]                      | [2]  | [3]    | [4]     | [5]     | [6]     |
|-------------------------------|--------|--------------------------|------|--------|---------|---------|---------|
|                               |        |                          |      |        |         |         |         |
|                               |        | Current 30-day average   |      |        | Market  | Cost of | Cost of |
|                               |        | of 30-year U.S. Treasury |      | Market | Risk    | Equity: | Equity: |
| Company                       | Ticker | bond yield               | Beta | Return | Premium | CAPM    | ECAPM   |
| Atmos Energy Corporation      | ATO    | 4.23%                    | 0.74 | 12.05% | 7.82%   | 10.02%  | 10.53%  |
| NiSource Inc.                 | NI     | 4.23%                    | 0.79 | 12.05% | 7.82%   | 10.44%  | 10.84%  |
| Northwest Natural Gas Company | NWN    | 4.23%                    | 0.69 | 12.05% | 7.82%   | 9.62%   | 10.23%  |
| ONE Gas, Inc.                 | OGS    | 4.23%                    | 0.76 | 12.05% | 7.82%   | 10.20%  | 10.66%  |
| Southwest Gas Corporation     | SWX    | 4.23%                    | 0.81 | 12.05% | 7.82%   | 10.57%  | 10.94%  |
| Spire, Inc.                   | SR     | 4.23%                    | 0.76 | 12.05% | 7.82%   | 10.17%  | 10.64%  |
| Mean                          |        |                          |      |        |         | 10.17%  | 10.64%  |
| Median                        |        |                          |      |        |         | 10.18%  | 10.65%  |

<sup>[1]</sup> Bloomberg Professional 30-day average as of August 31, 2024

<sup>[2]</sup> Bloomberg Professional, based on 10-year weekly returns, as of August 31, 2024

<sup>[3]</sup> Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)

<sup>[4]</sup> Equals [3] - [1]

<sup>[5]</sup> Equals [1] + [2] x [4]

<sup>[6]</sup> Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL NEAR TERM PROJECTED RISK-FREE RATE AND BLOOMBERG BETA

|                               |        | [1]  | [2]  | [3]    | [4]     | [5]     | [6]     |
|-------------------------------|--------|--|------|--------|---------|---------|---------|
|                               |        | Near-term projected 30-<br>year U.S. Treasury bond |      |        | Market  | Cost of | Cost of |
| _                             |        | yield (Q4 2024 - Q4                                |      | Market | Risk    | Equity: | Equity: |
| Company                       | Ticker | 2025)  | Beta | Return | Premium | CAPM    | ECAPM   |
| Atmos Energy Corporation      | ATO    | 4.12%  | 0.74 | 12.05% | 7.93%   | 9.99%   | 10.51%  |
| NiSource Inc.                 | NI     | 4.12%  | 0.79 | 12.05% | 7.93%   | 10.42%  | 10.83%  |
| Northwest Natural Gas Company | NWN    | 4.12%  | 0.69 | 12.05% | 7.93%   | 9.59%   | 10.20%  |
| ONE Gas, Inc.                 | OGS    | 4.12%  | 0.76 | 12.05% | 7.93%   | 10.17%  | 10.64%  |
| Southwest Gas Corporation     | SWX    | 4.12%  | 0.81 | 12.05% | 7.93%   | 10.55%  | 10.93%  |
| Spire, Inc.                   | SR     | 4.12%  | 0.76 | 12.05% | 7.93%   | 10.14%  | 10.62%  |
| Mean                          |        |  |      |        |         | 10.14%  | 10.62%  |
| Median                        |        |  |      |        |         | 10.16%  | 10.63%  |

- [1] Blue Chip Financial Forecasts, Vol. 43, No. 9, August 30, 2024, at 2
- [2] Bloomberg Professional, based on 10-year weekly returns, as of August 31, 2024
- [3] Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)
- [4] Equals [3] [1]
- [5] Equals [1] + [2] x [4]
- [6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL LONG-TERM PROJECTED RISK-FREE RATE AND BLOOMBERG BETA

|                               |        | [1]                    | [2]  | [3]    | [4]     | [5]     | [6]          |
|-------------------------------|--------|------------------------|------|--------|---------|---------|--------------|
|                               |        |                        |      |        |         |         |              |
|                               |        | Projected 30-year U.S. |      |        | Market  | Cost of | Cost of      |
|                               |        | Treasury bond yield    |      | Market | Risk    | Equity: | Equity:      |
| Company                       | Ticker | (2026 - 2030)          | Beta | Return | Premium | CAPM    | <b>ECAPM</b> |
| Atmos Energy Corporation      | ATO    | 4.30%                  | 0.74 | 12.05% | 7.75%   | 10.04%  | 10.54%       |
| NiSource Inc.                 | NI     | 4.30%                  | 0.79 | 12.05% | 7.75%   | 10.46%  | 10.85%       |
| Northwest Natural Gas Company | NWN    | 4.30%                  | 0.69 | 12.05% | 7.75%   | 9.64%   | 10.25%       |
| ONE Gas, Inc.                 | OGS    | 4.30%                  | 0.76 | 12.05% | 7.75%   | 10.21%  | 10.67%       |
| Southwest Gas Corporation     | SWX    | 4.30%                  | 0.81 | 12.05% | 7.75%   | 10.59%  | 10.95%       |
| Spire, Inc.                   | SR     | 4.30%                  | 0.76 | 12.05% | 7.75%   | 10.18%  | 10.65%       |
| Mean                          |        |                        |      |        |         | 10.19%  | 10.65%       |
| Median                        |        |                        |      |        |         | 10.20%  | 10.66%       |

- [1] Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14
- [2] Bloomberg Professional, based on 10-year weekly returns, as of August 31, 2024
- [3] Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)
- [4] Equals [3] [1]
- [5] Equals [1] + [2] x [4]
- [6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL CURRENT RISK FREE RATE AND LONG-TERM VALUE LINE BETA

|                               |        | [1]                      | [2]  | [3]    | [4]     | [5]     | [6]     |
|-------------------------------|--------|--------------------------|------|--------|---------|---------|---------|
|                               |        |                          |      |        |         |         |         |
|                               |        | Current 30-day average   |      |        | Market  | Cost of | Cost of |
|                               |        | of 30-year U.S. Treasury |      | Market | Risk    | Equity: | Equity: |
| Company                       | Ticker | bond yield               | Beta | Return | Premium | CAPM    | ECAPM   |
| Atmos Energy Corporation      | ATO    | 4.23%                    | 0.75 | 12.05% | 7.82%   | 10.10%  | 10.59%  |
| NiSource Inc.                 | NI     | 4.23%                    | 0.76 | 12.05% | 7.82%   | 10.14%  | 10.62%  |
| Northwest Natural Gas Company | NWN    | 4.23%                    | 0.71 | 12.05% | 7.82%   | 9.78%   | 10.35%  |
| ONE Gas, Inc.                 | OGS    | 4.23%                    | 0.74 | 12.05% | 7.82%   | 10.00%  | 10.51%  |
| Southwest Gas Corporation     | SWX    | 4.23%                    | 0.83 | 12.05% | 7.82%   | 10.70%  | 11.04%  |
| Spire, Inc.                   | SR     | 4.23%                    | 0.74 | 12.05% | 7.82%   | 10.03%  | 10.53%  |
| Mean                          |        |                          |      |        |         | 10.12%  | 10.61%  |
| Median                        |        |                          |      |        |         | 10.06%  | 10.56%  |

- [1] Bloomberg Professional 30-day average as of August 31, 2024
- [2] Schedule AEB-D2, Attachment 5
- [3] Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)
- [4] Equals [3] [1]
- [5] Equals [1] + [2] x [4]
- [6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL NEAR-TERM PROJECTED RISK FREE RATE AND LONG-TERM VALUE LINE BETA

|                               |        | [1]                     | [2]  | [3]    | [4]     | [5]     | [6]     |
|-------------------------------|--------|-------------------------|------|--------|---------|---------|---------|
|                               |        | Near-term projected 30- |      |        |         |         |         |
|                               |        | year U.S. Treasury bond |      |        | Market  | Cost of | Cost of |
|                               |        | yield (Q4 2024 - Q4     |      | Market | Risk    | Equity: | Equity: |
| Company                       | Ticker | 2025)                   | Beta | Return | Premium | CAPM    | ECAPM   |
| Atmos Energy Corporation      | ATO    | 4.12%                   | 0.75 | 12.05% | 7.93%   | 10.07%  | 10.56%  |
| NiSource Inc.                 | NI     | 4.12%                   | 0.76 | 12.05% | 7.93%   | 10.11%  | 10.60%  |
| Northwest Natural Gas Company | NWN    | 4.12%                   | 0.71 | 12.05% | 7.93%   | 9.74%   | 10.32%  |
| ONE Gas, Inc.                 | OGS    | 4.12%                   | 0.74 | 12.05% | 7.93%   | 9.97%   | 10.49%  |
| Southwest Gas Corporation     | SWX    | 4.12%                   | 0.83 | 12.05% | 7.93%   | 10.68%  | 11.02%  |
| Spire, Inc.                   | SR     | 4.12%                   | 0.74 | 12.05% | 7.93%   | 10.00%  | 10.51%  |
| Mean                          |        |                         |      |        |         | 10.10%  | 10.59%  |
| Median                        |        |                         |      |        |         | 10.03%  | 10.54%  |

- [1] Blue Chip Financial Forecasts, Vol. 43, No. 9, August 30, 2024, at 2
- [2] Schedule AEB-D2, Attachment 5
- [3] Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)
- [4] Equals [3] [1]
- [5] Equals [1] + [2] x [4]
- [6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# CAPITAL ASSET PRICING MODEL LONG-TERM PROJECTED RISK FREE RATE AND LONG-TERM VALUE LINE BETA

|                               |        | [1]                    | [2]  | [3]    | [4]     | [5]     | [6]     |
|-------------------------------|--------|------------------------|------|--------|---------|---------|---------|
|                               |        |                        |      |        |         |         |         |
|                               |        | Projected 30-year U.S. |      |        | Market  | Cost of | Cost of |
|                               |        | Treasury bond yield    |      | Market | Risk    | Equity: | Equity: |
| Company                       | Ticker | (2026 - 2030)          | Beta | Return | Premium | CAPM    | ECAPM   |
| Atmos Energy Corporation      | ATO    | 4.30%                  | 0.75 | 12.05% | 7.75%   | 10.11%  | 10.60%  |
| NiSource Inc.                 | NI     | 4.30%                  | 0.76 | 12.05% | 7.75%   | 10.16%  | 10.63%  |
| Northwest Natural Gas Company | NWN    | 4.30%                  | 0.71 | 12.05% | 7.75%   | 9.80%   | 10.36%  |
| ONE Gas, Inc.                 | OGS    | 4.30%                  | 0.74 | 12.05% | 7.75%   | 10.02%  | 10.53%  |
| Southwest Gas Corporation     | SWX    | 4.30%                  | 0.83 | 12.05% | 7.75%   | 10.71%  | 11.05%  |
| Spire, Inc.                   | SR     | 4.30%                  | 0.74 | 12.05% | 7.75%   | 10.04%  | 10.55%  |
| Mean                          |        |                        |      | _      |         | 10.14%  | 10.62%  |
| Median                        |        |                        |      |        |         | 10.08%  | 10.57%  |

- [1] Blue Chip Financial Forecasts, Vol. 43, No. 6, May 31, 2024, at 14
- [2] Schedule AEB-D2, Attachment 5
- [3] Schedule AEB-SR1, Attachment 1 (Cor. Excl. of Non-Dividend Paying Companies, CGDCF)
- [4] Equals [3] [1]
- [5] Equals [1] + [2] x [4]
- [6] Equals [1] + 0.25 x ([4]) + 0.75 x ([2] x [4])

# Summary of CAPM Results Based on Correction of Dr. Won's Adjustment to My Forward-Looking Market Return

Assumed Market Return of:

12.05%

(Schedule SR1, Attachment 1)

#### Assumes:

- Correction to Dr. Won's adjustment to my market return
- Constant growth DCF approach to calculating market return consistent with FERC approach

|                                | 30-Year Treasury Bond Yield |           |             |  |  |
|--------------------------------|-----------------------------|-----------|-------------|--|--|
|                                | Current                     | Near-Term | Longer-Term |  |  |
|                                | 30-Day Avg                  | Projected | Projected   |  |  |
| CAPM:                          |                             |           |             |  |  |
| Current Value Line Beta        | 11.07%                      | 11.06%    | 11.08%      |  |  |
| Current Bloomberg Beta         | 10.17%                      | 10.14%    | 10.19%      |  |  |
| Long-term Avg. Value Line Beta | 10.12%                      | 10.10%    | 10.14%      |  |  |
| Average Cost of Equity         |                             | 10.45%    |             |  |  |
| ECAPM:                         |                             |           |             |  |  |
| Current Value Line Beta        | 11.32%                      | 11.31%    | 11.33%      |  |  |
| Current Bloomberg Beta         | 10.64%                      | 10.62%    | 10.65%      |  |  |
| Long-term Avg. Value Line Beta | 10.61%                      | 10.59%    | 10.62%      |  |  |
| Average Cost of Equity         |                             | 10.85%    |             |  |  |

## BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

| In the Matter of Union Electric Company d/b/a Ameren Missouri's Tariffs to Adjust Its Revenues for its Natural Gas Service. | ) )       | Case No. GR-2024-0369 |
|---|-----------|-----------------------|
| AFFIDAVIT OF  | ANN I     | E. BULKLEY            |
| COMMOMWEALTH OF MASSACHUS   | ETTS      | )                     |
| CITY OF BOSTON  |           | ) ss<br>)             |
| Ann E. Bulkley, being first duly sworn states   | <b>s:</b> |                       |

My name is Ann E. Bulkley, and on my oath declare that I am of sound mind and lawful

age; that I have prepared the foregoing Rebuttal Testimony; and further, under the penalty of

perjury, that the same is true and correct to the best of my knowledge and belief.

/s/ Ann E. Bulkley
Ann E. Bulkley

Sworn to me this 29<sup>th</sup> day of April, 2025.