FLORIDA POWER \& LIGHT COMPANY REBUTTAL TESTIMONY OF ROBERT B. HEVERT DOCKET NO. 160021-EI AUGUST 1, 2016
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## 9

## I. INTRODUCTION AND PURPOSE

## Q. Please state your name, affiliation and business address.

A. My name is Robert B. Hevert. I am a Partner with ScottMadden, Inc. ("ScottMadden"), and my business address is 1900 West Park Drive, Suite 250, Westborough, MA 01581.
Q. Are you the same Robert B. Hevert who previously provided Direct Testimony in this proceeding?
A. Yes. At the time my Direct Testimony was filed, I was Managing Partner of Sussex Economic Advisors, LLC ("Sussex"). Effective June 1, 2016 Sussex became part of ScottMadden, and I assumed my current position as Partner.

## Q. What is the purpose of your Rebuttal Testimony?

A. The purpose of my Rebuttal Testimony is to respond to the direct testimonies of: (1) Dr. J. Randall Woolridge on behalf of Florida Office of Public Counsel ("OPC"); (2) Mr. Michael Gorman on behalf of the Federal Executive Agencies ("FEA"); (3) Mr. Richard A. Baudino on behalf of the South Florida Hospital and Health Care Association ("SFHHA"); (4) Mr. Steve Chriss on behalf of Wal-Mart Stores East, LP and Sam's East, Inc. ("Wal-Mart"); (5) Mr. Michael Brosch on behalf of AARP; (6) Mr. Jeffry Pollock on behalf of the Florida Industrial Power Users Group ("FIPUG") (referred to herein, collectively, as the "opposing ROE witnesses"); (7) Mr. Kevin W. O’Donnell on behalf of OPC; and (8) Mr. Daniel Lawton on behalf of OPC, as their testimonies relate to the Company's Return on Equity ("ROE") or capital structure.

## Q. Have you prepared any Rebuttal Exhibits?

A. Yes. My analyses and conclusions are supported by the data presented in Exhibits RBH-11 through RBH-44, which have been prepared by me or under my direct supervision.

## Q. What are your conclusions regarding the appropriate Cost of Equity and capital structure for FPL?

A. In my Direct Testimony I recommended an ROE of 11.00 percent, within a range of 10.50 percent to 11.50 percent. As my Direct Testimony discussed, my ROE recommendation and the analytical results on which it is based consider a variety of factors, including certain risks faced by FPL such as vulnerability to severe weather conditions, exposure to new regulatory requirements associated with nuclear generation, and the risk of adverse capital market changes during the pendency of the Company's proposed four-year rate plan.

Because the application of financial models and the interpretation of their results are often sources of disagreement among analysts in regulatory proceedings, I believe it is important to review and consider a variety of data points; doing so enables us to put in context both quantitative analyses and the associated recommendations. As such, I have updated many of the analyses contained in my Direct Testimony, and I have provided several new analyses in response to issues raised by the opposing ROE witnesses. As discussed throughout the balance of
my Rebuttal Testimony, those analyses continue to support my ROE range and recommendation.

As to the capital structure, I continue to recommend the Company's existing capital structure of 40.40 percent long-term debt and 59.60 percent common equity. I further conclude that the Company's capital structure is within the range of equity ratios used by its peers, is consistent with rating agency criteria, and therefore, is reasonable.
Q. Please now provide an overview of your response to the ROE recommendations made by the opposing ROE witnesses.
A. It is important to keep in mind that no one financial model is more reliable than others at all times and under all market conditions; at times, certain model results simply do not make sense. Determining the Cost of Equity therefore is not always a strict mathematical exercise. Rather, it requires reasoned judgment in vetting the models and assumptions used by various analysts, and in assessing the reasonableness of their recommendations. That judgment may lead to the conclusion that the emphasis applied to a particular method in a prior proceeding or under prior market conditions is not appropriate in the current instance.

The opposing ROE witnesses have given considerable weight to a single method the Discounted Cash Flow ("DCF") approach - even though their models produce ROE estimates that are 100 basis points, and more, below the returns authorized
for other electric utilities. ${ }^{1}$ Given their dependence on a method that produces unduly low estimates, it is not surprising that their recommendations fall within a range that is far below the returns authorized for electric utilities in other jurisdictions.

The fact that the opposing ROE witnesses' recommendations are similar does not mean that their approaches are appropriate or that their conclusions are sound. For the reasons discussed throughout the balance of my Rebuttal Testimony, it is my view that, if adopted, the opposing ROE witnesses' recommendations would increase the Company's regulatory and financial risk, diminish its ability to compete for capital, and have the counter-productive effect of increasing FPL's overall cost of capital, ultimately to the detriment of its customers.
Q. Please now provide an overview of your response to the ROE recommendations made by the opposing ROE witnesses.
A. Although there are many areas in which I disagree with their methods and conclusions, there are certain issues that commonly serve to reduce the opposing ROE witnesses' recommendations:

- Application of Discounted Cash Flow methods. As a general matter, DCF based methods define the Cost of Equity as the discount rate that sets the current market price of a stock equal to the present value of the cash flows expected from owning that stock. In calculating expected cash flows, the

Direct Testimony of J. Randall Woolridge, at 53 and Exhibit JRW-10, at 1. Direct Testimony of Michael P. Gorman, at 31, 33, Exhibit MPG-6 and Exhibit MPG-9. Direct Testimony of Richard A. Baudino, at 33 and Exhibit No.___(RAB-7).
opposing ROE witnesses rely on growth rates that are inappropriately low, or that are constrained by what they may consider to be "sustainable" levels of perpetual growth. Regardless of how they develop their models, DCF estimates as low as 8.15 percent $^{2}$ fail to meet the Hope and Bluefield "end result" standard, and should be given no weight in determining the Company's ROE.

- Application of Risk Premium Models. Risk Premium methods are based on the financial principle that equity investors assume greater risk than do debt investors and, therefore, require higher returns. The measure of that incremental return is the "Equity Risk Premium," or the difference between the required return on debt and the required Return on Equity. It is important to recognize that the Equity Risk Premium is not constant over time. Rather, as interest rates fall, the Equity Risk Premium increases, even when we consider additional measures of market risk. By not properly reflecting that well-documented relationship, certain of the opposing ROE witnesses have under-estimated FPL's Cost of Equity.
- Application of the Capital Asset Pricing Model ("CAPM"). The CAPM, which also is a risk premium-based method, assumes that investors must be compensated for the time value of money, and for taking on additional risk. The time value of money is measured by long-term Treasury yields; compensation for additional risk is measured by the stock's Beta coefficient and the expected Market Risk Premium ("MRP"). The Market Risk Premium, Direct Testimony of Richard A. Baudino, at 41, and Exhibit RAB-7.
which weighs heavily in CAPM estimates, reflects the additional return that investors expect to receive by investing in the market as a whole over the return they would receive by investing only in long-term Treasury bonds. Certain of the opposing ROE witnesses have developed MRP estimates based on historical market returns and interest rates, and have assumed relationships between those two variables that do not reasonably reflect current or expected market conditions. As a result, their ROE estimates are unreasonably low.
- Assessment of the Company's relative risk. Determination of required ROE is a risk-comparable exercise. The opposing ROE witnesses do not fully consider the range of business risks and other factors when determining where FPL's required ROE falls within the range of analytical results. ${ }^{3}$

On balance, and after considering the issues summarized above, I have maintained the recommendations contained in my Direct Testimony.

## Q. How is the remainder of your Rebuttal Testimony organized? <br> A. The remainder of my Rebuttal Testimony is organized as follows: <br> - Section II - Contains my response to OPC witness Woolridge; <br> - Section III - Contains my response to FEA witness Gorman; <br> - Section IV - Contains my response to SFHHA witness Baudino; <br> - Section V - Contains my response to Wal-Mart witness Chriss;

See, Direct Testimony and Exhibits of Robert B. Hevert, at 37-50.

- Section VI - Contains my response to AARP witness Brosch and FIPUG witness Pollock;
- Section VII - Contains my response to OPC witness O’Donnell regarding the Company's capital structure;
- Section VIII - Contains my response to OPC witness Lawton regarding the Company's financial integrity;
- Section IX - Summarizes my updated analyses; and
- Section X - Summarizes my conclusions and recommendations.


## II. RESPONSE TO THE TESTIMONY OF OPC WITNESS WOOLRIDGE

Q. Please provide a brief summary of Dr. Woolridge's testimony and ROE recommendation.
A. Dr. Woolridge recommends an ROE of 8.75 percent, which is near the upper end of his DCF and CAPM results. Dr. Woolridge makes clear, however, that his recommendation relies primarily on his Constant Growth DCF model results. ${ }^{4}$
Q. What are the principal areas of disagreement between you and Dr. Woolridge?
A. There are several areas in which I disagree with Dr. Woolridge. In general, those areas include: (1) the composition and selection of the proxy group companies; (2) the growth rates applied in the Constant Growth DCF model; (3) the application of the Multi-Stage DCF model; (4) the application of the CAPM; (5)

[^0]the reasonableness of the Bond Yield Plus Risk Premium analysis; (6) the relevance of Market-to-Book ("M/B") ratios in excess of unity; (7) the relevance of flotation costs in determining the Company's Cost of Equity; and (8) the business risk of FPL relative to the proxy group. In addition, I disagree with Dr. Woolridge's presentation and interpretation of certain data relating to capital market conditions.

Regardless of how he arrived at his recommendation, it is very difficult to reconcile an ROE of 8.75 percent with past, current, and expected market environments.

## A. Proxy Group Selection

## Q. Please describe the screening criteria by which Dr. Woolridge developed his Proxy Group.

A. Dr. Woolridge relied on six screening criteria to develop his sample of 29 companies:

1. Proxy companies must derive at least 50.00 percent of revenues from regulated electric operations;
2. Each company selected must be listed as an Electric Utility by Value Line and as an Electric Utility or Combination Electric and Gas company by AUS Utilities Reports;
3. Selected companies must have an investment grade bond rating;
4. Companies must have a consistent dividend record with no cuts or omissions for the past six months;
5. Each company must not be involved in an acquisition, or be the target of an acquisition in the past six months; and
6. Proxy companies must have long-term Earnings Per Share ("EPS") growth forecasts available from Yahoo!, Reuters, or Zacks. ${ }^{5}$

## Q. Do you agree with Dr. Woolridge's screening criteria?

A. Not entirely. Although we do have certain criteria in common (for example we both exclude companies that are party to a significant corporate transaction ${ }^{6}$ or that do not consistently pay dividends), I do not believe that Dr. Woolridge's screens render a group of companies that is sufficiently comparable to FPL.

## Q. Do any of Dr. Woolridge's proxy companies fail his proxy group screening criteria?

A. I believe so. Dr. Woolridge included in his proxy group Dominion Resources, Inc. ("Dominion"), Black Hills Corporation ("Black Hills"), Duke Energy Corporation ("Duke"), and Southern Company ("Southern"), all of which are party to significant acquisitions: Dominion announced its proposed acquisition of Questar Corporation on February 1, 2016;7 Black Hills acquired SourceGas Holdings LLC on February 12, 2016; ${ }^{8}$ Duke announced its proposed acquisition of Piedmont Natural Gas Company, Inc. on October 26, 2015; ${ }^{9}$ and Southern
completed its acquisition of AGL Resources Inc. on July 1, 2016. ${ }^{10}$ As such, those companies should be removed from the proxy group.

## Q. What is your concern with Dr. Woolridge's use of revenue, rather than income, as a screening criterion?

A. Measures of income are far more likely to be considered by the financial community in making credit assessments and investment decisions than are measures of revenue. From the perspective of credit markets, measures of financial strength and liquidity are focused on cash from operations, which is directly derivative of earnings, as opposed to revenue. For example, Moody's assigns a 40.00 percent weight to measures of financial strength and liquidity, of which 32.50 percent specifically relates to the ability to cover debt obligations with cash from operations. ${ }^{11}$

Just as rating agencies focus on measures of cash from operations, equity investors prefer measures of income in assessing equity valuation levels; common measures of relative equity valuation include the Price/Earnings ratio, and the ratio of Enterprise Value/EBITDA (Earnings Before Interest, Taxes, Depreciation, and Amortization). Revenue, however, may be several steps removed from the earnings and cash flows that that are the basis of equity valuations. Energy trading and marketing units, for example, often represent high

See, Moody’s Investors Service, Rating Methodology, Regulated Electric and Gas Utilities, December 23, 2013, at 10-14. I address the ratings process in more detail in my response to Mr. Lawton.
revenue but low margin operations. Those operations may generate a comparatively large proportion of the combined entity's revenue, but only a small percentage of its income. In such cases, focusing on revenue may mislead the analyst into assuming that a given operating unit is the primary driver of expected growth, when other business segments create the majority of earnings and cash flows. Here, we are considering whether the underlying utility is the principal source of long-term growth and as such, it could be misleading to focus on revenue rather than earnings for the purpose of identifying proxy companies.

## Q. Have you made any changes to the proxy group used in your ROE analyses?

A. Yes, I have. Although I believe my proxy group reasonably reflects FPL's risk, I also recognize that in certain circumstances it is possible to have reasonable disagreements as to the definition and application of screening criteria. Consequently, I have developed a proxy group that contains all the companies used by Dr. Woolridge, Mr. Gorman, Mr. Baudino, and me in this proceeding, but for companies that: (1) have recently been party to mergers or significant transactions; (2) that do not have regulated generation assets; or (3) are affected by significant ongoing uncertainties that may be affecting their market data and investors' expectations of their future performance (I refer to that group as the "Combined Proxy Group"). Exhibit RBH-19 provides a comparison of the various proxy groups used by ROE witnesses in this proceeding and explains the reason certain companies were excluded from the Combined Proxy Group. As discussed in Section IX, the Cost of Equity estimates derived from the Combined Proxy Group support my ROE recommendation.

## B. Application of the Constant Growth DCF Approach


#### Abstract

Q. Please summarize your concerns with the Constant Growth DCF model and Dr. Woolridge's application of the model. A. There are several aspects of Dr. Woolridge's DCF analyses and conclusions that are incompatible with market conditions, and inconsistent with the practical interpretation of the models' results. For example, the market data used in Dr. Woolridge's DCF analyses conflict with the models' underlying assumptions. In particular, the market prices used to calculate the dividend yield were taken from a period during which utilities in general, and the proxy companies in particular, traded at unusually high, and likely unsustainable, levels. In fact, during Dr. Woolridge's study period, utility Price/Earnings ("P/E") ratios exceeded their long-term average, and were similar to the market P/E ratio (as measured by the S\&P 500). ${ }^{12}$ The elevated P/E ratios are an important factor simply because the Constant Growth DCF model assumes constant P/E ratios in perpetuity. Consequently, the basis of Dr. Woolridge’s recommendation - the Constant Growth DCF model - assumes data that are inconsistent with the model's fundamental assumptions.


Lastly, Dr. Woolridge's application of the Constant Growth DCF model includes a degree of subjectivity that prevents us from replicating his results. It is quite likely that analysts looking at the same data would come to different conclusions. For example, based on his review of historical and projected dividend, book
value, earnings and "sustainable" growth rates, Dr. Woolridge assumes a growth rate of 4.88 percent for the companies in his proxy group, although it is unclear how he calculates that estimate. Moreover, Dr. Woolridge's judgment is to give "primary weight" ${ }^{13}$ to growth rate projections produced by equity analysts, despite his position that those analysts knowingly and persistently produce biased forecasts.

## Q. What growth rates did Dr. Woolridge review in his Constant Growth DCF

 analysis?A. Dr. Woolridge reviewed a number of growth rates, including historical and projected Dividends Per Share ("DPS"), Book Value Per Share ("BVPS"), and EPS growth rates as reported by Value Line; analysts’ consensus EPS growth rate projections from Yahoo!, Reuters, and Zacks; and an estimate of "sustainable growth" derived from data provided by Value Line. Dr. Woolridge states that in arriving at his 8.75 percent DCF estimate, he gave more weight to projected EPS growth rates. ${ }^{14}$

See, Direct Testimony of J. Randall Woolridge, at 52.

Table 1: Summary of Dr. Woolridge's Growth Rate Estimates ${ }^{15}$

|  | Dr. Woolridge's <br> Proxy Group |
| :--- | :---: |
| Value Line Historical Growth Rates (DPS, <br> BVPS, EPS) | $4.30 \%$ |
| Value Line Projected Growth Rates (DPS, <br> BVPS, EPS) | $4.80 \%$ |
| Sustainable Growth | $3.90 \%$ |
| Analyst Projected EPS Growth Rates (excl. <br> Value Line) - Mean/Median | $4.80 \% / 5.00 \%$ |
| Dr. Woolridge’s Assumed DCF Growth <br> Rate | $4.88 \%$ |

## Q. Do you agree with Dr. Woolridge's sustainable growth rate estimate?

A. No, I do not. As discussed in more detail in my response to Mr. Baudino, the "sustainable growth" rate does not account for externally generated funds associated with issuances of new equity.
Q. Are there reasons to doubt the results of a DCF analysis that uses the sustainable growth rate for electric utilities in particular?
A. Yes. As noted below, the projected realized Return on Common Equity for many of the proxy companies is significantly diluted by recent or projected additions to net plant. The assumption that the Cost of Equity would materially decrease as capital investments increase, however, is contrary to market evidence.
Q. Have you conducted any analyses to demonstrate how the proxy companies' earned ROE projections are diluted by ongoing capital expenditures?
A. Yes, I have. As discussed in my Direct Testimony, I analyzed Value Line's earned ROE projections using the "DuPont" formula, which decomposes the Return on Common Equity into three components: (1) the Profit Margin (net income/revenues); (2) Asset Turnover (revenues/net plant); and (3) the Equity Multiplier (net plant/equity). ${ }^{16}$ That analysis (see Exhibit RBH-8) showed that because the utility industry is going through a period of increased capital investment, the lag between the addition of net plant and revenue generated by those investments dilute the Asset Turnover ratio, at least in the near term. In the context of the sustainable growth model, the pressure on earned ROE would lead to the counter-intuitive conclusion that increased capital investments lead to decreased return requirements.

## Q. Do Dr. Woolridge's analyses account for abnormally elevated $\mathbf{P} / \mathbf{E}$ ratios?

A. Not on a consistent basis. As discussed throughout my Rebuttal Testimony, DCFbased methods, such as the Constant Growth model on which Dr. Woolridge (and the other opposing witnesses) relies, depend on recent stock prices as a principal input, and (in the case of the Constant Growth model) assume that Price/Earnings ratios, and resulting Cost of Equity will remain constant in perpetuity. As noted
above, an important analytical issue is that utility sector $\mathrm{P} / \mathrm{E}$ ratios recently have been unstable and recently have been moved well above their historical levels. ${ }^{17}$

To support his Capital Asset Pricing Model analysis, Dr. Woolridge refers to "Building Block" approaches as part of the studies he uses to estimate the Market Risk Premium (see Exhibit JRW-11, pages 5 and 6). Among the "Building Block" studies included in that review are those produced by Ibbotson and Chen. The Morningstar 2015 Classic Yearbook also discusses the "Building Block" model. ${ }^{18}$ In that discussion, Morningstar reviews the effect of increasing P/E ratios on the market return, and concludes that "reported earnings are affected not only by the long-term productivity, but also by 'one-time’ items that do not necessarily have the same consistent impact year after year." ${ }^{19}$ Morningstar therefore uses three-year average P/E ratios to develop its Supply-Side market return estimate.

Dr. Woolridge therefore recognized and adjusted his analyses to reflect the abnormal expansion in $\mathrm{P} / \mathrm{E}$ ratios in his Building Blocks calculation, but did not acknowledge the same principle in his DCF analysis. That is, Dr. Woolridge relies on an analysis that adjusts abnormally high $\mathrm{P} / \mathrm{E}$ ratios in a manner that reduces his CAPM estimate (the Building Blocks approach to developing the

Since the beginning of 2000, the long-term average P/E ratio for Dr. Woolridge's proxy group was 17.08. The 30-day average P/E ratio for the period ending June 2016 was 21.63 for Dr. Woolridge's proxy group. Source: SNL Financial. Looking forward, indicators suggest that the industry's current valuation levels may not persist. Value Line, for example, expects a decline in the P/E ratio for all of the companies in Dr. Woolridge's proxy group over the coming three to five years (see, Exhibit RBH-20).
Morningstar refers to the method as the "Supply Side" approach. Morningstar, Inc., 2015 Classic Yearbook, at 157.

Equity Risk Premium), ${ }^{20}$ and at the same time relies on DCF estimates that do not recognize or adjust for the abnormal expansion in P/E ratios for his proxy companies.
Q. Please summarize Dr. Woolridge's reference to a March 2015 report by Moody's regarding the effect of ROEs on utilities' near-term credit profiles.
A. Dr. Woolridge points to the article and concludes (among other things) that lower authorized ROEs are not impairing utilities’ credit profiles, and are not "deterring them from raising record amounts of capital."21 Dr. Woolridge further states that the Moody's article "supports the prevailing/emerging belief that lower authorized ROEs are unlikely to hurt the financial integrity of utilities or their ability to attract capital." ${ }^{22}$

## Q. What is your response to Dr. Woolridge in that regard?

A. The Moody's article makes clear that utilities' cash flow have benefited from increased deferred taxes, which are due to bonus depreciation. As Moody's noted, the rise in deferred taxes eventually will reverse. ${ }^{23}$ That may be one reason that the Moody's study refers to "near-term credit profiles"; in the longer-term, utilities will not have the benefits of bonus depreciation to offset lower authorized returns.

See, Direct Testimony of J. Randall Woolridge, Exhibit JRW-11, at 5-6 and Morningstar, Inc., 2015 Classic Yearbook, at 157.
Direct Testimony of J. Randall Woolridge, at 66.
Ibid.
Moody's Investors Service, Lower Authorized Returns Will Not Hurt Near-Term Credit Profiles, March 10, 2015, at 4.

Moody's also observed that although interest rates remain at relatively low levels, they "will go up, eventually." When they do, Moody’s warns, "this could spell trouble for utilities." Moody's concludes, "[f]or now, utilities can enjoy their (historically) high equity valuations in terms of dividend yield and price-earnings ratios." ${ }^{24}$ That is, in March 2015, Moody's observed that the then-current valuations were unusual, and that some degree of reversion toward long-term means was likely. For the electric utility sector, that was the case, as the S\&P Electric Utility Index P/E ratio fell from 18.09 on February 1, 2015 to 15.40 on July 1, 2015. ${ }^{25}$ That observation is consistent with a point made earlier in my Rebuttal Testimony: unusually high $\mathrm{P} / \mathrm{E}$ ratios are unlikely to persist and, therefore, Dr. Woolridge's approach of giving primary weight to his Constant Growth DCF estimates should be viewed with considerable caution.

Dr. Woolridge further argues that the Moody's article supports the notion that elevated P/E ratios are a result of cost recovery mechanisms reducing utilities’ risk. ${ }^{26}$ As a preliminary matter, neither the article nor Dr. Woolridge provides any evidence or analysis to support the basis for the claim that cost recovery mechanisms have led to higher P/E multiples. To be clear, Moody's does not state that the cause of higher P/E multiples is cost recovery mechanisms. As stated in my Direct Testimony, the Federal Reserve’s monetary policy actions intentionally lowered long-term interest rates (another of the factors cited in the

Moody's article) and have affected utility P/E ratios. ${ }^{27}$ In any case, as noted above, electric utility P/E ratios declined by nearly 15.00 percent shortly after the Moody's article was published.

Nonetheless, if Dr. Woolridge is concerned that recovery mechanisms have supported, and will continue to support, elevated $\mathrm{P} / \mathrm{E}$ ratios, one method of addressing that position is to assume that the terminal value in the Multi-Stage DCF analysis is calculated on the basis of current P/E ratios. As discussed later in my Rebuttal Testimony, I therefore included the current 30-day average proxy group P/E ratio in the updated Multi-Stage DCF results. ${ }^{28}$

## Q. Do you have any concerns with Dr. Woolridge's belief that analysts' projections are consistently biased?

A. Yes, I do. Dr. Woolridge asserts that there is an upward bias in analysts' growth estimates and as such, "the DCF growth rate needs to be adjusted downward from the projected EPS growth rate." ${ }^{29}$ Dr. Woolridge argues that analysts' earnings growth estimates are "overly optimistic and upwardly biased," and that relying on such estimates is a methodological error. ${ }^{30}$ His position, however, is based on observations with respect to the broad market; Dr. Woolridge has provided no evidence that any of the growth rates used in our respective DCF analyses are the result of a consistent and pervasive bias on the part of the analysts providing those
projections. Despite his view that they are biased, Dr. Woolridge states that it was by "giving primary weight to the projected EPS growth rate of Wall Street analysts" that he arrived at his assumed growth rates. ${ }^{31}$

## Q. What is your response to Dr. Woolridge in that regard?

A. There is no reason to believe that the analyst growth rates used in our respective DCF analyses are biased. As a practical matter, the October 2003 Global Research Analyst Settlement required financial institutions to insulate investment banking from analysis, prohibited analysts from participating in "road shows," and required the settling financial institutions to fund independent third-party research. ${ }^{32}$ I have reviewed the Letters of Acceptance, Waiver and Consent signed by financial institutions that were party to the Global Settlement, and found no reference to misconduct by analysts following the utility sector.

Pursuant to Regulation AC, which became effective in April 2003, analysts must certify that "...the views expressed in the report accurately reflect his or her personal views, and disclose whether or not the analyst received compensation or other payments in connection with his or her specific recommendations or views." ${ }^{33}$ I understand that industry practice is to avoid conflicts of interest by ensuring that compensation is not directly or indirectly linked to the opinions

Ibid., at 52.
The 2002 Global Financial Settlement resolved an investigation by the U.S. Securities and Exchange Commission and the New York Attorney General's Office of a number of investment banks related to concerns about conflicts of interest that might influence the independence of investment research provided by equity analysts.
Securities and Exchange Commission, 17 CFR PART 242 [Release Nos. 33-8193; 34-47384; File No. S7-30-02], RIN 3235-AI60 Regulation Analyst Certification.
contained in those reports. Dr. Woolridge has not explained why any of the analysts covering our respective proxy companies would bias their projections in light of those certification requirements, or why investors would be more inclined to rely on his growth rate estimates than those of the analysts that base their projections on fundamental company-specific research.

## Q. Is the use of analysts' earnings growth projections in the DCF model

 supported by financial literature?A. Yes, it is. The relationship between various growth rates and stock valuation metrics has been the subject of much academic research. ${ }^{34}$ As noted over 40 years ago by Charles Phillips in The Economics of Regulation:

For many years, it was thought that investors bought utility stocks largely on the basis of dividends. More recently, however, studies indicate that the market is valuing utility stocks with reference to total per share earnings, so that the earnings-price ratio has assumed increased emphasis in rate cases. ${ }^{35}$

Subsequent academic research has clearly and consistently indicated that measures of earnings and cash flow are strongly related to returns, and that analysts' forecasts of growth are superior to other measures of growth in predicting stock prices. ${ }^{36}$ For example, Vander Weide and Carleton state that, "[our] results ... are consistent with the hypothesis that investors use analysts’ forecasts, rather than historically oriented growth calculations, in making stock

See, Harris, Robert, Using Analysts’ Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).
Charles F. Phillips, Jr., The Economics of Regulation, at 285 (Rev. ed. 1969).
See, e.g., Christofi, Christofi, Lori and Moliver, Evaluating Common Stocks Using Value Line’s Projected Cash Flows and Implied Growth Rate, Journal of Investing (Spring 1999); Harris and Marston, Estimating Shareholder Risk Premia Using Analysts’ Growth Forecasts, Financial Management, 21 (Summer 1992); and Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).
buy-and-sell decisions." ${ }^{37}$ Other research specifically notes the importance of analysts' growth estimates in determining the Cost of Equity, and in the valuation of equity securities. Dr. Robert Harris noted that "a growing body of knowledge shows that analysts’ earnings forecast are indeed reflected in stock prices."38 Citing Cragg and Malkiel, Dr. Harris notes that those authors "found that the evaluations of companies that analysts make are the sorts of ones on which market valuation is based." ${ }^{39}$ Similarly, Brigham, Shome, and Vinson noted that "evidence in the current literature indicates that (i) analysts’ forecasts are superior to forecasts based solely on time series data; and (ii) investors do rely on analysts' forecasts." ${ }^{40}$ In addition to the studies presented above, there have been other peer reviewed, published articles that specifically support the use of analysts’ earnings growth projections in the DCF model. ${ }^{41}$

Vander Weide and Carleton, Investor Growth Expectations: Analysts vs. History, The Journal of Portfolio Management (Spring 1988).
Robert S. Harris, Using Analysts’ Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).
Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rate of Return, Financial Management (Spring 1986).
Eugene F. Brigham, Dilip K. Shome, and Steve R. Vinson, The Risk Premium Approach to Measuring a Utility's Cost of Equity, Financial Management (Spring 1985).
See, for example, Robert S. Harris, Using Analysts' Growth Forecasts to Estimate Shareholder Required Rates of Return, Financial Management, 1986; Robert S. Harris, Felicia C. Marston, Estimating Shareholder Risk Premia Using Analysts' Growth Forecasts, Financial Management, Summer 1992, at 63; and Advanced Research Center, Investor Growth Expectations, Summer, 2004.
Q. Do you agree with Dr. Woolridge's assertion that "the DCF growth rate needs to be adjusted downward from the projected EPS growth rate to reflect the upward bias"? ${ }^{42}$
A. No, I do not. First, if current stock prices (and therefore the dividend yield) already reflect analysts' bias, it is unclear why it is necessary to adjust the growth rate. In addition, although Dr. Woolridge asserts that "...long-term EPS growth rate forecasts of Wall Street securities analysts are overly optimistic and upwardly biased" ${ }^{43}$ in general, he has not demonstrated that to be true for the electric companies in our proxy groups, in particular. To that point, I reviewed quarterly earnings presentations for several of the companies in Dr. Woolridge's proxy group and found that if anything, the analysts’ growth rate projections were toward the lower end of the long-term growth rate ranges provided by the companies' management teams (see Table 2, below). I therefore disagree that the earnings projections included in our respective analyses are likely to be systemically biased.

Direct Testimony of J. Randall Woolridge, at 50.
Ibid., at 76-77.

| Company | Ticker | Zacks <br> Earnings <br> Growth | First Call <br> Earnings <br> Growth | Value Line <br> Earnings <br> Growth | Investor <br> Presentation <br> Earnings Growth |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Alliant Energy Corporation | LNT | $6.10 \%$ | $6.60 \%$ | $6.00 \%$ | $5.00 \%-7.00 \%$ |
| Ameren Corporation | AEE | $6.10 \%$ | $5.20 \%$ | $6.00 \%$ | $5.00 \%-8.00 \%$ |
| American Electric Power <br> Company, Inc. | AEP | $4.90 \%$ | $4.10 \%$ | $4.00 \%$ | $4.00 \%-6.00 \%$ |
| Avista Corporation | AVA | $5.00 \%$ | $5.00 \%$ | $5.00 \%$ | $4.00 \%-5.00 \%$ |
| CMS Energy Corporation | CMS | $6.40 \%$ | $7.24 \%$ | $6.00 \%$ | $6.00 \%-8.00 \%$ |
| Eversource Energy | ES | $6.30 \%$ | $5.49 \%$ | $6.00 \%$ | $5.00 \%-7.00 \%$ |
| PNM Resources, Inc. | PNM | $7.60 \%$ | $8.76 \%$ | $9.00 \%$ | $7.00 \%-9.00 \%$ |
| SCANA Corporation | SCG | $5.30 \%$ | $5.40 \%$ | $4.50 \%$ | $4.00 \%-6.00 \%$ |
| Xcel Energy Inc. | XEL | $5.30 \%$ | $5.27 \%$ | $5.50 \%$ | $4.00 \%-6.00 \%$ |

Table 2: Analysts’ Earnings Growth Projections Relative to Management
Presentations ${ }^{44}$
Q. Do you agree with Dr. Woolridge that dividend and book value growth rates are appropriate measures of expected growth for the Constant Growth DCF model ${ }^{45}$
A. No, I do not. Earnings growth is the fundamental driver of the ability to pay dividends. As noted in my Direct Testimony, to reduce growth to a single measure we assume a fixed payout ratio, and a constant growth rate for EPS, DPS, and BVPS. ${ }^{46}$ Exhibit RBH-21 illustrates that under the strict assumptions of the Constant Growth DCF model, earnings, dividends, book value, and stock

Source: Zacks, Yahoo Finance, Value Line, and individual company first quarter 2016 earnings presentations and investor presentations. See, also, Anup Agrawal and Mark A. Chen, Do Analysts Conflicts Matter? Evidence from Stock Recommendations, Journal of Law and Economics, August 2008, at 503-537.
See, Direct Testimony of J. Randall Woolridge, at 45.
See Direct Testimony of Robert B. Hevert, at 27-28.
prices all grow at the same, constant rate in perpetuity. Because earnings are the fundamental driver of dividends, and knowing that investors tend to value common equity on the basis of Price/Earnings ratios, the Cost of Equity is a function of the expected growth in earnings, not dividends. That is, earnings growth enables both dividend and book value growth. Book value can increase over time only through the addition of retained earnings, or with the issuance of new equity. Both of those factors are derivative of earnings: retained earnings increases with the amount of earnings not distributed as dividends; and the price at which new equity is issued is a function of the EPS and the then-current P/E ratio. Similarly, earnings are the fundamental driver of a company's ability to pay dividends. ${ }^{47}$

In addition, Value Line is the only service on which Dr. Woolridge relies that provides DPS, BVPS, or sustainable growth projections. To the extent that the earnings projections services such as Zacks and First Call represent consensus estimates, the results are less likely to be skewed in one direction or another as a result of an individual analyst.

[^1]Q. Do you agree with Dr. Woolridge that historical growth rates are appropriate measures of expected growth for the Constant Growth DCF model? ${ }^{48}$
A. No, I do not. The growth component of the Constant Growth DCF model is a forward-looking measure. To the extent historical growth influences investors’ expectations of future growth, it already will be reflected in analysts' consensus earnings estimates. Carleton and Vander Weide, for example, found "overwhelming evidence that consensus analysts' forecast of future growth is superior to historically oriented growth measures in predicting the firm's stock price." ${ }^{49}$ Consequently, I do not believe that historical growth rates are appropriate for the Constant Growth DCF model.
Q. Have you conducted any analyses to determine which measures of growth are statistically related to the proxy companies' stock valuation levels?
A. Yes, I have. My analysis is based on the methodological approach used by Professors Carleton and Vander Weide, who compared the predictive capability of historical growth estimates and analysts' forecasts on the valuation levels of sixty-five utility companies. ${ }^{50}$ I structured the analysis to assess whether earnings, dividend, book value, or sustainable growth rates best explain utility stock valuations. In particular, my analysis examined the statistical relationship between the P/E ratios of the companies included in Dr. Woolridge's proxy group,

James H. Vander Weide and Willard T. Carleton, Investor Growth Expectations: Analysts vs. history, The Journal of Portfolio Management, Spring 1988. and the projected EPS, DPS, and BVPS reported by Value Line, and sustainable growth rate calculated using Value Line data. To determine which, if any, of those growth rates are statistically related to utility stock valuations, I performed a series of regression analyses in which the projected growth rates were explanatory variables and the $\mathrm{P} / \mathrm{E}$ ratio was the dependent variable. The results of those analyses are presented in Table 3, below.

Table 3: Regression Results- Price to Earnings and Growth Rates ${ }^{51}$

|  | Intercept | Coefficient | Standard <br> Error | T-Statistic | F-Statistic |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Scenario 1- <br> Projected EPS | 13.736 | 34.462 | 15.108 | 2.281 | 5.203 |
| Scenario 2- <br> Projected DPS | 16.778 | -21.296 | 14.886 | -1.431 | 2.047 |
| Scenario 3- <br> Projected BVPS | 14.629 | 22.832 | 39.329 | 0.581 | 0.337 |
| Scenario 4- <br> BR+SV Sustainable Growth | 15.138 | 11.442 | 40.453 | 0.283 | 0.080 |
| Scenario 5- | 15.283 | 41.198 <br> -26.857 <br> 37.759 <br> Projected EPS <br> Projected DPS <br> Projected BVPS <br> BR+SV Sustainable Growth | 17.400 <br> 14.974 <br> 42.387 <br> -50.037 | -1.399 <br> 0.891 <br> -1.130 | 2.454 |

In the first set of analyses (Scenarios 1-4), I considered each growth rate separately (i.e., I performed four separate regressions with P/E as the dependent variable and projected EPS, DPS, BVPS and the sustainable growth rate, respectively, as the independent variable). I also performed a single regression analysis that included all five variables as potential explanatory variables See, Exhibit RBH-22.
(Scenario 5). I then reviewed the T- and F-Statistics to determine whether the variables and equations were statistically significant. ${ }^{52}$

## Q. What did those analyses reveal?

A. The only growth rate that was statistically significant was Earnings Per Share. Because the DCF Model assumes that the current market value is a function of expected growth and, given that EPS growth is the only growth rate that is statistically related to electric utility valuation, earnings, not dividends or book value, is the proper measure of growth in the Constant Growth DCF Model.

## Q. Is it possible to replicate Dr. Woolridge's DCF analysis?

A. No. As noted above, Dr. Woolridge's analysis is based on his personal view as to what constitutes a reasonable long-term growth rate. Because different analysts may well come to different conclusions based on their review of his growth rate data, we cannot replicate Dr. Woolridge’s analyses.

## Q. Do you have any concerns with the projected analysts' EPS growth rates relied on by Dr. Woolridge?

A. Yes. In determining his projected analysts’ EPS growth rate, Dr. Woolridge includes negative growth projections. In doing so, Dr. Woolridge has implicitly assumed that investors would consider committing capital to a company that is expected to have negative growth, in perpetuity. As Exhibit RBH-23 demonstrates, eliminating negative growth rates from Dr. Woolridge's DCF

52 In general, a T-Statistic of 2.00 or greater indicates that the variable is likely to be different than zero, or "statistically significant." The F-Statistic is used to determine whether the model as a whole has statistically significant predictive capability.
analysis increases the mean projected EPS growth rate by 52 basis points. However, given that Dr. Woolridge's 4.88 percent growth rate is based on his personal judgment, it is difficult to say how removing negative growth rates would affect his analyses and recommendation.

## C. Application of Multi-Stage DCF Approach

## Q. Please briefly summarize Dr. Woolridge's observations regarding your Multi-Stage DCF analysis.

A. First, Dr. Woolridge does not appear to disagree with the structure of the model itself. For example, in his Exhibit JRW-9, page 1 of 2, Dr. Woolridge describes the "dividend discount model", which takes the same structure as my Multi-Stage DCF model. At page 41 of his Testimony, Dr. Woolridge explains that in the second, or "Transition" stage, the dividend payout ratio increases because there are fewer investment opportunities. The assumption of increasing payout ratios as capital investments decline also is consistent with my Multi-Stage analysis. Although the dividend discount model is consistent in structure with my model, Dr. Woolridge argues that the terminal growth rate (that is, the long-term growth rate in the third, or "terminal period") applied in my model is overstated. ${ }^{53}$
Q. Before responding to those points, please describe the Multi-Stage DCF model, and explain how the terminal growth rate is derived and applied.
A. As discussed in my Direct Testimony, the Multi-Stage DCF model enables analysts to model growth in three stages, rather than a single growth rate in

See, Direct Testimony of J. Randall Woolridge, at 77-82.
perpetuity (as the Constant Growth DCF model assumes). ${ }^{54}$ The terminal, or third stage growth rate, represents investors’ expectations for long-term (that is, perpetual) growth beginning in the third stage. Because the model assumes fiveyear periods for the first and second stage, the terminal stage (and, therefore, the terminal growth rate) begins in the eleventh year.

## Q. What is the basis of Dr. Woolridge's concern with your assumed long-term growth rate based on expected GDP growth?

A. Dr. Woolridge states that "nominal GDP growth in recent decades has slowed and that a figure in the range of $4.0 \%$ to $5.0 \%$ is more appropriate today for the U.S. economy." ${ }^{55}$ To support his position, Dr. Woolridge reviews average nominal GDP growth over periods of ten to 50 years, and concludes, "economic growth in the U.S. has slowed considerably in recent decades."56 As shown on Chart 1 (below), however, since 1990 (i.e., in "recent decades") the annual nominal growth rate in GDP has remained relatively stable, but for the period 2008 to 2012, which included the recent recession. Over that time, annual nominal GDP growth rates greater than 5.00 percent (the high end of Dr. Woolridge’s suggested range) occurred in twelve of 26 years; growth rates of at least 5.35 percent occurred in eleven of 26 years.

See, Direct Testimony of Robert B. Hevert, at 31-32.
Direct Testimony of J. Randall Woolridge, at 80.
Ibid., at 79.


Moreover, historical nominal GDP growth rates since 1960 reflect periods of differing inflation rates. For example, the real GDP growth rates in 1980 and 2008 were nearly identical at negative 0.24 percent and negative 0.29 percent, respectively. On a nominal basis, however, the growth rates were vastly different, at 8.75 percent and 1.66 percent. Knowing that inflation was significantly higher in the 1970s and early 1980s than it was in 2008, it is not surprising that nominal GDP rates are lower when viewed within the context of shorter term averages (i.e., over the last ten or twenty years as Dr. Woolridge has done).

In addition, as shown in Table 4 (below), the recent economic downturn has had a significant effect on the real GDP growth rate calculated over shorter periods.

Table 4: Average Real GDP Growth Rates ${ }^{58}$

| Average <br> Length | As Of <br> $\mathbf{2 0 1 5}$ | As Of <br> $\mathbf{2 0 0 7}$ |
| :---: | :---: | :---: |
| 10-Year Average | $1.41 \%$ | $3.04 \%$ |
| 20-Year Average | $2.41 \%$ | $3.07 \%$ |
| 30-Year Average | $2.60 \%$ | $3.12 \%$ |
| 40-Year Average | $2.83 \%$ | $3.14 \%$ |
| 50-Year Average | $2.89 \%$ | $3.38 \%$ |

As Table 4 demonstrates, prior to the recent recession the difference between the average GDP growth rates measured over varying time periods was minimal. Subsequent to the recession the differences have been quite large. Because I apply the long-term growth rate beginning ten years in the future, it would be inappropriate to give undue weight to short-term trends in the time series, as Dr. Woolridge suggests.

As to the inflation portion of the expected nominal growth rate, Dr. Woolridge does not seem to disagree with my expected inflation rate of 2.00 percent, as he noted that the current inflation is "in the $2 \%$ to $3 \%$ range." ${ }^{59}$ I also note that on page 85 of Dr. Woolridge's Direct Testimony, he provides the average growth rates (since 1960) for nominal GDP, the S\&P 500 Index, the S\&P 500 earnings per share, and the S\&P 500 dividends per share. The average of those measures is 6.42 percent, which is 107 basis points above the 5.35 percent long-term GDP growth rate estimate included in my Direct Testimony. The 6.42 percent average
growth rate noted above also is 22 basis points greater than the approximately 6.20 percent long-term nominal GDP growth rate reported by the Bureau of Economic Analysis. ${ }^{60}$ I therefore disagree with Dr. Woolridge's view that my assumed terminal growth rates are excessive.

## Q. Are there examples in financial literature that support your calculation of the long-term growth rate based on GDP?

A. Yes. The use of expected long-term GDP growth in the terminal period is consistent with practice and financial literature. ${ }^{61}$ Morningstar, a source on which Dr. Woolridge relies for Market Risk Premium estimates, describes an approach for calculating the long-term growth estimate that is similar to that which is included in my model. ${ }^{62}$ As with my approach, Morningstar's method combines the historical average real GDP growth rate with a measure of inflation calculated using the TIPS spread. ${ }^{63}$
Q. Does Dr. Woolridge provide any other data that supports your terminal growth rate assumption?
A. Yes, Dr. Woolridge cites to certain research to support his view that analysts' earnings estimates are "overly optimistic and upwardly biased," ${ }^{64}$ including a

Source: Bureau of Economic Analysis, June 28, 2016 update. Compound annual return from 1929 - 2015.

Dr. Roger Morin, for example, writes "[i]t is useful to remember that eventually all company growth rates, especially utility services growth rates, converge to a level consistent with the growth rate of the aggregate economy." See, Roger A. Morin, New Regulatory Finance, Public Utilities Report, Inc., 2006, at 308.
See, Ibbotson SBBI 2013 Valuation Yearbook, Morningstar, Inc., at 50-52.
Implied Expected Nominal GDP $=((1+$ Historical Real GDP Growth $) x(1+$ Implied Forward Inflation $))-1$, or 5.32 percent $=((1+3.24$ percent $) \times(1+2.02$ percent $))-1$.
Testimony and Exhibits of J. Randall Woolridge, at 49.

2010 report by McKinsey \& Company ("McKinsey"). ${ }^{65}$ The McKinsey report observes that "...long-term earnings growth for the market as a whole is unlikely to differ significantly from growth in GDP, as prior McKinsey research has shown." ${ }^{66}$ In a footnote to that sentence, McKinsey further states that "[r]eal GDP has averaged 3 to 4 percent over past (sic) seven or eight decades, which would indeed be consistent with nominal growth of 5 to 7 percent given current inflation of 2 to 3 percent." ${ }^{67}$ The McKinsey report therefore supports the terminal growth rate used in my Multi-Stage DCF model based on expected GDP; it represents the combination of historical real GDP growth and expected inflation, and is toward the lower end of the 5.00 percent to 7.00 percent range noted by McKinsey. ${ }^{68}$

## Q. What is your response to Dr. Woolridge's reference to GDP forecasts provided by the Survey of Professional Forecasters, the Energy Information Administration ("EIA"), and the Congressional Budget Office ("CBO")? ${ }^{69}$

A. In the case of the Survey of Professional Forecasters, as Dr. Woolridge points out, it relates to the 2016 to 2026 period. That is, it does not apply to the terminal period, which begins in 2026. As to the CBO and EIA forecast, those projections cover only fifteen years of a perpetual period, and represent forecasts from single

Equity Analysts: Still too bullish, McKinsey \& Company, McKinsey on Finance, Number 35, Spring 2010.
Ibid., at 16-17.
Ibid., at 17.
Please also note that consistent with the McKinsey approach, the terminal growth rate used in my Multi-Stage DCF model (see Exhibit RBH-14) is the product of real GDP growth (3.24 percent) and expected inflation ( 2.02 percent).
See, Direct Testimony of J. Randall Woolridge, at 80-81.
entities. As such, I do not agree that those sources invalidate the growth rate used in my analysis.

In addition, the CBO provides updates regarding its forecasting record. In that context, the CBO discusses comparisons to other forecasts, and notes that "[d]espite their value, comparisons of forecasting errors can be misleading when forecasts are made for different purposes." ${ }^{70}$ In essence, the CBO notes that comparisons to other forecasts are not always apt, at least in part because they may be based on different assumptions and used for different purposes. Moreover, the CBO states that it is required to assume that future fiscal policy will reflect current law, so that it may "provide a benchmark" against which proposed changes in law may be assessed. ${ }^{71}$ Given that purpose and structure, I disagree that the CBO's forecast invalidates the growth rate used in my MultiStage DCF analysis.

The CBO also notes that among its two-year forecasts (since the early 1980's), the forecast error for "real output growth" and inflation (measured by the Consumer Price Index) has been 1.40 percentage points, and 0.80 percentage points,

CBO's Economic Forecasting Record: 2015 Update, February 2015, at 4-5.
"In particular, forecasters in the private sector attempt to predict the future stance of federal fiscal policy, and the Administration's forecasts assume the adoption of the fiscal policy reflected in the President's proposed budget. CBO, however, is required to assume that fiscal policy in the future will generally reflect the provisions in current law, an approach that derives from the agency's responsibility to provide a benchmark for lawmakers as they consider proposed changes in law. Forecasting errors may be driven by those different assumptions, particularly when policymakers are considering major changes in the fiscal policy embedded in current law."
respectively. ${ }^{72}$ That range of error, if applied to the 4.30 percent long-term CBO forecast noted by Dr. Woolridge, suggests that the 5.35 percent rate applied in my Direct Testimony is within the range of the CBO's projections. ${ }^{73}$


#### Abstract

Q. Do you have any other observations regarding Dr. Woolridge's position that you should rely on economists' forecasts of real GDP growth beginning ten years in the future? A. Yes, I do. Dr. Woolridge is quite critical of economists' projections of interest rates, noting that in hindsight, they often are incorrect. ${ }^{74}$ At the same time, he is critical of the fact that I do not rely on economists' real GDP growth rate projections. ${ }^{75}$ Putting aside the fact that the Multi-Stage DCF model requires forecasts beginning ten years from now, not as of the present, Dr. Woolridge does not explain why economists' near-term interest rate projections are improper, but their long-term real GDP growth rate projections are sound.


Q. Did you perform any analyses in response to Dr. Woolridge's contention that the currently elevated $P / E$ ratios are expected to continue?
A. In response to Dr. Woolridge's assumption that current $\mathrm{P} / \mathrm{E}$ ratios will persist in perpetuity, I also have included a series of Multi-Stage DCF analyses that assume

CBO’s Economic Forecasting Record: 2015 Update, February 2015, at 1.
As to the use of expected inflation, I note that the TIPS spread has been affected by low levels of inflation, which likely are affected by recently low oil prices. As noted at page 30 of the Federal Reserve’s February 2016 Monetary Policy Report, "Inflation is expected to remain low in the near term, in part because of recent further declines in energy prices, but to rise to 2 percent over the medium term as the transitory effects of declines in energy and import prices dissipate and the labor market strengthens further."
See, Direct Testimony of J. Randall Woolridge, at 16-18.
The Philadelphia Federal Reserve publishes the list of economists that provide forecasts with attribution. See http://www.frbsf.org/economic-research/publications.
that the current $\mathrm{P} / \mathrm{E}$ ratio will remain in place by calculating the terminal value in the Multi-Stage DCF analysis on the basis of the Combined Proxy Group's current 30-day average P/E ratio. The results of my Multi-Stage DCF analyses are shown on Table 10 in Section IX (see also, Exhibit RBH-14).

## D. Application of the CAPM

## Q. Please briefly describe Dr. Woolridge's CAPM analysis and results.

A. Dr. Woolridge's CAPM analyses produce an estimated Cost of Equity of 7.90 percent to 8.10 percent. ${ }^{76}$ Although Dr. Woolridge relies primarily on his DCF analysis, he also considers his CAPM results in determining what he considers an appropriate range of the Company's Cost of Equity. ${ }^{77}$ As with Dr. Woolridge's DCF results, I strongly disagree that a CAPM result of 7.90 percent to 8.10 percent is a reasonable estimate of the Company's ROE. As discussed below, Dr. Woolridge's unduly low CAPM estimates primarily are the result of his estimated Market Risk Premium.

## Q. Please describe how Dr. Woolridge calculates his Market Risk Premium estimate.

A. Dr. Woolridge reviews a series of studies that calculate the MRP using different methodologies; he also considers the results of his "Building Blocks" approach.

See, Direct Testimony of J. Randall Woolridge, Exhibit JRW-11, at 1.
See, Direct Testimony of J. Randall Woolridge, at 63.

Based on those reviews, Dr. Woolridge concludes that the MRP ranges from 4.00 percent to 6.00 percent and, within that range, 5.50 percent is reasonable. ${ }^{78}$

## Q. Does Dr. Woolridge express any concerns regarding your CAPM analysis?

A. Dr. Woolridge's principal disagreement with my CAPM analysis involves the Market Risk Premium component of the model. As to my use of expected market returns, Dr. Woolridge states that the result is "inflated due to errors and bias in [my] study." ${ }^{39}$ Dr. Woolridge also points to the long-term EPS growth rates for the S\&P 500 based on the data from Bloomberg and Value Line, respectively, ${ }^{80}$ and notes that they "are not consistent with historic or projected economic and earnings growth." ${ }^{81}$ In support of his position that the expected market return included in my CAPM analysis is overstated, Dr. Woolridge cites two surveys: the Duke Chief Financial Officers ("CFO") survey, and the Philadelphia Federal Reserve Survey of Professional Forecasters. ${ }^{82}$

## Q. What is your response to Dr. Woolridge on those points?

A. First, by referring to the survey by the Federal Reserve Bank of Philadelphia, Dr. Woolridge suggests that my estimated market return is inconsistent with those used by professional forecasters. ${ }^{83}$ On reviewing that survey, I note that only 18 of 40 survey participants responded to the question regarding the expected return

[^2]for the S\&P 500 over the next ten years. ${ }^{84}$ Similarly, 26 of 40 responded to the question regarding expected return on ten-year Treasury bonds. Because a considerable portion of the survey respondents did not answer those questions, it is difficult to have confidence that the estimates represent the market's expected total return.

Even if all 40 economists provided expected market returns and Treasury yields, as noted earlier Dr. Woolridge gives economists' interest rate projections little weight, going so far as to note that in a Bloomberg survey, " $100 \%$ of the economists were wrong." ${ }^{85}$ Yet, Dr. Woolridge gives economists' forecasts of market returns and interest rates considerable weight in supporting his expected Market Risk Premium.

As to the Duke CFO survey, Dr. Woolridge’s 8.75 percent ROE recommendation, which applies to a company that is less risky than the overall market, ${ }^{86}$ is 245 basis points above the expected market return suggested by the survey results. If the survey were a reasonable method of determining the expected market return, Dr. Woolridge's ROE recommendation would be no higher than 6.30 percent. ${ }^{87}$ Moreover, as shown in Table 5 below, the survey respondents have provided estimates that, on average, significantly underestimated actual market returns.

See, Federal Reserve Bank of Philadelphia, Survey of Professional Forecasters, First Quarter of 2016, at 17.
Direct Testimony of J. Randall Woolridge, at 16. [emphasis included]
Dr. Woolridge and I agree that Beta coefficients for our proxy companies are less than 1.0. 6.30 percent equals the expected market return suggested by the Duke CFO survey.

Table 5: S\&P 500 Market Return: Accuracy of Survey Estimates ${ }^{88}$

|  | Actual | Graham <br> Harvey <br> Estimate |
| ---: | :---: | :---: |
| 2015 | $1.38 \%$ | $6.07 \%$ |
| 2014 | $13.69 \%$ | $5.00 \%$ |
| 2013 | $32.39 \%$ | $3.40 \%$ |
| 2012 | $16.00 \%$ | $4.00 \%$ |
| 2011 | $2.11 \%$ | $5.30 \%$ |
| 2010 | $15.06 \%$ | $6.28 \%$ |
| Average | $13.44 \%$ | $5.01 \%$ |

Further, the Duke CFO Survey authors have noted a distinction between the expected market return on one hand, and the hurdle rate on the other. In prior surveys, the hurdle rate was significantly higher than the expected market return. For example, the authors' survey showed that the reported average hurdle rate, which is the return required for capital investments, was above 13.00 percent. ${ }^{89}$ The author further reported that the Weighted Average Cost of Capital ("WACC") exceeded the expected market return, even though the WACC includes the cost of debt. For example, in 2012 the reported WACC was 9.30 percent even though the expected market return was 6.00 percent. ${ }^{90}$ Dr. Woolridge's reference to the 4.55 percent expected Market Risk Premium, which relies on the survey's expected market return, therefore should be given little weight.

[^3]Q. Do any of the authors cited in Woolridge's Equity Risk Premium survey provide support for your approach to estimating the current MRP?
A. Yes. A study by Pablo Fernandez titled "Market Risk Premium used in 71 countries in 2016: a survey with 6,932 answers" discusses how the required Equity Risk Premium is commonly calculated using a Constant Growth DCF approach. ${ }^{91}$ That study states:
[t]he [implied equity premium] is the implicit [required equity premium] used in the valuation of a stock (or market index) that matches the current market price. The most widely used model to calculate the [implied equity premium] is the dividend discount model: the current price (P0) is the present value of expected dividends discounted at the required rate of return (Ke). If d1 is the dividend per share expected to be received in year 1 , and $g$ the expected long term growth rate in dividends per share:
$$
\mathrm{P}_{0}=\mathrm{d}_{1} /(\mathrm{Ke}-\mathrm{g}) \text {, which implies: }
$$
$$
\text { [implied equity premium] }=\mathrm{d}_{1} / \mathrm{P}_{0}+\mathrm{g}-\mathrm{R}_{\mathrm{f}}^{92}
$$

As discussed in my Direct Testimony, I calculated the ex-ante MRP in a similar manner using a market capitalization weighted Constant Growth DCF calculation on the individual companies in the S\&P 500 Index.

Dr. Woolridge cites Pablo Fernandez’s research; see Direct Testimony of J. Randall Woolridge, Exhibit JRW-11, at 5.
Pablo Fernandez, Alberto Ortiz, and Isabel Fernandez Acín, Market Risk Premium used in 71 countries in 2016: a survey with 6,932 answers, IESE Business School, at 10.

## Q. Do you have any other observations regarding Dr. Woolridge's Equity Risk Premium estimates?

A. Yes. Many of Dr. Woolridge's Equity Risk Premium estimates assume market returns nearly equal to, or below the Company's required return and as such, do not make either theoretical or practical sense. For example, Exhibit JRW-11, page 5 of 6 indicates that the average estimated Equity Risk Premium over all the articles included in the survey is 4.64 percent. Combining that estimate with Dr. Woolridge's 4.00 percent estimated Risk-Free Rate (Exhibit JRW-11, page 1 of 6) produces an estimated market return of 8.64 percent, which is 11 basis points below Dr. Woolridge's 8.75 percent recommendation.

Dr. Woolridge observes that "...a regulated public utility is less risky than the market," and should have a Beta coefficient less than 1.0. ${ }^{93}$ Because his implied 8.64 percent market return is below his 8.75 percent ROE recommendation, its relevance to investors' actual required returns is questionable. Even focusing on studies from the 2010 to 2015 period (Exhibit JRW-11, page 6 of 6), the expected market return would be approximately 8.92 percent, which is only 17 basis points above Dr. Woolridge’s 8.75 recommendation for FPL. Because such important elements of his CAPM analyses contradict each other, Dr. Woolridge's CAPM results are not reliable.
Q. Turning to Dr. Woolridge's position that the EPS growth rates used to develop your estimated market return are too high, did you consider where your estimates fall within the range of historical observations?
A. Yes, I gathered the annual capital appreciation return on Large Company Stocks reported by Morningstar for the years 1926 through 2015, produced a histogram of those observations, and calculated the probability that a given capital appreciation return estimate would be observed. The results of that analysis, which are presented in Chart 2 (below), demonstrate that capital appreciation rates of 9.87 percent to 10.68 percent and higher actually occurred quite often. ${ }^{94}$

Chart 2: Frequency Distribution of Observed Capital Appreciation Rates
$1926-2015^{95}$


Under the Constant Growth DCF model's assumptions, the growth rate equals the rate of capital appreciation.
Source: Morningstar, Inc., 2016 Morningstar Stocks, Bonds, Bills and Inflation, Table A-3.

In fact, the growth rates Dr. Woolridge asserts are "overstated" by historical standards represent approximately the $49^{\text {th }}$ to $51^{\text {st }}$ percentile of the actual capital appreciation rates observed from 1926 to 2015.

Lastly, under the sustainable growth model, if the retention ratio is higher now than it historically has been, there would be reason to believe that expected growth rates would be higher than historical growth rates. To determine whether that has been the case, I calculated the annual retention ratio from 1926 to 2015 using earnings and dividends data published by Dr. Robert J. Shiller. As shown in Chart 3 (below), that data indicates the S\&P 500 earnings retention has trended upward over time, and is currently well above its historical average. Consequently, the sustainable growth model included in Dr. Woolridge's DCF analysis suggests that the future growth of the S\&P 500 could outpace its historical growth.

Chart 3: S\&P 500 Annual Earnings Retention Ratio, 1926-2015 ${ }^{96}$


## E. Bond Yield Plus Risk Premium Analysis

Q. Please summarize Dr. Woolridge's response to your Bond Yield Plus Risk Premium analysis.
A. Dr. Woolridge believes that the Risk Premium derived from the analysis is "inflated" and "is a gauge of commission behavior and not investor behavior."97 Dr. Woolridge further observes that my Risk Premium approach and results "reflect other factors used by utility commissions in authorizing ROEs in addition to capital costs." ${ }^{98}$ In particular, Dr. Woolridge points to a potential discrepancy between settled and litigated cases. ${ }^{99}$ In addition, Dr. Woolridge reasons that the analysis overstates the actual ROE, because the estimated risk premium is based

Ibid.
on historical Treasury yields, whereas the model is applied to current and expected yields. ${ }^{100}$
Q. What is your response to Dr. Woolridge's position that the Risk Premium analysis is a study of utility commissions' behavior, rather than investor behavior?
A. Those cases, and their associated decisions, reflect the same type of market-based analyses at issue in this proceeding. Moreover, given that authorized returns are publicly available, it is difficult to imagine that such data is not reflected, at least to some degree, in investors' return expectations and requirements (American Electric Power, one of Dr. Woolridge's proxy companies, discloses authorized returns, by jurisdiction, in its 2015 SEC Form 10-K). Consequently, it is reasonable to assume that authorized returns are a reasonable (although not the only) measure of investor-required returns.
Q. What is your response to Dr. Woolridge's statement that your analysis applies an historical risk premium to projected rates and as such, overstates the Cost of Equity? ${ }^{101}$
A. I applied both historical and projected interest rates to the regression coefficients developed in my Risk Premium analysis, not to an average historical risk premium. As discussed in my Direct Testimony, the regression coefficients specifically recognize that as interest rates increase the Equity Risk Premium

Direct Testimony of J. Randall Woolridge, at 89-91.
decreases. ${ }^{102}$ A consequence of that relationship is that interest rates and the Cost of Equity generally move in the same direction, although not on a one-to-one basis. As projected interest rates increase, the Cost of Equity also will increase, but not to the same degree. Dr. Woolridge's concern that I have applied projected interest rates to an historical risk premium is misplaced in that (1) my analysis does not rely on an historical risk premium; and (2) because the estimated risk premium does not increase in lock step with interest rates, the resulting ROE estimate does not overstate the Cost of Equity.

## Q. What is your response to Dr. Woolridge's position that your Risk Premium analysis must take into consideration the specific aspects of this proceeding relative to all others? ${ }^{103}$

A. First, every case has its unique set of issues and circumstances; there is no disagreement on that point. Looking at over 1,000 cases over many economic cycles, and using that data to quantify the relationship between the Equity Risk Premium and interest rates, mitigates that concern. I do agree, however, that the Risk Premium model results should be considered an industry average ROE estimate. To the extent FPL equity investors face incremental risks, its ROE should be adjusted.
Q. Do you believe that it is a concern, as Dr. Woolridge states, to include both fully litigated and settled rate cases in your Risk Premium analysis? ${ }^{104}$
A. No, I do not. Of the rate cases in my Risk Premium analysis, 373 were settled and 1,102 were fully litigated. More recently (from 2012 through June 2016), 75 cases were litigated and 84 were settled. The difference in average authorized returns between the two, however, was only three basis points. Equally importantly, and as illustrated on Exhibit RBH-24, the same inverse relationship between interest rates and the Equity Risk Premium is present whether the analysis includes fully litigated rate cases, settled rate cases, or both. I therefore disagree with Dr. Woolridge's concern that the distinction between settled and litigated cases is meaningful.
Q. Are authorized returns in other jurisdictions a relevant benchmark in assessing the reasonableness of ROE estimates and recommendations?
A. Yes, they are. It is important to recognize that in establishing their return requirements, investors consider a broad range of data, including returns authorized in other jurisdictions. Equity investors have many options available to them, and allocate their capital based on the expected risks and returns associated with those alternatives. Given that investors consider such data in framing their investment decisions, return recommendations that materially depart from observed industry norms - such as such as Dr. Woolridge's 8.75 percent recommendation - should be supported by clear and unambiguous reasons.

I also disagree with Dr. Woolridge’s position that authorized returns are not meaningful because they are measures of "commission behavior" as opposed to measures of investors' return expectations. ${ }^{105}$ There is no reason to believe that other regulatory commissions do not consider the same type of market-related factors at issue in this proceeding. Nor is there reason to assume that investors dismiss authorized returns in establishing their return expectations. Rather, the fact that companies such as American Electric Power - one of Dr. Woolridge's proxy companies - report authorized returns in their annual Securities Exchange Commission Form 10-K indicates that they are quite relevant to investors.

The implications of not reconciling his ROE recommendation with authorized returns are particularly acute given that Dr. Woolridge's conclusion is based principally on his application of a single model for which his inputs are quite subjective, his results cannot be replicated, and whose underlying assumptions are incompatible with prevailing market conditions.

## Q. What is your response to Dr. Woolridge's statement that the current norm is for utility commissions to authorize ROEs below $\mathbf{1 0 . 0 0}$ percent?

A. First, from January 2014 through June 2016, utility commissions have authorized ROEs of 10.00 percent or higher for 12 vertically integrated electric utilities. None, however, has authorized a return as low as 8.75 percent. ${ }^{106}$ Second, although Dr. Woolridge acknowledges that his recommendation is "below the

Source: SNL Financial, excluding formula-based rate plans and limited issue riders.
average authorized ROEs for electric companies," ${ }^{107}$ the lowest authorized ROE for a vertically integrated electric utility since January 2014 was 55 basis points above Dr. Woolridge's 8.75 percent recommendation. Here again, Dr. Woolridge's conclusions are incompatible with observable market data.

## F. Market-To-Book Ratios and the Cost of Equity

## Q. Please briefly summarize Dr. Woolridge's position regarding the relationship between Market/Book ratios and the Cost of Equity.

A. Dr. Woolridge suggests that M/B ratios in excess of unity indicate that the subject company's earned Return on Equity exceeds its Cost of Equity. ${ }^{108}$ In support of that position, Dr. Woolridge provides a series of three regression analyses reflecting the relationship between the Return on Equity and $\mathrm{M} / \mathrm{B}$ ratios for electric, natural gas, and water utilities, respectively. Because the Coefficient of Determination (sometimes referred to as the " $\mathrm{R}^{2}$ ") ranges from 77.00 percent in the case of electric utilities, to 56.00 percent in the case of natural gas utilities, Dr. Woolridge concludes that "there is a strong positive relationship" between M/B ratios and the ROE for utilities. ${ }^{109}$

## Q. What is your response to Dr. Woolridge on those points?

A. First, it is important to note that the M/B ratio equals the market value (or stock price) per share, divided by the total common equity (or the book equity) per share. Book value per share is an accounting construct, which reflects historical
costs. In contrast, market value per share (i.e., the stock price) is forwardlooking, and a function of many variables, including (but not limited to) expected earnings and cash flow growth, expected payout ratios, measures of "earnings quality", the regulatory climate, the equity ratio, expected capital expenditures, and the earned return on common equity. ${ }^{110}$ As discussed below, because the numerator (market value per share) and the denominator (book value per share) are a function of different variables, M/B ratios over 100.00 percent do not demonstrate that regulatory commissions have consistently authorized returns in excess of the true Cost of Equity. To put the issue in context, the $\mathrm{M} / \mathrm{B}$ ratio for the companies in the Dow Jones Utility Index, as well as Dr. Woolridge’s proxy group have been well in excess of 1.00 since at least 2000 (see Chart 4, below).

See, for example, Roger A. Morin, New Regulatory Finance, Public Utility Reports, Inc., 2006, at 366. Please note that Dr. Morin cites several academic articles that address the various factors that affect the $\mathrm{M} / \mathrm{B}$ ratio for utilities. In addition, the notion that book values should be set at a value approaching unity by regulatory commissions has been refuted for many years. As noted by Stewart Myers in 1972: "In short, a straightforward application of the cost of capital to a book value rate base does not automatically imply that market and book values will be equal. This is an obvious but important point. If straightforward approaches did imply equality of market and book values, then there would be no need to estimate the cost of capital. It would suffice to lower (raise) allowed earnings whenever markets were above (below) book." Stewart C. Myers, The Application of Finance Theory to Public Utility Rate Cases, The Bell Journal of Economics and Management Science, Vol. 3, No. 1 (Spring 1972), at 76.


In the context of rate-setting, the $\mathrm{M} / \mathrm{B}$ ratio often is discussed relative to the Constant Growth DCF model. Under certain restrictive assumptions, that model can be rewritten to express the $\mathrm{M} / \mathrm{B}$ ratio as follows:

$$
\frac{M}{B}=\frac{R O E-G}{k e-G} \text { Equation [1] }
$$

where $R O E$ is the return on book equity, $k_{e}$ is the risk-adjusted discount rate, and $G$ is the long-term growth rate in dividends per share. Taking Equation [1] at face value, if M/B exceeds unity, then ROE exceeds $k_{e}$. Branch et al. point out that $M / B$ is generally greater than or equal to one because the value of the firm as a going concern (price per share) generally exceeds the liquidation value (book value per share) and "...firms having going concern values greater than their
liquidation values (most firms) and firms having finite prices (all firms) should have $R O E>k_{e}>G .{ }^{112}$

Any inferences drawn as to the relationship among $\mathrm{M} / \mathrm{B}, R O E$, and $k_{e}$ from Equation [1] rely on the acceptance of all assumptions of the Constant Growth DCF model. Equally important, Equation [1] only can be solved from the Constant Growth DCF model if we further assume: (1) a constant dividend payout ratio in perpetuity; (2) no stock issuances or repurchases; and (3) that the firm is in a steady state, in which the book equity growth rate equals the dividend growth rate. Taken together, those assumptions are quite restrictive, and call into question a definitive linkage between $\mathrm{M} / \mathrm{B}, R O E$, and $k_{e}$.

As Dr. Morin states, it is rarely the case in cost of service-based regulation that M/B ratios equal 1.00:

The third and perhaps most important reason for caution and skepticism is that application of the DCF model produces estimates of common equity cost that are consistent with investors’ expected return only when stock price and book value are reasonably similar, that is, when the $M / B$ is close to unity. As shown below, application of the standard DCF model to utility stocks understates the investor's expected return when the market-to-book (M/B) ratio of a given stock Journal of Applied Finance, November 1, 2014, at 78.
exceeds unity. This was particularly relevant in the capital market environment of the 1990s and 2000s where utility stocks were trading at $\mathrm{M} / \mathrm{B}$ ratios well above unity and have been for nearly two decades. The converse is also true, that is, the DCF model overstates the investor's return when the stock's M/B ratio is less than unity. The reason for the distortion is that the DCF market return is applied to a book value rate base by the regulator, that is, a utility's earnings are limited to earnings on a book value rate base. ${ }^{113}$ Because the Constant Growth DCF model traditionally used in rate regulation assumes a $\mathrm{M} / \mathrm{B}$ of unity, it would understate investors' required return rate when market value exceeds book value. It would do so because investors evaluate and receive their returns on the market value of a utility's equity, whereas regulators authorize returns on book common equity. Consequently, the market-based DCF model will result in a total annual dollar return on book common equity equal to the total annual dollar return expected by investors only when market and book values are equal, a rare and unlikely situation.

In essence, M/B ratios in excess of unity simply means that the firm is worth more as a going concern than the book value of its assets. If Dr. Woolridge is of the view that $\mathrm{M} / \mathrm{B}$ ratios in excess of unity reflect earned returns in excess of the Cost of Equity, it would follow that he also is of the view that utility commissions have
been consistently authorizing returns in excess of the Cost of Equity for at least the last fifteen years. Since Dr. Woolridge does not provide any additional support for his position beyond the general observation that M/B ratios for electric utilities have been greater than 100.00 percent, I disagree with that conclusion.

Lastly, although the earned Return on Equity may be one factor explaining M/B ratios, it is not the only factor. If it were, the regression equations presented in Exhibit JRW-6 would produce reasonable ROE estimates when the M/B ratio equals unity.

## Q. In that regard, have you reviewed the ROE and $\mathrm{M} / \mathrm{B}$ ratio data provided in Exhibit JRW-6?

A. Yes, I have reproduced the chart contained in Exhibit JRW-6, Panel A (Electric Companies), including the regression coefficients, in Chart 5 (below).

Based on that data, an M/B ratio of 1.00 is associated with an ROE of 5.36 percent. ${ }^{115}$ That estimate is only about 75 basis points above the Company's cost of debt (i.e., 4.62 percent). In other words, for the $\mathrm{M} / \mathrm{B}$ ratio to equal 1.00 , the Cost of Equity would be nearly equal to the cost of debt, a condition that is highly improbable. Dr. Woolridge's own data therefore do not support his theory that ROEs in excess of unity indicate that the subject company's return exceeds investors' required returns.

Source: Value Line. Note that as with Dr. Woolridge's Exhibit JRW-6, Panel A, my analyses include 42 observations and produce an $\mathrm{R}^{2}$ of approximately 0.77 . $1.00=-0.245+(5.36$ percent $\times 0.232)$.

## Q. Have you analyzed whether the actual earned Return on Equity explains the M/B ratios for Dr. Woolridge's proxy group?

A. Yes, I have. Based on data from SNL Financial, I performed a regression analysis in which the $\mathrm{M} / \mathrm{B}$ ratio was the dependent variable, and the most recent twelvemonth Return on Average Common Equity ("ROACE") was the explanatory variable. As shown in Exhibit RBH-25, the $\mathrm{R}^{2}$ was approximately 48.00 percent (the coefficients and equation were statistically significant). Thus, other factors explain up to 52.00 percent of M/B ratios for Dr. Woolridge's proxy group. ${ }^{116}$ Those results support the position that although the earned return on equity is a factor that explains $\mathrm{M} / \mathrm{B}$ ratios, it is not the only factor. In any case, the regression equation indicates that a $\mathrm{M} / \mathrm{B}$ ratio of 1.00 is associated with a Return on Common Equity of 2.29 percent; an M/B ratio of 1.10 relates to an ROACE of 3.27 percent. Because those estimates are far below the Company's 4.62 percent cost of debt, I do not agree that $\mathrm{M} / \mathrm{B}$ ratios in excess of unity demonstrate earnings in excess of investors' requirements.

## Q. Do you have any other points regarding this issue?

A. Yes. It is important to keep in mind that, like P/E multiples, $\mathrm{M} / \mathrm{B}$ ratios tend to be used in practice as measures of relative, rather than absolute valuation. That is, investors often use $\mathrm{M} / \mathrm{B}$ ratios to value an individual company based on the average $\mathrm{M} / \mathrm{B}$ ratio of its peers. Such "market comparable" approaches to valuation are useful because no one financial model is accepted as the true measure of value at all times and under all conditions.

$$
0.52=(1-0.48)
$$

## G. Relative Risk

## Q. Do you believe that credit ratings are an appropriate measure to determine

 the equity risk of FPL relative to the proxy group?A. Although I agree that in general, credit ratings, and by extension credit spreads, are directionally related to the Cost of Equity, ${ }^{117}$ I do not agree that changes in one is a direct measure of changes in the other. Debt and equity are different securities with different risk/return characteristics, different lives, and different investors. To that point, debt investors have a contractual, priority claim on cash flows not available to equity investors and as such, equity investors bear the residual risk of ownership. Moreover, because the life of debt is finite, debt investors' exposure to business and financial risk likewise is finite. Equity, on the other hand is perpetual and as such, equity investors are exposed to residual risk in perpetuity. Because debt and equity are distinct securities with different risk and return profiles, debt and equity investors themselves have different risk and return requirements. As such, any inferences drawn from credit ratings for the Company's Cost of Equity should be drawn with caution.

A visible measure of the distinction of the risks to which debt and equity investors are exposed is the difference in their respective Beta coefficients. Although I disagree with his application of the CAPM, Dr. Woolridge recommends average

Beta coefficients of 0.70 and 0.75 for our respective proxy groups. ${ }^{118}$ Duff \& Phelps notes that as of December 2015, Beta coefficients for A-rated debt was negative $.07{ }^{119}$. That is, the Beta coefficients of A-rated debt are well below those of the equity Beta coefficients assumed by Dr. Woolridge. In fact, debt Beta coefficients in the range of .31 to .61 are associated with Ba and B rated debt, both of which are considered to be below investment grade. ${ }^{120}$ Those differences are a clear indication that the risks assumed by debt investors are far different than those assumed by equity investors.
Q. Did you perform any analyses to determine whether Dr. Woolridge's data supports the assumption that there is a quantifiable difference in the Cost of Equity for companies with different bond credit ratings?
A. Yes, I did. I first produced Constant Growth DCF results for each of the comparison companies using the growth rates and dividend yields reported by Dr. Woolridge. I then applied "credit scores" to Dr. Woolridge’s comparison companies by converting the S\&P bond ratings reported in his Direct Testimony to a numerical value. If there is a quantifiable relationship between the proxy companies' credit ratings and Cost of Equity, there should be a positive, statistically significant relationship between the credit score and the DCF results. That is, as credit quality deteriorates (resulting in a higher score), the Cost of Equity should increase. I therefore performed a regression analysis, in which the
dependent variable was the DCF result, and the explanatory variable was the credit score. As shown in Exhibit RBH-26, the regression analysis showed no statistically significant statistical relationship between the two. In fact, the Rsquared of the regression was only about 2.20 percent, which indicates that credit ratings accounted for only 2.20 percent of the change in the DCF-estimated Cost of Equity.

## H. Flotation Costs

## Q. Did Dr. Woolridge address the issue of flotation costs in his direct testimony?

A. Yes, Dr. Woolridge devotes several pages of his testimony discussing various reasons why he believes such an adjustment is not necessary. ${ }^{121}$ Dr. Woolridge does not account for flotation costs, reasoning that flotation costs for stock issuances are not out-of-pocket costs and, even if they were, current market conditions suggest that a reduction to the Cost of Equity is required to account for flotation costs. ${ }^{122}$

## Q. Please respond to Dr. Woolridge in that regard.

A. First, I disagree with Dr. Woolridge's position that flotation costs for stock issuances are different than issuance costs associated with long-term debt. Companies pay the same types of fees (both direct and indirect) regardless of whether they are issuing equity or debt. As to Dr. Woolridge's observation that

See, Direct Testimony of J. Randall Woolridge, at 91-93.
Ibid.
underwriter fees are not "out-of-pocket" expenses, ${ }^{123}$ I view that to be a distinction without a meaningful difference. Whether paid directly or via an underwriting discount, the cost results in net proceeds that are less than the gross proceeds.

I also disagree with Dr. Woolridge's position that flotation costs could represent a reduction in Cost of Equity. Flotation costs are true and necessary costs to the issuer, and represent funds that otherwise would be invested in long-lived assets. As explained in my Direct Testimony, to the extent flotation costs are not recovered, the issuing company is denied a portion of the opportunity to earn its expected (or required) return. ${ }^{124}$

I have provided an illustrative example of the effect of flotation costs on the ROE in Exhibit RBH-27. ${ }^{125}$ As shown in that schedule, due to the effect of flotation costs, an authorized return of 11.15 percent would be required to realize an ROE of 11.00 percent (i.e., a 15 basis point flotation cost adjustment). If flotation costs are not recovered, the growth rate falls and the ROE decreases to 10.85 percent (i.e., below the required return). ${ }^{126}$

Ibid., at 92.
See, Direct Testimony of Robert B. Hevert, at 47.
This example is based on an analysis performed by Dr. Roger Morin. See, Roger A. Morin, New Regulatory Finance, Public Utility Reports, Inc., 2006, at 330-332.
Exhibit RBH-27 is provided for illustrative purposes only. I have not relied on the results of the analysis in determining my recommended ROE and range.

## I. Capital Structure

## Q. Please summarize Dr. Woolridge's position on the Company's capital structure.

A. I disagree with Dr. Woolridge's conclusion that the Company's capital structure suggests less financial risk than the proxy companies. ${ }^{127}$ To support his conclusion, Dr. Woolridge compares the Company's capital structure to the capital structures in place at the holding company level. As discussed in my Direct Testimony, I analyzed the actual capital structures in place at the operating companies held within my proxy group. Doing so reflects the nature of assets financed by vertically integrated utilities such as FPL. Based on that review, it is apparent that the Company's capital structure is generally consistent with the capital structures of the proxy companies.
Q. Is there a specific example that demonstrates the varied nature of a utility holding company's unregulated operations and capital structures?
A. Yes, there is. NextEra Energy Resources, ("NEER"), a wholly owned, indirect subsidiary of NEE, owns approximately 21,100MW of generating capacity across the U.S. and Canada. ${ }^{128}$ As of 2015, approximately 66.00 percent of NEER's generating capacity was fully committed under long-term contracts, with a weighted average life of approximately fifteen years. ${ }^{129}$ NEER's generating portfolio is diverse, with wind, natural gas and nuclear assets representing 91.00
percent of the capacity. ${ }^{130}$ In fact, NEER owns 2,721 MW of nuclear generating capacity, of which $1,621 \mathrm{MW}$ is contracted. ${ }^{131}$ NEER is responsible for the ultimate decommissioning of those plants. ${ }^{132}$ Although Dr. Woolridge suggests that parent company capital structures are the better comparator of FPL's operating capital structure, he does not seem to have considered the effect of nonutility, project-financed assets at the consolidated parent level.

Lastly, and as discussed in my response to Mr. O'Donnell, my updated capital structure analysis continues to support the reasonableness of the Company's current capital structure.

## III. RESPONSE TO THE TESTIMONY OF FEA WITNESS GORMAN

## Q. Please briefly summarize Mr. Gorman's recommendation regarding the Company's Cost of Equity.

A. Mr. Gorman recommends an ROE of 9.25 percent, within a recommended range of 8.90 to 9.60 percent. ${ }^{133}$ Mr. Gorman establishes his recommended ROE by reference to: (1) his constant growth DCF model using both consensus analyst growth rates and a sustainable growth rate (with median and average results ranging from 7.34 percent to 8.89 percent); ${ }^{134}$ (2) his Multi-Stage DCF method (with mean and median results of 8.00 percent and 8.01 percent, respectively); ${ }^{135}$

Ibid.
Ibid., at 16, 18.
Ibid., at 18.
See Direct Testimony of Michael P. Gorman, at 2.
Ibid., at 24, 41.
Ibid.
(3) his Risk Premium estimates (ranging 9.50 percent to 9.60 percent, with a point estimate of 9.55 percent); ${ }^{136}$ and (4) his Capital Asset Pricing Model analyses (ranging from 7.90 percent to 9.25 percent). ${ }^{137}$ In particular, Mr. Gorman’s 9.25 percent recommendation represents the midpoint of his DCF (8.90 percent) and Risk Premium (9.60 percent) analyses. ${ }^{138}$

## Q. What are the principal analytical areas in which you disagree with Mr. Gorman?

A. The principal analytical areas in which I disagree with Mr. Gorman include:

1. Proxy group composition;
2. The application of the Constant Growth DCF model, and interpretation of its results;
3. The Market Risk Premium component of his CAPM analysis, in particular the expected market return from which the MRP is calculated;
4. The assumptions and methods underlying Mr. Gorman's Risk Premium analyses;
5. The need for a flotation cost adjustment; and
6. Mr. Gorman's assessment of the Company's relative risk.

Ibid., at 47.
Ibid., at 53.
Ibid., at 54.

## A. Proxy Group Composition

Q. Do you agree with Mr. Gorman's exclusion of Dominion Resources, Great Plains Energy, Westar Energy, and Otter Tail Corporation from the proxy group ${ }^{139}$
A. I agree with the exclusion of Dominion Resource, Great Plains Energy, and Westar Energy; as discussed in my response to Dr. Woolridge, I also have excluded those companies due to their recent merger and acquisition activity. However, I continue to include Otter Tail Corporation ("OTTR") in my analyses. Mr. Gorman excluded OTTR from his proxy group because analyst earnings growth rates estimates were not available from any of the data sources he relies on (Zacks, SNL Financial and Reuters). Because two of the data sources I rely on for earnings growth estimates (Yahoo and Value Line) report earnings growth rates for OTTR, I continue to include the company in my proxy group.

## B. Constant Growth DCF Model

Q. As a preliminary matter, does Mr. Gorman give his Constant Growth DCF results any weight in arriving at his 9.25 percent ROE recommendation?
A. Yes, as noted earlier, Mr. Gorman’s 9.25 percent recommendation represents the midpoint of his 8.90 percent to 9.60 percent recommended range. The bottom end of that range ( 8.90 percent) is based on Mr. Gorman's Constant Growth DCF
median result of 8.89 percent, ${ }^{140}$ and the upper bound ( 9.60 percent) represents the point estimate of his Risk Premium results. ${ }^{141}$

To arrive at his median DCF estimate, Mr. Gorman discards his Multi-Stage DCF results ( 8.01 percent), and his Constant Growth DCF model results based on the "sustainable growth" method (7.34 percent) in favor of his Constant Growth DCF results based on analysts' growth rate projections (8.89 percent). ${ }^{142}$ Because Mr. Gorman does not rely on his Multi-Stage or sustainable growth DCF methods, I will not comment on his application of those approaches in my Rebuttal Testimony.

## Q. Do you have any concerns with the Constant Growth DCF model in general, and the weight that Mr. Gorman applies to those results in particular?

A. Yes, I do. The Constant Growth DCF model is based on several underlying assumptions that combine to establish an inverse relationship between expected growth and the dividend yield. That is, as expected growth increases, the price would increase and the dividend yield would decrease. Conversely, as expected growth decreases, the price would decrease and the dividend yield would increase. Mr. Gorman's Constant Growth DCF analysis (as do Dr. Woolridge’s and Mr. Baudino's), however, assumes P/E ratios that are high by historical standards, (see Chart 6, below), but growth rates that are relatively low.

Ibid., at 41, Table 4.
Ibid., at 47.
Ibid., at 41.

Q. Are the growth rates assumed in Mr. Gorman's analysis consistent with historically high valuation levels?
A. No, they are not. Mr. Gorman's analysis assumes an average growth rate of 5.38 percent (see Exhibit MPG-5) which, he notes, is well below the long-term compound average growth rate for the economy as a whole ( 6.20 percent), and the long-term rate of stock market capital appreciation (on geometric average basis, 5.80 percent). ${ }^{144}$ As discussed earlier, the Constant Growth DCF model assumes that low growth rates would be associated with low prices (and high dividend yields), yet the proxy group average $\mathrm{P} / \mathrm{E}$ ratio is well above its long-term average. In the context of the Constant Growth DCF model, the two are not compatible.

Mr. Gorman acknowledges that unsustainable expansions in P/E ratios create analytical concerns that should be addressed in determining the Cost of Equity. At page 52 of his direct testimony, Mr. Gorman discusses the Market Risk Premium component of his Capital Asset Pricing Model, and explains that Ibbotson \& Chen found an "abnormal expansion" of $\mathrm{P} / \mathrm{E}$ ratios relative to earnings and dividend growth. That is, Ibbotson \& Chen found that because higher P/E ratios during the 1980 to 2001 period were not explained by higher growth in earnings or dividends, their analyses required adjustment. ${ }^{145}$ Duff \& Phelps, the source referenced by Mr. Gorman, calculates an adjustment using three-year average $\mathrm{P} / \mathrm{E}$ ratios, rather than relying on the current year, because "the three-year average allows the adjustment to smooth out the volatility of extraordinary events and allows earnings to better reflect a normalized trend." ${ }^{146}$ As did Ibbotson, Duff \& Phelps recognized that abnormally high P/E ratios will produce questionable analytical results, and the long-term trend is important.

The same conditions hold here. The utility sector has undergone an "abnormal expansion" in P/E ratios; there is no dispute on that point. Whereas Duff \& Phelps recognized and adjusted its analyses to reflect the abnormal expansion in P/E ratios, Mr. Gorman's DCF analyses, and his interpretation of their results, do not.

See Direct Testimony of Michael P. Gorman at 52; Morningstar Inc., Ibbotson SBBI 2014 Classic Yearbook at 156-157. I also have addressed this issue in response to Dr. Woolridge’s "Building Blocks" analysis.
Duff \& Phelps, 2016 Valuation Handbook: Guide to Cost of Capital, at 3-30.

Lastly, if Mr. Gorman's position is that the current P/E ratio will sustain itself over the long-run, as noted in my response to Dr. Woolridge, I have addressed that concern by calculating the terminal value portion of the Multi-Stage DCF model by reference to current P/E ratios. ${ }^{147}$
Q. Please summarize your concerns with Mr. Gorman's use of a sustainable long-term growth in his DCF analysis.
A. Although we agree that it is appropriate to rely on analyst earnings growth estimates in applying the Constant Growth DCF model, Mr. Gorman asserts that those estimates should be limited to what he considers to be a reasonable estimate of long-term "sustainable" growth. In that regard, because they are higher than the five- and ten-year nominal GDP growth estimates from Blue Chip Financial Forecasts, Mr. Gorman concludes that the mean analyst consensus earnings growth estimates in my Constant Growth DCF analysis produce elevated estimates of the Cost of Equity. ${ }^{148}$

As noted in my response to Dr. Woolridge, prior academic research (as well as the analyses presented in my response to Dr. Woolridge) indicates that investors rely on analysts’ earnings growth projections. Those analyses demonstrate Value Line’s "Retained to Common Equity", which is the product of the expected Return on Common Equity and the expected Retention Ratio (which are the two variables included in Mr. Gorman's assessment of what may constitute

See Exhibit RBH-14.
See Direct Testimony of Michael P. Gorman at 37-38.
"sustainable growth" on page 32 of his direct testimony) have no statistically significant ability to explain valuation levels (as measured by the P/E ratio, which Mr. Gorman presents in his Exhibit MPG-2).

Although Mr. Gorman may be of the view that analyst growth rates are not sustainable, the relevant issue is whether investors rely on those projections in making their investment decisions. That is, what matters is that analysts' projections reflect widely held expectations influencing investors at the time they make their pricing decisions, i.e., the market prices investors are willing to pay. I am not aware of empirical evidence supporting the position that investors would disregard analysts’ estimates of growth in Earnings Per Share for the companies in our respective proxy groups, nor has Mr. Gorman provided any such evidence. Rather, the empirical evidence discussed in my response to Dr. Woolridge supports the use of analysts’ earnings growth projections. I therefore disagree with Mr. Gorman's conclusion that his view of sustainable growth, rather than analysts' projections, is the more relevant measure of investor expectations.

## C. Application of Capital Asset Pricing Model

## Q. Please briefly summarize Mr. Gorman's CAPM analysis and results.

A. Mr. Gorman's two CAPM estimates (9.25 and 7.90 percent) are based on two measures of principally historical Market Risk Premium estimates, Blue Chip’s projected 30 -year Treasury yield of 3.40 percent as the risk-free rate, and an
average Beta coefficient of 0.75, as reported by Value Line. ${ }^{149}$ Based on his assessment of risk premiums in the current market, Mr. Gorman relies on the high-end 9.25 percent CAPM when estimating FPL's Cost of Equity. ${ }^{150} \mathrm{Mr}$. Gorman's analyses assume Market Risk Premium estimates of 7.80 percent (based on the long-term historical arithmetic average real market return from 1926 through 2015 as reported by Duff \& Phelps, adjusted for current inflation forecasts), and 6.00 percent (based on the historical difference between the average return on the S\&P 500 and the average total return on long-term government bonds). ${ }^{151}$ Combining those Market Risk Premium estimates with his projected long-term risk-free rate, Mr. Gorman develops expected market returns in the range of 9.40 to 11.20 percent. ${ }^{152}$

## Q. Turning first to the expected total market return, do you agree with Mr. Gorman's 9.40 and 11.20 percent estimates? <br> A. No, I do not. As a practical matter, Mr. Gorman's 9.40 percent estimate, which is more than 250 basis points below the long-term average market return, falls in the bottom $10^{\text {th }}$ percentile of the 90 annual returns reported by Morningstar. ${ }^{153}$ His 11.20 percent estimate, which I believe is more reasonable, still falls in the bottom $24^{\text {th }}$ percentile.

Ibid., at 53 and Exhibit MPG-18.
Ibid., at 53.
Ibid., at 51 and Exhibit MPG-18.
Mr. Gorman's low Market risk premium of 6.00 percent plus his projected risk-free rate of 3.40 percent equals an estimated market return of 9.40 percent. See Direct Testimony of Michael P. Gorman, 51; Exhibit MPG-18.
On a rolling average basis.

A helpful perspective on the historical market return is the rolling 50-year average annual market return. As Mr. Gorman points out, from 1926 through 2015 the arithmetic average market return was 12.00 percent. ${ }^{154}$ Over the 50 years ended 2015, the average return was 12.10 percent, only ten basis points removed from the longer-term average that Mr . Gorman reports. Over time, the fifty-year average return has been quite consistent, in the range of approximately 12.00 percent (see Chart 7, below).

Chart 7: 50-Year Rolling Average Market Return (1976 - 2015) ${ }^{155}$


Taken from that perspective, Mr. Gorman’s 9.40 percent expected market return is well below the long-term market experience, and, therefore, is not reasonable.

## D. Application of the Risk Premium Model

## Q. Please briefly describe Mr. Gorman's Risk Premium analyses.

A. Mr. Gorman defines the "Risk Premium" as the difference between average annual authorized equity returns for electric utilities, and a measure of long-term interest rates each year from 1986 through March 2016. ${ }^{156}$ Mr. Gorman's first approach calculates the annual risk premium by reference to the 30-year Treasury yield, and his second approach considers the average A-rated utility bond yield. ${ }^{157}$ In each case, Mr. Gorman establishes his risk premium estimate by reference to five-year and ten-year year rolling averages. The lower and upper bounds of Mr. Gorman's Risk Premium range are defined by the lowest and highest rolling average, respectively, regardless of the year in which those observations occurred. ${ }^{158}$

Regarding the period over which he gathers and analyzes his data, Mr. Gorman suggests that his 31-year horizon is a "generally accepted period to develop a risk premium study using 'expectational’ data." ${ }^{159}$ On page 44 of his direct testimony Mr. Gorman further states that "it is reasonable to assume that averages of annual achieved returns over long time periods will generally converge on the investors’ expected returns," and concludes that his "risk premium study is based on expectational data, not actual investment returns, and, thus, need not encompass a
very long historical time period." ${ }^{160}$ Based on those assumptions, Mr. Gorman calculates a range of risk premium estimates of 4.25 percent to 6.71 percent using his Treasury bond analysis, and 2.88 percent to 5.53 percent using his A-rated utility bond analysis. Combined with a 3.40 percent projected Treasury yield and a 4.69 percent Baa-rated utility bond yield estimate, Mr. Gorman’s Risk Premium analysis produces results ranging from 7.57 percent to 10.22 percent. ${ }^{161}$ To calculate his Risk Premium-based ROE estimate, Mr. Gorman gives 75.00 percent weight to the high end of his risk premium estimates, and 25.00 percent to the low end, producing a range of 9.50 percent to 9.60 percent with a midpoint of 9.55 percent. ${ }^{162}$
Q. Do you have any general observations regarding Mr. Gorman's Risk Premium estimates and how they weigh in his overall ROE recommendation?
A. Yes, I do. In assessing his DCF analyses, Mr. Gorman decided to rely on his highest result and essentially discarded five of his six results, which ranged from 7.34 to 8.83 percent. ${ }^{163}$ In his Risk Premium analysis, however, Mr. Gorman retained risk premiums that produced ROE estimates that were more than 100 basis points below the DCF estimates that he chose not to rely on. Despite their low levels, Mr. Gorman gave those risk premium estimates (producing ROE results of 7.57 and 7.65 percent) weights of 25.00 percent in aggregate. Mr.

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Ibid., at 44.
4.69% + 2.88% = 7.57%; 4.69% + 5.53% = 10.22%; 3.40% + 4.25% = 7.65%; 3.40% + 6.71% = 10.11\%.
Ibid., at 47.
Ibid., at 41.
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Gorman offers no explanation as to why he would exclude DCF results of 8.83 percent and lower, yet include Risk Premium results of 7.57 percent and 7.65 percent.
Q. What are your specific concerns with Mr. Gorman's Risk Premium analysis?
A. I have three concerns with his analysis: (1) Mr. Gorman's method understates the required risk premium in the current market because it ignores an important relationship confirmed by his own data, i.e., that the risk premium is inversely related to the level of interest rates (whether measured by Treasury or utility bond yields); (2) the low end of Mr. Gorman’s Risk Premium results is far lower than any ROE authorized since at least 1986 and as such, has no relevance in estimating the Company's Cost of Equity; and (3) Mr. Gorman suggests that a Market/Book of 1.00 is a relevant benchmark for assessing authorized ROEs. ${ }^{164}$
Q. Turning first to the issue of Market/Book ratios, as discussed on page 42 of his direct testimony, do you agree with Mr. Gorman that M/B ratios should be used to assess the reasonableness of ROE recommendations?
A. No, for the reasons discussed in my response to Dr. Woolridge, I do not.

## Q. Have you reviewed Mr. Gorman's Risk Premium analyses?

A. Yes, I have. Considering first the Treasury yield-based analysis, I plotted the yields and Risk Premia over the 1986 to 2016 period included in Mr. Gorman’s analysis. That graph, which is presented in Chart 8 (below), clearly indicates the inverse relationship between interest rates and the Equity Risk Premium.

Chart 8: Mr. Gorman's Treasury Yield-Based Risk Premium Data ${ }^{165}$


There are several other points made clear in Chart 8. First, the low end of Mr. Gorman’s Risk Premium range, 4.25 percent, was observed in the five-year period ending 1991. There is little question that Risk Premium estimates associated with economic environments 25 years ago have little to do with current market conditions. A very visible measure of such differences is the fact that before 2002, Treasury yields exceeded the Risk Premium (on a five-year average basis). As Chart 8 (see also Exhibit RBH-28) demonstrates, however, since then the opposite has been true - the Risk Premium has consistently exceeded Treasury yields. By that measure alone, it is clear that the low end of Mr. Gorman's range has little, if any, relevance to the current market environment.

Source: Direct Testimony of Michael P. Gorman, Exhibit MPG-13; based on five-year rolling average.

The high end of Mr. Gorman's range, 6.71 percent, occurred more recently (for the five year period ending March 2016). In fact, Exhibit MPG-13 indicates that his Equity Risk Premium averaged approximately 6.85 percent over the more recent period from 2015 through March 2016. ${ }^{166}$ Adding that 6.85 percent Equity Risk Premium to Mr. Gorman's projected Treasury yield of 3.40 percent produces an ROE estimate of 10.25 percent.

## Q. Has the Risk Premium increased as Treasury yields have decreased?

A. Yes. The relationship between the five-year average Equity Risk Premium and Treasury yields is very clear. A simple linear regression demonstrates that the two are highly related, with a Coefficient of Determination (R-Square) of approximately 96.00 percent. That is, Mr. Gorman's data demonstrate that changes in Treasury yields account for 96.00 percent of the change in the Equity Risk Premium (see Chart 9, below). ${ }^{167}$ Chart 9: Treasury Yield vs. Equity Risk Premium (Five-Year Rolling Average) ${ }^{168}$


Turning back to Mr. Gorman’s data, a simple linear regression analysis using annual (rather than the rolling average data) demonstrates that for every 100 basis point decrease in Treasury yields, the Equity Risk Premium increases by approximately 44 basis points (see Exhibit RBH-29). ${ }^{169}$ Similarly, the Equity Risk Premium increases approximately 45 basis points for every 100 basis point decrease in utility bond yields. Those results are consistent with those reported by Maddox, Pippert, and Sullivan, who determined that the Risk Premium would increase by 37 basis points for every 100 basis point change in the 30 -year Treasury yield. ${ }^{170}$

See Exhibit RBH-28. Source: Exhibit MPG-13.
Serial correlation is not present or is inconclusive.
See Farris M. Maddox, Donna T. Pippert, and Rodney N. Sullivan, An Empirical Study of Ex Ante Risk Premiums for the Electric Utility Industry, Financial Management, Vol. 24, No. 3, Autumn 1995, at 93.

I also have found that accounting for additional factors by incorporating the credit spread (taken from Mr. Gorman’s exhibits) does not change the sign, statistical significance, or the magnitude of the slope coefficient. ${ }^{171}$ In short, including Mr. Gorman's credit spreads do not change the finding that interest rates and the Equity Risk Premium are inversely related.
Q. What are your conclusions regarding Mr. Gorman's Risk Premium analysis?
A. Although Mr. Gorman includes rolling average estimates in his Risk Premium analysis, doing so does not negate the finding that his approach relies on data from markets that are so disconnected in time and substance from the current environment that there is no reasonable basis for his conclusion that 9.60 percent represents a proper Risk Premium-based estimate of the Company's Cost of Equity. Consequently, it is appropriate to apply methods that have been accepted in published literature, and which reflect the finding that interest rates and the Equity Risk Premium move in opposite directions.

## E. Risk Factors and Market Sentiment

Q. Mr. Gorman suggests the market is placing a high value on utility stocks. ${ }^{172}$ Have you considered the utility sector's recent equity market performance relative to the debt market?
A. Yes, I have. Because credit spreads, which represent the difference between the yields on debt and Treasury yields, can be directly observed, we can review the

Direct Testimony of Michael P. Gorman, at 78.
change in spreads over time, and relative to other market sectors. Although credit spreads are not a full measure of equity risk, they reasonably can be seen to reflect, to some extent, investors’ assessment of risk at a given point in time. As Chart 10 below indicates, but for the credit contraction that ended in 2003 and the financial crisis during 2008 and 2009, current credit spreads (for A-rated utilities) are near their highest level since the year 2000.

## Chart 10: A-Rated Utility Credit Spreads ${ }^{173}$



Even considering the 2002 - 2003, and 2008 - 2009 market dislocations, the current utility credit spread (on a spot basis) is in the top $63{ }^{\text {rd }}$ percentile of spreads since January 2000; the thirty-day average is in the top $55^{\text {th }}$ percentile. Looking to the period subsequent to the financial crisis (that is, since January 2010), the 30-day average credit spread is in the top $80^{\text {th }}$ percentile (the spot spread is in the top $91^{\text {st }}$ percentile). Taken from that perspective, it is apparent that investors
currently see the utility sector as relatively risky, and require higher returns as compensation for that risk.

As to the relationship between the level of Treasury yields and credit spreads, the level of explanatory value is rather low; Treasury yields explain only about 12.00 percent of the change in credit spreads. ${ }^{174}$ Equity market volatility (as measured by the VIX), on the other hand, explains about 60.00 percent of the change in credit spreads. ${ }^{175}$ That is, investors are concerned with market uncertainty, and require higher returns as uncertainty increases.
Q. Does any data presented by Mr. Gorman support the conclusion that credit spreads on A-rated utility debt are at historically elevated levels?
A. Yes. Mr. Gorman's Exhibit MPG-15 provides the spread between A-rated utility debt and Treasury bond yields. As shown in that exhibit, credit spreads on Arated utility debt are higher than they have been in eight of the previous ten years. Credit spreads were only higher during the 2008-2009 financial crisis.
Q. Have you also reviewed the relationship between credit spreads for A-rated utility debt relative to A-rated corporate debt?
A. Yes, I have. Although Mr. Gorman suggests that utility debt is trading at a premium to corporate debt ${ }^{176}$, I find the difference in yields to be only about two basis points. Given the historical volatility in the spread between corporate and

Source: Bloomberg Professional.
Source: Bloomberg Professional.
Direct Testimony and Exhibits of Michael P. Gorman, at 78.
utility A-rated debt, there is no reason to conclude that utility yields are different than those of their corporate counterparts. That conclusion is consistent with the finding that over time, there has been a nearly one-to-one relationship between credit spreads on A-rated corporate and utility bonds. In fact, a regression analysis in which corporate credit spreads are the explanatory variable and utility credit spreads are the dependent variable shows that slope is approximately 1.00 and highly significant (see Chart 11, below). Because the intercept term is statistically insignificant, we can conclude that there has been no material difference between the two, and there certainly is no meaningful difference in the current market.
Chart 11: Corporate and Utility Credit Spreads (A-Rated) ${ }^{177}$


## Q. What do you conclude from those analyses?

A. First, it is clear that A-rated utility credit spreads are at historically elevated levels. Second, the utility credit spreads are not measurably different than their corporate counterparts. Based on those two observations, we can conclude that investors do not consider utilities to be less risky than historical levels, nor are they requiring lower returns for utilities relative to similarly rated corporate bonds. Consequently, I do not believe we can conclude that the current level of utility equity valuation levels is due to lower levels of perceived risk. Rather, it is my view that the valuation levels are related to the "reach for yield" that sometimes occurs during periods of low Treasury yields.

Source: Bloomberg Professional. Please note that for a univariate regression, the correlation coefficient equals the square root of the R-square. In this case, the square root of 0.9669 is approximately 0.98 (98.00 percent).
Q. Have there been other recent periods when utility equity valuation levels were high relative to both their long-term average and the market?
A. Yes. In early 2015, the utility sector (as measured by the S\&P Electric Utility Index) traded at a Price/Earnings ratio of approximately 18.00. During the same period, the overall market (as measured by the S\&P 500) traded at a P/E of approximately 18.00. Those levels were quite similar to the current market. In late January 2015, the utility sector began to lose value, and by the end of June 2015 it had lost approximately 15.50 percent of its value. ${ }^{178}$ The point simply is that as investors see an increasing likelihood of higher interest rates, they will move out of sectors that provided relatively high current yields. As they do, valuations and $\mathrm{P} / \mathrm{E}$ ratios fall. As discussed elsewhere in my Rebuttal Testimony, that degree of instability in $\mathrm{P} / \mathrm{E}$ ratios is incompatible with the assumptions underlying the Constant Growth DCF model, rendering estimates from that model highly questionable.
Q. Have you also considered the effect of the United Kingdom's decision to exit the European Union (sometimes referred to as the "Brexit") on Treasury yields?
A. Yes, I have. What is clear is that in the one week following the Brexit vote (that is, from June 23 to June 30) Treasury yields fell by 25 basis points. As Treasury yields fell, utility valuations increased, as investors sought the relatively high dividend yields offered by the sector. Subsequent to June 30, the market appeared

The Combined Proxy Group lost approximately 13.00 of its value between January 31, 2015 and the end of June 2015.
to have become more comfortable with the implications of the Brexit vote, interest rates began to increase, utility valuations fell, and the overall market increased to record levels. ${ }^{179}$ The volatility observed during that two-week period demonstrates the importance of understanding the factors underlying market conditions, and how those factors and conditions comport, or not, with the methods used to estimate the Cost of Equity.

## Q. What conclusions do you draw from those analyses?

A. In my view, we cannot conclude that the recent levels of utility valuations are due to a fundamental change in the risk perceptions of utility investors. Utility credit spreads are at historically elevated levels, and there is no measurable difference between credit spreads of A-rated utility debt, and A-rated corporate debt. That is, based on analyses of credit spreads, there is no reason to conclude that investors see utilities as less risky relative to either historical levels or to their corporate counterparts.

## Q. Please briefly summarize Mr. Gorman's assessment of the Company's overall business risk.

A. Mr. Gorman summarizes certain rating agency reports and concludes that utilities in general are seen as a low-risk sector, which has provided utilities "strong access to capital." ${ }^{180}$ Mr. Gorman also notes that 85.00 to 90.00 percent of regulated utilities have bond ratings in the range of A - to BBB , and FPL falls at

Direct Testimony of Michael P. Gorman, at 11.
approximately the high-end of this range. ${ }^{181}$ Lastly, Mr. Gorman suggests the implementation of a four year rate plan would not increase the Company's Cost of Equity. ${ }^{182}$

## Q. Do the Company's current credit ratings distinguish it from other utilities?

A. No, they do not. As S\&P notes, the vast majority of utility ratings fall within the BBB to A- range. ${ }^{183}$ The Company's current credit rating falls within that range. In any event, as discussed in my response to Dr. Woolridge, credit ratings are not full measures of equity risk. And as discussed in my response to Mr. Chriss, investors' perceptions of regulatory supportiveness tend to be positively related to authorized equity returns. ${ }^{184}$ Lastly, as Mr. Dewhurst explains, the Company's authorized capital structure and return have enabled it to access capital, maintain operating liquidity, and still have among the lowest retail rates in the region. In that important sense, Mr. Gorman’s conclusion that the Company’s credit rating somehow justifies an ROE that would be among the lowest authorized in the last 35 years for a vertically integrated electric utility is misplaced.

Ibid., at 19.
Ibid., at 61-62.
Standard \& Poor’s RatingsDirect, Industry Report Card: The Outlook For U.S. Regulated Utilities Remains Stable On Increasing Capital Spending And Robust Financial Performance, December 16, 2014, at 6.
As noted in my response to Mr. O’Donnell, both Standard \& Poors and Moody’s consider the assessment of the regulatory environment a significant factor in determination of credit ratings.
Q. Mr. Gorman suggests there is insufficient evidence that interest rates will rise to conclude that a four year rate plan will increase risks for shareholders. ${ }^{185}$ What is your response?
A. The principal issue is uncertainty, which represents risk to investors. As discussed in my Direct Testimony, with a multi-year rate plan FPL forgoes the option to seek rate relief as capital costs increase. ${ }^{186}$ Should interest rates rise over the course of the proposed four year rate period, the Company would be exposed to increases in the costs of both debt and equity. ${ }^{187}$ As reported by Blue Chip, the average consensus forecast is for the 30 -year Treasury yield to rise to 3.40 percent (approximately 100 basis points) in 2017 and 4.40 percent (approximately 200 basis point) by the end of proposed four year rate period. ${ }^{188}$ In addition, market expectations for increased long-term Treasury yields are apparent in the market prices to buy or sell at-the-money options in long-term Government bond funds. That is, the value of the option to sell the TLT (an exchange-traded fund of longterm Government bonds) in January 2018 at today's price is approximately one and a half times the value of the option to buy that fund. ${ }^{189}$ Because bond prices fall as interest rates increase, investors see a greater likelihood of increases in long-term interest rates than decreases. As such, investors may require a premium to the allowed ROE for compensation for the additional risk associated with
foregoing the opportunity to seek rate relief in the event of increasing capital costs.

## Q. Do you agree with Mr. Gorman's position that relying on projected Treasury yields is "problematic"? ${ }^{190}$ <br> A. No, I do not. Mr. Gorman asserts that relying on projected yields does not consider "the highly likely outcome that current observable interest rates will prevail during the period rates determined in this proceeding will be in effect." Mr. Gorman then goes on to suggest that relative to projected interest rates, "current observable rates are just as likely to accurately predict future interest rates as are economists' projections." ${ }^{191}$ He concludes that the accuracy of those projections are "highly problematic."192

## Q. What is your general response to Mr. Gorman's position?

A. First, the relevant question is whether investors view consensus forecasts as important information as they make their investment decisions. Mr. Gorman has provided no information to conclude that they do not. As to his position that it is highly likely that observable interest rates will prevail during the period in which rates will be in effect, that has not been the case historically; as Chart 12 below demonstrates, 30-year Treasury yields two, three and four yields lagged have not been very accurate predictors of spot yields. That is especially the case for the longer lag periods (three and four years), which would more closely reflect the
term of the Company's proposed rate plan than does the roughly one-year lag reflected in Mr. Gorman’s analysis (Exhibit MPG-21).

Chart 12: Difference in Spot vs. Lagged Treasury Yields ${ }^{193}$


In large measure, the inability of lagged yields to explain current yields relates to the decline in rates over time. As a practical matter, a simple trend variable has considerably greater explanatory value than do the lagged yields that Mr. Gorman favors. As shown in Exhibit RBH-30, the R-Square (which measures explanatory value of a given variable) increases from approximately 55.00 percent to approximately 82.00 percent. That is, a simple trend has a greater ability to explain current Treasury yields than do lagged observed Treasury yields. ${ }^{194}$

In my view, the relevant question becomes whether investors see that trend continuing over time. Simply extrapolating the trend, or even relying on prior

Treasury yields as an estimate of future yields would assume that to be the case, even though central bank policy, which is a significant factor influencing interest rates, is changing. To that point, Mr. Gorman's observations include a highly unusual period in capital markets in which a number of central banks pursued a significant level of unconventional monetary stimulus (e.g., holding short-term rates near zero while also purchasing large quantities of long-term bonds), which led to long-term bond rates far below market estimates of normal rates. He has not explained, however, why such conditions will prevail two, three or four years in the future.

Regarding Mr. Gorman's observation that in the past, projected yields indicated interest rate increases even though actual yields did not increase, it is important to recognize that implied forward Treasury yields (which are based on observed interest rates) also indicated expectations of rate increases. Implied forward yields are based on the "Expectations" theory, which states that (for example) the current 30-year Treasury yield equals the combination of the current one-year Treasury yield, and the 29-year Treasury yield expected in one year. That is, an investor would be indifferent to (1) holding a 30-year Treasury to maturity, or (2) holding a one-year Treasury to maturity, then a 29-year Treasury bond, also to maturity. ${ }^{195}$

In addition to the Expectations theory, there are other theories regarding the term structure of interest rates, including: the Liquidity Premium Theory, which asserts that investors require a premium for holding long term bonds; the Market Segmentation Theory, which states that securities of different terms are not substitutable and, as such, the supply of and demand for shortterm and long-term instruments is developed independently; and the Preferred Habitat Theory,

As Chart 13 demonstrates, since 2006 the implied forward 29- and 28- year yields (one and two years hence, respectively) consistently exceeded the (interpolated) spot yields. That is, just as economists’ projections implied increased interest rates, so did observable Treasury yields.

Chart 13: Forward vs. Interpolated Treasury Yields ${ }^{196}$


## Q. What do you conclude from those analyses?

A. First, Mr. Gorman's assertion that spot yields are a reasonable measure of expected yields is inconsistent with observable data; there has been a considerable amount of dispersion between the two. Moreover, the ability of lagged yields to estimate current yields decreases as the lag period increases. In that regard, there
which states that in addition to interest rate expectations, certain investors have distinct investment horizons and will require a return premium for bonds with maturities outside of that preference. Source: Federal Reserve Schedule H. 15
is no reason to conclude that current Treasury yields are a reasonable estimate of the yields that will prevail two, three or four years in the future.

Second, a simple trend variable provides more explanatory value than do observed Treasury yields. But if we simply extrapolate that trend, by December 2018 the 30-year Treasury yield would be 0.58 percent ( 58 basis points; see Exhibit RBH-30). On the other hand, if we were to assume that the current 30year Treasury yield will prevail for the next two to four years, we would have to assume no change in central bank policies, macroeconomic growth, or any of the other factors that recently have influenced Treasury yields.

Lastly, Mr. Gorman's conclusion that consensus projections exceeded observed yields does not seem to take into account the fact that implied forward yields also indicated interest rate increases. Because forward yields have been directionally consistent with economists' projections, and given that Mr. Gorman puts considerable weight on observed yields, there is no reason to believe that economists' projections are "highly problematic".

## Q. Do you have any further observations regarding interest rates, and their effect on the Company's ROE?

A. Yes. Since 2012, the 30-year Treasury yield has been quite volatile, especially relative to its historical levels (see Chart 14, below).

Chart 14: 30-Year Treasury Yield Coefficient of Variation ${ }^{197}$


That variability represents an element of uncertainty for investors; uncertainty and risk increase investors' required returns. Further, as rates become more variable, the option to seek rate relief in future periods becomes more valuable. Foregoing that option, therefore, comes at a greater cost. Consequently, the increased variability of Treasury yields provides further support for my ROE range and recommendation.

## F. Financial Integrity

Q. Please briefly summarize Mr. Gorman's assessment of his recommendation as it affects measures of the Company's financial integrity.
A. Mr. Gorman evaluates the reasonableness of his ROE recommendation by calculating the pro forma effect that his recommended ROE would have on two of Deviation divided by the Average. Calculations are based on 30-day moving periods.
the Company's key financial ratios with the goal of assessing whether those ratios would still fall within S\&P's guideline ranges sufficient for an investment grade rating. ${ }^{198}$ In that regard, Mr. Gorman develops the following pro forma ratios: (1) Debt to EBITDA; and (2) Funds From Operations ("FFO") to Total Debt. An important point is that Mr. Gorman's analysis assumes that the Company actually will earn the entirety of its authorized ROE on a going-forward basis.

In his Exhibit MPG-19, Mr. Gorman develops the pro forma financial ratios noted above based on the Company's retail cost of service, and his recommended ROE of 9.25 percent. Mr. Gorman notes that his pro forma financial analysis suggests that his recommended ROE of 9.25 percent would be sufficient to maintain "credit metrics at an investment grade utility level." ${ }^{199}$

## Q. Do you agree with Mr. Gorman's analysis and conclusion?

A. No, I do not. First, simply maintaining an "investment grade" rating is an inappropriate standard. According to Standard \& Poor's, only 6 of 221 utilities have had below investment grade ratings. ${ }^{200}$ As Mr. Dewhurst explains, FPL must compete for capital within the utility sector in the first instance, and with companies beyond utilities, overall. If Mr. Gorman is of the view that simply maintaining an investment grade rating is sufficient for that purpose, I disagree. In my practical experience raising capital for a regulated utility, I can say

See Direct Testimony of Michael P. Gorman, at 56-57.
Ibid., at 57.
See Standard \& Poor's RatingsDirect, The Outlook for U.S. Regulated Utilities Remains Stable on Increasing Capital Spending and Robust Financial Performance, December 16, 2014, at 7-20.
firsthand that the competition for capital can be acute. Based on that practical experience, I also can say that Mr. Gorman's "investment grade" standard would frustrate the ability of FPL, or any other regulated utility, to raise capital under a variety of market conditions, and at reasonable costs and terms.

That fundamental concern aside, a wide range of ROE outcomes create pro forma coverage ratios that fall within S\&P's guidelines for the Company's current rating. As shown in Exhibit RBH-31, using Mr. Gorman's analysis, an ROE of 6.55 percent creates coverage ratios that also fall within FPL's current range. There is little question that 6.55 percent is an unrealistic estimate of the Company's Cost of Equity.

Mr. Gorman concludes that his 9.25 percent recommendation produces pro forma ratios within S\&P's "Intermediate" guideline and therefore supports an investment grade credit rating. ${ }^{201}$ Again, using Mr. Gorman's analysis, an ROE of 6.55 percent produces coverage ratios that also fall within the "Intermediate" range. Again, I do not believe that 6.55 percent is a realistic estimate of the Company's Cost of Equity. My 11.00 percent ROE recommendation also produces coverage ratios that fall within the "Intermediate" range. ${ }^{202}$

In my view, the observation that that Mr. Gorman's 9.25 percent ROE produces pro forma ratios that fall within the same ratings band as the 6.55 percent ROE

Direct Testimony of Michael P. Gorman, at 57.
Exhibit RBH-31.
noted above does not support the conclusion that his recommendation would support the Company's financial integrity. As noted earlier, there are factors well beyond pro forma coverage ratios that weigh in rating determinations.

As noted above, Mr. Gorman's analysis also assumes that the Company actually will be able to earn its authorized return, and its Funds From Operations will not be diluted by regulatory lag, additional capital spending, or any of the other factors that may dilute earnings and cash flow.

Lastly, as Mr. Gorman recognizes, credit rating agencies consider a number of factors beyond coverage ratios. As noted in my response to Mr. O’Donnell, 50.00 percent of Moody's ratings factors relate to the regulatory environment. Mr. Gorman's ROE recommendation, which is far below the national average return for vertically integrated electric utilities, would introduce an element of regulatory risk that could put pressure on FPL's credit profile, potentially increasing its cost of capital. Because Mr. Gorman’s analysis appears to be overly simplified, relying on its results may well lead to incorrect conclusions.

## G. Flotation Costs

## Q. What is Mr. Gorman's position with regard to flotation costs.

A. Mr. Gorman acknowledges that flotation costs are a legitimate cost of doing business, but suggests that the Commission only allow recovery if the actual costs
are demonstrated and proven to be reasonable. Mr. Gorman further asserts that because FPL does not issue common stock, it does not incur flotation costs. ${ }^{203}$

## Q. What is your response to Mr. Gorman's position?

A. As explained in my direct testimony, flotation costs are part of the invested costs of the utility, which are properly reflected on the balance sheet under "paid in capital." They are not current expenses, and therefore are not reflected on the income statement. Rather, like investments in rate base or issuance costs of longterm debt, flotation costs are incurred over time, but remain part of the cost structure that exists during the test year and beyond. ${ }^{204}$ Although FPL does not issue common stock, it still must compete for equity capital with other NextEra Energy affiliates and investment opportunities. The common stock that which has been issued by NextEra Energy, the parent holding company, includes flotation costs, which are passed through to FPL. As such, I continue to believe it is appropriate to consider flotation costs in the determination of where the Company's ROE falls within the range of results.

## H. Response to Mr. Gorman's Criticisms

## Q. Please summarize Mr. Gorman's criticisms of your Cost of Equity analyses.

A. Mr. Gorman asserts my estimated ROE is overstated and should be rejected because (1) my CAPM is based on inflated estimates of the Market Risk Journal of Finance Vol. XXXVIII, No. 4. September 1983, at 1337.

Premiums; (2) my Bond Yield Plus Risk Premium is based on inflated utility Equity Risk Premium; (3) my Risk Premium analyses rely on "stale" Treasury yields; (4) my Constant Growth DCF results are based on excessive, unsustainable growth rates; and (5) my Multi-Stage DCF is based on an unrealistic GDP growth estimate and unsustainable payout ratio assumptions. ${ }^{205}$ I respond to each of those criticisms in turn, below.

## Q. Please summarize Mr. Gorman's criticisms of your CAPM analysis.

A. Mr. Gorman's concern with my CAPM analysis lies primarily with my Market Risk Premium estimates. ${ }^{206}$ In particular, Mr. Gorman states that my 12.82 percent and 13.63 percent projected returns on the market are "inflated." ${ }^{007}$ To determine the reasonableness of my derived expected market returns, it is instructive to understand how often various ranges of total returns actually have occurred over the 1926 to 2015 period. In fact, the 12.82 percent and 13.63 percent estimates presented in my Direct Testimony, which Mr. Gorman asserts are "inflated," ${ }^{208}$ represent the approximately $49^{\text {th }}$ percentile of the actual returns observed from 1926 to 2015. In other words, of the 90 annual observations, 46 were 13.63 percent or higher. Moreover, given the historical volatility in market returns (as noted by Morningstar, the long-term standard deviation is 19.99 percent), my total return estimates of 12.82 percent and 13.63 percent are
statistically indistinguishable from the long-term arithmetic average of 11.95 percent. ${ }^{209}$

Mr. Gorman further asserts that the Market Risk Premia estimated from my projected market returns are "inflated and not reliable." ${ }^{210}$ I therefore performed a similar analysis using historical Market Risk Premia. I first gathered the annual Market Risk Premia reported by Morningstar, and produced a histogram of the observations (recall that Mr. Gorman includes historical data among the methods he uses to estimate the Market Risk Premium). The results of that analysis, which are presented in Chart 15 demonstrate that MRPs of at least 10.68 percent (the high end of the range of the MRP estimates in my Direct Testimony) will occur approximately half of the time.

See Morningstar, Inc., 2016 Ibbotson Stocks, Bonds, Bills and Inflation Classic Yearbook, Appendix A, at 3-5; Exhibit RBH-32. Even if we were to look at the standard error, my estimate is well within one standard error of the long-term average.
Direct Testimony of Michael P. Gorman, at 63.

Chart 15: Frequency Distribution of Observed Market Risk Premia, 1926 $2015{ }^{211}$

Q. Please summarize Mr. Gorman's criticisms of your Bond Yield Plus Risk Premium analysis.
A. Mr. Gorman's concern with my Bond Yield Plus Risk Premium analysis is my "contention" of a "simplistic inverse relationship" between the Equity Risk Premium and interest rates is not supported by academic research. ${ }^{212}$ Mr. Gorman further argues that the relevant factor explaining changes in the Equity Risk Premiums is the change to equity risk relative to debt risk, not changes in interest rates, alone. He concludes that my analysis ignores such investment risk differentials.

Direct Testimony of Michael P. Gorman, at 66.

## Q. What is your response to Mr. Gorman's critiques?

A. First, regarding the inverse relationship between the Equity Risk Premium and interest rates, I cited several academic studies in my Direct Testimony that support my findings. ${ }^{213}$ Moreover, as explained above, Mr. Gorman's own data clearly demonstrate that the Equity Risk Premium moves inversely to interest rates (both Treasury Yields and Utility Bond Yields). Mr. Gorman may disagree with the premise, but empirical results based on his data support my position (see Exhibit RBH-29).
Q. Did you perform any additional analyses to address Mr. Gorman's concern regarding the effect of expected market volatility and other interest rate environments on your results?
A. Yes, I did. Although for the reasons discussed above I continue to believe the model is properly specified, I performed an additional analysis to specifically include the effect of equity market volatility, and credit spreads (see Exhibit RBH-33). As with my original Bond Yield Plus Risk Premium analysis, I defined the Risk Premium as the dependent variable, and the prevailing 30-year Treasury yield as an independent variable. I then included two additional explanatory variables: (1) the VIX (the Chicago Board Options Exchange's one-month volatility index, which is a common measure of volatility); and (2) the credit spread between the 30-year Treasury yield and the Moody's Baa Utility Index (as
a measure of incremental risk). ${ }^{214}$ In both instances, the statistically significant inverse relationship between Treasury yields and the Risk Premium remains, and the resulting ROE estimates are generally consistent with those of my original Bond Yield Plus Risk Premium analysis. ${ }^{215}$

Lastly, I note that applying Mr. Gorman's projected 3.40 percent 30-year Treasury yield to the alternative Bond Yield Plus Risk Premium Analysis produces a more reasonable (although still low) ROE estimate of 9.95 percent relative to Mr. Gorman's 9.25 percent recommendation (see, Exhibit RBH-33). ${ }^{216}$
Q. What is your response to Mr. Gorman's concern that your CAPM and Bond
Yield Plus Risk Premium analyses rely on "stale" Treasury yields?
A. The Treasury yield estimates used in my Direct Testimony corresponded with the
timing of the data used in my ROE analysis. Updated Treasury yield estimates as
of June 30, 2016 have been used in the analyses accompanying my Rebuttal
Testimony. Consequently, my analyses do not rely on "stale" Treasury yields, as
Mr. Gorman suggests. Mr. Gorman suggests.

Mr. Gorman notes on page 27 of his testimony that his proxy group has an average Moody’s credit rating of Baa1.
See Exhibit RBH-3.
Mr. Gorman uses a 3.40 percent projected Treasury yield in his risk premium analysis. See, Direct Testimony of Michael P. Gorman, at 47.
Q. Turning to your DCF analysis, do you agree with Mr. Gorman's assertion that the growth rates used in your constant growth DCF analysis are "excessive" and "unsustainable"?
A. No, I do not. Although Mr. Gorman argues that the consensus growth rates in my constant growth DCF model (averaging 5.39 percent) are high relative to his estimate of projected GDP growth and retention growth, he also notes that my mean results are similar to his own. Even though Mr. Gorman believes that my mean high Constant Growth DCF results of 10.08 percent, which are based on an average growth rate of 6.22 percent, are "not reasonable" estimates of the Company's Cost of Equity, those estimates are well within the prevailing range of authorized returns, a benchmark that Mr. Gorman appears to believe is relevant given that his Risk Premium method is predicated on authorized ROEs. ${ }^{217}$
Q. Please respond to Mr. Gorman's assertion your long-term growth rate is inconsistent with other consensus estimates of long-term GDP growth.
A. As noted in my response to Dr. Woolridge, the long-term growth rate in my multistage DCF analysis reflects growth expectations beginning ten years in the future, whereas Mr. Gorman's consensus GDP projections are only five or ten year projections. Because there are no consensus forecasts that begin in ten years, it is reasonable to assume that real growth will revert to its long-term average over time. Moreover, the terminal growth rate is intended to reflect expected growth in perpetuity and as such, the term of even the longest GDP forecast considered by

Mr. Gorman does not reflect the expected, perpetual nature of the terminal growth assumed in the DCF model.

In his Multi-Stage DCF analysis, Mr. Gorman cites to projections from the Energy Information Administration ("EIA"), Congressional Budget Office ("CBO"), and other sources including the Social Security Administration ("SSA"), and suggests that the terminal growth rate in my Multi-Stage DCF analysis is too high. ${ }^{218}$ I address the EIA and CBO forecasts in my response to Dr. Woolridge. In the case of the SSA forecast, my long-term growth estimate falls well within the range of the "cases" that the SSA considers. ${ }^{219}$ Moreover, Mr. Gorman's 4.35 percent long-term sustainable growth rate conflicts with market measures cited elsewhere in his testimony. For example, Mr. Gorman does not consider the use of long-term historical data for the purpose of developing his terminal growth rate, yet he relies on long-term historical data for the purposes of his CAPM analyses. According to Duff \& Phelps (which provides the data Mr. Gorman relies on to estimate the historical Market Risk Premia), the arithmetic average historical capital appreciation rate is 7.70 percent, which is substantially higher than Mr. Gorman's 4.35 percent estimate of long-term GDP growth. ${ }^{220}$

Ibid., at 39, 69.
Tables V.B1 and V.B2 of the 2016 Annual Report of the Board of Trustees of the Federal Old-Age and Survivors Insurance and Federal Disability Insurance Trust Funds includes "Low Cost" scenario assumptions of 2.90 percent and 2.70 percent for the GDP Price Index, and Real GDP Growth, respectively, over the period 2025 through 2085. Combined, those projections indicate nominal GDP growth of approximately 5.70 percent.
Duff \& Phelps, 2016 Valuation Handbook: Guide to Cost of Capital at 2-4. Even if we were to consider the geometric mean, the historical capital appreciation rate exceeds Mr. Gorman’s 4.35 percent estimate; Mr. Gorman notes on page 37 of his testimony that the long-term geometric average growth rate is 5.80 percent.

Aside from the inconsistency with his other analyses, Mr. Gorman's low growth rate has the effect of producing unduly low DCF estimates.

To assess whether my 5.35 percent nominal GDP growth estimate is reasonable within the context of historical observations, consistent with Mr. Gorman's approach to his risk premium study, I calculated the average five- and ten-year annual GDP growth rates from 1929 to 2015, an 87 -year period. I then arranged that data in histograms to provide a perspective of how frequently various levels of growth have occurred. As Chart 16 demonstrates, average annual growth as low as 4.35 percent has been observed very infrequently. In fact, average annual growth exceeded 4.35 percent in 68 of 77 ten-year periods.

Chart 16: Average Annual GDP Growth Measured over Ten-Year Periods ${ }^{221}$


Source: Bureau of Economic Analysis.

I also calculated average GDP growth over five year periods. In that case, average annual GDP growth rate was greater than 4.35 percent in 70 of 82 periods (see Chart 17).

Chart 17: Average Annual GDP Growth Measured over Five-Year Periods ${ }^{222}$

Q. What is your response to Mr. Gorman's assertion that your payout ratio assumption is "unreasonable"?
A. Mr. Gorman argues that there is "no reason" to expect the dividend payout ratio of the proxy group to increase or change between growth stages of the model. ${ }^{223}$ However, as noted in my Direct Testimony there are several reasons why management may adjust dividend payments in the near term, such as increases or decreases in expected capital spending. ${ }^{224}$ Over the long term, it is reasonable to assume that payout ratios will converge to the industry average; that is, the

Ibid.
Direct Testimony of Michael P. Gorman, at 72.
Direct Testimony of Robert B. Hevert, at 33.
analysis assumes that short-term trends in the payout ratio will not continue in perpetuity.

I also note that several of Mr. Gorman’s proxy companies recently have discussed target payout ratios that are highly consistent with my 67.30 percent assumption. For example, in first and second quarter 2016 investor relations presentations, Alliant Energy, NorthWestern Corporation, and Xcel Energy all noted target payout ratios in the range of 60.00 percent to 70.00 percent. ${ }^{225}$ Consequently, I disagree with Mr. Gorman's position that a long-term payout ratio of approximately 67.00 percent is unreasonable.

## IV. RESPONSE TO SFHHA WITNESS BAUDINO

## Q. Please summarize Mr. Baudino's ROE analyses and ROE recommendation in this proceeding.

A. Mr. Baudino recommends an ROE of 9.00 percent, which is based on the results of his Constant Growth DCF analyses. ${ }^{226}$ Mr. Baudino also performs several CAPM analyses, but does not rely on them to set his recommended ROE. ${ }^{227}$

Mr. Baudino notes that interest rates declined from January 2008 through May 2016, and suggests that the required Return on Equity also is lower. ${ }^{228}$ As to the Company's capital structure, Mr. Baudino proposes a hypothetical 55.00 percent

Ibid., at 41-42.
Ibid., at 6.
equity ratio. ${ }^{229}$ Lastly, because he believes they are accounted for in the stock prices used in DCF analyses, Mr. Baudino suggests it is unnecessary to reflect flotation costs in his ROE estimate. ${ }^{230}$

[^4]
## A. Proxy Group Composition

Q. Please summarize the criteria by which Mr. Baudino selected his proxy group.
A. Mr. Baudino began with the electric utilities included in the June 2016 issue of AUS Utility Reports, and arrived at his proxy group by excluding companies that:

1. Were not rated at least "A" by Standard and Poor's or Moody's Investor Service;

Ibid., at 50.
Ibid., at 66-67.
2. Have less than 50.00 percent of their revenues from electric operations;
3. Do not have growth rates from Value Line and either Zacks or Thomson Financial;
4. Have recently cut or eliminated dividends; or
5. Were recently, or currently are involved in merger activities or significant restructuring. ${ }^{231}$

Based on those criteria, Mr. Baudino developed a group of twelve companies. Exhibit RBH-19 provides a comparison of the companies included in our respective proxy groups.
Q. Are the scope and definition of the screens applied by Mr. Baudino generally consistent with those used in your Direct Testimony?
A. Although certain of the screening criteria are common to our analyses, there are certain differences between our approaches.
Q. What are the primary differences between you and Mr. Baudino with respect to screening criteria?
A. The majority of the difference in our approaches relate to Mr. Baudino's use of proxy companies that: (1) receive less than 60.00 percent of their regulated net income from electric operations; (2) do not have meaningful amounts of regulated generating assets. In addition, seven companies included in my proxy group were excluded by Mr. Baudino because their bond credit ratings were below A from S\&P or Moody's.

Ibid., at 28.

I also excluded Edison International ("EIX") from my proxy group based on recent financial information. EIX's merchant generation business unit was placed into Chapter 11 bankruptcy and subsequently sold to NRG Energy. ${ }^{232}$ Although the sale of that segment was completed in April 2014, ${ }^{233}$ there are continuing effects on the company's near-term financial outlook associated with a settlement agreement related to the business units' bankruptcy, including required payments of $\$ 204$ million in 2015, and $\$ 214$ million in 2016. Consequently, I excluded EIX from my proxy group.

Despite those differences, the composition of our respective proxy groups has little effect on the differences in our analytical results. ${ }^{234}$ Consequently, the analyses accompanying my Rebuttal Testimony include results for a Combined Proxy Group that contains most of the proxy companies relied on by the ROE witnesses in this case. ${ }^{235}$

See, Edison International, SEC Form 10-K, for the Fiscal Year Ended December 31, 2013, at 3536.

See, Edison International, SEC Form 10-K, for the Fiscal Year Ended December 31, 2014, at 104. For example, Mr. Baudino reports an average Value Line Beta coefficient of 0.73 (see Exhibit No.__(RAB-9), while the average Value Line Beta coefficient for my proxy group, excluding recent mergers, is 0.75 as of June 30, 2016.
As discussed in my response to Dr. Woolridge, I continue to exclude companies that have been party to a merger or significant transaction, or that do not own generation assets.

## B. Application of the Constant Growth DCF Analysis

Q. Please briefly describe Mr. Baudino's Constant Growth DCF analysis and results.
A. Mr. Baudino calculates an average dividend yield of 3.44 percent by dividing each proxy company's annualized dividend by its average monthly stock price for the six-month period ending May 2016. ${ }^{236}$ For the expected growth rate, Mr. Baudino relies on Earnings Per Share growth rate projections from Value Line, Zacks, and Thomson Financial, as well as Dividend Per Share growth rate projections from Value Line. ${ }^{237}$ Mr. Baudino then calculates DCF results based on the mean and median growth rate of the four sources noted above, producing eight ROE estimates, ranging from 8.15 percent to 9.54 percent. ${ }^{238}$

Mr. Baudino refers to the DCF results produced using mean growth rates as "Method 1", and DCF results produced using median growth rates as "Method 2". The mean DCF results of his Methods 1 and 2 were 8.64 percent and 8.87 percent, respectively. ${ }^{239}$

Lastly, Mr. Baudino considers a form of "sustainable growth", although he does not appear to include that estimate in his final DCF analyses.
$\qquad$ (RAB-7).
Ibid.
Q. What are your concerns with Mr. Baudino's selection of growth rates for the DCF models.
A. I disagree with Mr. Baudino's use of projected dividend growth rates in estimating the Cost of Equity and the form of "sustainable growth" described in Mr. Baudino’s Direct Testimony. As discussed in my response to Dr. Woolridge, academic literature supports the use of earnings growth rates in the DCF model. As also discussed in my response to Dr. Woolridge, my analyses demonstrate that only earnings growth rates have a statistically significant ability to explain valuation levels.
Q. Please describe the sustainable growth rate estimate used by Mr. Baudino.
A. Mr. Baudino states that he "utilized the sustainable growth formula", which he appears to have taken from Value Line's projected "Retained to Common Equity" rate. ${ }^{240}$ As Mr. Baudino explains, the estimate is calculated as the product of the expected earned return on common equity ("R"), and the retention ratio (i.e., the portion of earnings not paid out in dividends, or "B").

## Q. Do you agree with Mr. Baudino's sustainable growth rate estimate?

A. No, I do not. As discussed in my response to Dr. Woolridge, the sustainable growth model assumes that growth is a function of expected earnings, and the extent to which those earnings are retained (that is, not paid out in dividends). Mr. Baudino relies on the simplest form of the sustainable growth model, which sometimes is referred to as the "B x R" approach (where " $B$ " is the earnings Ibid., at 31.
retention rate, and " R " is the expected Return on Common Equity). As Exhibit RBH-34 demonstrates, the $\mathrm{B} \times \mathrm{R}$ method is essentially equal to Value Line's "Retained to Common Equity" rate (differences are due to rounding).

If Mr. Baudino is going to consider a form of sustainable growth, he should use the "BR + SV" form of the model, which reflects growth from both internally generated funds (i.e., the "BR" term) and from issuances of equity (i.e., the "SV" term). As noted above, the first term is the product of the retention ratio (i.e., "B", or the portion of net income not paid in dividends) and the expected return on equity (i.e., "R"). The "SV" term can be represented as:

$$
\left(\frac{m}{b}-1\right) \times \text { Growth Rate in Common Shares }
$$

Where:

In this form, the "SV" term reflects an element of growth as the product of (1) the growth in shares outstanding and (2) that portion of the market-to-book ratio that exceeds unity.

In addition, it is important to realize that for the purpose of setting utility rates, sustainable growth requires an estimate of the expected earned Return on Common Equity. Since the "R" in the "B x R" approach refers to the equity return, Mr. Baudino effectively has pre-supposed the Return on Common Equity projected by Value Line for his proxy group companies. Notwithstanding that Mr. Baudino has assumed the reasonableness of Value Line’s projections for the
purpose of his sustainable growth calculation, as demonstrated in Exhibit RBH34, his recommended Cost of Equity of 9.00 percent is 108 basis points below the mean Return on Common Equity estimate (for his proxy group) of 10.08 percent.
Q. Putting aside those concerns, did Mr. Baudino use the sustainable growth estimate in arriving at his DCF estimate?
A. No, he did not. Exhibit No.__(RAB-7), page 2 provides the DCF calculations that support Mr. Baudino's ROE recommendation; that page does not reference the sustainable growth estimate. In addition, I have replicated Mr. Baudino's Exhibit No.___(RAB-7), page 2 (see Exhibit RBH-35), and confirmed that Mr. Baudino's DCF estimates do not include his sustainable growth estimate.

## C. Multi-Stage DCF Analysis

Q. What are Mr. Baudino's concerns with your Multi-Stage DCF analysis?
A. Mr. Baudino considers it "highly unlikely" that investors consider Multi-Stage DCF analyses, and he is concerned I have provided no evidence that investors (1) use GDP growth in their evaluation, or (2) rely on payout ratio assumptions similar to those included in my Multi-Stage DCF analysis. ${ }^{241}$
Q. Do you agree with Mr. Baudino's suggestion that it is "highly unlikely" that investors use Multi-Stage DCF models?
A. No, I do not. As discussed in my Direct Testimony, the Constant Growth DCF Model requires a set of assumptions that can be quite limiting, and inconsistent
with prevailing and expected conditions. Mr. Baudino has provided no basis to assume that investors would prefer the limited structure of the Constant Growth DCF Model to the more flexible Multi-Stage form. As to the use of Multi-Stage models, D. Roger Morin notes that it is "consistent with current valuation practices of institutional investors and is a common estimation technique used by financial analysts." ${ }^{242}$ For example, Morningstar describes a three-stage DCF approach (generally consistent with the model included in my Direct Testimony) in which the final stage assumes that long-run growth moves toward that of the overall economy. ${ }^{243}$ In addition, while we disagree on certain aspects of the application of the Multi-Stage DCF model, I note both Dr. Woolridge and Mr. Gorman also consider Multi-Stage DCF analyses.

## Q. Is GDP commonly used as a long-term growth rate assumption?

A. Yes, it is. As noted in my response to Dr. Woolridge, the use of expected longterm GDP growth in the terminal period is consistent with practice and financial literature. Morningstar's Multi-Stage DCF approach (noted above), for example, is similar to my methodology, including the use of GDP in the terminal growth period. ${ }^{244}$ Nonetheless, if Mr. Baudino is of the view that (1) the Constant Growth DCF model is the better alternative, and (2) expected GDP growth is not a relevant measure of terminal growth, I have addressed those concerns by

Roger A. Morin, New Regulatory Finance, Public Utilities Reports, Inc., 2006, at 266. See, Ibbotson SBBI 2013 Valuation Yearbook, Morningstar, Inc., at 50-52. Ibid.
calculating the terminal value by reference to the proxy companies’ recent $\mathrm{P} / \mathrm{E}$ ratios. ${ }^{245}$

## Q. What is your response to Mr. Baudino's concern with your assumption regarding payout ratios? ${ }^{246}$

A. I believe it is reasonable to assume that near-term payout ratios likely reflect downward pressure due to increased utility capital requirements, but will revert to the long-term industry average over the horizon of the DCF analysis. I note that assumption is consistent with the Value Line data presented in Mr. Baudino's Exhibit No.___(RAB-7), which indicates near-term dividend growth is expected to outpace earnings growth by approximately 130 basis points, on average, for Mr. Baudino’s proxy group. In that regard, it is the Constant Growth DCF model relied on by Mr. Baudino (which assumes that payout ratios will remain unchanged in perpetuity) that is inconsistent with investor expectations.

Moreover, as discussed in more detail in my response to Mr. Gorman, a number of electric utility companies have indicated that their payout ratios likely will increase, and that they are targeting payout ratio ranges highly consistent with the long-term industry average used in my Multi-Stage DCF analysis.

As noted earlier, the Constant Growth DCF model assumes a constant P/E ratio, in perpetuity. Direct Testimony of Richard A. Baudino, at 68.

## D. Capital Asset Pricing Model

## Q. Please summarize Mr. Baudino's CAPM analyses.

A. As noted earlier, Mr. Baudino performs two sets of CAPM analyses. His first set calculates two Market Risk Premium measures, which rely on the forecasted market total return as determined using Value Line projections, and five and 20year Treasury security yields (i.e., 1.40 percent and 2.34 percent, respectively). Mr. Baudino calculates a total growth rate for the market of 10.44 percent, using the average of the book value and earnings growth forecasts ( 7.00 percent and 11.00 percent, respectively) for all companies covered by Value Line. Mr. Baudino combines that average growth rate with Value Line's average expected dividend yield of 0.84 percent for the same group of companies, and calculates an expected market return of 10.44 percent. ${ }^{247}$

Mr. Baudino's two Market Risk Premium measures represent the difference between (1) his calculated expected market total return, and (2) the current yield on five and 20-year Treasury securities. Mr. Baudino arrives at his CAPM results using the average Value Line Beta coefficient of 0.73 for his proxy companies. ${ }^{248}$

Mr. Baudino's second set of CAPM analyses calculate the geometric and arithmetic mean long-term annual returns on stocks, and long-term annual income returns on long-term government bonds, resulting in two historical measures of

Exhibit No.___(RAB-8).
the Market Risk Premium. ${ }^{249}$ Mr. Baudino uses those two Market Risk Premium measures in combination with the current 20-year Treasury bond yield and the average Value Line Beta coefficient to calculate two additional CAPM results.

Although Mr. Baudino advises the Commission to consider only his DCF results in establishing the Company's ROE, he does report CAPM results ranging from 6.02 percent to 8.28 percent, reasoning that those results indicate that his 9.00 percent ROE recommendation is "generous". ${ }^{250}$
Q. Do you agree with Mr. Baudino's application of the CAPM and his interpretation of its results?
A. No, there are two areas in which I disagree with Mr. Baudino: (1) the term of the Treasury security used as the risk-free rate component of the model; and (2) the calculation of the Market Risk Premium. In addition, for the reasons discussed throughout my Rebuttal Testimony, I disagree that Mr. Baudino's 9.00 percent ROE recommendation is "generous".
Q. Turning first to the risk-free rate component, why do you disagree with Mr. Baudino's use of five and 20-year Treasury securities as the measure of the risk-free rate?
A. As discussed below, the tenor of the risk-free rate used in the CAPM should match the life (or duration) of the underlying investment. As noted by Morningstar:

Direct Testimony of Richard A. Baudino, at 38 and Exhibit No. $\qquad$ (RAB-9).
Ibid., at 41-42.

The traditional thinking regarding the time horizon of the chosen Treasury security is that it should match the time horizon of whatever is being valued. When valuing a business that is being treated as a going concern, the appropriate Treasury yield should be that of a long-term Treasury bond. Note that the horizon is a function of the investment, not the investor. If an investor plans to hold stock in a company for only five years, the yield on a five-year Treasury note would not be appropriate since the company will continue to exist beyond those five years. ${ }^{251}$

Pratt and Grabowski recommend a similar approach to selecting the risk-free rate: "In theory, when determining the risk-free rate and the matching ERP you should be matching the risk-free security and the ERP with the period in which the investment cash flows are expected." ${ }^{252}$ To that point, a 2004 paper titled Applying The Capital Asset Pricing Model by Robert Harris reviews current practices for application of the CAPM and, when summarizing best current practices, concludes " $[t]$ he risk-free rate should match the tenor of the cash flows being valued." ${ }^{253}$ As a practical matter, equity securities represent a perpetual claim on cash flows; 30-year Treasury bonds are the longest-maturity securities available to match that perpetual claim.

Morningstar, Inc., 2013 Ibbotson Stocks, Bonds, Bills and Inflation Valuation Yearbook, at 44. Shannon Pratt and Roger Gabrowski, Cost of Capital: Applications and Examples, 3rd Ed. (Hoboken, NJ: John Wiley \& Sons, Inc., 2008), at 92. "ERP" is the Equity Risk Premium. Paper cited with permission of author.

One measure of the term of expected cash flows is Equity Duration. In finance, "duration" (whether for bonds or equity) typically refers to the present value weighted time to receive the security's cash flows. In terms of its practical application, duration is a measure of the percentage change in the market price of a given stock in response to a change in the implied long-term return of that stock. A common investment strategy is to "immunize" the portfolio by matching the duration of investments with the term of the underlying asset in which the funds are invested, or the term of a liability being funded.

As demonstrated in Exhibit RBH-36, the average Equity Duration of the companies in Mr. Baudino's proxy group is approximately 30.47 years. Given that relatively long Equity Duration, and knowing that utility assets are comparatively long-lived, I continue to believe that it is appropriate to use the long-term Treasury yield as the measure of the risk-free rate.
Q. Is Mr. Baudino's assumption that five and 20-year Treasury yields are equally valid measures of the risk-free rate supported by his data?
A. No, it is not. As discussed above, the mean Equity Duration of the companies in Mr. Baudino's proxy group is 30.47 years. In comparison, the current duration of five-year, 20 -year and 30 -year Treasuries are $4.88,16.57$, and 21.46 years respectively. ${ }^{254}$ Although the duration of even the longest-term Treasury security falls short of the average Equity Duration for Mr. Baudino's proxy group, the 30See Exhibit RBH-37.
year Treasury yield provides the longest available duration and, therefore, is the best available security for that purpose. The principle of duration is relevant to the electric utility stocks that comprise Mr. Baudino's proxy group, given that institutional investors own (on average) 75.75 percent of those companies’ shares. ${ }^{255}$
Q. Putting aside the issue of Equity Duration, does Mr. Baudino's DCF model recognize the perpetual nature of equity?
A. Yes, it does. As Mr. Baudino correctly observes, the Constant-Growth DCF model assumes growth in perpetuity: "the stream of income from the equity share is assumed to be perpetual; that is, there is no salvage or residual value at the end of some maturity date (as is the case with a bond)." ${ }^{256}$
Q. What would be the effect of assuming the companies in Mr. Baudino's proxy group only provided cash flows to equity investors over five or 20 years?
A. As shown in Exhibit RBH-38, assuming a 20-year holding period, the mean and median DCF would be 1.44 percent, and 1.69 percent, respectively. Interestingly, both of those ROE estimates are below Mr. Baudino’s assumed 2.34 percent riskfree rate (i.e., six month average of the 20-year Treasury yield). Assuming a holding period of five years produces mean and median ROE estimates of negative 36.93 percent and negative 36.50 percent, respectively. The only way Mr. Baudino's DCF results could be realized is if the shares were sold at the end of the five and 20-year holding periods, and the prices at which they are sold

Source: SNL Financial.
Direct Testimony of Richard A. Baudino, at 26.
reflect cash flows in perpetuity. Those results support the point made earlier in my testimony: The risk-free rate should reflect the perpetual nature of equity. Because the longest-dated Treasury security is 30 years, that is the appropriate term for this purpose.

## Q. What is your response to Mr. Baudino's suggestion that "the risk-free rate should have no interest rate risk?" ${ }^{257}$ <br> A. The process of duration matching mitigates interest rate risk. In any event, if Mr. Baudino is concerned with interest rate risk, he should focus exclusively on shortterm Treasury Bills as the risk-free rate. Doing so, of course, would further decrease his already-low CAPM estimates. Consequently, I disagree with Mr. Baudino's position that interest rate risk disqualifies the 30-year Treasury yield as the appropriate measure of the risk-free rate.

## Q. What concerns do you have with Mr. Baudino's ex-ante Market Risk Premium calculations?

A. In arriving at his ex-ante Market Risk Premium estimates, Mr. Baudino calculates the expected market return using an average of earnings growth projections (11.00 percent) and book value growth projections (7.00 percent). As noted above, academic research indicates investors rely on estimates of earnings growth in arriving at their investment decisions. The analysis presented in Exhibit RBH-22 (discussed in more detail in my response to Dr. Woolridge) also demonstrates book value growth rates are not a statistically significant indicator of electric

Ibid., at 62.
utility company valuations. In that regard, Mr. Baudino did not include book value growth projections in his proxy group-based DCF analysis. He has not explained, however, why it is reasonable to include those growth rates in his MRP analysis but exclude them from his proxy company DCF analyses. Excluding book value growth estimates from Mr. Baudino’s market return calculation would increase his MRP estimate by 1.00 percentage points (100 basis points).

## Q. Do you agree with Mr. Baudino's use of historical estimates of the MRP?

A. No, I do not. The MRP represents the additional return required by equity investors to assume the risks of owning the "market portfolio" of equity relative to long-term Treasury securities. As with other elements of Cost of Equity analyses, the MRP is meant to be a forward-looking parameter. As Morningstar observes:

It is important to note that the expected equity risk premium, as it is used in discount rates and cost of capital analysis, is a forward looking concept. That is, the equity risk premium that is used in the discount rate should be reflective of what investors think the risk premium will be going forward. ${ }^{258}$

That is why the MRP estimates used in my CAPM analyses specifically rely on forward-looking, market-based estimates of the expected market return.

## Q. Please briefly summarize Mr. Baudino's comments regarding your ex-ante CAPM analyses.

A. Mr. Baudino disagrees with my ex-ante Market Risk Premium, noting that the underlying growth rates "are by no means long-run sustainable growth rates." 259 Mr. Baudino further suggests that the forecasted Treasury bond yields relied upon in my CAPM analyses are "speculative at best and may or may not come to pass."260
Q. Do you agree with Mr. Baudino's concerns in that regard?
A. No, I do not. As discussed in my response to Mr. Gorman, my estimates of the Market Risk Premium and the growth rates underlying them are consistent with historical measures.

Regarding the use of projected interest rates, it is important to remember that, as Mr. Baudino states, "[r]eturn on equity analysis is a forward-looking process." ${ }^{261}$ In that regard, Mr. Gorman, Dr. Woolridge, and I consider forward-looking estimates of the risk-free rate. Even if Mr. Baudino is concerned that the projections may not come to pass, the increases in forward long-term Treasury yields demonstrate that investors believe interest rates are likely to rise. ${ }^{262}$ Because our analyses are predicated on market expectations, the expected

Direct Testimony of Richard A. Baudino, at 63.
Ibid., at 62.
Ibid., at 30.
See, Chart 13.
increase in Treasury yields (as reflected in increasing forward rates) is a measurable and relevant data point.

## E. Bond Yield Plus Risk Premium Approach

## Q. What concerns does Mr. Baudino express regarding your Bond Yield Plus Risk Premium analyses?

A. Mr. Baudino suggests that the Bond Yield Plus Risk Premium method is "imprecise and can only provide very general guidance," and notes that "[r]isk premiums can change substantially over time." ${ }^{263}$ In summary, Mr. Baudino likens the approach to a "blunt instrument". ${ }^{264}$ As to its application, Mr. Baudino disagrees with the use of projected Treasury yields in calculating the range of Risk Premium-based results.

## Q. What is your response to Mr. Baudino's observations?

A. As to Mr. Baudino's point that the Risk Premium can change over time, I agree. As noted in my Direct Testimony (and as discussed in my response to Mr . Gorman), there is a statistically significant negative relationship between longterm Treasury yields and the Equity Risk Premium. Given Mr. Baudino’s observation that interest rates have declined since 2008, the Bond Yield Plus Risk Premium analysis provides an empirically and theoretically sound method of quantifying the relationship between the Cost of Equity and interest rates. That is, it provides a method to quantify the change that Mr. Baudino has observed.

As to Mr. Baudino's notion that the approach is a "blunt instrument," I disagree. As shown in Exhibit RBH-12, the R-squared of the Bond Yield Plus Risk Premium regression analysis is 0.71 , indicating a rather high degree of explanatory value. In comparison, Beta coefficients calculated based on the Value Line methodology have a mean R-squared of only 0.19 (see Exhibit RBH39).

As Exhibit RBH-40 demonstrates, using the 95.00 percent confidence interval of the Bond Yield Plus Risk Premium regression's equation coefficient estimates, the ROE results range from 9.47 percent to 10.89 percent. That 142 basis point range is approximately equal to the range of DCF model results reported by Mr . Baudino ( 8.15 percent to 9.54 percent, or 139 basis points). ${ }^{265}$ It also is considerably less than the range of CAPM results reported by Mr. Baudino (6.02 percent to 8.28 percent, or 226 basis points). Consequently, the Bond Yield Plus Risk Premium approach provides empirically and theoretically sound results that can be used, at minimum, to assess the wide range of ROE results produced by Mr. Baudino's analyses in general, and his 9.00 percent recommendation in particular.

Ibid., at 41.
Q. Please now summarize Mr. Baudino's response to your proposed flotation cost adjustment.
A. Mr. Baudino believes it is "likely that flotation costs are already accounted for in current stock prices" and that an adjustment to the DCF result would amount to "double counting."266

## Q. Do you agree with Mr. Baudino's concerns?

A. No, I do not. Mr. Baudino states that "[m]ultiplying the dividend yield by a $4 \%$ flotation cost adjustment, for example, essentially assumes that the current stock price is wrong and that it must be adjusted downward to increase the dividend yield and the resulting cost of equity." ${ }^{267}$

The flotation cost estimate used in my Direct Testimony, however, is well below 4.00 percent. Moreover, the adjustment is not calculated by "[m]ultiplying the dividend yield by a $4 \%$ flotation cost adjustment", as Mr. Baudino suggests. Rather, it is calculated by dividing the dividend yield by a factor of ( 1 - flotation costs). ${ }^{268}$ Further, Mr. Baudino’s suggestion that current prices "likely" account for flotation costs is misplaced. Because of direct issuance costs (such as those provided in Exhibit RBH-9 to my Direct Testimony), the net proceeds received by the Company were less than the market price of the offerings. Absent a direct

Direct Testimony of Richard A. Baudino, at 66 .
Ibid., at 67.
See, Exhibit RBH-18.
recovery of those costs, the ROE should be adjusted to reflect that deficiency (which will persist in perpetuity).

I also note that although Mr. Baudino suggests that current prices "likely" account for flotation costs, he has provided no analyses as to what costs are reflected in prices, or how prices have adjusted in response to those costs. Conversely, my Direct Testimony provided a summary of direct costs incurred by the proxy companies to acquire the equity capital needed to fund the Company's rate base.

## G. Relative Risk and Financial Integrity

## Q. Has Mr. Baudino expressed any concerns with your consideration of the business risks associated with FPL? <br> A. Yes. Mr. Baudino suggests that the Company's credit rating already accounts for the risks discussed in my Direct Testimony.

Q. Do you believe that credit ratings are an appropriate measure to determine the relative risk of FPL relative to the proxy group?
A. Not entirely. As discussed in my response to Dr. Woolridge, credit ratings are directed toward the interests of debt investors. The view that differences in credit ratings "notches" among investment grade utilities can be used as a proxy for differences in the Cost of Equity fails to recognize the senior position that debt holders have relative to equity holders, and the investment horizon considered by equity holders. Moreover, Exhibit RBH-26 shows that there is not a quantifiable relationship between the proxy companies' credit ratings and Cost of Equity.
Q. Does the fact that Standard \& Poor's ranks FPL as having an "Excellent" Business Risk Profile indicate they have less risk than other electric utilities?
A. No, it does not. A review of recent regulated electric utilities credit ratings from S\&P Ratings Direct highlighted the prevalence of "Excellent" business risk profiles among electric utilities. Of 107 electric utility operating companies, S\&P reported that 79 companies (i.e., approximately 75.00 percent) had "Excellent" business risk profiles (see Exhibit RBH-41). Among those with "Excellent" business risk profiles, S\&P’s credit ratings ranged from as high as AA- to as low as BB+ (i.e., below investment grade). As such, FPL's "Excellent" business risk profile from S\&P does not distinguish the Company as being less risky than other electric utilities, nor does it insulate the Company from the detrimental effects of Mr. Baudino's ROE recommendation.

## H. Capital Structure

Q. What is Mr. Baudino's position with regard to the Company's capital structure?
A. Mr. Baudino recommends an equity ratio of 55.00 percent if the Commission authorizes an ROE of 9.00 ROE, but an equity ratio of 53.00 percent if the allowed ROE is higher than 9.00 percent. ${ }^{269}$ In support of his recommendation, Mr. Baudino notes the single highest equity ratio, at the holding company level, for his proxy group is approximately 55.00 percent and that the average equity
ratio for the proxy group used in my Direct Testimony was approximately 53.00 percent.

As discussed in my response to Dr. Woolridge, I believe the appropriate comparison is to the range of equity ratios in place at similar operating electric utilities. Reviewing the capital structures in place at the electric utility operating companies held within the Combined Proxy Group, it is apparent FPL's equity ratio is consistent with the proxy group's financing practices. I further discuss the Company's capital structure in response to Mr. O’Donnell.

## V. RESPONSE TO WAL-MART WITNESS CHRISS

## Q. Please summarize Mr. Chriss' testimony regarding the Company's ROE.

A. Mr. Chriss opposes my recommendation because it is higher than the average of authorized ROEs from regulatory commissions, both nationally and in Florida, since 2013. ${ }^{270}$ Mr. Chriss also argues that the Commission should consider the Company's future test year and the percentage of revenues recovered through base rates versus cost recovery mechanisms. ${ }^{271}$ Lastly, Mr. Chriss suggests that the Commission consider the effect of increases in rates on retailers. Chriss did not, however, undertake an independent, market-based analysis of the Company's Cost of Equity.

See, Direct Testimony of Steve W. Chriss, at 10-11. Ibid., at 9-10.

## Q. Have you reviewed and updated the information contained in Mr. Chriss' Exhibit SWC-4?

A. Yes. As shown in Exhibit RBH-42, I have updated Mr. Chriss’ Exhibit SWC-4 and added jurisdictional rankings from Regulatory Research Associates ("RRA"). RRA, which is the source of Mr. Chriss' rate case data, provides an assessment of the extent to which regulatory jurisdictions are constructive from investors' perspectives, or not. As RRA explains, less constructive environments are associated with higher levels of risk:

RRA maintains three principal rating categories, Above Average, Average, and Below Average, with Above Average indicating a relatively more constructive, lower-risk regulatory environment from an investor viewpoint, and Below Average indicating a less constructive, higher-risk regulatory climate from an investor viewpoint. Within the three principal rating categories, the numbers 1,2 , and 3 indicate relative position. The designation 1 indicates a stronger (more constructive) rating; 2, a mid range rating; and, 3, a weaker (less constructive) rating. We endeavor to maintain an approximately equal number of ratings above the average and below the average. ${ }^{272}$

Sorting the data relating to Mr. Chriss' Exhibit SWC-4 by RRA's ranking, two points become apparent. First, looking at all cases there is an approximately 45
basis point difference between the average return for "Above Average" and "Average" jurisdictions (the higher-ranked jurisdictions providing the higher authorized returns), and a 25 basis point difference between "Average" and "Below Average" jurisdictions (see Table 6, below). As Table 6 indicates, ROEs for Vertically Integrated electric utilities in "Above Average" jurisdictions range from 9.70 percent to 10.95 percent, with a median of 10.20 percent.

Table 6: Average Authorized ROE by RRA Ranking

|  | AUTHORIZED ROE: <br> VERTICALLY <br> INTEGRATED |  |  |
| :--- | :---: | :---: | :---: |
| RRA Ranking | Above <br> Avg. | Avg. | Below <br> Avg. |
| Total Cases | 18 | 46 | 7 |
| Minimum | 9.70 | 9.00 | 9.48 |
| Mean | 10.17 | 9.79 | 9.70 |
| Median | 10.20 | 9.80 | 9.70 |
| Maximum | 10.95 | 10.30 | 9.96 |

Those observations are important since (as discussed in my response to Mr . O'Donnell, below) the authorized ROE is a very visible measure of the regulatory environment in which utilities operate. The regulatory environment, in turn, is important to utility analysts and investors.
Q. Please now summarize Mr. Chriss' concerns regarding the effect of a rate increase on retailers.
A. Mr. Chriss states that "electricity is a significant operating cost for retailers", and that "[w]hen electric rates increase, that increased cost to retailers can put pressure on consumer prices and on the other expenses required by a business to
operate." ${ }^{273}$ Mr. Chriss suggests that the Commission "should thoroughly and carefully consider the impact to customers in examining the requested revenue requirement and ROE, in addition to all other facets of this case, to ensure that any increase in the Company's rates is only the minimum amount necessary to provide adequate and reliable service, while also providing an opportunity to earn a reasonable return." ${ }^{274}$

Although Mr. Chriss points out certain pressures that apply to retail businesses such as Wal-Mart, those companies have options not available to regulated utilities such as FPL. Wal-Mart has the option to choose whether, where, and when to open retail stores; what services or products will be offered; whether to invest in expansions, or whether to cease operations in a given location. Further, retail businesses may choose to increase their prices without gaining the approval of regulatory commissions. Quite simply, the options available to retailers such as Wal-Mart are not available to regulated utilities. Such options have value; forgoing those options comes at a cost.

Lastly, despite the pressures that Mr. Chriss discusses, since 200 Wal-Mart's Return on Shareholders' Equity has averaged over 20.00 percent. ${ }^{275}$ Value Line currently estimates Wal-Mart's Beta coefficient to be 0.65, and assesses WalMart's Financial Strength as A++. NextEra Energy, on the other hand, has a Beta
coefficient of 0.70, and a Financial Strength rating of A. By those measures, WalMart is measurably less risky than NextEra Energy. ${ }^{276}$

Chart 18: Wal-Mart Return on Shareholders' Equity and Unemployment rates (2005-2015) ${ }^{277}$

Q. What is your response to Mr. Chriss' recommendation that the commission "examine" the proposed ROE in light of the company's future test year and cost recovery mechanisms?
A. Mr. Chriss asks the Commission to "examine" the proposed ROE in light of the company's future test year and percentage of revenue derived from cost recovery mechanisms, however he does not provide any explanation or analysis to support how these factors would affect FPL's ROE. ${ }^{278}$

Source: Value Line, as of May 20, 2016. Please note that Value Line does not separately rate FPL.
Sources: Value Line; Bureau of Labor Statistic (www.bls.gov).
Direct Testimony of Steve Chriss, at 13-14.

In that regard, the position that a reduction in revenue volatility necessarily requires a reduction in the Cost of Equity runs counter to Modern Portfolio Theory, which is the fundamental basis of the Capital Asset Pricing Model. Under Modern Portfolio Theory, total risk is separated into two distinct components: non-diversifiable risk, which is that portion of risk that can be attributed to the market as a whole; and non-systematic (or diversifiable) risk, which is attributable to the idiosyncratic nature of the subject company itself and, therefore, can be diversified away. Any reduction in the Cost of Equity depends on the type of risk that is reduced. If the risk assumed to be mitigated by rate mechanisms is diversifiable, there would be no reduction in the Cost of Equity because investors could otherwise mitigate the risk through portfolio diversification. If, on the other hand, the risk is non-diversifiable (that is, systematic), it may be that the factors that drove the need to implement the mechanisms also are systematic. That is, if the factors that drove the implementation of rate structures reflected increased systematic risk, those structures would offset that incremental risk and there would be no reduction in the Cost of Equity. Either way, Mr. Chriss has not addressed that crucial issue.

## Q. How common are revenue stabilization and cost recovery mechanisms?

A. There is little question that revenue stabilization and cost recovery structures are becoming increasingly common. The increased use of such mechanisms has generally resulted from the growing cost of maintaining system reliability, coupled with the flat or declining sales volume. Adjustment mechanisms to recover fuel costs, purchased power expenses, energy efficiency and demand-side
program costs, new plant investment, and other expenses are common. ${ }^{279}$ In addition, decoupling has been implemented by electric utilities in 27 jurisdictions. ${ }^{280}$ Consequently, the implementation of alternative regulation mechanisms has become an increasingly visible issue to investors.

## Q. Are revenue stabilization mechanisms common among the proxy companies?

A. Yes, they are. Exhibit RBH-43 provides a summary of revenue stabilization mechanisms and cost trackers currently in effect at each electric utility subsidiary of the Combined Proxy Group companies. As Exhibit RBH-43 demonstrates, there are a substantial number of cost recovery mechanisms in place at the proxy companies. Although those mechanisms are diverse, they each address issues related to the timing or certainty of cost recovery. Exhibit RBH-43 also includes a summary of the alternative regulation and incentive plans currently in effect at the proxy companies. Those regulatory constructs include formula-based rate plans, which provide comprehensive adjustment mechanisms that automatically adjust rates in the event that the earned return is above or below an authorized range. Since revenue stabilization and cost recovery mechanisms are common among the proxy companies, I do not believe FPL is materially less risky than its peers by virtue of its recovery mechanisms.

See Exhibit RBH-43.
See, for example, Alternative Regulation for Emerging Utility Challenges: 2015 Update, Edison Electric Institute, November 2015, at 4-5. Includes true-up plans, lost revenue adjustment mechanisms, and fixed/variable pricing.
Q. Has Mr. Chriss considered the effect of his recommendation on the Company's financial profile?
A. No, he has not. As discussed in my response to Mr. O’Donnell (below), it is important to recognize that both Moody's and Standard \& Poor’s put considerable weight on the nature of regulation. Here, Mr. Chriss suggests that the Commission should reduce the Company's ROE by some unspecified amount without the benefit of market-based, comparative analyses to support that recommendation. The consequence of such an action likely would indicate an increased degree of regulatory risk. In my view, therefore, Mr. Chriss has not reasonably considered the effect of his recommendation on the Company's financial profile and, therefore, its ability to attract capital on reasonable terms.

## VI. RESPONSE TO OTHER ROE WITNESSES

Q. Please summarize Messrs. Brosch's and Pollock's testimony as they relate to the Company's Cost of Capital.
A. While they review recently authorized ROEs, neither Messrs. Brosch nor Pollock perform an independent analysis of the Company's cost of capital.

Based on his review of average authorized ROEs as well as changes in long-term Treasury yields, Mr. Brosch concludes capital market conditions are "very favorable" and recommends that the Commission therefore allow an ROE "that is significantly lower than the authorized ROE levels approved in recent FPL rate
orders." ${ }^{281}$ With regard to capital structure, Mr. Brosch recommends an equity ratio of no more than 47.00 percent based on his review of the average equity ratio used by large electric utility holding companies, as reported by AUS, EEI and Y Charts. ${ }^{282}$

Mr. Pollock performs a similar review of authorized ROEs for vertically integrated electric utilities and concludes that average authorized ROEs have declined and notes that the most recent authorized ROEs in Florida ranged from 10.25 percent to 10.50 percent. ${ }^{283}$ Based on that analysis Mr. Pollock concludes an 11.00 percent ROE is "excessive," and recommends the Commission authorize FPL an ROE below the average ROE allowed by other state regulatory commissions to reflect the lower risk associated with a 60.00 percent equity ratio. ${ }^{284}$ With regard to capital structure, Mr. Pollock recommends an equity ratio of 51.10 percent based on the average authorized electric utility equity ratio since 2012. ${ }^{285}$
Q. What is your response to Messrs. Brosch and Pollock regarding the appropriate ROE for FPL in relation to recently authorized ROEs?
A. First, although both witnesses argue the average authorized ROE has recently been below 10.00 percent, as discussed in my response to Mr. Chriss, the median authorized ROE for vertically integrated utilities in credit supportive jurisdictions

See, Direct Testimony of Michael L. Brosch, at 38-39.
See, Direct Testimony of Michael L. Brosch, at 48, 50-51.
Direct Testimony of Jeffry Pollock, at 30.
Ibid., at 30-31.
Ibid., at 32.
has been 10.20 percent since January 2013. Of the 18 ROEs authorized for vertically integrated electric utilities by credit supportive jurisdictions since the beginning of 2013, 16 have been 10.00 percent or higher. ${ }^{286}$

Second, neither Mr. Brosch nor Mr. Pollock took in to consideration the Company's specific business risks when determining their ROE recommendations. As discussed in my Direct Testimony and discussed above, I believe the estimation of the Cost of Equity should take into consideration FPL's risk factors, including: (1) the Company's geographic risk, including its vulnerability to severe weather conditions; (2) the Company's need to access external capital; (3) the potential for new regulatory requirements associated with nuclear generation; and (4) the potential for an increase in the Cost of Equity over the Company's proposed four year rate period. Messrs. Brosch and Pollock's simple review of average authorized ROEs does not take into account those considerations.

## Q. What is your response to Mr. Brosch's suggestion that the Company's ROE should be lowered to reflect the general decline in 30-year Treasury yields?

A. While the current 30-day average of the 30-year Treasury yield (2.50 percent as of June 30, 2016) is somewhat below the level seen at the time of the order in the Company's last rate case ( 2.81 percent as of December 13, 2012), Treasury yields have been rather volatile over the intervening period and spent much of the past few years at higher levels.

As discussed above, the recent lows in Treasury yields have been associated with a capital flight to safety associated with the "Brexit" and have recently begun to rise off the lows seen during that period. As discussed in my response to Mr . Gorman, consensus forecasts reported by Blue Chip continue to suggest investors expect rates to rise. Similarly, recent prices for options on the TLT index continue to show that investors are willing to pay a significant premium for protection against rising interest rates relative to declining interest rates. Importantly, the potential for rising rates represents risk for utility investors. For example, (as discussed above) the S\&P Electric Utility Index lost approximately 15.00 percent of its value in the first half of 2015 as Treasury yields rose 86 basis points to 3.11 percent (from the end of January to the end of June).

## Q. Have authorized ROEs changed in tandem with recent fluctuations in Treasury yields?

A. No, they have not. As shown in Chart 19 below, since January 2012 there has been no discernible relationship between the level of authorized ROEs for electric utilities and changes in long-term interest rates. The fact that authorized returns remained relatively stable over that period reflects the inverse relationship between interest rates and the Equity Risk Premium; it also may reflect the observation that utility commissions recognize that Federal policy - including "Quantitative Easing" - created unusual market conditions.

Chart 19: Authorized ROEs for Vertically Integrated Electric Utilities
(January 2012 - June 2016) and 30-Year Treasury Yields ${ }^{287}$

Q. What is your response to Messrrs. Brosch's and Pollock's recommendations regarding the Company's capital structure?
A. Mr. Brosch suggests higher debt leverage would be beneficial to ratepayers and recommends an equity ratio of 47.00 percent (or lower) based on his estimate of the industry average equity ratio. ${ }^{288}$ To support his conclusion, Mr. Brosch compares the Company's existing capital structure to the reported investor owned holding company equity ratios reported by AUS, Edison Electric Institute and Y Charts. ${ }^{289}$ As discussed in my response to Dr. Woolridge (above), my review of the actual capital structures in place at the operating companies held within my proxy group reflects the nature of assets financed by vertically integrated utilities

Source: Regulatory Research Associates and Federal Reserve Schedule H.15. Average 30-year Treasury over average lag period (200 days). Limited-issue riders are excluded. See, Direct Testimony of Michael L. Brosch, at 51. Ibid.
such as FPL. Based on that review, it is apparent that the Company's current capital structure is generally consistent with the capital structures of the proxy companies. As discussed in my response to Mr. O’Donnell (below), my updated capital structure analysis continues to support the reasonableness of the Company's capital structure.

Mr. Pollock recommends an equity ratio of 51.10 percent based on the average authorized equity ratio since $2012 .{ }^{290}$ A review of the authorized equity ratios reported in Mr. Pollock's Exhibit___(JP-4), however, shows that the Company's 59.60 percent equity ratio is within the range of equity ratios authorized to other vertically integrated electric utilities and is consistent with the Company's most recently authorized equity ratio. Given FPL's specific operating risks and capital needs, I believe the Company's current capital structure is reasonable and Mr . Pollock's suggestion to rely on the average authorized equity ratio is misplaced.

## VII. RESPONSE TO OPC WITNESS O’DONNELL

Q. Please summarize Mr. O'Donnell's recommendation regarding the Company's capital structure
A. Mr. O’Donnell recommends a capital structure of 46.93 percent long-term debt, 3.07 percent short-term debt, and 50.00 percent common equity. Mr. O'Donnell's recommendation is based on his review of other electric utility capital structures,
$\qquad$ (JP-4).
authorized equity ratios reported by RRA, and the capital structure of NextEra Energy and its unregulated subsidiaries. ${ }^{291}$

## Q. Do you agree with Mr. O'Donnell's recommended capital structure?

A. No I do not. As noted in my Direct Testimony, FPL is a separate corporate entity with its own capital structure and the Company's current capital structure is consistent with the range of capital structures in place at the operating utilities held by the proxy companies. ${ }^{292}$ As discussed by Company witness Dewhurst, FPL has maintained a stable equity ratio over time, which has provided the financial support necessary to maintain FPL's credit rating and access to capital following severe storm damage and during turbulent economic conditions. As discussed below, adding debt to the capital structure (as Mr. O’Donnell recommends) increases financial risk and, therefore, the Cost of Equity.

## Q. How does the capital structure affect the Cost of Equity?

A. In the practice of finance, we often speak of two general categories of risk: business risk and financial risk. Business risk generally includes operating, market, regulatory, and competitive uncertainties, whereas financial risk is associated with additional levels of debt in the capital structure (often referred to as "financial leverage"). As the degree of financial leverage increases, the risk of financial distress (i.e., the risk of not meeting financial obligations as they become due) also increases. In essence, even if two firms face the same business risks, the

Direct Testimony of Kevin W. O’Donnell, at 15, 21.
Direct Testimony of Robert B. Hevert, at 67.
company with higher levels of debt in its capital structure is likely to have higher total risk and, therefore, higher costs of both debt and equity.

Business and financial risk are related in that financial leverage has the effect of concentrating business risk on equity investors. By way of example, if a firm were capitalized with 100.00 percent common equity, there would be no financial risk and individual equity holders would hold pro rata shares of business risk. If the firm were capitalized with 60.00 percent equity and 40.00 percent debt, the equity investors would continue to bear residual business risk, even though they represent only 60.00 percent of the capital structure. As Brigham and Gapenski point out, "...the use of debt, or financial leverage, concentrates the firm's business risk on its stockholders."293

It is also important to recognize both the complexity and the dynamic nature of the relationship between capital structure, financial integrity, cost of capital and maintaining ongoing access to capital at reasonable costs. In particular, financing costs go beyond coupon rates, and any measure of an "optimal" capital structure must consider the numerous objectives and constraints associated with financing decisions. In my practical experience raising capital for a publicly traded utility, I can say firsthand that capital structure "optimization" is an extremely complex notion. Simply reviewing holding company or authorized equity ratios without

Eugene F. Brigham, Louis C. Gapenski, Financial Management, Theory and Practice, 1994, The Dryden Press, at 528.
considering differences in situations, constraints, or objectives is an overly simplistic approach that is likely to lead to flawed conclusions.
Q. Please describe your review of FPL's capital structure relative to industry practice.
A. In Exhibit RBH-10, I calculated the average capital structure for each of the utility operating companies held by the proxy companies over the most recent eight fiscal quarters (ending in the third calendar quarter of 2015). I have updated that analysis in Exhibit RBH-17 using the Combined Proxy Group. As that Exhibit demonstrates, for the period ending in the first quarter of 2016 the proxy group companies' average common equity ratios ranged from 45.95 percent to 61.00 percent. Based on that updated review, FPL's equity ratio remains within the range of those in place at the operating utilities of the proxy companies. Although this comparison is not specific to FPL, it does recognize that utility operating companies must finance long-lived assets, and must access capital regardless of market conditions. It also indicates that the Company's equity ratio is within the range of those in place at other vertically integrated electric utilities.
Q. Are there implications of increasing the debt component and reducing the common equity component of FPL's capital structure?
A. Yes, there are. Based on criteria established by Standard and Poor's ("S\&P"), a credit rating reflects the combination of the company's "Business Risk" rating and its "Financial Risk" rating. With regard to business risk, Standard \& Poor’s ("S\&P") has noted that:

The assessment of regulatory risk is perhaps the most important factor in Standard \& Poor's Ratings Services' analysis of a U.S. regulated, investor-owned utility's business risk. Each of the other four factors we examine--markets, operations, competitiveness, and management--can affect the quality of the regulation a utility experiences, but we believe the fundamental regulatory environment in the jurisdictions in which a utility operates often influences credit quality the most. ${ }^{294}$

Similarly, Moody's considers the regulatory structure to be so important that 50.00 percent of the factors that weigh in a ratings determination are related to the nature of regulation. ${ }^{295}$ Among the factors considered by Moody's in assessing the regulatory framework are the predictability and consistency of regulatory actions:

As the revenues set by the regulator are a primary component of a utility's cash flow, the utility's ability to obtain predictable and supportive treatment within its regulatory framework is one of the most significant factors in assessing a utility's credit quality. The regulatory framework generally provides more certainty around a utility's cash flow and typically allows the company to operate

Standard \& Poor’s, Utilities: Assessing U.S. Utility Regulatory Environments, updated November 15, 2011.
Moody’s Investors Service, Rating Methodology; Regulated Gas and Electric Utilities, at 6 (Dec. 23, 2013).
with significantly less cushion in its cash flow metrics than comparably rated companies in other industrial sectors. ***

In situations where the regulatory framework is less supportive, or is more contentious, a utility's credit quality can deteriorate rapidly. ${ }^{296}$

A decision by the Commission to increase FPL's debt ratio (i.e., increase FPL's financial leverage) therefore could adversely affect investors' perception of the regulatory environment in Florida.
Q. Please explain your concern with Mr. O'Donnell's recommendation relative
to the financial community's view of Florida regulation.
A. As discussed in my response to Mr. Chriss, Florida is considered to be a credit-
supportive jurisdiction. Any decrease in the perception of regulatory
supportiveness in Florida may increase investors' assessment of FPL's regulatory
risk (and therefore its business risk and Business Risk rating), increasing FPL's
cost of capital. As noted earlier, Moody's considers the regulatory structure to be
so important that 50.00 percent of the factors that weigh in a ratings determination
are related to the nature of regulation. are related to the nature of regulation.

As also discussed in Mr. Dewhurt's rebuttal testimony, if the Commission were to adopt Mr. O’Donnell's recommendation, it would represent a departure from Owned Utilities, at 2 (June 18, 2010).
recent precedent. In light of Moody's focus on "predictable and supportive treatment," I strongly disagree with Mr. O’Donnell that his recommendation somehow would not have any impact on how credit rating agencies view FPL. ${ }^{297}$ Such a dramatic change by the Commission from previous decisions would create an immediate and lasting concern for investors of the supportiveness of the regulation in Florida.

## Q. What is your conclusion regarding the appropriate capital structure for FPL? <br> A. It is important for FPL's capital structure to reflect the Company's risks, and to provide sufficient financial support to maintain liquidity and access to capital. Considering that the proxy company average equity ratios range from 45.95 percent to 61.00 percent, I believe that FPL's 59.60 percent common equity ratio is reasonable. Increasing FPL's debt leverage would increase its Cost of Equity, and potentially reduce investor confidence in the regulatory support for its operations and increase its financial risk. I believe it is likely the increased financial and regulatory risk would increase investors' required returns.

See, Direct Testimony of Kevin W. O’Donnell, at 25-26.

## VIII. RESPONSE TO OPC WITNESS LAWTON

Q. Please summarize Mr. Lawton's testimony regarding the supportiveness of Dr. Woolridge's ROE recommendation and Mr. O'Donnell's capital structure recommendation for FPL's financial integrity.
A. Mr. Lawton suggests that Dr. Woolridge's 8.75 percent ROE recommendation and Mr. O'Donnell's 50.00 equity / 50.00 percent debt capitalization recommendation are sufficient to maintain FPL's financial integrity. ${ }^{298}$ To support his position, Mr. Lawton notes that he reviewed credit rating agency commentary, and determined that FPL's credit quality is considered "strong," and "not threatened or under significant pressure of a downgrade." ${ }^{299}$ Mr. Lawton also performs a pro forma analysis of certain financial metrics (including Cash From Operations to Interest, Cash From Operations to Debt, and Debt to Capital) to support his position and concludes that the results "indicate strong financial metrics, supporting FPL's current bond rating." ${ }^{300}$
Q. How do ratings agencies' view the use of credit metrics in ratings determinations?
A. Ratings agencies provide benchmark guidelines that associate credit metric ranges with different credit ratings, but credit ratings are not determined by mechanical application of financial ratios to a rating matrix. For example, On November 30, 2007, S\&P released a statement announcing that electric, gas, and water utility
ratings would be "categorized under the business risk/financial risk matrix used by the Corporate Ratings group." ${ }^{301}$ S\&P also provided matrices of business and financial risk, based on "Financial Risk Indicative Ratios": FFO/Debt; FFO/Interest; and Total Debt/Capital. In that announcement, S\&P noted that: ...even after we assign a company business risk and financial risk, the committee does not arrive by rote at a rating based on the matrix. The matrix is a guide -it is not intended to convey precision in the ratings process or reduce the decision to plotting intersections on a graph. Many small positives and negatives that affect credit quality can lead a committee to a different conclusion than what is indicated in the matrix. ${ }^{302}$

On May 27, 2009, S\&P expanded its matrix, and noted the relative significance of credit metrics to the rating process:

The rating matrix indicative outcomes are what we typically observe - but are not meant to be precise indications of guarantees of future rating opinions. Positive and negative nuances in our analysis may lead to a notch higher or lower than the outcomes indicated in the various cells of the matrix.

Standard \& Poor’s Ratings Services, U.S. Utilities Ratings Analysis Now Portrayed In The S\&P Corporate Ratings Matrix, Nov. 30, 2007, at 2 - 3.
Ibid., at 3.

Moreover, our assessment of financial risk is not as simplistic as looking at a few ratios. ${ }^{303}$

Later, on September 18, 2012, S\&P further expanded its matrix, confirming that "[s]till, it is essential to realize that the financial benchmarks are guidelines, neither gospel nor guarantees."304

It is clear, therefore, that credit metrics are not relied on in a rote fashion, nor are individual metrics viewed in isolation, to the exclusion of other information. Rather, those reviews encompass broad assessments of business and financial risk, including factors that are extraneous to the standalone, mathematically derived financial metrics of the regulated utility, and which are often based on qualitative, not entirely quantitative, discussions with management.

It also should be remembered that metrics used by Mr. Lawton, (i.e., Cash Flow to Interest, Cash Flow to Debt, and Debt to Capital ratios) are derived from financial statements, including the Income Statement, Balance Sheet and Cash Flow Statement. For regulated utilities, all three are influenced by the overall rate of return allowed by regulatory commissions, which is reflected in the revenue requirement. The metrics therefore are a result of the regulatory process, i.e., the overall rate of return, which in turn is a function of the capital structure (debt and

Standard \& Poor’s Ratings Services, Criteria Methodology: Business Risk/Financial Risk Matrix Expanded, May 27, 2009, at 4-5.
Standard \& Poor's Ratings Services, Methodology: Business Risk/Financial Risk Matrix Expanded, September 18, 2012, at 4.
equity ratios), debt cost rate and the allowed ROE. It is not the other way around. To set a component of the overall rate of return, such as the ROE and equity ratio, based on pro forma credit metrics therefore is a circular exercise, and one that in my experience is atypical of the regulatory process.

Assessing recommended equity ratios and ROEs on the basis of pro forma credit metrics therefore should be done with the explicit understanding that other, often qualitative factors weigh heavily in ratings determinations. Like so many other aspects of corporate finance, ratings determinations are an empirical, but not an entirely mathematical exercise. Because so many other factors are considered, a focused review of pro forma metrics is the type of partial analysis that practitioners avoid.

## Q. Please describe Mr. Lawton's pro forma financial metric analysis.

A. Alternately assuming FPL and OPC's proposed ROE and capital structures, Mr. Lawton calculates the following ratios: Cash From Operation to Debt (CFO/Debt), Cash From Operations to Interest (CFO/Interest), and Debt to Total Capital (Debt/Capital). ${ }^{305}$ Mr. Lawton then compares the results of those ratios to Moody’s benchmark guidelines for "A" and "Baa" rated bonds.

Direct Testimony of Daniel J. Lawton, Exhibit $\qquad$ (DJL-5). Mr. Lawton also varied certain revenue requirement assumptions based on the Company's and OPC's position, including rate base and depreciation \& amortization.
Q. Does Mr. Lawton's analysis support his position that OPC's recommended 8.75 percent ROE and 50.00 equity / 50.00 percent debt capital structure would continue to support the Company's current bond rating?
A. No, I do not believe so. As Mr. Lawton notes, Mr. O'Donnell's proposed 50.00 percent equity ratio falls below Moody's benchmark for an A rating (55.00 percent to 65.00 percent equity). ${ }^{306}$ In addition, Mr. Lawton's pro forma financial metric analysis shows OPC's ROE and capital structure recommendations would result in a 22.52 percent CFO/Debt ratio, which is at the bottom end of the 22.00 percent to 30.00 percent benchmark guideline for an "A" rating. ${ }^{307}$ As noted above, although a given financial metric may be within a given benchmark range, other factors may affect the rating agency's actual rating assessment.

With regard to the CFO/Interest financial metric, I believe relying on Mr . Lawton's pro forma results to assess the credit supportiveness of any specific ROE or equity ratio is misplaced. In particular, I examined the robustness of using that measure as a threshold benchmark by recreating the analysis provided in Schedule (DJL-5) and testing variations in the assumed ROE. As shown in Table 7 (below) relying on the assumptions in the scenario in column "A" of Mr. Lawton's Schedule (DJL-5), including the Company's existing equity ratio of 59.60 percent, but adjusting the ROE to 0.00 percent (i.e., no return on equity) still produces a CFO/Interest in the "A" rating category. The assumption that the

Company could maintain an A-rating with a 0.00 percent allowed return on equity is clearly misplaced, and certainly does not provide a reasonable benchmark for determining an equity ratio that satisfies the Hope \& Bluefield standards acknowledged by Mr. Lawton. ${ }^{308}$ Assuming the scenario in column "B" of Mr. Lawton's schedule, including a 50.00 percent equity ratio, but adjusting the ROE to 6.25 percent also produces a CFO/Interest ratio in the A-rating category. Consequently, the CFO/Interest metric does not appear to be a good measure for assessing the reasonableness of ROE or capital structure proposals.

Table 7: CFO/Interest - Variations in Mr. Lawton's Analysis ${ }^{309}$

|  | Assumptions |  | Moody's Guideline$\begin{aligned} & (4.5 \mathrm{x}-6.0 \mathrm{x} \\ & =\text { A rating }) \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: |
| Scenario | ROE | Equity Ratio | CFO/ <br> Interest | Implied Rating |
| Scenario A - Original | 11.50\% | 59.60\% | 8.6x | Aaa |
| Scenario A - with 0.00\% ROE | 0.00\% | 59.60\% | 4.8x | A |
| Scenario B - Original | 8.75\% | 50.00\% | 5.1x | A |
| Scenario B - with 6.25\% ROE | 6.25\% | 50.00\% | 4.5x | A |

I also note a similar test of the robustness of Mr. Lawton's CFO/Debt analysis produces similarly unlikely results. For example, assuming OPC's recommendations as provided in Schedule (DJL-5), but adjusting the ROE to negative 0.76 percent would still achieve a CFO/Debt ratio sufficient for a Baa rating (13.00 percent).

See also, Exhibit RBH-44.

Lastly, I note that Moody's April 2015 Credit Opinion of FPL stated that a downgrade of the Company's rating would be considered "if there are significant cost disallowances or other changes to Florida's credit-supportive regulatory and cost recovery framework, or if there is a sustained decline in cash flow coverage metrics, including CFO Pre-WC-to-debt below 25\%, or an increase in debt-tocapitalization above the $40 \%$ range." Mr. Lawton's pro forma analysis indicates OPC's recommendations result in financial metrics below the thresholds Moody's notes would trigger consideration of a downgrade.

## Q. Are there other considerations that should be taken in to account when determining the credit supportiveness of OPC's ROE and capital structure recommendations?

A. Yes. As noted above, financial metrics are only one factor rating agencies take into consideration when assessing a company's credit rating. The assessment of the regulatory environment is another important factor. In that regard, Moody's notes that the regulatory "framework in which a regulated utility operates is typically one of its most significant credit considerations. The regulatory structure and its general framework is a primary consideration that differentiates the industry from most other corporate sectors." ${ }^{310}$ Moody's further explains:

As the revenues set by the regulator are a primary
component of a utility's cash flow, the utility's ability to obtain predictable and supportive treatment within its

See Moody's Investors Service, Special Comment: Regulatory Frameworks - Ratings and Credit Quality for Investor-Owned Utilities, June 18, 2010, at 1.
regulatory framework is one of the most significant factors in assessing a utility's credit quality. The regulatory framework generally provides more certainty around a utility's cash flow and typically allows the company to operate with significantly less cushion in its cash flow metrics than comparably rated companies in other industrial sectors. In situations where the regulatory framework is less supportive, or is more contentious, a utility's credit quality can deteriorate rapidly. ${ }^{311}$

I believe the effect of (1) authorizing an equity ratio significantly below the ratio long used by FPL to successfully finance its operations (through a range of market and operating conditions); and (2) authorizing an ROE that is not only 175 basis points below the Company's currently authorized ROE, but is also below the lowest ROE authorized for a vertically integrated electric utility in at least the last 30-years, would be to reduce investors' assessment of the regulatory supportiveness for FPL. A perception of unsupportiveness, or regulatory inconsistency, could linger long into the future and affect FPL's ability to access the capital markets on favorable terms, especially during times of market unrest or operational strain from extensive weather related damage.

## IX. UPDATED AND REVISED ANALYSES

## Q. Have you updated the analyses presented in your Direct Testimony?

A. Yes. I have updated the Constant Growth DCF, Multi-Stage DCF, CAPM, and Risk Premium analyses presented in my Direct Testimony with data as of June 30, 2016. As noted in my response to Dr. Woolridge, I performed the analyses for a Combined Proxy Group comprised of the companies included by the opposing ROE witnesses and me in our respective proxy groups.

## Q. Please summarize your updated CAPM analysis.

A. I have continued to use the same inputs used in my Direct Testimony, updated through June 30, 2016. For the risk-free rate, I continue to refer alternately to (1) the 30-day average of the 30-year Treasury yield; and (2) a consensus forecast of the average 30-year Treasury yield for 2017 and 2020. Likewise, I continue to rely on published Beta coefficients from Bloomberg and Value Line, and the exante market risk premia described in my Direct Testimony (i.e., the expected return on the S\&P 500 Index less the current 30 -year Treasury yield).

## Q. What are your updated CAPM results?

A. As shown in Table 8 (below; see also, Exhibit RBH-11), based upon updated market information, my CAPM analyses produce a range of ROE estimates from 8.97 percent to 12.64 percent.

|  |  |  |
| :--- | :---: | :---: |
|  |  |  |
| Bloomberg <br> Derived <br> Market Risk <br> Premium |  | Value Line <br> Derived <br> Market Risk <br> Premium |
| Current 30-Year Treasury (2.50\%) | $8.97 \%$ | $9.29 \%$ |
| Blue Chip Forecast 2017 (3.40\%) | $9.86 \%$ | $10.19 \%$ |
| Blue Chip Forecast 2020 (4.40\%) | $10.86 \%$ | $11.19 \%$ |
| Value Line Beta Coefficient |  |  |
| Current 30-Year Treasury (2.50\%) | $10.35 \%$ | $10.75 \%$ |
| Blue Chip Forecast 2017 (3.40\%) | $11.25 \%$ | $11.64 \%$ |
| Blue Chip Forecast 2020 (4.40\%) | $12.25 \%$ | $12.64 \%$ |

## Q. Please summarize your updated Risk Premium analysis.

A. My updated Risk Premium analysis includes authorized ROEs as reported by Regulatory Research Associates through June 30, 2016. For the purpose of calculating the expected risk premium and ROE, I have used the current and projected 30-year Treasury yield. As shown in Table 9 (below; see also, Exhibit RBH-12), my updated results range from 10.04 percent to 10.37 percent.

Table 9: Bond Yield Plus Risk Premium Results

| Assumed Treasury Yield | Implied ROE |
| :--- | :---: |
| Current 30-Year Treasury (2.50\%) | $10.04 \%$ |
| Blue Chip Forecast 2017 (3.40\%) | $10.08 \%$ |
| Blue Chip Forecast $2020(4.40 \%)$ | $10.37 \%$ |

Q. Please summarize your updated Constant Growth DCF and Multi-Stage DCF analyses.
A. I have continued to use projected earnings growth rates from Zacks, First Call, and Value Line in developing my Constant Growth and Multi-Stage DCF models. The results are shown in Table 10 (below); see also, Exhibit RBH-13 to Exhibit RBH-14.

Table 10: Discounted Cash Flow Model Results

|  | Low Growth Rate | Mean Growth Rate | High Growth Rate |
| :---: | :---: | :---: | :---: |
| Mean Constant Growth DCF Results |  |  |  |
| 30-Day Average | 8.32\% | 8.91\% | 9.41\% |
| 90-Day Average | 8.41\% | 8.99\% | 9.49\% |
| 180-Day Average | 8.60\% | 9.19\% | 9.69\% |
| Mean Multi-Stage DCF Results |  |  |  |
|  | Low Growth Rate | Mean Growth Rate | High Growth Rate |
| 30-Day Average | 9.03\% | 9.16\% | 9.28\% |
| 90-Day Average | 9.12\% | 9.26\% | 9.38\% |
| 180-Day Average | 9.33\% | 9.48\% | 9.61\% |
| Mean Multi-Stage DCF Results - Terminal P/E at 20.86 |  |  |  |
|  | Low Growth Rate | Mean Growth Rate | High Growth Rate |
| 30-Day Average | 9.44\% | 9.79\% | 10.09\% |
| 90-Day Average | 9.67\% | 10.03\% | 10.32\% |
| 180-Day Average | 10.18\% | 10.54\% | 10.84\% |

## X. SUMMARY AND CONCLUSION

## Q. What are your overall conclusions and recommendations?

A. Based on the analyses discussed throughout my Rebuttal Testimony, I conclude that my recommended range of 10.50 percent to 11.50 percent, and within that range, 11.00 percent, remains a reasonable and appropriate estimate of FPL's Cost of Equity. The results of the updated DCF, CAPM, and Bond Yield Plus Risk Premium analyses, along with my analyses of capital market data, authorized returns in other regulatory jurisdictions, and assessment of rating agency concerns and criteria support the reasonableness of my range of ROE estimates and my recommendation. Furthermore, I do not support certain intervenors' recommendation to authorize a hypothetical capital structure below the Company's actual capital structure.

As discussed above, the period over which my analyses were performed included market data that were highly unusual and inconsistent with the DCF model's fundamental assumptions. In my view, therefore, Risk Premium-based methods should be given more weight than the DCF-based approaches. Doing so supports my recommended range of 10.50 percent to 11.50 percent, and my ROE recommendation of 11.00 percent.

## Q. Does this conclude your rebuttal testimony?

A. Yes, it does.

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Capital Asset Pricing Model Results
Bloomberg and Value Line Derived Market Risk Premium


Notes:
[1] See Notes [7] and [8]
[2] Source: Schedule (RBH)-16
[3] Source: Schedule (RBH)-15
[4] Source: Schedule (RBH)-15
[5] Equals Col. [1] + (Col. [2] $\times$ Col. [3])
[6] Equals Col. [1] + (Col. [2] x Col. [4])
[7] Source: Bloomberg Professional
[8] Source: Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017.
[9] Source: Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.

Bond Yield Plus Risk Premium


Notes:
[1] Constant of regression equation
[2] Slope of regression equation
[3] Source: Current = Bloomberg Professional,
Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017.
Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
[4] Equals [1] $+\ln ([3]) \times[2]$
[5] Equals [3] + [4]
[6] Source: SNL Financial
[7] Source: SNL Financial
[8] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
[9] Equals [7] - [8]

| Bond Yield Plus Risk Premium |  |  |  |
| ---: | :---: | :---: | :---: |
| [6] | $[7]$ | $[8]$ | $[9]$ |
| Date of |  | $30-$ Year |  |
| Electric Rate | Return on | Treasury | Risk |
| Case | Equity | Yield | Premium |
| $1 / 1 / 1980$ | $14.50 \%$ | $9.36 \%$ | $5.14 \%$ |
| $1 / 7 / 1980$ | $14.39 \%$ | $9.38 \%$ | $5.01 \%$ |
| $1 / 9 / 1980$ | $15.00 \%$ | $9.40 \%$ | $5.60 \%$ |
| $1 / 14 / 1980$ | $15.17 \%$ | $9.42 \%$ | $5.75 \%$ |
| $1 / 17 / 1980$ | $13.93 \%$ | $9.44 \%$ | $4.49 \%$ |
| $1 / 23 / 1980$ | $15.50 \%$ | $9.47 \%$ | $6.03 \%$ |
| $1 / 30 / 1980$ | $13.86 \%$ | $9.52 \%$ | $4.34 \%$ |
| $1 / 31 / 1980$ | $12.61 \%$ | $9.53 \%$ | $3.08 \%$ |
| $2 / 6 / 1980$ | $13.71 \%$ | $9.58 \%$ | $4.13 \%$ |
| $2 / 13 / 1980$ | $12.80 \%$ | $9.63 \%$ | $3.17 \%$ |
| $2 / 14 / 1980$ | $13.00 \%$ | $9.65 \%$ | $3.35 \%$ |
| $2 / 19 / 1980$ | $13.50 \%$ | $9.68 \%$ | $3.82 \%$ |
| $2 / 27 / 1980$ | $13.75 \%$ | $9.78 \%$ | $3.97 \%$ |
| $2 / 29 / 1980$ | $13.75 \%$ | $9.81 \%$ | $3.94 \%$ |
| $2 / 29 / 1980$ | $14.00 \%$ | $9.81 \%$ | $4.19 \%$ |
| $2 / 29 / 1980$ | $14.77 \%$ | $9.81 \%$ | $4.96 \%$ |
| $3 / 7 / 1980$ | $12.70 \%$ | $9.89 \%$ | $2.81 \%$ |
| $3 / 14 / 1980$ | $13.50 \%$ | $9.97 \%$ | $3.53 \%$ |
| $3 / 26 / 1980$ | $14.16 \%$ | $10.10 \%$ | $4.06 \%$ |
| $3 / 27 / 1980$ | $14.24 \%$ | $10.12 \%$ | $4.12 \%$ |
| $3 / 28 / 1980$ | $14.50 \%$ | $10.13 \%$ | $4.37 \%$ |
| $4 / 11 / 1980$ | $12.75 \%$ | $10.27 \%$ | $2.48 \%$ |
| $4 / 14 / 1980$ | $13.85 \%$ | $10.29 \%$ | $3.56 \%$ |
| $4 / 16 / 1980$ | $15.50 \%$ | $10.31 \%$ | $5.19 \%$ |
| $4 / 22 / 1980$ | $13.25 \%$ | $10.35 \%$ | $2.90 \%$ |
| $4 / 22 / 1980$ | $13.90 \%$ | $10.35 \%$ | $3.55 \%$ |
| $4 / 24 / 1980$ | $16.80 \%$ | $10.38 \%$ | $6.43 \%$ |
| $4 / 29 / 1980$ | $15.50 \%$ | $10.41 \%$ | $5.09 \%$ |
| $5 / 6 / 1980$ | $13.70 \%$ | $10.45 \%$ | $3.25 \%$ |
| $5 / 7 / 1980$ | $15.00 \%$ | $10.45 \%$ | $4.55 \%$ |
| $5 / 8 / 1980$ | $13.75 \%$ | $10.46 \%$ | $3.29 \%$ |
| $5 / 9 / 1980$ | $14.35 \%$ | $10.47 \%$ | $3.88 \%$ |
| $5 / 13 / 1980$ | $13.60 \%$ | $10.48 \%$ | $3.12 \%$ |
|  |  |  |  |

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| 5/15/1980 | 13.25\% | 10.49\% | 2.76\% |
| :---: | :---: | :---: | :---: |
| 5/19/1980 | 13.75\% | 10.51\% | 3.24\% |
| 5/27/1980 | 13.62\% | 10.54\% | 3.08\% |
| 5/27/1980 | 14.60\% | 10.54\% | 4.06\% |
| 5/29/1980 | 16.00\% | 10.56\% | 5.44\% |
| 5/30/1980 | 13.80\% | 10.56\% | 3.24\% |
| 6/2/1980 | 15.63\% | 10.57\% | 5.06\% |
| 6/9/1980 | 15.90\% | 10.60\% | 5.30\% |
| 6/10/1980 | 13.78\% | 10.60\% | 3.18\% |
| 6/12/1980 | 14.25\% | 10.61\% | 3.64\% |
| 6/19/1980 | 13.40\% | 10.62\% | 2.78\% |
| 6/30/1980 | 13.00\% | 10.65\% | 2.35\% |
| 6/30/1980 | 13.40\% | 10.65\% | 2.75\% |
| 7/9/1980 | 14.75\% | 10.67\% | 4.08\% |
| 7/10/1980 | 15.00\% | 10.68\% | 4.32\% |
| 7/15/1980 | 15.80\% | 10.70\% | 5.10\% |
| 7/18/1980 | 13.80\% | 10.71\% | 3.09\% |
| 7/22/1980 | 14.10\% | 10.72\% | 3.38\% |
| 7/24/1980 | 15.00\% | 10.73\% | 4.27\% |
| 7/25/1980 | 13.48\% | 10.73\% | 2.75\% |
| 7/31/1980 | 14.58\% | 10.75\% | 3.83\% |
| 8/8/1980 | 13.50\% | 10.78\% | 2.72\% |
| 8/8/1980 | 14.00\% | 10.78\% | 3.22\% |
| 8/8/1980 | 15.45\% | 10.78\% | 4.67\% |
| 8/11/1980 | 14.85\% | 10.78\% | 4.07\% |
| 8/14/1980 | 14.00\% | 10.79\% | 3.21\% |
| 8/14/1980 | 16.25\% | 10.79\% | 5.46\% |
| 8/25/1980 | 13.75\% | 10.82\% | 2.93\% |
| 8/27/1980 | 13.80\% | 10.83\% | 2.97\% |
| 8/29/1980 | 12.50\% | 10.84\% | 1.66\% |
| 9/15/1980 | 13.50\% | 10.88\% | 2.62\% |
| 9/15/1980 | 13.93\% | 10.88\% | 3.05\% |
| 9/15/1980 | 15.80\% | 10.88\% | 4.92\% |
| 9/24/1980 | 12.50\% | 10.93\% | 1.57\% |
| 9/24/1980 | 15.00\% | 10.93\% | 4.07\% |
| 9/26/1980 | 13.75\% | 10.94\% | 2.81\% |
| 9/30/1980 | 14.10\% | 10.96\% | 3.14\% |
| 9/30/1980 | 14.20\% | 10.96\% | 3.24\% |
| 10/1/1980 | 13.90\% | 10.97\% | 2.93\% |
| 10/3/1980 | 15.50\% | 10.98\% | 4.52\% |
| 10/7/1980 | 12.50\% | 10.99\% | 1.51\% |
| 10/9/1980 | 13.25\% | 11.00\% | 2.25\% |
| 10/9/1980 | 14.50\% | 11.00\% | 3.50\% |
| 10/9/1980 | 14.50\% | 11.00\% | 3.50\% |
| 10/16/1980 | 16.10\% | 11.02\% | 5.08\% |
| 10/17/1980 | 14.50\% | 11.03\% | 3.47\% |
| 10/31/1980 | 13.75\% | 11.11\% | 2.64\% |
| 10/31/1980 | 14.25\% | 11.11\% | 3.14\% |
| 11/4/1980 | 15.00\% | 11.12\% | 3.88\% |
| 11/5/1980 | 13.75\% | 11.12\% | 2.63\% |
| 11/5/1980 | 14.00\% | 11.12\% | 2.88\% |
| 11/8/1980 | 13.75\% | 11.14\% | 2.61\% |
| 11/10/1980 | 14.85\% | 11.15\% | 3.70\% |
| 11/17/1980 | 14.00\% | 11.18\% | 2.82\% |
| 11/18/1980 | 14.00\% | 11.19\% | 2.81\% |
| 11/19/1980 | 13.00\% | 11.19\% | 1.81\% |
| 11/24/1980 | 14.00\% | 11.21\% | 2.79\% |
| 11/26/1980 | 14.00\% | 11.21\% | 2.79\% |
| 12/8/1980 | 14.15\% | 11.22\% | 2.93\% |
| 12/8/1980 | 15.10\% | 11.22\% | 3.88\% |
| 12/9/1980 | 15.35\% | 11.22\% | 4.13\% |
| 12/12/1980 | 15.45\% | 11.23\% | 4.22\% |
| 12/17/1980 | 13.25\% | 11.23\% | 2.02\% |
| 12/18/1980 | 15.80\% | 11.23\% | 4.57\% |
| 12/19/1980 | 14.50\% | 11.23\% | 3.27\% |
| 12/19/1980 | 14.64\% | 11.23\% | 3.41\% |
| 12/22/1980 | 13.45\% | 11.23\% | 2.22\% |
| 12/22/1980 | 15.00\% | 11.23\% | 3.77\% |
| 12/30/1980 | 14.50\% | 11.22\% | 3.28\% |
| 12/30/1980 | 14.95\% | 11.22\% | 3.73\% |
| 12/31/1980 | 13.39\% | 11.22\% | 2.17\% |
| 1/2/1981 | 15.25\% | 11.22\% | 4.03\% |
| 1/7/1981 | 14.30\% | 11.21\% | 3.09\% |
| 1/19/1981 | 15.25\% | 11.20\% | 4.05\% |
| 1/23/1981 | 13.10\% | 11.20\% | 1.90\% |
| 1/23/1981 | 14.40\% | 11.20\% | 3.20\% |
| 1/26/1981 | 15.25\% | 11.20\% | 4.05\% |
| 1/27/1981 | 15.00\% | 11.21\% | 3.79\% |
| 1/31/1981 | 13.47\% | 11.22\% | 2.25\% |
| 2/3/1981 | 15.25\% | 11.23\% | 4.02\% |
| 2/5/1981 | 15.75\% | 11.25\% | 4.50\% |
| 2/11/1981 | 15.60\% | 11.28\% | 4.32\% |
| 2/20/1981 | 15.25\% | 11.33\% | 3.92\% |

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| 3/11/1981 | 15.40\% | 11.49\% | 3.91\% |
| :---: | :---: | :---: | :---: |
| 3/12/1981 | 14.51\% | 11.50\% | 3.01\% |
| 3/12/1981 | 16.00\% | 11.50\% | 4.50\% |
| 3/13/1981 | 13.02\% | 11.52\% | 1.50\% |
| 3/18/1981 | 16.19\% | 11.55\% | 4.64\% |
| 3/19/1981 | 13.75\% | 11.56\% | 2.19\% |
| 3/23/1981 | 14.30\% | 11.58\% | 2.72\% |
| 3/25/1981 | 15.30\% | 11.60\% | 3.70\% |
| 4/1/1981 | 14.53\% | 11.68\% | 2.85\% |
| 4/3/1981 | 19.10\% | 11.71\% | 7.39\% |
| 4/9/1981 | 15.00\% | 11.78\% | 3.22\% |
| 4/9/1981 | 15.30\% | 11.78\% | 3.52\% |
| 4/9/1981 | 16.50\% | 11.78\% | 4.72\% |
| 4/9/1981 | 17.00\% | 11.78\% | 5.22\% |
| 4/10/1981 | 13.75\% | 11.80\% | 1.95\% |
| 4/13/1981 | 13.57\% | 11.82\% | 1.75\% |
| 4/15/1981 | 15.30\% | 11.85\% | 3.45\% |
| 4/16/1981 | 13.50\% | 11.87\% | 1.63\% |
| 4/17/1981 | 14.10\% | 11.87\% | 2.23\% |
| 4/21/1981 | 14.00\% | 11.90\% | 2.10\% |
| 4/21/1981 | 16.80\% | 11.90\% | 4.90\% |
| 4/24/1981 | 16.00\% | 11.95\% | 4.05\% |
| 4/27/1981 | 12.50\% | 11.97\% | 0.53\% |
| 4/27/1981 | 13.61\% | 11.97\% | 1.64\% |
| 4/29/1981 | 13.65\% | 12.00\% | 1.65\% |
| 4/30/1981 | 13.50\% | 12.02\% | 1.48\% |
| 5/4/1981 | 16.22\% | 12.05\% | 4.17\% |
| 5/5/1981 | 14.40\% | 12.07\% | 2.33\% |
| 5/7/1981 | 16.25\% | 12.11\% | 4.14\% |
| 5/7/1981 | 16.27\% | 12.11\% | 4.16\% |
| 5/8/1981 | 13.00\% | 12.13\% | 0.87\% |
| 5/8/1981 | 16.00\% | 12.13\% | 3.87\% |
| 5/12/1981 | 13.50\% | 12.16\% | 1.34\% |
| 5/15/1981 | 15.75\% | 12.22\% | 3.53\% |
| 5/18/1981 | 14.88\% | 12.23\% | 2.65\% |
| 5/20/1981 | 16.00\% | 12.26\% | 3.74\% |
| 5/21/1981 | 14.00\% | 12.27\% | 1.73\% |
| 5/26/1981 | 14.90\% | 12.30\% | 2.60\% |
| 5/27/1981 | 15.00\% | 12.31\% | 2.69\% |
| 5/29/1981 | 15.50\% | 12.34\% | 3.16\% |
| 6/1/1981 | 16.50\% | 12.35\% | 4.15\% |
| 6/3/1981 | 14.67\% | 12.37\% | 2.30\% |
| 6/5/1981 | 13.00\% | 12.39\% | 0.61\% |
| 6/10/1981 | 16.75\% | 12.42\% | 4.33\% |
| 6/17/1981 | 14.40\% | 12.46\% | 1.94\% |
| 6/18/1981 | 16.33\% | 12.47\% | 3.86\% |
| 6/25/1981 | 14.75\% | 12.51\% | 2.24\% |
| 6/26/1981 | 16.00\% | 12.52\% | 3.48\% |
| 6/30/1981 | 15.25\% | 12.54\% | 2.71\% |
| 7/1/1981 | 15.50\% | 12.56\% | 2.94\% |
| 7/1/1981 | 17.50\% | 12.56\% | 4.94\% |
| 7/10/1981 | 16.00\% | 12.62\% | 3.38\% |
| 7/14/1981 | 16.90\% | 12.64\% | 4.26\% |
| 7/15/1981 | 16.00\% | 12.65\% | 3.35\% |
| 7/17/1981 | 15.00\% | 12.67\% | 2.33\% |
| 7/20/1981 | 15.00\% | 12.68\% | 2.32\% |
| 7/21/1981 | 14.00\% | 12.69\% | 1.31\% |
| 7/28/1981 | 13.48\% | 12.74\% | 0.74\% |
| 7/31/1981 | 13.50\% | 12.78\% | 0.72\% |
| 7/31/1981 | 15.00\% | 12.78\% | 2.22\% |
| 7/31/1981 | 16.00\% | 12.78\% | 3.22\% |
| 8/5/1981 | 15.71\% | 12.83\% | 2.88\% |
| 8/10/1981 | 14.50\% | 12.87\% | 1.63\% |
| 8/11/1981 | 15.00\% | 12.88\% | 2.12\% |
| 8/20/1981 | 13.50\% | 12.95\% | 0.55\% |
| 8/20/1981 | 16.50\% | 12.95\% | 3.55\% |
| 8/24/1981 | 15.00\% | 12.97\% | 2.03\% |
| 8/28/1981 | 15.00\% | 13.01\% | 1.99\% |
| 9/3/1981 | 14.50\% | 13.05\% | 1.45\% |
| 9/10/1981 | 14.50\% | 13.11\% | 1.39\% |
| 9/11/1981 | 16.00\% | 13.12\% | 2.88\% |
| 9/16/1981 | 16.00\% | 13.15\% | 2.85\% |
| 9/17/1981 | 16.50\% | 13.16\% | 3.34\% |
| 9/23/1981 | 15.85\% | 13.20\% | 2.65\% |
| 9/28/1981 | 15.50\% | 13.23\% | 2.27\% |
| 10/9/1981 | 15.75\% | 13.33\% | 2.42\% |
| 10/15/1981 | 16.25\% | 13.37\% | 2.88\% |
| 10/16/1981 | 15.50\% | 13.38\% | 2.12\% |
| 10/16/1981 | 16.50\% | 13.38\% | 3.12\% |
| 10/19/1981 | 14.25\% | 13.39\% | 0.86\% |
| 10/20/1981 | 15.25\% | 13.41\% | 1.84\% |
| 10/20/1981 | 17.00\% | 13.41\% | 3.59\% |
| 10/23/1981 | 16.00\% | 13.45\% | 2.55\% |

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| 10/27/1981 | 10.00\% | 13.48\% | -3.48\% |
| :---: | :---: | :---: | :---: |
| 10/29/1981 | 14.75\% | 13.51\% | 1.24\% |
| 10/29/1981 | 16.50\% | 13.51\% | 2.99\% |
| 11/3/1981 | 15.17\% | 13.53\% | 1.64\% |
| 11/5/1981 | 16.60\% | 13.55\% | 3.05\% |
| 11/6/1981 | 15.17\% | 13.56\% | 1.61\% |
| 11/24/1981 | 15.50\% | 13.61\% | 1.89\% |
| 11/25/1981 | 15.25\% | 13.61\% | 1.64\% |
| 11/25/1981 | 15.35\% | 13.61\% | 1.74\% |
| 11/25/1981 | 16.10\% | 13.61\% | 2.49\% |
| 11/25/1981 | 16.10\% | 13.61\% | 2.49\% |
| 12/1/1981 | 15.70\% | 13.61\% | 2.09\% |
| 12/1/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/1/1981 | 16.49\% | 13.61\% | 2.88\% |
| 12/1/1981 | 16.50\% | 13.61\% | 2.89\% |
| 12/4/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/11/1981 | 16.25\% | 13.63\% | 2.62\% |
| 12/14/1981 | 14.00\% | 13.63\% | 0.37\% |
| 12/15/1981 | 15.81\% | 13.63\% | 2.18\% |
| 12/15/1981 | 16.00\% | 13.63\% | 2.37\% |
| 12/16/1981 | 15.25\% | 13.63\% | 1.62\% |
| 12/17/1981 | 16.50\% | 13.63\% | 2.87\% |
| 12/18/1981 | 15.45\% | 13.63\% | 1.82\% |
| 12/30/1981 | 14.25\% | 13.67\% | 0.58\% |
| 12/30/1981 | 16.00\% | 13.67\% | 2.33\% |
| 12/30/1981 | 16.25\% | 13.67\% | 2.58\% |
| 12/31/1981 | 16.15\% | 13.67\% | 2.48\% |
| 1/4/1982 | 15.50\% | 13.67\% | 1.83\% |
| 1/11/1982 | 14.50\% | 13.72\% | 0.78\% |
| 1/11/1982 | 17.00\% | 13.72\% | 3.28\% |
| 1/13/1982 | 14.75\% | 13.74\% | 1.01\% |
| 1/14/1982 | 15.75\% | 13.75\% | 2.00\% |
| 1/15/1982 | 15.00\% | 13.76\% | 1.24\% |
| 1/15/1982 | 16.50\% | 13.76\% | 2.74\% |
| 1/22/1982 | 16.25\% | 13.79\% | 2.46\% |
| 1/27/1982 | 16.84\% | 13.81\% | 3.03\% |
| 1/28/1982 | 13.00\% | 13.81\% | -0.81\% |
| 1/29/1982 | 15.50\% | 13.82\% | 1.68\% |
| 2/1/1982 | 15.85\% | 13.82\% | 2.03\% |
| 2/3/1982 | 16.44\% | 13.84\% | 2.60\% |
| 2/8/1982 | 15.50\% | 13.86\% | 1.64\% |
| 2/11/1982 | 16.00\% | 13.88\% | 2.12\% |
| 2/11/1982 | 16.20\% | 13.88\% | 2.32\% |
| 2/17/1982 | 15.00\% | 13.89\% | 1.11\% |
| 2/19/1982 | 15.17\% | 13.89\% | 1.28\% |
| 2/26/1982 | 15.25\% | 13.89\% | 1.36\% |
| 3/1/1982 | 15.03\% | 13.89\% | 1.14\% |
| 3/1/1982 | 16.00\% | 13.89\% | 2.11\% |
| 3/3/1982 | 15.00\% | 13.88\% | 1.12\% |
| 3/8/1982 | 17.10\% | 13.88\% | 3.22\% |
| 3/12/1982 | 16.25\% | 13.88\% | 2.37\% |
| 3/17/1982 | 17.30\% | 13.88\% | 3.42\% |
| 3/22/1982 | 15.10\% | 13.89\% | 1.21\% |
| 3/27/1982 | 15.40\% | 13.89\% | 1.51\% |
| 3/30/1982 | 15.50\% | 13.90\% | 1.60\% |
| 3/31/1982 | 17.00\% | 13.91\% | 3.09\% |
| 4/1/1982 | 14.70\% | 13.91\% | 0.79\% |
| 4/1/1982 | 16.50\% | 13.91\% | 2.59\% |
| 4/2/1982 | 15.50\% | 13.91\% | 1.59\% |
| 4/5/1982 | 15.50\% | 13.92\% | 1.58\% |
| 4/8/1982 | 16.40\% | 13.93\% | 2.47\% |
| 4/13/1982 | 14.50\% | 13.94\% | 0.56\% |
| 4/23/1982 | 15.75\% | 13.94\% | 1.81\% |
| 4/27/1982 | 15.00\% | 13.94\% | 1.06\% |
| 4/28/1982 | 15.75\% | 13.94\% | 1.81\% |
| 4/30/1982 | 14.70\% | 13.94\% | 0.76\% |
| 4/30/1982 | 15.50\% | 13.94\% | 1.56\% |
| 5/3/1982 | 16.60\% | 13.94\% | 2.66\% |
| 5/4/1982 | 16.00\% | 13.94\% | 2.06\% |
| 5/14/1982 | 15.50\% | 13.92\% | 1.58\% |
| 5/18/1982 | 15.42\% | 13.92\% | 1.50\% |
| 5/19/1982 | 14.69\% | 13.92\% | 0.77\% |
| 5/20/1982 | 15.00\% | 13.91\% | 1.09\% |
| 5/20/1982 | 15.10\% | 13.91\% | 1.19\% |
| 5/20/1982 | 15.50\% | 13.91\% | 1.59\% |
| 5/20/1982 | 16.30\% | 13.91\% | 2.39\% |
| 5/21/1982 | 17.75\% | 13.91\% | 3.84\% |
| 5/27/1982 | 15.00\% | 13.89\% | 1.11\% |
| 5/28/1982 | 15.50\% | 13.89\% | 1.61\% |
| 5/28/1982 | 17.00\% | 13.89\% | 3.11\% |
| 6/1/1982 | 13.75\% | 13.89\% | -0.14\% |
| 6/1/1982 | 16.60\% | 13.89\% | 2.71\% |
| 6/9/1982 | 17.86\% | 13.88\% | 3.98\% |

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| 6/14/1982 | 15.75\% | 13.88\% | 1.87\% |
| :---: | :---: | :---: | :---: |
| 6/15/1982 | 14.85\% | 13.88\% | 0.97\% |
| 6/18/1982 | 15.50\% | 13.87\% | 1.63\% |
| 6/21/1982 | 14.90\% | 13.87\% | 1.03\% |
| 6/23/1982 | 16.00\% | 13.86\% | 2.14\% |
| 6/23/1982 | 16.17\% | 13.86\% | 2.31\% |
| 6/24/1982 | 14.85\% | 13.86\% | 0.99\% |
| 6/25/1982 | 14.70\% | 13.86\% | 0.84\% |
| 7/1/1982 | 16.00\% | 13.84\% | 2.16\% |
| 7/2/1982 | 15.62\% | 13.84\% | 1.78\% |
| 7/2/1982 | 17.00\% | 13.84\% | 3.16\% |
| 7/13/1982 | 14.00\% | 13.82\% | 0.18\% |
| 7/13/1982 | 16.80\% | 13.82\% | 2.98\% |
| 7/14/1982 | 15.76\% | 13.82\% | 1.94\% |
| 7/14/1982 | 16.02\% | 13.82\% | 2.20\% |
| 7/19/1982 | 16.50\% | 13.80\% | 2.70\% |
| 7/22/1982 | 14.50\% | 13.77\% | 0.73\% |
| 7/22/1982 | 17.00\% | 13.77\% | 3.23\% |
| 7/27/1982 | 16.75\% | 13.75\% | 3.00\% |
| 7/29/1982 | 16.50\% | 13.74\% | 2.76\% |
| 8/11/1982 | 17.50\% | 13.68\% | 3.82\% |
| 8/18/1982 | 17.07\% | 13.63\% | 3.44\% |
| 8/20/1982 | 15.73\% | 13.60\% | 2.13\% |
| 8/25/1982 | 16.00\% | 13.57\% | 2.43\% |
| 8/26/1982 | 15.50\% | 13.56\% | 1.94\% |
| 8/30/1982 | 15.00\% | 13.55\% | 1.45\% |
| 9/3/1982 | 16.20\% | 13.53\% | 2.67\% |
| 9/8/1982 | 15.00\% | 13.52\% | 1.48\% |
| 9/15/1982 | 13.08\% | 13.50\% | -0.42\% |
| 9/15/1982 | 16.25\% | 13.50\% | 2.75\% |
| 9/16/1982 | 16.00\% | 13.50\% | 2.50\% |
| 9/17/1982 | 15.25\% | 13.50\% | 1.75\% |
| 9/23/1982 | 17.17\% | 13.47\% | 3.70\% |
| 9/24/1982 | 14.50\% | 13.46\% | 1.04\% |
| 9/27/1982 | 15.25\% | 13.46\% | 1.79\% |
| 10/1/1982 | 15.50\% | 13.42\% | 2.08\% |
| 10/15/1982 | 15.90\% | 13.32\% | 2.58\% |
| 10/22/1982 | 15.75\% | 13.24\% | 2.51\% |
| 10/22/1982 | 17.15\% | 13.24\% | 3.91\% |
| 10/29/1982 | 15.54\% | 13.16\% | 2.38\% |
| 11/1/1982 | 15.50\% | 13.15\% | 2.35\% |
| 11/3/1982 | 17.20\% | 13.13\% | 4.07\% |
| 11/4/1982 | 16.25\% | 13.11\% | 3.14\% |
| 11/5/1982 | 16.20\% | 13.09\% | 3.11\% |
| 11/9/1982 | 16.00\% | 13.05\% | 2.95\% |
| 11/23/1982 | 15.50\% | 12.89\% | 2.61\% |
| 11/23/1982 | 15.85\% | 12.89\% | 2.96\% |
| 11/30/1982 | 16.50\% | 12.81\% | 3.69\% |
| 12/1/1982 | 17.04\% | 12.79\% | 4.25\% |
| 12/6/1982 | 15.00\% | 12.73\% | 2.27\% |
| 12/6/1982 | 16.35\% | 12.73\% | 3.62\% |
| 12/10/1982 | 15.50\% | 12.66\% | 2.84\% |
| 12/13/1982 | 16.00\% | 12.65\% | 3.35\% |
| 12/14/1982 | 15.30\% | 12.63\% | 2.67\% |
| 12/14/1982 | 16.40\% | 12.63\% | 3.77\% |
| 12/20/1982 | 16.00\% | 12.57\% | 3.43\% |
| 12/21/1982 | 14.75\% | 12.56\% | 2.19\% |
| 12/21/1982 | 15.85\% | 12.56\% | 3.29\% |
| 12/22/1982 | 16.25\% | 12.54\% | 3.71\% |
| 12/22/1982 | 16.58\% | 12.54\% | 4.04\% |
| 12/22/1982 | 16.75\% | 12.54\% | 4.21\% |
| 12/29/1982 | 14.90\% | 12.48\% | 2.42\% |
| 12/29/1982 | 16.25\% | 12.48\% | 3.77\% |
| 12/30/1982 | 16.00\% | 12.47\% | 3.53\% |
| 12/30/1982 | 16.35\% | 12.47\% | 3.88\% |
| 12/30/1982 | 16.77\% | 12.47\% | 4.30\% |
| 1/5/1983 | 17.33\% | 12.40\% | 4.93\% |
| 1/11/1983 | 15.90\% | 12.34\% | 3.56\% |
| 1/12/1983 | 14.63\% | 12.33\% | 2.30\% |
| 1/12/1983 | 15.50\% | 12.33\% | 3.17\% |
| 1/20/1983 | 17.75\% | 12.24\% | 5.51\% |
| 1/21/1983 | 15.00\% | 12.22\% | 2.78\% |
| 1/24/1983 | 14.50\% | 12.21\% | 2.29\% |
| 1/24/1983 | 15.50\% | 12.21\% | 3.29\% |
| 1/25/1983 | 15.85\% | 12.19\% | 3.66\% |
| 1/27/1983 | 16.14\% | 12.17\% | 3.97\% |
| 2/1/1983 | 18.50\% | 12.13\% | 6.37\% |
| 2/4/1983 | 14.00\% | 12.10\% | 1.90\% |
| 2/10/1983 | 15.00\% | 12.06\% | 2.94\% |
| 2/21/1983 | 15.50\% | 11.98\% | 3.52\% |
| 2/22/1983 | 15.50\% | 11.97\% | 3.53\% |
| 2/23/1983 | 15.10\% | 11.96\% | 3.14\% |
| 2/23/1983 | 16.00\% | 11.96\% | 4.04\% |

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Sponsored by Robert B. Hevert Exhibit RBH-12, Page 6 of 19

| 3/2/1983 | 15.25\% | 11.89\% | 3.36\% |
| :---: | :---: | :---: | :---: |
| 3/9/1983 | 15.20\% | 11.82\% | 3.38\% |
| 3/15/1983 | 13.00\% | 11.77\% | 1.23\% |
| 3/18/1983 | 15.25\% | 11.73\% | 3.52\% |
| 3/23/1983 | 15.40\% | 11.69\% | 3.71\% |
| 3/24/1983 | 15.00\% | 11.67\% | 3.33\% |
| 3/29/1983 | 15.50\% | 11.63\% | 3.87\% |
| 3/30/1983 | 16.71\% | 11.61\% | 5.10\% |
| 3/31/1983 | 15.00\% | 11.59\% | 3.41\% |
| 4/4/1983 | 15.20\% | 11.58\% | 3.62\% |
| 4/8/1983 | 15.50\% | 11.51\% | 3.99\% |
| 4/11/1983 | 14.81\% | 11.49\% | 3.32\% |
| 4/19/1983 | 14.50\% | 11.38\% | 3.12\% |
| 4/20/1983 | 16.00\% | 11.36\% | 4.64\% |
| 4/29/1983 | 16.00\% | 11.24\% | 4.76\% |
| 5/1/1983 | 14.50\% | 11.24\% | 3.26\% |
| 5/9/1983 | 15.50\% | 11.15\% | 4.35\% |
| 5/11/1983 | 16.46\% | 11.12\% | 5.34\% |
| 5/12/1983 | 14.14\% | 11.11\% | 3.03\% |
| 5/18/1983 | 15.00\% | 11.05\% | 3.95\% |
| 5/23/1983 | 14.90\% | 11.01\% | 3.89\% |
| 5/23/1983 | 15.50\% | 11.01\% | 4.49\% |
| 5/25/1983 | 15.50\% | 10.98\% | 4.52\% |
| 5/27/1983 | 15.00\% | 10.96\% | 4.04\% |
| 5/31/1983 | 14.00\% | 10.95\% | 3.05\% |
| 5/31/1983 | 15.50\% | 10.95\% | 4.55\% |
| 6/2/1983 | 14.50\% | 10.93\% | 3.57\% |
| 6/17/1983 | 15.03\% | 10.84\% | 4.19\% |
| 7/1/1983 | 14.80\% | 10.78\% | 4.02\% |
| 7/1/1983 | 14.90\% | 10.78\% | 4.12\% |
| 7/8/1983 | 16.25\% | 10.76\% | 5.49\% |
| 7/13/1983 | 13.20\% | 10.75\% | 2.45\% |
| 7/19/1983 | 15.00\% | 10.74\% | 4.26\% |
| 7/19/1983 | 15.10\% | 10.74\% | 4.36\% |
| 7/25/1983 | 16.25\% | 10.73\% | 5.52\% |
| 7/28/1983 | 15.90\% | 10.74\% | 5.16\% |
| 8/3/1983 | 16.34\% | 10.75\% | 5.59\% |
| 8/3/1983 | 16.50\% | 10.75\% | 5.75\% |
| 8/19/1983 | 15.00\% | 10.80\% | 4.20\% |
| 8/22/1983 | 15.50\% | 10.80\% | 4.70\% |
| 8/22/1983 | 16.40\% | 10.80\% | 5.60\% |
| 8/31/1983 | 14.75\% | 10.84\% | 3.91\% |
| 9/7/1983 | 15.00\% | 10.86\% | 4.14\% |
| 9/14/1983 | 15.78\% | 10.89\% | 4.89\% |
| 9/16/1983 | 15.00\% | 10.90\% | 4.10\% |
| 9/19/1983 | 14.50\% | 10.91\% | 3.59\% |
| 9/20/1983 | 16.50\% | 10.91\% | 5.59\% |
| 9/28/1983 | 14.50\% | 10.94\% | 3.56\% |
| 9/29/1983 | 15.50\% | 10.95\% | 4.55\% |
| 9/30/1983 | 15.25\% | 10.95\% | 4.30\% |
| 9/30/1983 | 16.15\% | 10.95\% | 5.20\% |
| 10/4/1983 | 14.80\% | 10.96\% | 3.84\% |
| 10/7/1983 | 16.00\% | 10.97\% | 5.03\% |
| 10/13/1983 | 15.52\% | 10.99\% | 4.53\% |
| 10/17/1983 | 15.50\% | 11.00\% | 4.50\% |
| 10/18/1983 | 14.50\% | 11.00\% | 3.50\% |
| 10/19/1983 | 16.25\% | 11.01\% | 5.24\% |
| 10/19/1983 | 16.50\% | 11.01\% | 5.49\% |
| 10/26/1983 | 15.00\% | 11.04\% | 3.96\% |
| 10/27/1983 | 15.20\% | 11.04\% | 4.16\% |
| 11/1/1983 | 16.00\% | 11.06\% | 4.94\% |
| 11/9/1983 | 14.90\% | 11.09\% | 3.81\% |
| 11/10/1983 | 14.35\% | 11.10\% | 3.25\% |
| 11/23/1983 | 16.00\% | 11.13\% | 4.87\% |
| 11/23/1983 | 16.15\% | 11.13\% | 5.02\% |
| 11/30/1983 | 15.00\% | 11.14\% | 3.86\% |
| 12/5/1983 | 15.25\% | 11.15\% | 4.10\% |
| 12/6/1983 | 15.07\% | 11.15\% | 3.92\% |
| 12/8/1983 | 15.90\% | 11.16\% | 4.74\% |
| 12/9/1983 | 14.75\% | 11.17\% | 3.58\% |
| 12/12/1983 | 14.50\% | 11.17\% | 3.33\% |
| 12/15/1983 | 15.56\% | 11.19\% | 4.37\% |
| 12/19/1983 | 14.80\% | 11.21\% | 3.59\% |
| 12/20/1983 | 14.69\% | 11.22\% | 3.47\% |
| 12/20/1983 | 16.00\% | 11.22\% | 4.78\% |
| 12/20/1983 | 16.25\% | 11.22\% | 5.03\% |
| 12/22/1983 | 14.75\% | 11.23\% | 3.52\% |
| 12/22/1983 | 15.75\% | 11.23\% | 4.52\% |
| 1/3/1984 | 14.75\% | 11.27\% | 3.48\% |
| 1/10/1984 | 15.90\% | 11.30\% | 4.60\% |
| 1/12/1984 | 15.60\% | 11.31\% | 4.29\% |
| 1/18/1984 | 13.75\% | 11.33\% | 2.42\% |
| 1/19/1984 | 15.90\% | 11.33\% | 4.57\% |

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Sponsored by Robert B. Hevert Exhibit RBH-12, Page 7 of 19

| 1/30/1984 | 16.10\% | 11.37\% | 4.73\% |
| :---: | :---: | :---: | :---: |
| 1/31/1984 | 15.25\% | 11.37\% | 3.88\% |
| 2/1/1984 | 14.80\% | 11.38\% | 3.42\% |
| 2/6/1984 | 13.75\% | 11.40\% | 2.35\% |
| 2/6/1984 | 14.75\% | 11.40\% | 3.35\% |
| 2/9/1984 | 15.25\% | 11.42\% | 3.83\% |
| 2/15/1984 | 15.70\% | 11.44\% | 4.26\% |
| 2/20/1984 | 15.00\% | 11.46\% | 3.54\% |
| 2/20/1984 | 15.00\% | 11.46\% | 3.54\% |
| 2/22/1984 | 14.75\% | 11.47\% | 3.28\% |
| 2/28/1984 | 14.50\% | 11.51\% | 2.99\% |
| 3/2/1984 | 14.25\% | 11.54\% | 2.71\% |
| 3/20/1984 | 16.00\% | 11.64\% | 4.36\% |
| 3/23/1984 | 15.50\% | 11.67\% | 3.83\% |
| 3/26/1984 | 14.71\% | 11.68\% | 3.03\% |
| 4/2/1984 | 15.50\% | 11.71\% | 3.79\% |
| 4/6/1984 | 14.74\% | 11.75\% | 2.99\% |
| 4/11/1984 | 15.72\% | 11.78\% | 3.94\% |
| 4/17/1984 | 15.00\% | 11.81\% | 3.19\% |
| 4/18/1984 | 16.20\% | 11.82\% | 4.38\% |
| 4/25/1984 | 14.64\% | 11.85\% | 2.79\% |
| 4/30/1984 | 14.40\% | 11.87\% | 2.53\% |
| 5/16/1984 | 14.69\% | 11.98\% | 2.71\% |
| 5/16/1984 | 15.00\% | 11.98\% | 3.02\% |
| 5/22/1984 | 14.40\% | 12.02\% | 2.38\% |
| 5/29/1984 | 15.10\% | 12.06\% | 3.04\% |
| 6/13/1984 | 15.25\% | 12.15\% | 3.10\% |
| 6/15/1984 | 15.60\% | 12.17\% | 3.43\% |
| 6/22/1984 | 16.25\% | 12.21\% | 4.04\% |
| 6/29/1984 | 15.25\% | 12.26\% | 2.99\% |
| 7/2/1984 | 13.35\% | 12.27\% | 1.08\% |
| 7/10/1984 | 16.00\% | 12.31\% | 3.69\% |
| 7/12/1984 | 16.50\% | 12.32\% | 4.18\% |
| 7/13/1984 | 16.25\% | 12.33\% | 3.92\% |
| 7/17/1984 | 14.14\% | 12.35\% | 1.79\% |
| 7/18/1984 | 15.30\% | 12.36\% | 2.94\% |
| 7/18/1984 | 15.50\% | 12.36\% | 3.14\% |
| 7/19/1984 | 14.30\% | 12.37\% | 1.93\% |
| 7/24/1984 | 16.79\% | 12.39\% | 4.40\% |
| 7/31/1984 | 16.00\% | 12.43\% | 3.57\% |
| 8/3/1984 | 14.25\% | 12.44\% | 1.81\% |
| 8/17/1984 | 14.30\% | 12.49\% | 1.81\% |
| 8/20/1984 | 15.00\% | 12.49\% | 2.51\% |
| 8/27/1984 | 16.30\% | 12.51\% | 3.79\% |
| 8/31/1984 | 15.55\% | 12.52\% | 3.03\% |
| 9/6/1984 | 16.00\% | 12.53\% | 3.47\% |
| 9/10/1984 | 14.75\% | 12.54\% | 2.21\% |
| 9/13/1984 | 15.00\% | 12.55\% | 2.45\% |
| 9/17/1984 | 17.38\% | 12.56\% | 4.82\% |
| 9/26/1984 | 14.50\% | 12.57\% | 1.93\% |
| 9/28/1984 | 15.00\% | 12.57\% | 2.43\% |
| 9/28/1984 | 16.25\% | 12.57\% | 3.68\% |
| 10/9/1984 | 14.75\% | 12.58\% | 2.17\% |
| 10/12/1984 | 15.60\% | 12.59\% | 3.01\% |
| 10/22/1984 | 15.00\% | 12.59\% | 2.41\% |
| 10/26/1984 | 16.40\% | 12.58\% | 3.82\% |
| 10/31/1984 | 16.25\% | 12.58\% | 3.67\% |
| 11/7/1984 | 15.60\% | 12.58\% | 3.02\% |
| 11/9/1984 | 16.00\% | 12.58\% | 3.42\% |
| 11/14/1984 | 15.75\% | 12.58\% | 3.17\% |
| 11/20/1984 | 15.25\% | 12.58\% | 2.67\% |
| 11/20/1984 | 15.92\% | 12.58\% | 3.34\% |
| 11/23/1984 | 15.00\% | 12.58\% | 2.42\% |
| 11/28/1984 | 16.15\% | 12.57\% | 3.58\% |
| 12/3/1984 | 15.80\% | 12.56\% | 3.24\% |
| 12/4/1984 | 16.50\% | 12.56\% | 3.94\% |
| 12/18/1984 | 16.40\% | 12.53\% | 3.87\% |
| 12/19/1984 | 14.75\% | 12.53\% | 2.22\% |
| 12/19/1984 | 15.00\% | 12.53\% | 2.47\% |
| 12/20/1984 | 16.00\% | 12.53\% | 3.47\% |
| 12/28/1984 | 16.00\% | 12.50\% | 3.50\% |
| 1/3/1985 | 14.75\% | 12.49\% | 2.26\% |
| 1/10/1985 | 15.75\% | 12.47\% | 3.28\% |
| 1/11/1985 | 16.30\% | 12.46\% | 3.84\% |
| 1/23/1985 | 15.80\% | 12.43\% | 3.37\% |
| 1/24/1985 | 15.82\% | 12.43\% | 3.39\% |
| 1/25/1985 | 16.75\% | 12.42\% | 4.33\% |
| 1/30/1985 | 14.90\% | 12.40\% | 2.50\% |
| 1/31/1985 | 14.75\% | 12.39\% | 2.36\% |
| 2/8/1985 | 14.47\% | 12.35\% | 2.12\% |
| 3/1/1985 | 13.84\% | 12.31\% | 1.53\% |
| 3/8/1985 | 16.85\% | 12.28\% | 4.57\% |
| 3/14/1985 | 15.50\% | 12.25\% | 3.25\% |

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| 3/15/1985 | 15.62\% | 12.25\% | 3.37\% |
| :---: | :---: | :---: | :---: |
| 3/29/1985 | 15.62\% | 12.17\% | 3.45\% |
| 4/3/1985 | 14.60\% | 12.14\% | 2.46\% |
| 4/9/1985 | 15.50\% | 12.11\% | 3.39\% |
| 4/16/1985 | 15.70\% | 12.06\% | 3.64\% |
| 4/22/1985 | 14.00\% | 12.02\% | 1.98\% |
| 4/26/1985 | 15.50\% | 11.98\% | 3.52\% |
| 4/29/1985 | 15.00\% | 11.97\% | 3.03\% |
| 5/2/1985 | 14.68\% | 11.94\% | 2.74\% |
| 5/8/1985 | 15.62\% | 11.89\% | 3.73\% |
| 5/10/1985 | 16.50\% | 11.87\% | 4.63\% |
| 5/29/1985 | 14.61\% | 11.73\% | 2.88\% |
| 5/31/1985 | 16.00\% | 11.71\% | 4.29\% |
| 6/14/1985 | 15.50\% | 11.61\% | 3.89\% |
| 7/9/1985 | 15.00\% | 11.45\% | 3.55\% |
| 7/16/1985 | 14.50\% | 11.39\% | 3.11\% |
| 7/26/1985 | 14.50\% | 11.33\% | 3.17\% |
| 8/2/1985 | 14.80\% | 11.29\% | 3.51\% |
| 8/7/1985 | 15.00\% | 11.27\% | 3.73\% |
| 8/28/1985 | 14.25\% | 11.15\% | 3.10\% |
| 8/28/1985 | 15.50\% | 11.15\% | 4.35\% |
| 8/29/1985 | 14.50\% | 11.15\% | 3.35\% |
| 9/9/1985 | 14.60\% | 11.11\% | 3.49\% |
| 9/9/1985 | 14.90\% | 11.11\% | 3.79\% |
| 9/17/1985 | 14.90\% | 11.08\% | 3.82\% |
| 9/23/1985 | 15.00\% | 11.06\% | 3.94\% |
| 9/27/1985 | 15.50\% | 11.05\% | 4.45\% |
| 9/27/1985 | 15.80\% | 11.05\% | 4.75\% |
| 10/2/1985 | 14.00\% | 11.03\% | 2.97\% |
| 10/2/1985 | 14.75\% | 11.03\% | 3.72\% |
| 10/3/1985 | 15.25\% | 11.03\% | 4.22\% |
| 10/24/1985 | 15.40\% | 10.96\% | 4.44\% |
| 10/24/1985 | 15.82\% | 10.96\% | 4.86\% |
| 10/24/1985 | 15.85\% | 10.96\% | 4.89\% |
| 10/28/1985 | 16.00\% | 10.95\% | 5.05\% |
| 10/29/1985 | 16.65\% | 10.94\% | 5.71\% |
| 10/31/1985 | 15.06\% | 10.93\% | 4.13\% |
| 11/4/1985 | 14.50\% | 10.92\% | 3.58\% |
| 11/7/1985 | 15.50\% | 10.90\% | 4.60\% |
| 11/8/1985 | 14.30\% | 10.89\% | 3.41\% |
| 12/12/1985 | 14.75\% | 10.73\% | 4.02\% |
| 12/18/1985 | 15.00\% | 10.69\% | 4.31\% |
| 12/20/1985 | 14.50\% | 10.67\% | 3.83\% |
| 12/20/1985 | 14.50\% | 10.67\% | 3.83\% |
| 12/20/1985 | 15.00\% | 10.67\% | 4.33\% |
| 1/24/1986 | 15.40\% | 10.41\% | 4.99\% |
| 1/31/1986 | 15.00\% | 10.35\% | 4.65\% |
| 2/5/1986 | 15.00\% | 10.32\% | 4.68\% |
| 2/5/1986 | 15.75\% | 10.32\% | 5.43\% |
| 2/10/1986 | 13.30\% | 10.29\% | 3.01\% |
| 2/11/1986 | 12.50\% | 10.28\% | 2.22\% |
| 2/14/1986 | 14.40\% | 10.24\% | 4.16\% |
| 2/18/1986 | 16.00\% | 10.23\% | 5.77\% |
| 2/24/1986 | 14.50\% | 10.18\% | 4.32\% |
| 2/26/1986 | 14.00\% | 10.15\% | 3.85\% |
| 3/5/1986 | 14.90\% | 10.08\% | 4.82\% |
| 3/11/1986 | 14.50\% | 10.02\% | 4.48\% |
| 3/12/1986 | 13.50\% | 10.00\% | 3.50\% |
| 3/27/1986 | 14.10\% | 9.86\% | 4.24\% |
| 3/31/1986 | 13.50\% | 9.84\% | 3.66\% |
| 4/1/1986 | 14.00\% | 9.83\% | 4.17\% |
| 4/2/1986 | 15.50\% | 9.81\% | 5.69\% |
| 4/4/1986 | 15.00\% | 9.78\% | 5.22\% |
| 4/14/1986 | 13.40\% | 9.69\% | 3.71\% |
| 4/23/1986 | 15.00\% | 9.57\% | 5.43\% |
| 5/16/1986 | 14.50\% | 9.32\% | 5.18\% |
| 5/16/1986 | 14.50\% | 9.32\% | 5.18\% |
| 5/29/1986 | 13.90\% | 9.19\% | 4.71\% |
| 5/30/1986 | 15.10\% | 9.18\% | 5.92\% |
| 6/2/1986 | 12.81\% | 9.17\% | 3.64\% |
| 6/11/1986 | 14.00\% | 9.07\% | 4.93\% |
| 6/24/1986 | 16.63\% | 8.94\% | 7.69\% |
| 6/26/1986 | 12.00\% | 8.91\% | 3.09\% |
| 6/26/1986 | 14.75\% | 8.91\% | 5.84\% |
| 6/30/1986 | 13.00\% | 8.87\% | 4.13\% |
| 7/10/1986 | 14.34\% | 8.75\% | 5.59\% |
| 7/11/1986 | 12.75\% | 8.73\% | 4.02\% |
| 7/14/1986 | 12.60\% | 8.71\% | 3.89\% |
| 7/17/1986 | 12.40\% | 8.66\% | 3.74\% |
| 7/25/1986 | 14.25\% | 8.57\% | 5.68\% |
| 8/6/1986 | 13.50\% | 8.44\% | 5.06\% |
| 8/14/1986 | 13.50\% | 8.35\% | 5.15\% |
| 9/16/1986 | 12.75\% | 8.06\% | 4.69\% |

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| 9/19/1986 | 13.25\% | 8.03\% | 5.22\% |
| :---: | :---: | :---: | :---: |
| 10/1/1986 | 14.00\% | 7.95\% | 6.05\% |
| 10/3/1986 | 13.40\% | 7.93\% | 5.47\% |
| 10/31/1986 | 13.50\% | 7.77\% | 5.73\% |
| 11/5/1986 | 13.00\% | 7.75\% | 5.25\% |
| 12/3/1986 | 12.90\% | 7.58\% | 5.32\% |
| 12/4/1986 | 14.44\% | 7.58\% | 6.86\% |
| 12/16/1986 | 13.60\% | 7.52\% | 6.08\% |
| 12/22/1986 | 13.80\% | 7.51\% | 6.29\% |
| 12/30/1986 | 13.00\% | 7.49\% | 5.51\% |
| 1/2/1987 | 13.00\% | 7.49\% | 5.51\% |
| 1/12/1987 | 12.40\% | 7.47\% | 4.93\% |
| 1/27/1987 | 12.71\% | 7.46\% | 5.25\% |
| 3/2/1987 | 12.47\% | 7.47\% | 5.00\% |
| 3/3/1987 | 13.60\% | 7.47\% | 6.13\% |
| 3/4/1987 | 12.38\% | 7.47\% | 4.91\% |
| 3/10/1987 | 13.50\% | 7.47\% | 6.03\% |
| 3/13/1987 | 13.00\% | 7.47\% | 5.53\% |
| 3/31/1987 | 13.00\% | 7.46\% | 5.54\% |
| 4/6/1987 | 13.00\% | 7.47\% | 5.53\% |
| 4/14/1987 | 12.50\% | 7.49\% | 5.01\% |
| 4/16/1987 | 14.50\% | 7.50\% | 7.00\% |
| 4/27/1987 | 12.00\% | 7.54\% | 4.46\% |
| 5/5/1987 | 12.85\% | 7.58\% | 5.27\% |
| 5/12/1987 | 12.65\% | 7.62\% | 5.03\% |
| 5/28/1987 | 13.50\% | 7.70\% | 5.80\% |
| 6/15/1987 | 13.20\% | 7.78\% | 5.42\% |
| 6/29/1987 | 15.00\% | 7.83\% | 7.17\% |
| 6/30/1987 | 12.50\% | 7.84\% | 4.66\% |
| 7/8/1987 | 12.00\% | 7.86\% | 4.14\% |
| 7/10/1987 | 12.90\% | 7.86\% | 5.04\% |
| 7/15/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/16/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/16/1987 | 15.00\% | 7.88\% | 7.12\% |
| 7/27/1987 | 13.00\% | 7.92\% | 5.08\% |
| 7/27/1987 | 13.40\% | 7.92\% | 5.48\% |
| 7/27/1987 | 13.50\% | 7.92\% | 5.58\% |
| 7/31/1987 | 12.98\% | 7.95\% | 5.03\% |
| 8/26/1987 | 12.63\% | 8.06\% | 4.57\% |
| 8/26/1987 | 12.75\% | 8.06\% | 4.69\% |
| 8/27/1987 | 13.25\% | 8.06\% | 5.19\% |
| 9/9/1987 | 13.00\% | 8.14\% | 4.86\% |
| 9/30/1987 | 12.75\% | 8.31\% | 4.44\% |
| 9/30/1987 | 13.00\% | 8.31\% | 4.69\% |
| 10/2/1987 | 11.50\% | 8.33\% | 3.17\% |
| 10/15/1987 | 13.00\% | 8.43\% | 4.57\% |
| 11/2/1987 | 13.00\% | 8.55\% | 4.45\% |
| 11/19/1987 | 13.00\% | 8.64\% | 4.36\% |
| 11/30/1987 | 12.00\% | 8.68\% | 3.32\% |
| 12/3/1987 | 14.20\% | 8.70\% | 5.50\% |
| 12/15/1987 | 13.25\% | 8.77\% | 4.48\% |
| 12/16/1987 | 13.50\% | 8.78\% | 4.72\% |
| 12/16/1987 | 13.72\% | 8.78\% | 4.94\% |
| 12/17/1987 | 11.75\% | 8.79\% | 2.96\% |
| 12/18/1987 | 13.50\% | 8.80\% | 4.70\% |
| 12/21/1987 | 12.01\% | 8.81\% | 3.20\% |
| 12/22/1987 | 12.00\% | 8.81\% | 3.19\% |
| 12/22/1987 | 12.00\% | 8.81\% | 3.19\% |
| 12/22/1987 | 12.75\% | 8.81\% | 3.94\% |
| 12/22/1987 | 13.00\% | 8.81\% | 4.19\% |
| 1/20/1988 | 13.80\% | 8.94\% | 4.86\% |
| 1/26/1988 | 13.90\% | 8.95\% | 4.95\% |
| 1/29/1988 | 13.20\% | 8.96\% | 4.24\% |
| 2/4/1988 | 12.60\% | 8.96\% | 3.64\% |
| 3/1/1988 | 11.56\% | 8.94\% | 2.62\% |
| 3/23/1988 | 12.87\% | 8.92\% | 3.95\% |
| 3/24/1988 | 11.24\% | 8.92\% | 2.32\% |
| 3/30/1988 | 12.72\% | 8.92\% | 3.80\% |
| 4/1/1988 | 12.50\% | 8.92\% | 3.58\% |
| 4/7/1988 | 13.25\% | 8.93\% | 4.32\% |
| 4/25/1988 | 10.96\% | 8.96\% | 2.00\% |
| 5/3/1988 | 12.91\% | 8.97\% | 3.94\% |
| 5/11/1988 | 13.50\% | 8.99\% | 4.51\% |
| 5/16/1988 | 13.00\% | 8.99\% | 4.01\% |
| 6/30/1988 | 12.75\% | 9.00\% | 3.75\% |
| 7/1/1988 | 12.75\% | 8.99\% | 3.76\% |
| 7/20/1988 | 13.40\% | 8.96\% | 4.44\% |
| 8/5/1988 | 12.75\% | 8.92\% | 3.83\% |
| 8/23/1988 | 11.70\% | 8.93\% | 2.77\% |
| 8/29/1988 | 12.75\% | 8.94\% | 3.81\% |
| 8/30/1988 | 13.50\% | 8.94\% | 4.56\% |
| 9/8/1988 | 12.60\% | 8.95\% | 3.65\% |
| 10/13/1988 | 13.10\% | 8.93\% | 4.17\% |

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Sponsored by Robert B. Hevert Exhibit RBH-12, Page 10 of 19

| 12/19/1988 | 13.00\% | 9.02\% | 3.98\% |
| :---: | :---: | :---: | :---: |
| 12/20/1988 | 12.25\% | 9.02\% | 3.23\% |
| 12/20/1988 | 13.00\% | 9.02\% | 3.98\% |
| 12/21/1988 | 12.90\% | 9.02\% | 3.88\% |
| 12/27/1988 | 13.00\% | 9.03\% | 3.97\% |
| 12/28/1988 | 13.10\% | 9.03\% | 4.07\% |
| 12/30/1988 | 13.40\% | 9.04\% | 4.36\% |
| 1/27/1989 | 13.00\% | 9.05\% | 3.95\% |
| 1/31/1989 | 13.00\% | 9.05\% | 3.95\% |
| 2/17/1989 | 13.00\% | 9.05\% | 3.95\% |
| 2/20/1989 | 12.40\% | 9.05\% | 3.35\% |
| 3/1/1989 | 12.76\% | 9.05\% | 3.71\% |
| 3/8/1989 | 13.00\% | 9.05\% | 3.95\% |
| 3/30/1989 | 14.00\% | 9.05\% | 4.95\% |
| 4/5/1989 | 14.20\% | 9.05\% | 5.15\% |
| 4/18/1989 | 13.00\% | 9.05\% | 3.95\% |
| 5/5/1989 | 12.40\% | 9.05\% | 3.35\% |
| 6/2/1989 | 13.20\% | 9.00\% | 4.20\% |
| 6/8/1989 | 13.50\% | 8.98\% | 4.52\% |
| 6/27/1989 | 13.25\% | 8.91\% | 4.34\% |
| 6/30/1989 | 13.00\% | 8.90\% | 4.10\% |
| 8/14/1989 | 12.50\% | 8.77\% | 3.73\% |
| 9/28/1989 | 12.25\% | 8.63\% | 3.62\% |
| 10/24/1989 | 12.50\% | 8.54\% | 3.96\% |
| 11/9/1989 | 13.00\% | 8.49\% | 4.51\% |
| 12/15/1989 | 13.00\% | 8.34\% | 4.66\% |
| 12/20/1989 | 12.90\% | 8.32\% | 4.58\% |
| 12/21/1989 | 12.90\% | 8.31\% | 4.59\% |
| 12/27/1989 | 12.50\% | 8.29\% | 4.21\% |
| 12/27/1989 | 13.00\% | 8.29\% | 4.71\% |
| 1/10/1990 | 12.80\% | 8.24\% | 4.56\% |
| 1/11/1990 | 12.90\% | 8.24\% | 4.66\% |
| 1/17/1990 | 12.80\% | 8.22\% | 4.58\% |
| 1/26/1990 | 12.00\% | 8.20\% | 3.80\% |
| 2/9/1990 | 12.10\% | 8.17\% | 3.93\% |
| 2/24/1990 | 12.86\% | 8.15\% | 4.71\% |
| 3/30/1990 | 12.90\% | 8.16\% | 4.74\% |
| 4/4/1990 | 15.76\% | 8.17\% | 7.59\% |
| 4/12/1990 | 12.52\% | 8.18\% | 4.34\% |
| 4/19/1990 | 12.75\% | 8.20\% | 4.55\% |
| 5/21/1990 | 12.10\% | 8.28\% | 3.82\% |
| 5/29/1990 | 12.40\% | 8.30\% | 4.10\% |
| 5/31/1990 | 12.00\% | 8.30\% | 3.70\% |
| 6/4/1990 | 12.90\% | 8.30\% | 4.60\% |
| 6/6/1990 | 12.25\% | 8.31\% | 3.94\% |
| 6/15/1990 | 13.20\% | 8.32\% | 4.88\% |
| 6/20/1990 | 12.92\% | 8.32\% | 4.60\% |
| 6/27/1990 | 12.90\% | 8.33\% | 4.57\% |
| 6/29/1990 | 12.50\% | 8.33\% | 4.17\% |
| 7/6/1990 | 12.10\% | 8.34\% | 3.76\% |
| 7/6/1990 | 12.35\% | 8.34\% | 4.01\% |
| 8/10/1990 | 12.55\% | 8.41\% | 4.14\% |
| 8/16/1990 | 13.21\% | 8.43\% | 4.78\% |
| 8/22/1990 | 13.10\% | 8.45\% | 4.65\% |
| 8/24/1990 | 13.00\% | 8.46\% | 4.54\% |
| 9/26/1990 | 11.45\% | 8.59\% | 2.86\% |
| 10/2/1990 | 13.00\% | 8.61\% | 4.39\% |
| 10/5/1990 | 12.84\% | 8.62\% | 4.22\% |
| 10/19/1990 | 13.00\% | 8.67\% | 4.33\% |
| 10/25/1990 | 12.30\% | 8.68\% | 3.62\% |
| 11/21/1990 | 12.70\% | 8.69\% | 4.01\% |
| 12/13/1990 | 12.30\% | 8.67\% | 3.63\% |
| 12/17/1990 | 12.87\% | 8.67\% | 4.20\% |
| 12/18/1990 | 13.10\% | 8.67\% | 4.43\% |
| 12/19/1990 | 12.00\% | 8.66\% | 3.34\% |
| 12/20/1990 | 12.75\% | 8.66\% | 4.09\% |
| 12/21/1990 | 12.50\% | 8.66\% | 3.84\% |
| 12/27/1990 | 12.79\% | 8.66\% | 4.13\% |
| 1/2/1991 | 13.10\% | 8.65\% | 4.45\% |
| 1/4/1991 | 12.50\% | 8.65\% | 3.85\% |
| 1/15/1991 | 12.75\% | 8.64\% | 4.11\% |
| 1/25/1991 | 11.70\% | 8.63\% | 3.07\% |
| 2/4/1991 | 12.50\% | 8.60\% | 3.90\% |
| 2/7/1991 | 12.50\% | 8.59\% | 3.91\% |
| 2/12/1991 | 13.00\% | 8.58\% | 4.43\% |
| 2/14/1991 | 12.72\% | 8.57\% | 4.15\% |
| 2/22/1991 | 12.80\% | 8.55\% | 4.25\% |
| 3/6/1991 | 13.10\% | 8.53\% | 4.57\% |
| 3/8/1991 | 12.30\% | 8.52\% | 3.78\% |
| 3/8/1991 | 13.00\% | 8.52\% | 4.48\% |
| 4/22/1991 | 13.00\% | 8.49\% | 4.51\% |
| 5/7/1991 | 13.50\% | 8.47\% | 5.03\% |
| 5/13/1991 | 13.25\% | 8.47\% | 4.78\% |

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Sponsored by Robert B. Hevert Exhibit RBH-12, Page 11 of 19

| 5/30/1991 | 12.75\% | 8.44\% | 4.31\% |
| :---: | :---: | :---: | :---: |
| 6/12/1991 | 12.00\% | 8.41\% | 3.59\% |
| 6/25/1991 | 11.70\% | 8.39\% | 3.31\% |
| 6/28/1991 | 12.50\% | 8.38\% | 4.12\% |
| 7/1/1991 | 12.00\% | 8.38\% | 3.62\% |
| 7/3/1991 | 12.50\% | 8.37\% | 4.13\% |
| 7/19/1991 | 12.10\% | 8.34\% | 3.76\% |
| 8/1/1991 | 12.90\% | 8.32\% | 4.58\% |
| 8/16/1991 | 13.20\% | 8.29\% | 4.91\% |
| 9/27/1991 | 12.50\% | 8.23\% | 4.27\% |
| 9/30/1991 | 12.25\% | 8.23\% | 4.02\% |
| 10/17/1991 | 13.00\% | 8.20\% | 4.80\% |
| 10/23/1991 | 12.50\% | 8.20\% | 4.30\% |
| 10/23/1991 | 12.55\% | 8.20\% | 4.35\% |
| 10/31/1991 | 11.80\% | 8.19\% | 3.61\% |
| 11/1/1991 | 12.00\% | 8.19\% | 3.81\% |
| 11/5/1991 | 12.25\% | 8.19\% | 4.06\% |
| 11/12/1991 | 12.50\% | 8.18\% | 4.32\% |
| 11/12/1991 | 13.25\% | 8.18\% | 5.07\% |
| 11/25/1991 | 12.40\% | 8.18\% | 4.22\% |
| 11/26/1991 | 11.60\% | 8.18\% | 3.42\% |
| 11/26/1991 | 12.50\% | 8.18\% | 4.32\% |
| 11/27/1991 | 12.10\% | 8.18\% | 3.92\% |
| 12/18/1991 | 12.25\% | 8.15\% | 4.10\% |
| 12/19/1991 | 12.60\% | 8.15\% | 4.45\% |
| 12/19/1991 | 12.80\% | 8.15\% | 4.65\% |
| 12/20/1991 | 12.65\% | 8.14\% | 4.51\% |
| 1/9/1992 | 12.80\% | 8.09\% | 4.71\% |
| 1/16/1992 | 12.75\% | 8.07\% | 4.68\% |
| 1/21/1992 | 12.00\% | 8.06\% | 3.94\% |
| 1/22/1992 | 13.00\% | 8.06\% | 4.94\% |
| 1/27/1992 | 12.65\% | 8.05\% | 4.60\% |
| 1/31/1992 | 12.00\% | 8.04\% | 3.96\% |
| 2/11/1992 | 12.40\% | 8.03\% | 4.37\% |
| 2/25/1992 | 12.50\% | 8.01\% | 4.49\% |
| 3/16/1992 | 11.43\% | 7.98\% | 3.45\% |
| 3/18/1992 | 12.28\% | 7.98\% | 4.30\% |
| 4/2/1992 | 12.10\% | 7.95\% | 4.15\% |
| 4/9/1992 | 11.45\% | 7.94\% | 3.51\% |
| 4/10/1992 | 11.50\% | 7.93\% | 3.57\% |
| 4/14/1992 | 11.50\% | 7.93\% | 3.57\% |
| 5/5/1992 | 11.50\% | 7.89\% | 3.61\% |
| 5/12/1992 | 11.87\% | 7.88\% | 3.99\% |
| 5/12/1992 | 12.46\% | 7.88\% | 4.58\% |
| 6/1/1992 | 12.30\% | 7.87\% | 4.43\% |
| 6/12/1992 | 10.90\% | 7.86\% | 3.04\% |
| 6/26/1992 | 12.35\% | 7.85\% | 4.50\% |
| 6/29/1992 | 11.00\% | 7.85\% | 3.15\% |
| 6/30/1992 | 13.00\% | 7.85\% | 5.15\% |
| 7/13/1992 | 11.90\% | 7.84\% | 4.06\% |
| 7/13/1992 | 13.50\% | 7.84\% | 5.66\% |
| 7/22/1992 | 11.20\% | 7.83\% | 3.37\% |
| 8/3/1992 | 12.00\% | 7.81\% | 4.19\% |
| 8/6/1992 | 12.50\% | 7.80\% | 4.70\% |
| 9/22/1992 | 12.00\% | 7.71\% | 4.29\% |
| 9/28/1992 | 11.40\% | 7.71\% | 3.69\% |
| 9/30/1992 | 11.75\% | 7.70\% | 4.05\% |
| 10/2/1992 | 13.00\% | 7.70\% | 5.30\% |
| 10/12/1992 | 12.20\% | 7.70\% | 4.50\% |
| 10/16/1992 | 13.16\% | 7.70\% | 5.46\% |
| 10/30/1992 | 11.75\% | 7.71\% | 4.04\% |
| 11/3/1992 | 12.00\% | 7.71\% | 4.29\% |
| 12/3/1992 | 11.85\% | 7.68\% | 4.17\% |
| 12/15/1992 | 11.00\% | 7.66\% | 3.34\% |
| 12/16/1992 | 11.90\% | 7.66\% | 4.24\% |
| 12/16/1992 | 12.40\% | 7.66\% | 4.74\% |
| 12/17/1992 | 12.00\% | 7.66\% | 4.34\% |
| 12/22/1992 | 12.30\% | 7.65\% | 4.65\% |
| 12/22/1992 | 12.40\% | 7.65\% | 4.75\% |
| 12/29/1992 | 12.25\% | 7.63\% | 4.62\% |
| 12/30/1992 | 12.00\% | 7.63\% | 4.37\% |
| 12/31/1992 | 11.90\% | 7.63\% | 4.27\% |
| 1/12/1993 | 12.00\% | 7.61\% | 4.39\% |
| 1/21/1993 | 11.25\% | 7.59\% | 3.66\% |
| 2/2/1993 | 11.40\% | 7.56\% | 3.84\% |
| 2/15/1993 | 12.30\% | 7.52\% | 4.78\% |
| 2/24/1993 | 11.90\% | 7.49\% | 4.41\% |
| 2/26/1993 | 11.80\% | 7.48\% | 4.32\% |
| 2/26/1993 | 12.20\% | 7.48\% | 4.72\% |
| 4/23/1993 | 11.75\% | 7.29\% | 4.46\% |
| 5/11/1993 | 11.75\% | 7.25\% | 4.50\% |
| 5/14/1993 | 11.50\% | 7.24\% | 4.26\% |
| 5/25/1993 | 11.50\% | 7.23\% | 4.27\% |

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| 5/28/1993 | 11.00\% | 7.22\% | 3.78\% |
| :---: | :---: | :---: | :---: |
| 6/3/1993 | 12.00\% | 7.21\% | 4.79\% |
| 6/16/1993 | 11.50\% | 7.19\% | 4.31\% |
| 6/18/1993 | 12.10\% | 7.18\% | 4.92\% |
| 6/25/1993 | 11.67\% | 7.17\% | 4.50\% |
| 7/21/1993 | 11.38\% | 7.10\% | 4.28\% |
| 7/23/1993 | 10.46\% | 7.09\% | 3.37\% |
| 8/24/1993 | 11.50\% | 6.96\% | 4.54\% |
| 9/21/1993 | 10.50\% | 6.81\% | 3.69\% |
| 9/29/1993 | 11.47\% | 6.77\% | 4.70\% |
| 9/30/1993 | 11.60\% | 6.76\% | 4.84\% |
| 11/2/1993 | 10.80\% | 6.60\% | 4.20\% |
| 11/12/1993 | 12.00\% | 6.57\% | 5.43\% |
| 11/26/1993 | 11.00\% | 6.52\% | 4.48\% |
| 12/14/1993 | 10.55\% | 6.48\% | 4.07\% |
| 12/16/1993 | 10.60\% | 6.48\% | 4.12\% |
| 12/21/1993 | 11.30\% | 6.47\% | 4.83\% |
| 1/4/1994 | 10.07\% | 6.44\% | 3.63\% |
| 1/13/1994 | 11.00\% | 6.42\% | 4.58\% |
| 1/21/1994 | 11.00\% | 6.40\% | 4.60\% |
| 1/28/1994 | 11.35\% | 6.39\% | 4.96\% |
| 2/3/1994 | 11.40\% | 6.38\% | 5.02\% |
| 2/17/1994 | 10.60\% | 6.36\% | 4.24\% |
| 2/25/1994 | 11.25\% | 6.35\% | 4.90\% |
| 2/25/1994 | 12.00\% | 6.35\% | 5.65\% |
| 3/1/1994 | 11.00\% | 6.35\% | 4.65\% |
| 3/4/1994 | 11.00\% | 6.35\% | 4.65\% |
| 4/25/1994 | 11.00\% | 6.41\% | 4.59\% |
| 5/10/1994 | 11.75\% | 6.45\% | 5.30\% |
| 5/13/1994 | 10.50\% | 6.46\% | 4.04\% |
| 6/3/1994 | 11.00\% | 6.54\% | 4.46\% |
| 6/27/1994 | 11.40\% | 6.65\% | 4.75\% |
| 8/5/1994 | 12.75\% | 6.88\% | 5.87\% |
| 10/31/1994 | 10.00\% | 7.33\% | 2.67\% |
| 11/9/1994 | 10.85\% | 7.39\% | 3.46\% |
| 11/9/1994 | 10.85\% | 7.39\% | 3.46\% |
| 11/18/1994 | 11.20\% | 7.45\% | 3.75\% |
| 11/22/1994 | 11.60\% | 7.47\% | 4.13\% |
| 11/28/1994 | 11.06\% | 7.49\% | 3.57\% |
| 12/8/1994 | 11.50\% | 7.54\% | 3.96\% |
| 12/8/1994 | 11.70\% | 7.54\% | 4.16\% |
| 12/14/1994 | 10.95\% | 7.56\% | 3.39\% |
| 12/15/1994 | 11.50\% | 7.57\% | 3.93\% |
| 12/19/1994 | 11.50\% | 7.58\% | 3.92\% |
| 12/28/1994 | 12.15\% | 7.61\% | 4.54\% |
| 1/9/1995 | 12.28\% | 7.64\% | 4.64\% |
| 1/31/1995 | 11.00\% | 7.69\% | 3.31\% |
| 2/10/1995 | 12.60\% | 7.70\% | 4.90\% |
| 2/17/1995 | 11.90\% | 7.70\% | 4.20\% |
| 3/9/1995 | 11.50\% | 7.71\% | 3.79\% |
| 3/20/1995 | 12.00\% | 7.72\% | 4.28\% |
| 3/23/1995 | 12.81\% | 7.72\% | 5.09\% |
| 3/29/1995 | 11.60\% | 7.72\% | 3.88\% |
| 4/6/1995 | 11.10\% | 7.71\% | 3.39\% |
| 4/7/1995 | 11.00\% | 7.71\% | 3.29\% |
| 4/19/1995 | 11.00\% | 7.70\% | 3.30\% |
| 5/12/1995 | 11.63\% | 7.68\% | 3.95\% |
| 5/25/1995 | 11.20\% | 7.65\% | 3.55\% |
| 6/9/1995 | 11.25\% | 7.60\% | 3.65\% |
| 6/21/1995 | 12.25\% | 7.56\% | 4.69\% |
| 6/30/1995 | 11.10\% | 7.52\% | 3.58\% |
| 9/11/1995 | 11.30\% | 7.20\% | 4.10\% |
| 9/27/1995 | 11.30\% | 7.12\% | 4.18\% |
| 9/27/1995 | 11.50\% | 7.12\% | 4.38\% |
| 9/27/1995 | 11.75\% | 7.12\% | 4.63\% |
| 9/29/1995 | 11.00\% | 7.11\% | 3.89\% |
| 11/9/1995 | 11.38\% | 6.90\% | 4.48\% |
| 11/9/1995 | 12.36\% | 6.90\% | 5.46\% |
| 11/17/1995 | 11.00\% | 6.86\% | 4.14\% |
| 12/4/1995 | 11.35\% | 6.78\% | 4.57\% |
| 12/11/1995 | 11.40\% | 6.74\% | 4.66\% |
| 12/20/1995 | 11.60\% | 6.70\% | 4.90\% |
| 12/27/1995 | 12.00\% | 6.66\% | 5.34\% |
| 2/5/1996 | 12.25\% | 6.48\% | 5.77\% |
| 3/29/1996 | 10.67\% | 6.42\% | 4.25\% |
| 4/8/1996 | 11.00\% | 6.42\% | 4.58\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/24/1996 | 11.25\% | 6.43\% | 4.82\% |
| 4/30/1996 | 11.00\% | 6.43\% | 4.57\% |
| 5/13/1996 | 11.00\% | 6.44\% | 4.56\% |
| 5/23/1996 | 11.25\% | 6.43\% | 4.82\% |
| 6/25/1996 | 11.25\% | 6.48\% | 4.77\% |

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| 6/27/1996 | 11.20\% | 6.48\% | 4.72\% |
| :---: | :---: | :---: | :---: |
| 8/12/1996 | 10.40\% | 6.57\% | 3.83\% |
| 9/27/1996 | 11.00\% | 6.71\% | 4.29\% |
| 10/16/1996 | 12.25\% | 6.76\% | 5.49\% |
| 11/5/1996 | 11.00\% | 6.81\% | 4.19\% |
| 11/26/1996 | 11.30\% | 6.83\% | 4.47\% |
| 12/18/1996 | 11.75\% | 6.83\% | 4.92\% |
| 12/31/1996 | 11.50\% | 6.83\% | 4.67\% |
| 1/3/1997 | 10.70\% | 6.83\% | 3.87\% |
| 2/13/1997 | 11.80\% | 6.82\% | 4.98\% |
| 2/20/1997 | 11.80\% | 6.82\% | 4.98\% |
| 3/31/1997 | 10.02\% | 6.80\% | 3.22\% |
| 4/2/1997 | 11.65\% | 6.80\% | 4.85\% |
| 4/28/1997 | 11.50\% | 6.81\% | 4.69\% |
| 4/29/1997 | 11.70\% | 6.81\% | 4.89\% |
| 7/17/1997 | 12.00\% | 6.77\% | 5.23\% |
| 12/12/1997 | 11.00\% | 6.60\% | 4.40\% |
| 12/23/1997 | 11.12\% | 6.57\% | 4.55\% |
| 2/2/1998 | 12.75\% | 6.39\% | 6.36\% |
| 3/2/1998 | 11.25\% | 6.29\% | 4.96\% |
| 3/6/1998 | 10.75\% | 6.27\% | 4.48\% |
| 3/20/1998 | 10.50\% | 6.22\% | 4.28\% |
| 4/30/1998 | 12.20\% | 6.12\% | 6.08\% |
| 7/10/1998 | 11.40\% | 5.94\% | 5.46\% |
| 9/15/1998 | 11.90\% | 5.78\% | 6.12\% |
| 11/30/1998 | 12.60\% | 5.58\% | 7.02\% |
| 12/10/1998 | 12.20\% | 5.54\% | 6.66\% |
| 12/17/1998 | 12.10\% | 5.52\% | 6.58\% |
| 2/5/1999 | 10.30\% | 5.38\% | 4.92\% |
| 3/4/1999 | 10.50\% | 5.34\% | 5.16\% |
| 4/6/1999 | 10.94\% | 5.32\% | 5.62\% |
| 7/29/1999 | 10.75\% | 5.52\% | 5.23\% |
| 9/23/1999 | 10.75\% | 5.70\% | 5.05\% |
| 11/17/1999 | 11.10\% | 5.90\% | 5.20\% |
| 1/7/2000 | 11.50\% | 6.05\% | 5.45\% |
| 1/7/2000 | 11.50\% | 6.05\% | 5.45\% |
| 2/17/2000 | 10.60\% | 6.17\% | 4.43\% |
| 3/28/2000 | 11.25\% | 6.20\% | 5.05\% |
| 5/24/2000 | 11.00\% | 6.18\% | 4.82\% |
| 7/18/2000 | 12.20\% | 6.16\% | 6.04\% |
| 9/29/2000 | 11.16\% | 6.03\% | 5.13\% |
| 11/28/2000 | 12.90\% | 5.89\% | 7.01\% |
| 11/30/2000 | 12.10\% | 5.88\% | 6.22\% |
| 1/23/2001 | 11.25\% | 5.79\% | 5.46\% |
| 2/8/2001 | 11.50\% | 5.77\% | 5.73\% |
| 5/8/2001 | 10.75\% | 5.62\% | 5.13\% |
| 6/26/2001 | 11.00\% | 5.62\% | 5.38\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/31/2001 | 11.00\% | 5.59\% | 5.41\% |
| 8/31/2001 | 10.50\% | 5.56\% | 4.94\% |
| 9/7/2001 | 10.75\% | 5.55\% | 5.20\% |
| 9/10/2001 | 11.00\% | 5.55\% | 5.45\% |
| 9/20/2001 | 10.00\% | 5.55\% | 4.45\% |
| 10/24/2001 | 10.30\% | 5.54\% | 4.76\% |
| 11/28/2001 | 10.60\% | 5.49\% | 5.11\% |
| 12/3/2001 | 12.88\% | 5.49\% | 7.39\% |
| 12/20/2001 | 12.50\% | 5.50\% | 7.00\% |
| 1/22/2002 | 10.00\% | 5.50\% | 4.50\% |
| 3/27/2002 | 10.10\% | 5.45\% | 4.65\% |
| 4/22/2002 | 11.80\% | 5.45\% | 6.35\% |
| 5/28/2002 | 10.17\% | 5.46\% | 4.71\% |
| 6/10/2002 | 12.00\% | 5.47\% | 6.53\% |
| 6/18/2002 | 11.16\% | 5.48\% | 5.68\% |
| 6/20/2002 | 11.00\% | 5.48\% | 5.52\% |
| 6/20/2002 | 12.30\% | 5.48\% | 6.82\% |
| 7/15/2002 | 11.00\% | 5.48\% | 5.52\% |
| 9/12/2002 | 12.30\% | 5.45\% | 6.85\% |
| 9/26/2002 | 10.45\% | 5.41\% | 5.04\% |
| 12/4/2002 | 11.55\% | 5.29\% | 6.26\% |
| 12/13/2002 | 11.75\% | 5.27\% | 6.48\% |
| 12/20/2002 | 11.40\% | 5.25\% | 6.15\% |
| 1/8/2003 | 11.10\% | 5.19\% | 5.91\% |
| 1/31/2003 | 12.45\% | 5.13\% | 7.32\% |
| 2/28/2003 | 12.30\% | 5.05\% | 7.25\% |
| 3/6/2003 | 10.75\% | 5.03\% | 5.72\% |
| 3/7/2003 | 9.96\% | 5.02\% | 4.94\% |
| 3/20/2003 | 12.00\% | 4.98\% | 7.02\% |
| 4/3/2003 | 12.00\% | 4.96\% | 7.04\% |
| 4/15/2003 | 11.15\% | 4.94\% | 6.21\% |
| 6/25/2003 | 10.75\% | 4.79\% | 5.96\% |
| 6/26/2003 | 10.75\% | 4.79\% | 5.96\% |
| 7/9/2003 | 9.75\% | 4.79\% | 4.96\% |

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| 7/16/2003 | 9.75\% | 4.79\% | 4.96\% |
| :---: | :---: | :---: | :---: |
| 7/25/2003 | 9.50\% | 4.80\% | 4.70\% |
| 8/26/2003 | 10.50\% | 4.83\% | 5.67\% |
| 12/17/2003 | 9.85\% | 4.94\% | 4.91\% |
| 12/17/2003 | 10.70\% | 4.94\% | 5.76\% |
| 12/18/2003 | 11.50\% | 4.94\% | 6.56\% |
| 12/19/2003 | 12.00\% | 4.94\% | 7.06\% |
| 12/19/2003 | 12.00\% | 4.94\% | 7.06\% |
| 12/23/2003 | 10.50\% | 4.94\% | 5.56\% |
| 1/13/2004 | 12.00\% | 4.95\% | 7.05\% |
| 3/2/2004 | 10.75\% | 4.99\% | 5.76\% |
| 3/26/2004 | 10.25\% | 5.02\% | 5.23\% |
| 4/5/2004 | 11.25\% | 5.03\% | 6.22\% |
| 5/18/2004 | 10.50\% | 5.07\% | 5.43\% |
| 5/25/2004 | 10.25\% | 5.08\% | 5.17\% |
| 5/27/2004 | 10.25\% | 5.08\% | 5.17\% |
| 6/2/2004 | 11.22\% | 5.08\% | 6.14\% |
| 6/30/2004 | 10.50\% | 5.10\% | 5.40\% |
| 6/30/2004 | 10.50\% | 5.10\% | 5.40\% |
| 7/16/2004 | 11.60\% | 5.11\% | 6.49\% |
| 8/25/2004 | 10.25\% | 5.10\% | 5.15\% |
| 9/9/2004 | 10.40\% | 5.10\% | 5.30\% |
| 11/9/2004 | 10.50\% | 5.07\% | 5.43\% |
| 11/23/2004 | 11.00\% | 5.06\% | 5.94\% |
| 12/14/2004 | 10.97\% | 5.07\% | 5.90\% |
| 12/21/2004 | 11.25\% | 5.07\% | 6.18\% |
| 12/21/2004 | 11.50\% | 5.07\% | 6.43\% |
| 12/22/2004 | 10.70\% | 5.07\% | 5.63\% |
| 12/22/2004 | 11.50\% | 5.07\% | 6.43\% |
| 12/29/2004 | 9.85\% | 5.07\% | 4.78\% |
| 1/6/2005 | 10.70\% | 5.08\% | 5.62\% |
| 2/18/2005 | 10.30\% | 4.98\% | 5.32\% |
| 2/25/2005 | 10.50\% | 4.96\% | 5.54\% |
| 3/10/2005 | 11.00\% | 4.93\% | 6.07\% |
| 3/24/2005 | 10.30\% | 4.90\% | 5.40\% |
| 4/4/2005 | 10.00\% | 4.88\% | 5.12\% |
| 4/7/2005 | 10.25\% | 4.87\% | 5.38\% |
| 5/18/2005 | 10.25\% | 4.78\% | 5.47\% |
| 5/25/2005 | 10.75\% | 4.76\% | 5.99\% |
| 5/26/2005 | 9.75\% | 4.76\% | 4.99\% |
| 6/1/2005 | 9.75\% | 4.75\% | 5.00\% |
| 7/19/2005 | 11.50\% | 4.64\% | 6.86\% |
| 8/5/2005 | 11.75\% | 4.62\% | 7.13\% |
| 8/15/2005 | 10.13\% | 4.61\% | 5.52\% |
| 9/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 10/4/2005 | 10.75\% | 4.54\% | 6.21\% |
| 12/12/2005 | 11.00\% | 4.55\% | 6.45\% |
| 12/13/2005 | 10.75\% | 4.55\% | 6.20\% |
| 12/21/2005 | 10.29\% | 4.54\% | 5.75\% |
| 12/21/2005 | 10.40\% | 4.54\% | 5.86\% |
| 12/22/2005 | 11.00\% | 4.54\% | 6.46\% |
| 12/22/2005 | 11.15\% | 4.54\% | 6.61\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 1/5/2006 | 11.00\% | 4.53\% | 6.47\% |
| 1/27/2006 | 9.75\% | 4.52\% | 5.23\% |
| 3/3/2006 | 10.39\% | 4.53\% | 5.86\% |
| 4/17/2006 | 10.20\% | 4.61\% | 5.59\% |
| 4/26/2006 | 10.60\% | 4.64\% | 5.96\% |
| 5/17/2006 | 11.60\% | 4.69\% | 6.91\% |
| 6/6/2006 | 10.00\% | 4.74\% | 5.26\% |
| 6/27/2006 | 10.75\% | 4.80\% | 5.95\% |
| 7/6/2006 | 10.20\% | 4.83\% | 5.37\% |
| 7/24/2006 | 9.60\% | 4.86\% | 4.74\% |
| 7/26/2006 | 10.50\% | 4.86\% | 5.64\% |
| 7/28/2006 | 10.05\% | 4.86\% | 5.19\% |
| 8/23/2006 | 9.55\% | 4.89\% | 4.66\% |
| 9/1/2006 | 10.54\% | 4.90\% | 5.64\% |
| 9/14/2006 | 10.00\% | 4.91\% | 5.09\% |
| 10/6/2006 | 9.67\% | 4.92\% | 4.75\% |
| 11/21/2006 | 10.08\% | 4.95\% | 5.13\% |
| 11/21/2006 | 10.08\% | 4.95\% | 5.13\% |
| 11/21/2006 | 10.12\% | 4.95\% | 5.17\% |
| 12/1/2006 | 10.25\% | 4.95\% | 5.30\% |
| 12/1/2006 | 10.50\% | 4.95\% | 5.55\% |
| 12/7/2006 | 10.75\% | 4.95\% | 5.80\% |
| 12/21/2006 | 10.90\% | 4.95\% | 5.95\% |
| 12/21/2006 | 11.25\% | 4.95\% | 6.30\% |
| 12/22/2006 | 10.25\% | 4.95\% | 5.30\% |
| 1/5/2007 | 10.00\% | 4.95\% | 5.05\% |
| 1/11/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/11/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/11/2007 | 10.90\% | 4.95\% | 5.95\% |

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Sponsored by Robert B. Hevert Exhibit RBH-12, Page 15 of 19

| 1/12/2007 | 10.10\% | 4.95\% | 5.15\% |
| :---: | :---: | :---: | :---: |
| 1/13/2007 | 10.40\% | 4.95\% | 5.45\% |
| 1/19/2007 | 10.80\% | 4.94\% | 5.86\% |
| 3/21/2007 | 11.35\% | 4.87\% | 6.48\% |
| 3/22/2007 | 9.75\% | 4.86\% | 4.89\% |
| 5/15/2007 | 10.00\% | 4.81\% | 5.19\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.44\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.44\% |
| 5/22/2007 | 10.20\% | 4.80\% | 5.40\% |
| 5/22/2007 | 10.50\% | 4.80\% | 5.70\% |
| 5/23/2007 | 10.70\% | 4.80\% | 5.90\% |
| 5/25/2007 | 9.67\% | 4.80\% | 4.87\% |
| 6/15/2007 | 9.90\% | 4.82\% | 5.08\% |
| 6/21/2007 | 10.20\% | 4.83\% | 5.37\% |
| 6/22/2007 | 10.50\% | 4.83\% | 5.67\% |
| 6/28/2007 | 10.75\% | 4.84\% | 5.91\% |
| 7/12/2007 | 9.67\% | 4.86\% | 4.81\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.13\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.13\% |
| 8/15/2007 | 10.40\% | 4.88\% | 5.52\% |
| 10/9/2007 | 10.00\% | 4.91\% | 5.09\% |
| 10/17/2007 | 9.10\% | 4.91\% | 4.19\% |
| 10/31/2007 | 9.96\% | 4.90\% | 5.06\% |
| 11/29/2007 | 10.90\% | 4.87\% | 6.03\% |
| 12/6/2007 | 10.75\% | 4.86\% | 5.89\% |
| 12/13/2007 | 9.96\% | 4.86\% | 5.10\% |
| 12/14/2007 | 10.70\% | 4.86\% | 5.84\% |
| 12/14/2007 | 10.80\% | 4.86\% | 5.94\% |
| 12/19/2007 | 10.20\% | 4.86\% | 5.34\% |
| 12/20/2007 | 10.20\% | 4.85\% | 5.35\% |
| 12/20/2007 | 11.00\% | 4.85\% | 6.15\% |
| 12/28/2007 | 10.25\% | 4.85\% | 5.40\% |
| 12/31/2007 | 11.25\% | 4.85\% | 6.40\% |
| 1/8/2008 | 10.75\% | 4.83\% | 5.92\% |
| 1/17/2008 | 10.75\% | 4.81\% | 5.94\% |
| 1/28/2008 | 9.40\% | 4.80\% | 4.60\% |
| 1/30/2008 | 10.00\% | 4.79\% | 5.21\% |
| 1/31/2008 | 10.71\% | 4.79\% | 5.92\% |
| 2/29/2008 | 10.25\% | 4.75\% | 5.50\% |
| 3/12/2008 | 10.25\% | 4.73\% | 5.52\% |
| 3/25/2008 | 9.10\% | 4.68\% | 4.42\% |
| 4/22/2008 | 10.25\% | 4.60\% | 5.65\% |
| 4/24/2008 | 10.10\% | 4.60\% | 5.50\% |
| 5/1/2008 | 10.70\% | 4.59\% | 6.11\% |
| 5/19/2008 | 11.00\% | 4.56\% | 6.44\% |
| 5/27/2008 | 10.00\% | 4.55\% | 5.45\% |
| 6/10/2008 | 10.70\% | 4.54\% | 6.16\% |
| 6/27/2008 | 10.50\% | 4.54\% | 5.96\% |
| 6/27/2008 | 11.04\% | 4.54\% | 6.50\% |
| 7/10/2008 | 10.43\% | 4.52\% | 5.91\% |
| 7/16/2008 | 9.40\% | 4.52\% | 4.88\% |
| 7/30/2008 | 10.80\% | 4.51\% | 6.29\% |
| 7/31/2008 | 10.70\% | 4.51\% | 6.19\% |
| 8/11/2008 | 10.25\% | 4.51\% | 5.74\% |
| 8/26/2008 | 10.18\% | 4.50\% | 5.68\% |
| 9/10/2008 | 10.30\% | 4.50\% | 5.80\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.17\% |
| 9/30/2008 | 10.20\% | 4.48\% | 5.72\% |
| 10/8/2008 | 10.15\% | 4.46\% | 5.69\% |
| 11/13/2008 | 10.55\% | 4.45\% | 6.10\% |
| 11/17/2008 | 10.20\% | 4.44\% | 5.76\% |
| 12/1/2008 | 10.25\% | 4.40\% | 5.85\% |
| 12/23/2008 | 11.00\% | 4.27\% | 6.73\% |
| 12/29/2008 | 10.00\% | 4.24\% | 5.76\% |
| 12/29/2008 | 10.20\% | 4.24\% | 5.96\% |
| 12/31/2008 | 10.75\% | 4.22\% | 6.53\% |
| 1/14/2009 | 10.50\% | 4.15\% | 6.35\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.38\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.38\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.38\% |
| 1/27/2009 | 10.76\% | 4.09\% | 6.67\% |
| 1/30/2009 | 10.50\% | 4.08\% | 6.42\% |
| 2/4/2009 | 8.75\% | 4.06\% | 4.69\% |
| 3/4/2009 | 10.50\% | 3.96\% | 6.54\% |
| 3/12/2009 | 11.50\% | 3.93\% | 7.57\% |
| 4/2/2009 | 11.10\% | 3.85\% | 7.25\% |
| 4/21/2009 | 10.61\% | 3.80\% | 6.81\% |
| 4/24/2009 | 10.00\% | 3.79\% | 6.21\% |
| 4/30/2009 | 11.25\% | 3.78\% | 7.47\% |
| 5/4/2009 | 10.74\% | 3.77\% | 6.97\% |
| 5/20/2009 | 10.25\% | 3.74\% | 6.51\% |

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| 5/28/2009 | 10.50\% | 3.74\% | 6.76\% |
| :---: | :---: | :---: | :---: |
| 6/22/2009 | 10.00\% | 3.76\% | 6.24\% |
| 6/24/2009 | 10.80\% | 3.77\% | 7.03\% |
| 7/8/2009 | 10.63\% | 3.77\% | 6.86\% |
| 7/17/2009 | 10.50\% | 3.78\% | 6.72\% |
| 8/31/2009 | 10.25\% | 3.82\% | 6.43\% |
| 10/14/2009 | 10.70\% | 4.01\% | 6.69\% |
| 10/23/2009 | 10.88\% | 4.06\% | 6.82\% |
| 11/2/2009 | 10.70\% | 4.09\% | 6.61\% |
| 11/3/2009 | 10.70\% | 4.10\% | 6.60\% |
| 11/24/2009 | 10.25\% | 4.15\% | 6.10\% |
| 11/25/2009 | 10.75\% | 4.16\% | 6.59\% |
| 11/30/2009 | 10.35\% | 4.17\% | 6.18\% |
| 12/3/2009 | 10.50\% | 4.18\% | 6.32\% |
| 12/7/2009 | 10.70\% | 4.18\% | 6.52\% |
| 12/16/2009 | 10.90\% | 4.21\% | 6.69\% |
| 12/16/2009 | 11.00\% | 4.21\% | 6.79\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.18\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.18\% |
| 12/22/2009 | 10.20\% | 4.23\% | 5.97\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.17\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.17\% |
| 12/30/2009 | 10.00\% | 4.26\% | 5.74\% |
| 1/4/2010 | 10.80\% | 4.28\% | 6.52\% |
| 1/11/2010 | 11.00\% | 4.30\% | 6.70\% |
| 1/26/2010 | 10.13\% | 4.35\% | 5.78\% |
| 1/27/2010 | 10.40\% | 4.35\% | 6.05\% |
| 1/27/2010 | 10.40\% | 4.35\% | 6.05\% |
| 1/27/2010 | 10.70\% | 4.35\% | 6.35\% |
| 2/9/2010 | 9.80\% | 4.38\% | 5.42\% |
| 2/18/2010 | 10.60\% | 4.40\% | 6.20\% |
| 2/24/2010 | 10.18\% | 4.41\% | 5.77\% |
| 3/2/2010 | 9.63\% | 4.41\% | 5.22\% |
| 3/4/2010 | 10.50\% | 4.41\% | 6.09\% |
| 3/5/2010 | 10.50\% | 4.41\% | 6.09\% |
| 3/11/2010 | 11.90\% | 4.42\% | 7.48\% |
| 3/17/2010 | 10.00\% | 4.41\% | 5.59\% |
| 3/25/2010 | 10.15\% | 4.42\% | 5.73\% |
| 4/2/2010 | 10.10\% | 4.43\% | 5.67\% |
| 4/27/2010 | 10.00\% | 4.46\% | 5.54\% |
| 4/29/2010 | 9.90\% | 4.46\% | 5.44\% |
| 4/29/2010 | 10.06\% | 4.46\% | 5.60\% |
| 4/29/2010 | 10.26\% | 4.46\% | 5.80\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.85\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.85\% |
| 5/28/2010 | 10.10\% | 4.44\% | 5.66\% |
| 5/28/2010 | 10.20\% | 4.44\% | 5.76\% |
| 6/7/2010 | 10.30\% | 4.44\% | 5.86\% |
| 6/16/2010 | 10.00\% | 4.44\% | 5.56\% |
| 6/28/2010 | 9.67\% | 4.43\% | 5.24\% |
| 6/28/2010 | 10.50\% | 4.43\% | 6.07\% |
| 6/30/2010 | 9.40\% | 4.43\% | 4.97\% |
| 7/1/2010 | 10.25\% | 4.43\% | 5.82\% |
| 7/15/2010 | 10.53\% | 4.43\% | 6.10\% |
| 7/15/2010 | 10.70\% | 4.43\% | 6.27\% |
| 7/30/2010 | 10.70\% | 4.41\% | 6.29\% |
| 8/4/2010 | 10.50\% | 4.41\% | 6.09\% |
| 8/6/2010 | 9.83\% | 4.41\% | 5.42\% |
| 8/25/2010 | 9.90\% | 4.37\% | 5.53\% |
| 9/3/2010 | 10.60\% | 4.35\% | 6.25\% |
| 9/14/2010 | 10.70\% | 4.33\% | 6.37\% |
| 9/16/2010 | 10.00\% | 4.33\% | 5.67\% |
| 9/16/2010 | 10.00\% | 4.33\% | 5.67\% |
| 9/30/2010 | 9.75\% | 4.29\% | 5.46\% |
| 10/14/2010 | 10.35\% | 4.24\% | 6.11\% |
| 10/28/2010 | 10.70\% | 4.21\% | 6.49\% |
| 11/2/2010 | 10.38\% | 4.20\% | 6.18\% |
| 11/4/2010 | 10.70\% | 4.20\% | 6.50\% |
| 11/19/2010 | 10.20\% | 4.18\% | 6.02\% |
| 11/22/2010 | 10.00\% | 4.18\% | 5.82\% |
| 12/1/2010 | 10.13\% | 4.16\% | 5.97\% |
| 12/6/2010 | 9.86\% | 4.15\% | 5.71\% |
| 12/9/2010 | 10.25\% | 4.15\% | 6.10\% |
| 12/13/2010 | 10.70\% | 4.15\% | 6.55\% |
| 12/14/2010 | 10.13\% | 4.15\% | 5.98\% |
| 12/15/2010 | 10.44\% | 4.15\% | 6.29\% |
| 12/17/2010 | 10.00\% | 4.15\% | 5.85\% |
| 12/20/2010 | 10.60\% | 4.15\% | 6.45\% |
| 12/21/2010 | 10.30\% | 4.14\% | 6.16\% |
| 12/27/2010 | 9.90\% | 4.14\% | 5.76\% |
| 12/29/2010 | 11.15\% | 4.14\% | 7.01\% |
| 1/5/2011 | 10.15\% | 4.13\% | 6.02\% |
| 1/12/2011 | 10.30\% | 4.12\% | 6.18\% |

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| 1/13/2011 | 10.30\% | 4.12\% | 6.18\% |
| :---: | :---: | :---: | :---: |
| 1/18/2011 | 10.00\% | 4.12\% | 5.88\% |
| 1/20/2011 | 9.30\% | 4.12\% | 5.18\% |
| 1/20/2011 | 10.13\% | 4.12\% | 6.01\% |
| 1/31/2011 | 9.60\% | 4.12\% | 5.48\% |
| 2/3/2011 | 10.00\% | 4.12\% | 5.88\% |
| 2/25/2011 | 10.00\% | 4.14\% | 5.86\% |
| 3/25/2011 | 9.80\% | 4.18\% | 5.62\% |
| 3/30/2011 | 10.00\% | 4.18\% | 5.82\% |
| 4/12/2011 | 10.00\% | 4.21\% | 5.79\% |
| 4/25/2011 | 10.74\% | 4.23\% | 6.51\% |
| 4/26/2011 | 9.67\% | 4.23\% | 5.44\% |
| 4/27/2011 | 10.40\% | 4.24\% | 6.16\% |
| 5/4/2011 | 10.00\% | 4.24\% | 5.76\% |
| 5/4/2011 | 10.00\% | 4.24\% | 5.76\% |
| 5/24/2011 | 10.50\% | 4.27\% | 6.23\% |
| 6/8/2011 | 10.75\% | 4.30\% | 6.45\% |
| 6/16/2011 | 9.20\% | 4.32\% | 4.88\% |
| 6/17/2011 | 9.95\% | 4.32\% | 5.63\% |
| 7/13/2011 | 10.20\% | 4.36\% | 5.84\% |
| 8/1/2011 | 9.20\% | 4.39\% | 4.81\% |
| 8/8/2011 | 10.00\% | 4.38\% | 5.62\% |
| 8/11/2011 | 10.00\% | 4.38\% | 5.62\% |
| 8/12/2011 | 10.35\% | 4.37\% | 5.98\% |
| 8/19/2011 | 10.25\% | 4.36\% | 5.89\% |
| 9/2/2011 | 12.88\% | 4.32\% | 8.56\% |
| 9/22/2011 | 10.00\% | 4.24\% | 5.76\% |
| 10/12/2011 | 10.30\% | 4.14\% | 6.16\% |
| 10/20/2011 | 10.50\% | 4.10\% | 6.40\% |
| 11/30/2011 | 10.90\% | 3.87\% | 7.03\% |
| 11/30/2011 | 10.90\% | 3.87\% | 7.03\% |
| 12/14/2011 | 10.00\% | 3.80\% | 6.20\% |
| 12/14/2011 | 10.30\% | 3.80\% | 6.50\% |
| 12/20/2011 | 10.20\% | 3.76\% | 6.44\% |
| 12/21/2011 | 10.20\% | 3.76\% | 6.44\% |
| 12/22/2011 | 9.90\% | 3.75\% | 6.15\% |
| 12/22/2011 | 10.40\% | 3.75\% | 6.65\% |
| 12/23/2011 | 10.19\% | 3.74\% | 6.45\% |
| 1/25/2012 | 10.50\% | 3.57\% | 6.93\% |
| 1/27/2012 | 10.50\% | 3.56\% | 6.94\% |
| 2/15/2012 | 10.20\% | 3.47\% | 6.73\% |
| 2/23/2012 | 9.90\% | 3.44\% | 6.46\% |
| 2/27/2012 | 10.25\% | 3.43\% | 6.82\% |
| 2/29/2012 | 10.40\% | 3.41\% | 6.99\% |
| 3/29/2012 | 10.37\% | 3.32\% | 7.05\% |
| 4/4/2012 | 10.00\% | 3.30\% | 6.70\% |
| 4/26/2012 | 10.00\% | 3.21\% | 6.79\% |
| 5/2/2012 | 10.00\% | 3.18\% | 6.82\% |
| 5/7/2012 | 9.80\% | 3.17\% | 6.63\% |
| 5/15/2012 | 10.00\% | 3.14\% | 6.86\% |
| 5/29/2012 | 10.05\% | 3.11\% | 6.94\% |
| 6/7/2012 | 10.30\% | 3.08\% | 7.22\% |
| 6/14/2012 | 9.40\% | 3.06\% | 6.34\% |
| 6/15/2012 | 10.40\% | 3.06\% | 7.34\% |
| 6/18/2012 | 9.60\% | 3.06\% | 6.54\% |
| 6/19/2012 | 9.25\% | 3.05\% | 6.20\% |
| 6/26/2012 | 10.10\% | 3.04\% | 7.06\% |
| 6/29/2012 | 10.00\% | 3.04\% | 6.96\% |
| 7/9/2012 | 10.20\% | 3.03\% | 7.17\% |
| 7/16/2012 | 9.80\% | 3.02\% | 6.78\% |
| 7/20/2012 | 9.31\% | 3.01\% | 6.30\% |
| 7/20/2012 | 9.81\% | 3.01\% | 6.80\% |
| 9/13/2012 | 9.80\% | 2.94\% | 6.86\% |
| 9/19/2012 | 9.80\% | 2.94\% | 6.86\% |
| 9/19/2012 | 10.05\% | 2.94\% | 7.11\% |
| 9/26/2012 | 9.50\% | 2.94\% | 6.56\% |
| 10/12/2012 | 9.60\% | 2.93\% | 6.67\% |
| 10/23/2012 | 9.75\% | 2.93\% | 6.82\% |
| 10/24/2012 | 10.30\% | 2.93\% | 7.37\% |
| 11/9/2012 | 10.30\% | 2.92\% | 7.38\% |
| 11/28/2012 | 10.40\% | 2.90\% | 7.50\% |
| 11/29/2012 | 9.75\% | 2.89\% | 6.86\% |
| 11/29/2012 | 9.88\% | 2.89\% | 6.99\% |
| 12/5/2012 | 9.71\% | 2.89\% | 6.82\% |
| 12/5/2012 | 10.40\% | 2.89\% | 7.51\% |
| 12/12/2012 | 9.80\% | 2.88\% | 6.92\% |
| 12/13/2012 | 9.50\% | 2.88\% | 6.62\% |
| 12/13/2012 | 10.50\% | 2.88\% | 7.62\% |
| 12/14/2012 | 10.40\% | 2.88\% | 7.52\% |
| 12/19/2012 | 9.71\% | 2.87\% | 6.84\% |
| 12/19/2012 | 10.25\% | 2.87\% | 7.38\% |
| 12/20/2012 | 9.50\% | 2.87\% | 6.63\% |
| 12/20/2012 | 9.80\% | 2.87\% | 6.93\% |

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| 12/20/2012 | 10.25\% | 2.87\% | 7.38\% |
| :---: | :---: | :---: | :---: |
| 12/20/2012 | 10.25\% | 2.87\% | 7.38\% |
| 12/20/2012 | 10.30\% | 2.87\% | 7.43\% |
| 12/20/2012 | 10.40\% | 2.87\% | 7.53\% |
| 12/20/2012 | 10.45\% | 2.87\% | 7.58\% |
| 12/21/2012 | 10.20\% | 2.87\% | 7.33\% |
| 12/26/2012 | 9.80\% | 2.86\% | 6.94\% |
| 1/9/2013 | 9.70\% | 2.85\% | 6.85\% |
| 1/9/2013 | 9.70\% | 2.85\% | 6.85\% |
| 1/9/2013 | 9.70\% | 2.85\% | 6.85\% |
| 1/16/2013 | 9.60\% | 2.84\% | 6.76\% |
| 1/16/2013 | 9.60\% | 2.84\% | 6.76\% |
| 2/13/2013 | 10.20\% | 2.84\% | 7.36\% |
| 2/22/2013 | 9.75\% | 2.85\% | 6.90\% |
| 2/27/2013 | 10.00\% | 2.86\% | 7.14\% |
| 3/14/2013 | 9.30\% | 2.88\% | 6.42\% |
| 3/27/2013 | 9.80\% | 2.90\% | 6.90\% |
| 5/1/2013 | 9.84\% | 2.94\% | 6.90\% |
| 5/15/2013 | 10.30\% | 2.96\% | 7.34\% |
| 5/30/2013 | 10.20\% | 2.98\% | 7.22\% |
| 5/31/2013 | 9.00\% | 2.98\% | 6.02\% |
| 6/11/2013 | 10.00\% | 3.00\% | 7.00\% |
| 6/21/2013 | 9.75\% | 3.02\% | 6.73\% |
| 6/25/2013 | 9.80\% | 3.03\% | 6.77\% |
| 7/12/2013 | 9.36\% | 3.07\% | 6.29\% |
| 8/8/2013 | 9.83\% | 3.14\% | 6.69\% |
| 8/14/2013 | 9.15\% | 3.16\% | 5.99\% |
| 9/11/2013 | 10.20\% | 3.26\% | 6.94\% |
| 9/11/2013 | 10.25\% | 3.26\% | 6.99\% |
| 9/24/2013 | 10.20\% | 3.31\% | 6.89\% |
| 10/3/2013 | 9.65\% | 3.33\% | 6.32\% |
| 11/6/2013 | 10.20\% | 3.41\% | 6.79\% |
| 11/21/2013 | 10.00\% | 3.44\% | 6.56\% |
| 11/26/2013 | 10.00\% | 3.45\% | 6.55\% |
| 12/3/2013 | 10.25\% | 3.47\% | 6.78\% |
| 12/4/2013 | 9.50\% | 3.47\% | 6.03\% |
| 12/5/2013 | 10.20\% | 3.48\% | 6.72\% |
| 12/9/2013 | 8.72\% | 3.48\% | 5.24\% |
| 12/9/2013 | 9.75\% | 3.48\% | 6.27\% |
| 12/13/2013 | 9.75\% | 3.50\% | 6.25\% |
| 12/16/2013 | 9.95\% | 3.50\% | 6.45\% |
| 12/16/2013 | 9.95\% | 3.50\% | 6.45\% |
| 12/16/2013 | 10.12\% | 3.50\% | 6.62\% |
| 12/17/2013 | 9.50\% | 3.51\% | 5.99\% |
| 12/17/2013 | 10.95\% | 3.51\% | 7.44\% |
| 12/18/2013 | 8.72\% | 3.51\% | 5.21\% |
| 12/18/2013 | 9.80\% | 3.51\% | 6.29\% |
| 12/19/2013 | 10.15\% | 3.51\% | 6.64\% |
| 12/30/2013 | 9.50\% | 3.54\% | 5.96\% |
| 2/20/2014 | 9.20\% | 3.68\% | 5.52\% |
| 2/26/2014 | 9.75\% | 3.69\% | 6.06\% |
| 3/17/2014 | 9.55\% | 3.72\% | 5.83\% |
| 3/26/2014 | 9.40\% | 3.73\% | 5.67\% |
| 3/26/2014 | 9.96\% | 3.73\% | 6.23\% |
| 4/2/2014 | 9.70\% | 3.73\% | 5.97\% |
| 5/16/2014 | 9.80\% | 3.70\% | 6.10\% |
| 5/30/2014 | 9.70\% | 3.68\% | 6.02\% |
| 6/6/2014 | 10.40\% | 3.67\% | 6.73\% |
| 6/30/2014 | 9.55\% | 3.64\% | 5.91\% |
| 7/2/2014 | 9.62\% | 3.64\% | 5.98\% |
| 7/10/2014 | 9.95\% | 3.63\% | 6.32\% |
| 7/23/2014 | 9.75\% | 3.61\% | 6.14\% |
| 7/29/2014 | 9.45\% | 3.60\% | 5.85\% |
| 7/31/2014 | 9.90\% | 3.60\% | 6.30\% |
| 8/20/2014 | 9.75\% | 3.57\% | 6.18\% |
| 8/25/2014 | 9.60\% | 3.56\% | 6.04\% |
| 8/29/2014 | 9.80\% | 3.54\% | 6.26\% |
| 9/11/2014 | 9.60\% | 3.51\% | 6.09\% |
| 9/15/2014 | 10.25\% | 3.51\% | 6.74\% |
| 10/9/2014 | 9.80\% | 3.45\% | 6.35\% |
| 11/6/2014 | 9.56\% | 3.37\% | 6.19\% |
| 11/6/2014 | 10.20\% | 3.37\% | 6.83\% |
| 11/14/2014 | 10.20\% | 3.35\% | 6.85\% |
| 11/26/2014 | 9.70\% | 3.33\% | 6.37\% |
| 11/26/2014 | 10.20\% | 3.33\% | 6.87\% |
| 12/4/2014 | 9.68\% | 3.31\% | 6.37\% |
| 12/10/2014 | 9.25\% | 3.29\% | 5.96\% |
| 12/10/2014 | 9.25\% | 3.29\% | 5.96\% |
| 12/11/2014 | 10.07\% | 3.29\% | 6.78\% |
| 12/12/2014 | 10.20\% | 3.28\% | 6.92\% |
| 12/17/2014 | 9.17\% | 3.27\% | 5.90\% |
| 12/18/2014 | 9.83\% | 3.26\% | 6.57\% |
| 1/23/2015 | 9.50\% | 3.14\% | 6.36\% |

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|  |  |  |  |
| ---: | :---: | :---: | :---: |
| $2 / 24 / 2015$ | $9.83 \%$ | $3.04 \%$ | $6.79 \%$ |
| $3 / 18 / 2015$ | $9.75 \%$ | $2.98 \%$ | $6.77 \%$ |
| $3 / 25 / 2015$ | $9.50 \%$ | $2.96 \%$ | $6.54 \%$ |
| $3 / 26 / 2015$ | $9.72 \%$ | $2.95 \%$ | $6.77 \%$ |
| $4 / 23 / 2015$ | $10.20 \%$ | $2.87 \%$ | $7.33 \%$ |
| $4 / 29 / 2015$ | $9.53 \%$ | $2.86 \%$ | $6.67 \%$ |
| $5 / 1 / 2015$ | $9.60 \%$ | $2.85 \%$ | $6.75 \%$ |
| $5 / 26 / 2015$ | $9.75 \%$ | $2.83 \%$ | $6.92 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.82 \%$ | $6.18 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.82 \%$ | $6.18 \%$ |
| $9 / 2 / 2015$ | $9.50 \%$ | $2.79 \%$ | $6.71 \%$ |
| $9 / 10 / 2015$ | $9.30 \%$ | $2.79 \%$ | $6.51 \%$ |
| $10 / 15 / 2015$ | $9.00 \%$ | $2.81 \%$ | $6.19 \%$ |
| $11 / 19 / 2015$ | $10.00 \%$ | $2.88 \%$ | $7.12 \%$ |
| $11 / 19 / 2015$ | $10.30 \%$ | $2.88 \%$ | $7.42 \%$ |
| $12 / 3 / 2015$ | $10.00 \%$ | $2.90 \%$ | $7.10 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 11 / 2015$ | $10.30 \%$ | $2.90 \%$ | $7.40 \%$ |
| $12 / 15 / 2015$ | $9.60 \%$ | $2.91 \%$ | $6.69 \%$ |
| $12 / 17 / 2015$ | $9.70 \%$ | $2.91 \%$ | $6.79 \%$ |
| $12 / 18 / 2015$ | $9.50 \%$ | $2.91 \%$ | $6.59 \%$ |
| $12 / 30 / 2015$ | $9.50 \%$ | $2.93 \%$ | $6.57 \%$ |
| $1 / 6 / 2016$ | $9.50 \%$ | $2.94 \%$ | $6.56 \%$ |
| $2 / 23 / 2016$ | $9.75 \%$ | $2.94 \%$ | $6.81 \%$ |
| $3 / 16 / 2016$ | $9.85 \%$ | $2.91 \%$ | $6.94 \%$ |
| $4 / 29 / 2016$ | $9.80 \%$ | $2.83 \%$ | $6.97 \%$ |
| $6 / 3 / 2016$ | $9.75 \%$ | $2.80 \%$ | $6.95 \%$ |
| $6 / 8 / 2016$ | $9.48 \%$ | $2.80 \%$ | $6.68 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.79 \%$ | $6.21 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.79 \%$ | $6.21 \%$ |
|  |  |  |  |
|  |  | $\#$ of Cases: | 1,475 |
|  |  | Average | $4.51 \%$ |
|  |  |  |  |


|  |  | Constant Growth Discounted Cash Flow Model 30 Day Average Stock Price |  |  |  |  |  |  |  | [9] | [10] | [11] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] |  |  |  |
| Company | Ticker | Annualized Dividend | Average Stock Price | Dividend Yield | Expected <br> Dividend <br> Yield | Zacks Earnings Growth | First Call Earnings Growth | Value Line Earnings Growth | Average Earnings Growth | $\begin{aligned} & \text { Low } \\ & \text { ROE } \end{aligned}$ | Mean ROE | High <br> ROE |
| ALLETE, Inc. | ALE | \$2.08 | \$59.67 | 3.49\% | 3.57\% | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 7.56\% | 8.40\% | 9.08\% |
| Alliant Energy Corporation | LNT | \$1.18 | \$38.20 | 3.08\% | 3.17\% | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 9.17\% | 9.40\% | 9.78\% |
| Ameren Corporation | AEE | \$1.70 | \$50.12 | 3.39\% | 3.49\% | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 8.68\% | 9.26\% | 9.60\% |
| American Electric Power Company, Inc. | AEP | \$2.24 | \$66.05 | 3.39\% | 3.47\% | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 7.46\% | 7.80\% | 8.37\% |
| Avista Corporation | AVA | \$1.37 | \$41.65 | 3.29\% | 3.37\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.37\% | 8.37\% | 8.37\% |
| CMS Energy Corporation | CMS | \$1.24 | \$42.95 | 2.89\% | 2.98\% | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 8.97\% | 9.53\% | 10.23\% |
| DTE Energy Company | DTE | \$3.08 | \$92.91 | 3.32\% | 3.40\% | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 8.40\% | 8.79\% | 9.21\% |
| El Paso Electric Company | EE | \$1.24 | \$45.30 | 2.74\% | 2.81\% | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.27\% | 8.21\% | 9.83\% |
| Entergy Corporation | ETR | \$3.40 | \$77.45 | 4.39\% | 4.47\% | NA | NA | 3.50\% | 3.50\% | 7.97\% | 7.97\% | 7.97\% |
| Eversource Energy | ES | \$1.78 | \$56.36 | 3.16\% | 3.25\% | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 8.73\% | 9.18\% | 9.56\% |
| FirstEnergy Corp. | FE | \$1.44 | \$33.34 | 4.32\% | 4.51\% | NA | NA | 9.00\% | 9.00\% | 13.51\% | 13.51\% | 13.51\% |
| IDACORP, Inc. | IDA | \$2.04 | \$74.50 | 2.74\% | 2.79\% | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.78\% | 6.46\% | 6.79\% |
| MGE Energy, Inc. | MGEE | \$1.18 | \$53.30 | 2.21\% | 2.27\% | NA | 4.00\% | 7.00\% | 5.50\% | 6.26\% | 7.77\% | 9.29\% |
| NorthWestern Corporation | NWE | \$2.00 | \$59.68 | 3.35\% | 3.44\% | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 8.43\% | 8.94\% | 9.96\% |
| OGE Energy Corp. | OGE | \$1.10 | \$30.95 | 3.55\% | 3.63\% | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 6.61\% | 7.80\% | 8.85\% |
| Otter Tail Corporation | OTTR | \$1.25 | \$30.96 | 4.04\% | 4.16\% | NA | 6.00\% | 6.00\% | 6.00\% | 10.16\% | 10.16\% | 10.16\% |
| Pinnacle West Capital Corporation | PNW | \$2.50 | \$75.82 | 3.30\% | 3.36\% | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 7.09\% | 7.27\% | 7.36\% |
| PNM Resources, Inc. | PNM | \$0.88 | \$33.49 | 2.63\% | 2.74\% | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 10.33\% | 11.19\% | 11.75\% |
| Portland General Electric Company | POR | \$1.28 | \$41.86 | 3.06\% | 3.15\% | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 8.64\% | 9.31\% | 9.73\% |
| SCANA Corporation | SCG | \$2.30 | \$71.01 | 3.24\% | 3.32\% | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 7.81\% | 8.39\% | 8.73\% |
| Wisconsin Energy Corporation | WEC | \$1.98 | \$61.68 | 3.21\% | 3.31\% | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 9.31\% | 9.67\% | 10.09\% |
| Xcel Energy Inc. | XEL | \$1.36 | \$42.20 | 3.22\% | 3.31\% | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 8.58\% | 8.67\% | 8.81\% |
| PROXY GROUP MEAN |  |  |  | 3.27\% | 3.36\% | 5.66\% | 5.54\% | 5.32\% | 5.55\% | 8.32\% | 8.91\% | 9.41\% |
| PROXY GROUP MEDIAN |  |  |  | 3.26\% | 3.34\% | 5.65\% | 5.31\% | 5.50\% | 5.45\% | 8.42\% | 8.73\% | 9.42\% |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals 30-trading day average as of June 30, 2016
[3] Equals [1] / [2]
[4] Equals [3] x (1 + $0.5 \times[8])$
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] $\times(1+0.5 \times$ Minimum([5], [6], [7])) + Minimum([5], [6], [7]
[10] Equals [4] $+[8]$
[11] Equals [3] x (1 + $0.5 \times \operatorname{Maximum}([5],[6],[7]))+$ Maximum([5], [6], [7])

| Constant Growth Discounted Cash Flow Model - Combination Group 90 Day Average Stock Price |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] |
| Company | Ticker | Annualized Dividend | Average Stock Price | Dividend Yield | Expected <br> Dividend Yield | Zacks Earnings Growth | First Call Earnings Growth | $\begin{gathered} \text { Value Line } \\ \text { Earnings } \\ \text { Growth } \end{gathered}$ | Average Earnings Growth | $\begin{aligned} & \text { Low } \\ & \text { ROE } \end{aligned}$ | Mean <br> ROE | High ROE |
| ALLETE, Inc. | ALE | \$2.08 | \$57.08 | 3.64\% | 3.73\% | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 7.72\% | 8.57\% | 9.24\% |
| Alliant Energy Corporation | LNT | \$1.18 | \$36.64 | 3.21\% | 3.31\% | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 9.30\% | 9.54\% | 9.91\% |
| Ameren Corporation | AEE | \$1.70 | \$48.90 | 3.48\% | 3.58\% | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 8.77\% | 9.34\% | 9.68\% |
| American Electric Power Company, Inc. | AEP | \$2.24 | \$65.03 | 3.44\% | 3.52\% | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 7.51\% | 7.85\% | 8.43\% |
| Avista Corporation | AVA | \$1.37 | \$40.48 | 3.38\% | 3.47\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.47\% | 8.47\% | 8.47\% |
| CMS Energy Corporation | CMS | \$1.24 | \$41.70 | 2.97\% | 3.07\% | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 9.06\% | 9.62\% | 10.32\% |
| DTE Energy Company | DTE | \$3.08 | \$89.93 | 3.42\% | 3.52\% | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 8.51\% | 8.90\% | 9.32\% |
| El Paso Electric Company | EE | \$1.24 | \$44.56 | 2.78\% | 2.86\% | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.32\% | 8.26\% | 9.88\% |
| Entergy Corporation | ETR | \$3.40 | \$76.55 | 4.44\% | 4.52\% | NA | NA | 3.50\% | 3.50\% | 8.02\% | 8.02\% | 8.02\% |
| Eversource Energy | ES | \$1.78 | \$56.58 | 3.15\% | 3.24\% | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 8.72\% | 9.17\% | 9.54\% |
| FirstEnergy Corp. | FE | \$1.44 | \$34.24 | 4.21\% | 4.40\% | NA | NA | 9.00\% | 9.00\% | 13.40\% | 13.40\% | 13.40\% |
| IDACORP, Inc. | IDA | \$2.04 | \$73.58 | 2.77\% | 2.82\% | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.81\% | 6.49\% | 6.83\% |
| MGE Energy, Inc. | MGEE | \$1.18 | \$51.38 | 2.30\% | 2.36\% | NA | 4.00\% | 7.00\% | 5.50\% | 6.34\% | 7.86\% | 9.38\% |
| NorthWestern Corporation | NWE | \$2.00 | \$59.59 | 3.36\% | 3.45\% | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 8.44\% | 8.95\% | 9.97\% |
| OGE Energy Corp. | OGE | \$1.10 | \$29.13 | 3.78\% | 3.86\% | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 6.83\% | 8.02\% | 9.07\% |
| Otter Tail Corporation | OTTR | \$1.25 | \$29.44 | 4.25\% | 4.37\% | NA | 6.00\% | 6.00\% | 6.00\% | 10.37\% | 10.37\% | 10.37\% |
| Pinnacle West Capital Corporation | PNW | \$2.50 | \$73.65 | 3.39\% | 3.46\% | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 7.19\% | 7.37\% | 7.46\% |
| PNM Resources, Inc. | PNM | \$0.88 | \$32.94 | 2.67\% | 2.78\% | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 10.37\% | 11.24\% | 11.79\% |
| Portland General Electric Company | POR | \$1.28 | \$40.24 | 3.18\% | 3.28\% | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 8.77\% | 9.44\% | 9.86\% |
| SCANA Corporation | SCG | \$2.30 | \$69.22 | 3.32\% | 3.41\% | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 7.90\% | 8.47\% | 8.81\% |
| Wisconsin Energy Corporation | WEC | \$1.98 | \$59.53 | 3.33\% | 3.43\% | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 9.43\% | 9.79\% | 10.21\% |
| Xcel Energy Inc. | XEL | \$1.36 | \$41.15 | 3.31\% | 3.39\% | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 8.66\% | 8.75\% | 8.90\% |
| PROXY GROUP MEAN |  |  |  | 3.35\% | 3.45\% | 5.66\% | 5.54\% | 5.32\% | 5.55\% | 8.41\% | 8.99\% | 9.49\% |
| PROXY GROUP MEDIAN |  |  |  | 3.34\% | 3.44\% | 5.65\% | 5.31\% | 5.50\% | 5.45\% | 8.49\% | 8.83\% | 9.46\% |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals 90-trading day average as of June 30, 2016
[3] Equals [1] / [2]
[4] Equals [3] x (1 + $0.5 \times[8])$
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] $\times(1+0.5 \times$ Minimum([5], [6], [7])) + Minimum([5], [6], [7]
[10] Equals [4] + [8]
[11] Equals [3] x (1 + $0.5 \times$ Maximum([5], [6], [7])) + Maximum([5], [6], [7])

|  |  | Constant Growth Discounted Cash Flow Model - Combination Group 180 Day Average Stock Price |  |  |  |  |  |  |  | [9] | [10] | [11] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] |  |  |  |
| Company | Ticker | Annualized Dividend | Average Stock Price | Dividend Yield | Expected Dividend Yield | Zacks Earnings Growth | First Call Earnings Growth | Value Line Earnings Growth | Average Earnings Growth | $\begin{aligned} & \text { Low } \\ & \text { ROE } \end{aligned}$ | Mean ROE | $\begin{aligned} & \text { High } \\ & \text { ROE } \end{aligned}$ |
| ALLETE, Inc. | ALE | \$2.08 | \$54.07 | 3.85\% | 3.94\% | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 7.92\% | 8.77\% | 9.45\% |
| Alliant Energy Corporation | LNT | \$1.18 | \$33.83 | 3.47\% | 3.58\% | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 9.58\% | 9.81\% | 10.19\% |
| Ameren Corporation | AEE | \$1.70 | \$46.40 | 3.66\% | 3.77\% | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 8.96\% | 9.54\% | 9.88\% |
| American Electric Power Company, Inc. | AEP | \$2.24 | \$61.54 | 3.64\% | 3.72\% | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 7.71\% | 8.05\% | 8.63\% |
| Avista Corporation | AVA | \$1.37 | \$37.83 | 3.62\% | 3.71\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.71\% | 8.71\% | 8.71\% |
| CMS Energy Corporation | CMS | \$1.24 | \$39.10 | 3.17\% | 3.27\% | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 9.27\% | 9.82\% | 10.53\% |
| DTE Energy Company | DTE | \$3.08 | \$85.80 | 3.59\% | 3.69\% | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 8.68\% | 9.07\% | 9.49\% |
| El Paso Electric Company | EE | \$1.24 | \$41.72 | 2.97\% | 3.05\% | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.51\% | 8.45\% | 10.08\% |
| Entergy Corporation | ETR | \$3.40 | \$72.44 | 4.69\% | 4.78\% | NA | NA | 3.50\% | 3.50\% | 8.28\% | 8.28\% | 8.28\% |
| Eversource Energy | ES | \$1.78 | \$54.15 | 3.29\% | 3.38\% | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 8.87\% | 9.31\% | 9.69\% |
| FirstEnergy Corp. | FE | \$1.44 | \$33.04 | 4.36\% | 4.55\% | NA | NA | 9.00\% | 9.00\% | 13.55\% | 13.55\% | 13.55\% |
| IDACORP, Inc. | IDA | \$2.04 | \$70.82 | 2.88\% | 2.93\% | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.92\% | 6.60\% | 6.94\% |
| MGE Energy, Inc. | MGEE | \$1.18 | \$48.29 | 2.44\% | 2.51\% | NA | 4.00\% | 7.00\% | 5.50\% | 6.49\% | 8.01\% | 9.53\% |
| NorthWestern Corporation | NWE | \$2.00 | \$57.21 | 3.50\% | 3.59\% | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 8.58\% | 9.09\% | 10.11\% |
| OGE Energy Corp. | OGE | \$1.10 | \$27.72 | 3.97\% | 4.05\% | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 7.03\% | 8.22\% | 9.27\% |
| Otter Tail Corporation | OTTR | \$1.25 | \$28.18 | 4.44\% | 4.57\% | NA | 6.00\% | 6.00\% | 6.00\% | 10.57\% | 10.57\% | 10.57\% |
| Pinnacle West Capital Corporation | PNW | \$2.50 | \$69.12 | 3.62\% | 3.69\% | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 7.41\% | 7.60\% | 7.69\% |
| PNM Resources, Inc. | PNM | \$0.88 | \$31.32 | 2.81\% | 2.93\% | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 10.52\% | 11.38\% | 11.94\% |
| Portland General Electric Company | POR | \$1.28 | \$38.74 | 3.30\% | 3.41\% | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 8.90\% | 9.56\% | 9.98\% |
| SCANA Corporation | SCG | \$2.30 | \$64.86 | 3.55\% | 3.64\% | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 8.13\% | 8.70\% | 9.04\% |
| Wisconsin Energy Corporation | WEC | \$1.98 | \$55.89 | 3.54\% | 3.66\% | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 9.65\% | 10.01\% | 10.43\% |
| Xcel Energy Inc. | XEL | \$1.36 | \$38.85 | 3.50\% | 3.59\% | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 8.86\% | 8.95\% | 9.10\% |
| PROXY GROUP MEAN |  |  |  | 3.54\% | 3.64\% | 5.66\% | 5.54\% | 5.32\% | 5.55\% | 8.60\% | 9.19\% | 9.69\% |
| PROXY GROUP MEDIAN |  |  |  | 3.54\% | 3.65\% | 5.65\% | 5.31\% | 5.50\% | 5.45\% | 8.70\% | 9.01\% | 9.61\% |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional, equals 180-trading day average as of June 30, 2016
[3] Equals [1] / [2]
[4] Equals [3] x (1 + $0.5 \times[8])$
[5] Source: Zacks
[6] Source: Yahoo! Finance
[7] Source: Value Line
[8] Equals Average([5], [6], [7])
[9] Equals [3] $\times(1+0.5 \times$ Minimum([5], [6], [7])) + Minimum([5], [6], [7]
[10] Equals [4] + [8]
[11] Equals [3] x (1 + 0.5 x Maximum([5], [6], [7])) + Maximum([5], [6], [7])

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Sponsored by Robert B. Hevert
Exhibit RBH-14, Page 1 of 37

| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] |  | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | $\begin{aligned} & \text { Stock } \\ & \text { Price } \end{aligned}$ | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
| Company | Ticker |  | Zacks | First Call | Value Line | Average | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$59.67 | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.51\% | 16.83 | 3.16 |
| Alliant Energy Corporation | LNT | \$38.20 | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.87\% | 19.84 | 3.73 |
| Ameren Corporation | AEE | \$50.12 | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.06\% | 18.87 | 3.54 |
| American Electric Power Company, Inc. | AEP | \$66.05 | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.23\% | 18.04 | 3.39 |
| Avista Corporation | AVA | \$41.65 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | $5.32 \%$ | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 8.70\% | 20.85 | 3.92 |
| CMS Energy Corporation | CMS | \$42.95 | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 8.93\% | 19.51 | 3.67 |
| DTE Energy Company | DTE | \$92.91 | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.96\% | 19.39 | 3.64 |
| El Paso Electric Company | EE | \$45.30 | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.71\% | 20.78 | 3.90 |
| Entergy Corporation | ETR | \$77.45 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | \$0.00 | 10.39\% | 13.90 | 2.61 |
| Eversource Energy | ES | \$56.36 | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.14\% | 18.44 | 3.46 |
| FirstEnergy Corp. | FE | \$33.34 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 10.83\% | 12.79 | 2.40 |
| IDACORP, Inc. | IDA | \$74.50 | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.80\% | 20.26 | 3.81 |
| MGE Energy, Inc. | MGEE | \$53.30 | NA | 4.00\% | 7.00\% | 5.50\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.17\% | 24.70 | 4.64 |
| NorthWestern Corporation | NWE | \$59.68 | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.03\% | 19.00 | 3.57 |
| OGE Energy Corp. | OGE | \$30.95 | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.24\% | 17.98 | 3.38 |
| Otter Tail Corporation | OTTR | \$30.96 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.39\% | 17.32 | 3.26 |
| Pinnacle West Capital Corporation | PNW | \$75.82 | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 8.91\% | 19.63 | 3.69 |
| PNM Resources, Inc. | PNM | \$33.49 | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.75\% | 15.89 | 2.99 |
| Portland General Electric Company | POR | \$41.86 | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.15\% | 18.40 | 3.46 |
| SCANA Corporation | SCG | \$71.01 | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.29\% | 17.75 | 3.33 |
| Wisconsin Energy Corporation | WEC | \$61.68 | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.43\% | 22.69 | 4.26 |
| Xcel Energy Inc. | XEL | \$42.20 | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.11\% | 18.62 | 3.50 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.16\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 10.83\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.54 | \$3.71 | \$3.89 | \$4.08 | \$4.28 | \$4.49 | \$4.71 | \$4.95 | \$5.21 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.48 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.29 | \$2.43 | \$2.57 | \$2.72 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.38 | \$2.52 | \$2.66 | \$2.82 | \$2.98 | \$3.15 | \$3.33 | \$3.52 | \$3.71 | \$3.91 | \$4.13 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.75 | \$3.91 | \$4.08 | \$4.25 | \$4.44 | \$4.64 | \$4.85 | \$5.09 | \$5.34 | \$5.62 | \$5.92 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.67 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.01 | \$2.15 | \$2.29 | \$2.44 | \$2.60 | \$2.76 | \$2.93 | \$3.10 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 |
| DTE Energy Company | DTE | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$6.09 | \$6.42 | \$6.77 | \$7.13 | \$7.51 | \$7.91 | \$8.33 | \$8.77 | \$9.24 | \$9.73 | \$10.25 |
| El Paso Electric Company | EE | \$2.03 | \$2.14 | \$2.26 | \$2.38 | \$2.51 | \$2.64 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.43 | \$3.61 | \$3.80 | \$4.01 | \$4.22 | \$4.44 | \$4.68 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.92 | \$3.10 | \$3.28 | \$3.48 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.84 | \$5.10 | \$5.37 | \$5.65 | \$5.96 | \$6.27 | \$6.61 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.01 | \$4.16 | \$4.31 | \$4.47 | \$4.63 | \$4.82 | \$5.02 | \$5.24 | \$5.50 | \$5.77 | \$6.08 | \$6.40 | \$6.74 | \$7.10 | \$7.48 | \$7.88 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.17 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.84 | \$2.99 | \$3.16 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.09 | \$4.31 | \$4.54 | \$4.78 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.79 | \$4.00 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.20 | \$5.47 | \$5.76 | \$6.07 | \$6.39 | \$6.73 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.83 | \$1.91 | \$1.99 | \$2.07 | \$2.16 | \$2.26 | \$2.37 | \$2.49 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.22 | \$3.39 | \$3.57 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.23 | \$4.40 | \$4.57 | \$4.75 | \$4.95 | \$5.16 | \$5.40 | \$5.66 | \$5.95 | \$6.27 | \$6.60 | \$6.95 | \$7.32 | \$7.71 | \$8.12 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.78 | \$1.93 | \$2.09 | \$2.27 | \$2.46 | \$2.66 | \$2.85 | \$3.05 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.45 | \$4.69 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.30 | \$2.44 | \$2.59 | \$2.75 | \$2.92 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| SCANA Corporation | SCG | \$3.81 | \$4.00 | \$4.21 | \$4.42 | \$4.64 | \$4.88 | \$5.13 | \$5.39 | \$5.67 | \$5.97 | \$6.28 | \$6.62 | \$6.97 | \$7.34 | \$7.73 | \$8.14 | \$8.58 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.49 | \$2.65 | \$2.82 | \$2.99 | \$3.18 | \$3.38 | \$3.58 | \$3.79 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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Sponsored by Robert B. Hevert
Exhibit RBH-14, Page 2 of 37

| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.34 | \$2.42 | \$2.51 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$125.92 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.27 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$82.00 |
| Ameren Corporation | AEE |  | \$1.71 | \$1.78 | \$1.86 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$106.24 |
| American Electric Power Company, Inc. | AEP |  | \$2.40 | \$2.53 | \$2.67 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$138.31 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.30 |
| CMS Energy Corporation | CMS |  | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$92.20 |
| DTE Energy Company | DTE |  | \$2.95 | \$3.09 | \$3.23 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$198.64 |
| El Paso Electric Company | EE |  | \$1.26 | \$1.34 | \$1.43 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$97.26 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$162.41 |
| Eversource Energy | ES |  | \$1.75 | \$1.84 | \$1.94 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$121.82 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$75.89 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.28 | \$2.44 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$159.67 |
| MGE Energy, Inc. | MGEE |  | \$1.22 | \$1.22 | \$1.21 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$118.15 |
| NorthWestern Corporation | NWE |  | \$1.99 | \$2.05 | \$2.11 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$127.93 |
| OGE Energy Corp. | OGE |  | \$1.18 | \$1.24 | \$1.31 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$64.15 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$65.02 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$159.45 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.00 | \$1.11 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$74.46 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.29 | \$1.37 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$91.28 |
| SCANA Corporation | SCG |  | \$2.36 | \$2.49 | \$2.63 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$152.23 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$130.97 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$89.86 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$59.67) | \$0.00 | \$1.18 | \$2.40 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$130.93 |
| Alliant Energy Corporation | LNT | (\$38.20) | \$0.00 | \$0.58 | \$1.18 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$84.76 |
| Ameren Corporation | AEE | (\$50.12) | \$0.00 | \$0.86 | \$1.76 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$110.01 |
| American Electric Power Company, Inc. | AEP | (\$66.05) | \$0.00 | \$1.21 | \$2.45 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$143.44 |
| Avista Corporation | AVA | (\$41.65) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.13 |
| CMS Energy Corporation | CMS | (\$42.95) | \$0.00 | \$0.64 | \$1.31 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$95.36 |
| DTE Energy Company | DTE | (\$92.91) | \$0.00 | \$1.49 | \$3.03 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$205.49 |
| El Paso Electric Company | EE | (\$45.30) | \$0.00 | \$0.64 | \$1.30 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$100.39 |
| Entergy Corporation | ETR | (\$77.45) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$170.22 |
| Eversource Energy | ES | (\$56.36) | \$0.00 | \$0.88 | \$1.81 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$126.24 |
| FirstEnergy Corp. | FE | (\$33.34) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$79.86 |
| IDACORP, Inc. | IDA | (\$74.50) | \$0.00 | \$1.07 | \$2.17 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$164.94 |
| MGE Energy, Inc. | mgee | (\$53.30) | \$0.00 | \$0.61 | \$1.25 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$121.34 |
| NorthWestern Corporation | NWE | (\$59.68) | \$0.00 | \$1.00 | \$2.04 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$132.44 |
| OGE Energy Corp. | OGE | (\$30.95) | \$0.00 | \$0.59 | \$1.20 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$66.54 |
| Otter Tail Corporation | OTTR | (\$30.96) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$67.53 |
| Pinnacle West Capital Corporation | PNW | (\$75.82) | \$0.00 | \$1.31 | \$2.66 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$164.88 |
| PNM Resources, Inc. | PNM | (\$33.49) | \$0.00 | \$0.46 | \$0.95 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$77.60 |
| Portland General Electric Company | POR | (\$41.86) | \$0.00 | \$0.61 | \$1.25 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$94.60 |
| SCANA Corporation | SCG | (\$71.01) | \$0.00 | \$1.19 | \$2.42 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$157.97 |
| Wisconsin Energy Corporation | WEC | (\$61.68) | \$0.00 | \$0.85 | \$1.75 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$134.83 |
| Xcel Energy Inc. | XEL | (\$42.20) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$93.08 |

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Sponsored by Robert B. Hevert
Exhibit RBH-14, Page 3 of 37

| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] |  |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | $\frac{[13]}{\text { Terminal }}$ |
| Company | Ticker | Price | Zacks | First Call | Value Line | Average | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$57.08 | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.70\% | 16.08 | 3.02 |
| Alliant Energy Corporation | LNT | \$36.64 | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.03\% | 19.01 | 3.57 |
| Ameren Corporation | AEE | \$48.90 | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.15\% | 18.39 | 3.46 |
| American Electric Power Company, Inc. | AEP | \$65.03 | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.29\% | 17.75 | 3.34 |
| Avista Corporation | AVA | \$40.48 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 8.80\% | 20.25 | 3.80 |
| CMS Energy Corporation | CMS | \$41.70 | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 9.04\% | 18.94 | 3.56 |
| DTE Energy Company | DTE | \$89.93 | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.08\% | 18.75 | 3.52 |
| El Paso Electric Company | EE | \$44.56 | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.77\% | 20.44 | 3.84 |
| Entergy Corporation | ETR | \$76.55 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 10.45\% | 13.73 | 2.58 |
| Eversource Energy | ES | \$56.58 | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.13\% | 18.51 | 3.48 |
| FirstEnergy Corp. | FE | \$34.24 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 10.69\% | 13.12 | 2.46 |
| IDACORP, Inc. | IDA | \$73.58 | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.84\% | 20.01 | 3.76 |
| MGE Energy, Inc. | MGEE | \$51.38 | NA | 4.00\% | 7.00\% | 5.50\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.28\% | 23.83 | 4.48 |
| NorthWestern Corporation | NWE | \$59.59 | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.04\% | 18.97 | 3.56 |
| OGE Energy Corp. | OGE | \$29.13 | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.49\% | 16.88 | 3.17 |
| Otter Tail Corporation | OTTR | \$29.44 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.61\% | 16.45 | 3.09 |
| Pinnacle West Capital Corporation | PNW | \$73.65 | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 9.02\% | 19.05 | 3.58 |
| PNM Resources, Inc. | PNM | \$32.94 | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.83\% | 15.64 | 2.94 |
| Portland General Electric Company | POR | \$40.24 | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.31\% | 17.68 | 3.32 |
| SCANA Corporation | SCG | \$69.22 | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.40\% | 17.29 | 3.25 |
| Wisconsin Energy Corporation | WEC | \$59.53 | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.54\% | 21.88 | 4.11 |
| Xcel Energy Inc. | XEL | \$41.15 | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.20\% | 18.15 | 3.41 |

$\begin{array}{cc} & 9.26 \% \\ \text { MAX } & 10.69 \% \\ \text { MIN } & 8.28 \%\end{array}$

| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.54 | \$3.71 | \$3.89 | \$4.08 | \$4.28 | \$4.49 | \$4.71 | \$4.95 | \$5.21 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.48 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.29 | \$2.43 | \$2.57 | \$2.72 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.38 | \$2.52 | \$2.66 | \$2.82 | \$2.98 | \$3.15 | \$3.33 | \$3.52 | \$3.71 | \$3.91 | \$4.13 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.75 | \$3.91 | \$4.08 | \$4.25 | \$4.44 | \$4.64 | \$4.85 | \$5.09 | \$5.34 | \$5.62 | \$5.92 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.67 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | cms | \$1.89 | \$2.01 | \$2.15 | \$2.29 | \$2.44 | \$2.60 | \$2.76 | \$2.93 | \$3.10 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 |
| DTE Energy Company | DTE | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$6.09 | \$6.42 | \$6.77 | \$7.13 | \$7.51 | \$7.91 | \$8.33 | \$8.77 | \$9.24 | \$9.73 | \$10.25 |
| El Paso Electric Company | EE | \$2.03 | \$2.14 | \$2.26 | \$2.38 | \$2.51 | \$2.64 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.43 | \$3.61 | \$3.80 | \$4.01 | \$4.22 | \$4.44 | \$4.68 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.92 | \$3.10 | \$3.28 | \$3.48 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.84 | \$5.10 | \$5.37 | \$5.65 | \$5.96 | \$6.27 | \$6.61 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.01 | \$4.16 | \$4.31 | \$4.47 | \$4.63 | \$4.82 | \$5.02 | \$5.24 | \$5.50 | \$5.77 | \$6.08 | \$6.40 | \$6.74 | \$7.10 | \$7.48 | \$7.88 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.17 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.84 | \$2.99 | \$3.16 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.09 | \$4.31 | \$4.54 | \$4.78 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.79 | \$4.00 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.20 | \$5.47 | \$5.76 | \$6.07 | \$6.39 | \$6.73 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.83 | \$1.91 | \$1.99 | \$2.07 | \$2.16 | \$2.26 | \$2.37 | \$2.49 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.22 | \$3.39 | \$3.57 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.23 | \$4.40 | \$4.57 | \$4.75 | \$4.95 | \$5.16 | \$5.40 | \$5.66 | \$5.95 | \$6.27 | \$6.60 | \$6.95 | \$7.32 | \$7.71 | \$8.12 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.78 | \$1.93 | \$2.09 | \$2.27 | \$2.46 | \$2.66 | \$2.85 | \$3.05 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.45 | \$4.69 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.30 | \$2.44 | \$2.59 | \$2.75 | \$2.92 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| SCANA Corporation | SCG | \$3.81 | \$4.00 | \$4.21 | \$4.42 | \$4.64 | \$4.88 | \$5.13 | \$5.39 | \$5.67 | \$5.97 | \$6.28 | \$6.62 | \$6.97 | \$7.34 | \$7.73 | \$8.14 | \$8.58 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.49 | \$2.65 | \$2.82 | \$2.99 | \$3.18 | \$3.38 | \$3.58 | \$3.79 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.34 | \$2.42 | \$2.51 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$120.32 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.27 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$78.59 |
| Ameren Corporation | AEE |  | \$1.71 | \$1.78 | \$1.86 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$103.59 |
| American Electric Power Company, Inc. | AEP |  | \$2.40 | \$2.53 | \$2.67 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$136.12 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$85.75 |
| CMS Energy Corporation | CMS |  | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$89.48 |
| DTE Energy Company | DTE |  | \$2.95 | \$3.09 | \$3.23 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$192.17 |
| El Paso Electric Company | EE |  | \$1.26 | \$1.34 | \$1.43 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$95.66 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$160.45 |
| Eversource Energy | ES |  | \$1.75 | \$1.84 | \$1.94 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$122.31 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$77.84 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.28 | \$2.44 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$157.69 |
| MGE Energy, Inc. | mgee |  | \$1.22 | \$1.22 | \$1.21 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$113.96 |
| NorthWestern Corporation | NWE |  | \$1.99 | \$2.05 | \$2.11 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$127.73 |
| OGE Energy Corp. | OGE |  | \$1.18 | \$1.24 | \$1.31 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$60.22 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$61.72 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$154.76 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.00 | \$1.11 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$73.27 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.29 | \$1.37 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$87.75 |
| SCANA Corporation | SCG |  | \$2.36 | \$2.49 | \$2.63 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$148.34 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$126.29 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$87.58 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$57.08) | \$0.00 | \$1.18 | \$2.40 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$125.33 |
| Alliant Energy Corporation | LNT | (\$36.64) | \$0.00 | \$0.58 | \$1.18 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$81.36 |
| Ameren Corporation | AEE | (\$48.90) | \$0.00 | \$0.86 | \$1.76 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$107.35 |
| American Electric Power Company, Inc. | AEP | (\$65.03) | \$0.00 | \$1.21 | \$2.45 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$141.25 |
| Avista Corporation | AVA | (\$40.48) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.58 |
| CMS Energy Corporation | CMS | (\$41.70) | \$0.00 | \$0.64 | \$1.31 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$92.64 |
| DTE Energy Company | DTE | (\$89.93) | \$0.00 | \$1.49 | \$3.03 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$199.02 |
| El Paso Electric Company | EE | (\$44.56) | \$0.00 | \$0.64 | \$1.30 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$98.79 |
| Entergy Corporation | ETR | (\$76.55) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$168.27 |
| Eversource Energy | ES | (\$56.58) | \$0.00 | \$0.88 | \$1.81 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$126.72 |
| FirstEnergy Corp. | FE | (\$34.24) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$81.81 |
| IDACORP, Inc. | IDA | (\$73.58) | \$0.00 | \$1.07 | \$2.17 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$162.96 |
| MGE Energy, Inc. | mgee | (\$51.38) | \$0.00 | \$0.61 | \$1.25 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$117.16 |
| NorthWestern Corporation | NWE | (\$59.59) | \$0.00 | \$1.00 | \$2.04 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$132.23 |
| OGE Energy Corp. | OGE | (\$29.13) | \$0.00 | \$0.59 | \$1.20 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$62.60 |
| Otter Tail Corporation | OTTR | (\$29.44) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$64.23 |
| Pinnacle West Capital Corporation | PNW | (\$73.65) | \$0.00 | \$1.31 | \$2.66 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$160.19 |
| PNM Resources, Inc. | PNM | (\$32.94) | \$0.00 | \$0.46 | \$0.95 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$76.40 |
| Portland General Electric Company | POR | (\$40.24) | \$0.00 | \$0.61 | \$1.25 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$91.07 |
| SCANA Corporation | SCG | (\$69.22) | \$0.00 | \$1.19 | \$2.42 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$154.07 |
| Wisconsin Energy Corporation | WEC | (\$59.53) | \$0.00 | \$0.85 | \$1.75 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$130.15 |
| Xcel Energy Inc. | XEL | (\$41.15) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$90.81 |

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| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Average EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | ${ }_{\text {[13] }}$ Terminal |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Average | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$54.07 | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.95\% | 15.21 | 2.86 |
| Alliant Energy Corporation | LNT | \$33.83 | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.34\% | 17.54 | 3.30 |
| Ameren Corporation | AEE | \$46.40 | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.36\% | 17.43 | 3.28 |
| American Electric Power Company, Inc. | AEP | \$61.54 | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.52\% | 16.76 | 3.15 |
| Avista Corporation | AVA | \$37.83 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.05\% | 18.89 | 3.55 |
| CMS Energy Corporation | CMS | \$39.10 | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 9.29\% | 17.74 | 3.33 |
| DTE Energy Company | DTE | \$85.80 | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.26\% | 17.88 | 3.36 |
| El Paso Electric Company | EE | \$41.72 | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.01\% | 19.12 | 3.59 |
| Entergy Corporation | ETR | \$72.44 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 10.75\% | 12.97 | 2.44 |
| Eversource Energy | ES | \$54.15 | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.30\% | 17.71 | 3.33 |
| FirstEnergy Corp. | FE | \$33.04 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | (\$0.00) | 10.88\% | 12.67 | 2.38 |
| IDACORP, Inc. | IDA | \$70.82 | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.98\% | 19.25 | 3.62 |
| MGE Energy, Inc. | MGEE | \$48.29 | NA | 4.00\% | 7.00\% | 5.50\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.46\% | 22.42 | 4.21 |
| NorthWestern Corporation | NWE | \$57.21 | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.19\% | 18.20 | 3.42 |
| OGE Energy Corp. | OGE | \$27.72 | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.72\% | 16.03 | 3.01 |
| Otter Tail Corporation | OTTR | \$28.18 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.80\% | 15.72 | 2.95 |
| Pinnacle West Capital Corporation | PNW | \$69.12 | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 9.27\% | 17.84 | 3.35 |
| PNM Resources, Inc. | PNM | \$31.32 | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 10.05\% | 14.88 | 2.80 |
| Portland General Electric Company | POR | \$38.74 | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.46\% | 17.03 | 3.20 |
| SCANA Corporation | SCG | \$64.86 | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.67\% | 16.19 | 3.04 |
| Wisconsin Energy Corporation | WEC | \$55.89 | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.76\% | 20.51 | 3.85 |
| Xcel Energy Inc. | XEL | \$38.85 | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.44\% | 17.12 | 3.22 |

$\begin{array}{ll}\text { MAX } & \text { 10.88\% }\end{array}$

| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.54 | \$3.71 | \$3.89 | \$4.08 | \$4.28 | \$4.49 | \$4.71 | \$4.95 | \$5.21 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.48 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.29 | \$2.43 | \$2.57 | \$2.72 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.38 | \$2.52 | \$2.66 | \$2.82 | \$2.98 | \$3.15 | \$3.33 | \$3.52 | \$3.71 | \$3.91 | \$4.13 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.75 | \$3.91 | \$4.08 | \$4.25 | \$4.44 | \$4.64 | \$4.85 | \$5.09 | \$5.34 | \$5.62 | \$5.92 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.67 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.01 | \$2.15 | \$2.29 | \$2.44 | \$2.60 | \$2.76 | \$2.93 | \$3.10 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 |
| DTE Energy Company | DTE | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$6.09 | \$6.42 | \$6.77 | \$7.13 | \$7.51 | \$7.91 | \$8.33 | \$8.77 | \$9.24 | \$9.73 | \$10.25 |
| El Paso Electric Company | EE | \$2.03 | \$2.14 | \$2.26 | \$2.38 | \$2.51 | \$2.64 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.43 | \$3.61 | \$3.80 | \$4.01 | \$4.22 | \$4.44 | \$4.68 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.92 | \$3.10 | \$3.28 | \$3.48 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.84 | \$5.10 | \$5.37 | \$5.65 | \$5.96 | \$6.27 | \$6.61 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.01 | \$4.16 | \$4.31 | \$4.47 | \$4.63 | \$4.82 | \$5.02 | \$5.24 | \$5.50 | \$5.77 | \$6.08 | \$6.40 | \$6.74 | \$7.10 | \$7.48 | \$7.88 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.17 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.84 | \$2.99 | \$3.16 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.09 | \$4.31 | \$4.54 | \$4.78 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.79 | \$4.00 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.20 | \$5.47 | \$5.76 | \$6.07 | \$6.39 | \$6.73 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.83 | \$1.91 | \$1.99 | \$2.07 | \$2.16 | \$2.26 | \$2.37 | \$2.49 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.22 | \$3.39 | \$3.57 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.23 | \$4.40 | \$4.57 | \$4.75 | \$4.95 | \$5.16 | \$5.40 | \$5.66 | \$5.95 | \$6.27 | \$6.60 | \$6.95 | \$7.32 | \$7.71 | \$8.12 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.78 | \$1.93 | \$2.09 | \$2.27 | \$2.46 | \$2.66 | \$2.85 | \$3.05 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.45 | \$4.69 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.30 | \$2.44 | \$2.59 | \$2.75 | \$2.92 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| SCANA Corporation | SCG | \$3.81 | \$4.00 | \$4.21 | \$4.42 | \$4.64 | \$4.88 | \$5.13 | \$5.39 | \$5.67 | \$5.97 | \$6.28 | \$6.62 | \$6.97 | \$7.34 | \$7.73 | \$8.14 | \$8.58 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.49 | \$2.65 | \$2.82 | \$2.99 | \$3.18 | \$3.38 | \$3.58 | \$3.79 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 |

Projected Annual
Dividend Payout Raic

| Dividend Payout Ratic |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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Sponsored by Robert B. Hevert
Exhibit RBH-14, Page 6 of 37

| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.34 | \$2.42 | \$2.51 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$113.80 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.27 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$72.50 |
| Ameren Corporation | AEE |  | \$1.71 | \$1.78 | \$1.86 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$98.17 |
| American Electric Power Company, Inc. | AEP |  | \$2.40 | \$2.53 | \$2.67 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$128.55 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$80.01 |
| CMS Energy Corporation | CMS |  | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$83.85 |
| DTE Energy Company | DTE |  | \$2.95 | \$3.09 | \$3.23 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$183.20 |
| El Paso Electric Company | EE |  | \$1.26 | \$1.34 | \$1.43 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$89.50 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$151.57 |
| Eversource Energy | ES |  | \$1.75 | \$1.84 | \$1.94 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$117.02 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$75.22 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.28 | \$2.44 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$151.68 |
| MGE Energy, Inc. | MGEE |  | \$1.22 | \$1.22 | \$1.21 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$107.22 |
| NorthWestern Corporation | NWE |  | \$1.99 | \$2.05 | \$2.11 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$122.57 |
| OGE Energy Corp. | OGE |  | \$1.18 | \$1.24 | \$1.31 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$57.18 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$58.99 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$144.92 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.00 | \$1.11 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$69.74 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.29 | \$1.37 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$84.48 |
| SCANA Corporation | SCG |  | \$2.36 | \$2.49 | \$2.63 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$138.87 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$118.39 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$82.60 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$54.07) | \$0.00 | \$1.18 | \$2.40 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$118.81 |
| Alliant Energy Corporation | LNT | (\$33.83) | \$0.00 | \$0.58 | \$1.18 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$75.27 |
| Ameren Corporation | AEE | (\$46.40) | \$0.00 | \$0.86 | \$1.76 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$101.93 |
| American Electric Power Company, Inc. | AEP | (\$61.54) | \$0.00 | \$1.21 | \$2.45 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$133.68 |
| Avista Corporation | AVA | (\$37.83) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$82.84 |
| CMS Energy Corporation | CMS | (\$39.10) | \$0.00 | \$0.64 | \$1.31 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$87.01 |
| DTE Energy Company | DTE | (\$85.80) | \$0.00 | \$1.49 | \$3.03 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$190.06 |
| El Paso Electric Company | EE | (\$41.72) | \$0.00 | \$0.64 | \$1.30 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$92.63 |
| Entergy Corporation | ETR | (\$72.44) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$159.39 |
| Eversource Energy | ES | (\$54.15) | \$0.00 | \$0.88 | \$1.81 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$121.44 |
| FirstEnergy Corp. | FE | (\$33.04) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$79.19 |
| IDACORP, Inc. | IDA | (\$70.82) | \$0.00 | \$1.07 | \$2.17 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$156.95 |
| MGE Energy, Inc. | mgee | (\$48.29) | \$0.00 | \$0.61 | \$1.25 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$110.42 |
| NorthWestern Corporation | NWE | (\$57.21) | \$0.00 | \$1.00 | \$2.04 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$127.07 |
| OGE Energy Corp. | OGE | (\$27.72) | \$0.00 | \$0.59 | \$1.20 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$59.56 |
| Otter Tail Corporation | OTTR | (\$28.18) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$61.50 |
| Pinnacle West Capital Corporation | PNW | (\$69.12) | \$0.00 | \$1.31 | \$2.66 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$150.35 |
| PNM Resources, Inc. | PNM | (\$31.32) | \$0.00 | \$0.46 | \$0.95 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$72.88 |
| Portland General Electric Company | POR | (\$38.74) | \$0.00 | \$0.61 | \$1.25 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$87.80 |
| SCANA Corporation | SCG | (\$64.86) | \$0.00 | \$1.19 | \$2.42 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$144.61 |
| Wisconsin Energy Corporation | WEC | (\$55.89) | \$0.00 | \$0.85 | \$1.75 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$122.25 |
| Xcel Energy Inc. | XEL | (\$38.85) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$85.83 |

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Sponsored by Robert B. Hevert
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| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | $\frac{[6]}{\text { Long-Term }}$ | [7] | [8] <br> Payout Ratio | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | Low |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$59.67 | 5.50\% | 5.00\% | 4.00\% | 4.00\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.28\% | 17.80 | 3.34 |
| Alliant Energy Corporation | LNT | \$38.20 | 6.10\% | 6.60\% | 6.00\% | 6.00\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.82\% | 20.15 | 3.79 |
| Ameren Corporation | AEE | \$50.12 | 6.10\% | 5.20\% | 6.00\% | 5.20\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 8.92\% | 19.60 | 3.68 |
| American Electric Power Company, Inc. | AEP | \$66.05 | 4.90\% | 4.10\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.14\% | 18.45 | 3.47 |
| Avista Corporation | AVA | \$41.65 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 8.70\% | 20.85 | 3.92 |
| CMS Energy Corporation | CMS | \$42.95 | 6.40\% | 7.24\% | 6.00\% | 6.00\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 8.80\% | 20.23 | 3.80 |
| DTE Energy Company | DTE | \$92.91 | 5.80\% | 5.35\% | 5.00\% | 5.00\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.86\% | 19.89 | 3.74 |
| El Paso Electric Company | EE | \$45.30 | 6.70\% | 7.00\% | 2.50\% | 2.50\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.10\% | 25.35 | 4.76 |
| Entergy Corporation | ETR | \$77.45 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | \$0.00 | 10.39\% | 13.90 | 2.61 |
| Eversource Energy | ES | \$56.36 | 6.30\% | 5.49\% | 6.00\% | 5.49\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.03\% | 18.98 | 3.57 |
| FirstEnergy Corp. | FE | \$33.34 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 10.83\% | 12.79 | 2.40 |
| IDACORP, Inc. | IDA | \$74.50 | 4.00\% | 4.00\% | 3.00\% | 3.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.64\% | 21.21 | 3.99 |
| MGE Energy, Inc. | MGEE | \$53.30 | NA | 4.00\% | 7.00\% | 4.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 7.90\% | 27.32 | 5.13 |
| NorthWestern Corporation | NWE | \$59.68 | 5.00\% | 5.00\% | 6.50\% | 5.00\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 8.91\% | 19.65 | 3.69 |
| OGE Energy Corp. | OGE | \$30.95 | 5.20\% | 4.30\% | 3.00\% | 3.00\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 8.94\% | 19.49 | 3.66 |
| Otter Tail Corporation | OTTR | \$30.96 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.39\% | 17.32 | 3.26 |
| Pinnacle West Capital Corporation | PNW | \$75.82 | 4.00\% | 3.73\% | 4.00\% | 3.73\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 8.87\% | 19.87 | 3.73 |
| PNM Resources, Inc. | PNM | \$33.49 | 7.60\% | 8.76\% | 9.00\% | 7.60\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.52\% | 16.78 | 3.15 |
| Portland General Electric Company | POR | \$41.86 | 6.40\% | 6.57\% | 5.50\% | 5.50\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 8.99\% | 19.21 | 3.61 |
| SCANA Corporation | SCG | \$71.01 | 5.30\% | 5.40\% | 4.50\% | 4.50\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.14\% | 18.43 | 3.46 |
| Wisconsin Energy Corporation | WEC | \$61.68 | 6.30\% | 6.77\% | 6.00\% | 6.00\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.35\% | 23.24 | 4.37 |
| Xcel Energy Inc. | XEL | \$42.20 | 5.30\% | 5.27\% | 5.50\% | 5.27\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.08\% | 18.73 | 3.52 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.03\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 10.83\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 7.90\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.52 | \$3.66 | \$3.80 | \$3.95 | \$4.11 | \$4.29 | \$4.48 | \$4.68 | \$4.91 | \$5.16 | \$5.44 | \$5.73 | \$6.03 | \$6.35 | \$6.69 | \$7.05 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.82 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$4.07 |
| Ameren Corporation | AEE | \$2.38 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 | \$5.14 | \$5.41 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.73 | \$3.88 | \$4.04 | \$4.20 | \$4.37 | \$4.55 | \$4.75 | \$4.98 | \$5.22 | \$5.49 | \$5.78 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.49 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.00 | \$2.12 | \$2.25 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.99 | \$3.16 | \$3.33 | \$3.51 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 |
| DTE Energy Company | DTE | \$4.45 | \$4.67 | \$4.91 | \$5.15 | \$5.41 | \$5.68 | \$5.97 | \$6.27 | \$6.59 | \$6.94 | \$7.30 | \$7.69 | \$8.10 | \$8.53 | \$8.99 | \$9.47 | \$9.97 |
| EI Paso Electric Company | EE | \$2.03 | \$2.08 | \$2.13 | \$2.19 | \$2.24 | \$2.30 | \$2.36 | \$2.45 | \$2.54 | \$2.65 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.42 | \$3.61 | \$3.80 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.91 | \$3.07 | \$3.24 | \$3.42 | \$3.61 | \$3.80 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 | \$6.08 | \$6.40 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$3.99 | \$4.11 | \$4.23 | \$4.36 | \$4.49 | \$4.64 | \$4.81 | \$5.01 | \$5.24 | \$5.50 | \$5.79 | \$6.10 | \$6.43 | \$6.77 | \$7.13 | \$7.51 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.14 | \$2.23 | \$2.32 | \$2.41 | \$2.51 | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.87 | \$4.08 | \$4.30 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.05 | \$3.20 | \$3.36 | \$3.52 | \$3.70 | \$3.89 | \$4.09 | \$4.30 | \$4.52 | \$4.76 | \$5.01 | \$5.28 | \$5.56 | \$5.86 | \$6.17 | \$6.50 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.74 | \$1.79 | \$1.85 | \$1.90 | \$1.96 | \$2.03 | \$2.10 | \$2.19 | \$2.29 | \$2.40 | \$2.53 | \$2.66 | \$2.81 | \$2.96 | \$3.11 | \$3.28 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.22 | \$4.38 | \$4.54 | \$4.71 | \$4.90 | \$5.10 | \$5.34 | \$5.59 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 | \$7.61 | \$8.02 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.76 | \$1.90 | \$2.04 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.88 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.19 | \$4.42 |
| Portland General Electric Company | POR | \$2.04 | \$2.15 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.97 | \$3.13 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.05 | \$4.27 | \$4.50 | \$4.74 |
| SCANA Corporation | SCG | \$3.81 | \$3.98 | \$4.16 | \$4.35 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.46 | \$5.74 | \$6.03 | \$6.36 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$8.24 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.95 | \$3.13 | \$3.32 | \$3.51 | \$3.71 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.82 | \$5.07 | \$5.34 | \$5.63 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$3.34 | \$3.51 | \$3.70 | \$3.90 | \$4.11 | \$4.32 | \$4.55 | \$4.80 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.32 | \$2.39 | \$2.45 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$125.46 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.20 | \$1.26 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$81.92 |
| Ameren Corporation | AEE |  | \$1.70 | \$1.76 | \$1.83 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$106.00 |
| American Electric Power Company, Inc. | AEP |  | \$2.39 | \$2.51 | \$2.65 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$138.14 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.30 |
| CMS Energy Corporation | CMS |  | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$91.99 |
| DTE Energy Company | DTE |  | \$2.94 | \$3.07 | \$3.19 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$198.32 |
| El Paso Electric Company | EE |  | \$1.23 | \$1.27 | \$1.31 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$96.28 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$162.41 |
| Eversource Energy | ES |  | \$1.75 | \$1.83 | \$1.91 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$121.57 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$75.89 |
| IDACORP, Inc. | IDA |  | \$2.11 | \$2.25 | \$2.39 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$159.25 |
| MGE Energy, Inc. | MGEE |  | \$1.20 | \$1.18 | \$1.16 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$117.36 |
| NorthWestern Corporation | NWE |  | \$1.98 | \$2.03 | \$2.08 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$127.65 |
| OGE Energy Corp. | OGE |  | \$1.17 | \$1.21 | \$1.26 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$63.91 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$65.02 |
| Pinnacle West Capital Corporation | PNW |  | \$2.60 | \$2.71 | \$2.82 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$159.34 |
| PNM Resources, Inc. | PNM |  | \$0.90 | \$0.99 | \$1.08 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$74.08 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.27 | \$1.34 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$90.98 |
| SCANA Corporation | SCG |  | \$2.35 | \$2.47 | \$2.59 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$151.84 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.78 | \$1.88 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$130.82 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$89.82 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$59.67) | \$0.00 | \$1.17 | \$2.37 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$130.17 |
| Alliant Energy Corporation | LNT | (\$38.20) | \$0.00 | \$0.58 | \$1.18 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$84.63 |
| Ameren Corporation | AEE | (\$50.12) | \$0.00 | \$0.86 | \$1.75 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$109.62 |
| American Electric Power Company, Inc. | AEP | (\$66.05) | \$0.00 | \$1.20 | \$2.44 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$143.14 |
| Avista Corporation | AVA | (\$41.65) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.13 |
| CMS Energy Corporation | CMS | (\$42.95) | \$0.00 | \$0.64 | \$1.30 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$95.03 |
| DTE Energy Company | DTE | (\$92.91) | \$0.00 | \$1.48 | \$3.02 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$204.99 |
| El Paso Electric Company | EE | (\$45.30) | \$0.00 | \$0.62 | \$1.24 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$98.82 |
| Entergy Corporation | ETR | (\$77.45) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$170.22 |
| Eversource Energy | ES | (\$56.36) | \$0.00 | \$0.88 | \$1.79 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$125.85 |
| FirstEnergy Corp. | FE | (\$33.34) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$79.86 |
| IDACORP, Inc. | IDA | (\$74.50) | \$0.00 | \$1.06 | \$2.14 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$164.27 |
| MGE Energy, Inc. | MGEE | (\$53.30) | \$0.00 | \$0.60 | \$1.22 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$120.23 |
| NorthWestern Corporation | NWE | (\$59.68) | \$0.00 | \$1.00 | \$2.03 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$132.00 |
| OGE Energy Corp. | OGE | (\$30.95) | \$0.00 | \$0.59 | \$1.18 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$66.10 |
| Otter Tail Corporation | OTTR | (\$30.96) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$67.53 |
| Pinnacle West Capital Corporation | PNW | (\$75.82) | \$0.00 | \$1.31 | \$2.65 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$164.71 |
| PNM Resources, Inc. | PNM | (\$33.49) | \$0.00 | \$0.45 | \$0.93 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$77.03 |
| Portland General Electric Company | POR | (\$41.86) | \$0.00 | \$0.61 | \$1.24 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$94.15 |
| SCANA Corporation | SCG | (\$71.01) | \$0.00 | \$1.18 | \$2.40 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$157.34 |
| Wisconsin Energy Corporation | WEC | (\$61.68) | \$0.00 | \$0.85 | \$1.74 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$134.59 |
| Xcel Energy Inc. | XEL | (\$42.20) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$93.03 |

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| Inputs | [1] |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | Low |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$57.08 | 5.50\% | 5.00\% | 4.00\% | 4.00\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.46\% | 17.00 | 3.19 |
| Alliant Energy Corporation | LNT | \$36.64 | 6.10\% | 6.60\% | 6.00\% | 6.00\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.97\% | 19.31 | 3.63 |
| Ameren Corporation | AEE | \$48.90 | 6.10\% | 5.20\% | 6.00\% | 5.20\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.01\% | 19.11 | 3.59 |
| American Electric Power Company, Inc. | AEP | \$65.03 | 4.90\% | 4.10\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.20\% | 18.16 | 3.41 |
| Avista Corporation | AVA | \$40.48 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 8.80\% | 20.25 | 3.80 |
| CMS Energy Corporation | CMS | \$41.70 | 6.40\% | 7.24\% | 6.00\% | 6.00\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 8.91\% | 19.63 | 3.69 |
| DTE Energy Company | DTE | \$89.93 | 5.80\% | 5.35\% | 5.00\% | 5.00\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.98\% | 19.24 | 3.62 |
| El Paso Electric Company | EE | \$44.56 | 6.70\% | 7.00\% | 2.50\% | 2.50\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.15\% | 24.93 | 4.68 |
| Entergy Corporation | ETR | \$76.55 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 10.45\% | 13.73 | 2.58 |
| Eversource Energy | ES | \$56.58 | 6.30\% | 5.49\% | 6.00\% | 5.49\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.02\% | 19.06 | 3.58 |
| FirstEnergy Corp. | FE | \$34.24 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 10.69\% | 13.12 | 2.46 |
| IDACORP, Inc. | IDA | \$73.58 | 4.00\% | 4.00\% | 3.00\% | 3.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.69\% | 20.95 | 3.94 |
| MGE Energy, Inc. | MGEE | \$51.38 | NA | 4.00\% | 7.00\% | 4.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.00\% | 26.35 | 4.95 |
| NorthWestern Corporation | NWE | \$59.59 | 5.00\% | 5.00\% | 6.50\% | 5.00\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 8.91\% | 19.61 | 3.69 |
| OGE Energy Corp. | OGE | \$29.13 | 5.20\% | 4.30\% | 3.00\% | 3.00\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.17\% | 18.29 | 3.44 |
| Otter Tail Corporation | OTTR | \$29.44 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.61\% | 16.45 | 3.09 |
| Pinnacle West Capital Corporation | PNW | \$73.65 | 4.00\% | 3.73\% | 4.00\% | 3.73\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 8.97\% | 19.29 | 3.62 |
| PNM Resources, Inc. | PNM | \$32.94 | 7.60\% | 8.76\% | 9.00\% | 7.60\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.59\% | 16.51 | 3.10 |
| Portland General Electric Company | POR | \$40.24 | 6.40\% | 6.57\% | 5.50\% | 5.50\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.14\% | 18.47 | 3.47 |
| SCANA Corporation | SCG | \$69.22 | 5.30\% | 5.40\% | 4.50\% | 4.50\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.24\% | 17.96 | 3.37 |
| Wisconsin Energy Corporation | WEC | \$59.53 | 6.30\% | 6.77\% | 6.00\% | 6.00\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.47\% | 22.41 | 4.21 |
| Xcel Energy Inc. | XEL | \$41.15 | 5.30\% | 5.27\% | 5.50\% | 5.27\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.18\% | 18.25 | 3.43 |

$\begin{array}{ll}\text { MAX } & 10.69 \% \\ \text { MIN } & 8.00 \%\end{array}$


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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.32 | \$2.39 | \$2.45 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$119.86 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.20 | \$1.26 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$78.51 |
| Ameren Corporation | AEE |  | \$1.70 | \$1.76 | \$1.83 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$103.35 |
| American Electric Power Company, Inc. | AEP |  | \$2.39 | \$2.51 | \$2.65 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$135.94 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$85.75 |
| CMS Energy Corporation | CMS |  | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$89.27 |
| DTE Energy Company | DTE |  | \$2.94 | \$3.07 | \$3.19 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$191.85 |
| El Paso Electric Company | EE |  | \$1.23 | \$1.27 | \$1.31 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$94.68 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$160.45 |
| Eversource Energy | ES |  | \$1.75 | \$1.83 | \$1.91 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$122.05 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$77.84 |
| IDACORP, Inc. | IDA |  | \$2.11 | \$2.25 | \$2.39 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$157.26 |
| MGE Energy, Inc. | MGEE |  | \$1.20 | \$1.18 | \$1.16 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$113.18 |
| NorthWestern Corporation | NWE |  | \$1.98 | \$2.03 | \$2.08 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$127.44 |
| OGE Energy Corp. | OGE |  | \$1.17 | \$1.21 | \$1.26 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$59.97 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$61.72 |
| Pinnacle West Capital Corporation | PNW |  | \$2.60 | \$2.71 | \$2.82 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$154.65 |
| PNM Resources, Inc. | PNM |  | \$0.90 | \$0.99 | \$1.08 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$72.88 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.27 | \$1.34 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$87.46 |
| SCANA Corporation | SCG |  | \$2.35 | \$2.47 | \$2.59 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$147.94 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.78 | \$1.88 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$126.14 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$87.55 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$57.08) | \$0.00 | \$1.17 | \$2.37 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$124.58 |
| Alliant Energy Corporation | LNT | (\$36.64) | \$0.00 | \$0.58 | \$1.18 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$81.23 |
| Ameren Corporation | AEE | (\$48.90) | \$0.00 | \$0.86 | \$1.75 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$106.96 |
| American Electric Power Company, Inc. | AEP | (\$65.03) | \$0.00 | \$1.20 | \$2.44 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$140.95 |
| Avista Corporation | AVA | (\$40.48) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.58 |
| CMS Energy Corporation | CMS | (\$41.70) | \$0.00 | \$0.64 | \$1.30 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$92.31 |
| DTE Energy Company | DTE | (\$89.93) | \$0.00 | \$1.48 | \$3.02 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$198.52 |
| El Paso Electric Company | EE | (\$44.56) | \$0.00 | \$0.62 | \$1.24 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$97.22 |
| Entergy Corporation | ETR | (\$76.55) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$168.27 |
| Eversource Energy | ES | (\$56.58) | \$0.00 | \$0.88 | \$1.79 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$126.33 |
| FirstEnergy Corp. | FE | (\$34.24) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$81.81 |
| IDACORP, Inc. | IDA | (\$73.58) | \$0.00 | \$1.06 | \$2.14 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$162.29 |
| MGE Energy, Inc. | MGEE | (\$51.38) | \$0.00 | \$0.60 | \$1.22 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$116.06 |
| NorthWestern Corporation | NWE | (\$59.59) | \$0.00 | \$1.00 | \$2.03 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$131.79 |
| OGE Energy Corp. | OGE | (\$29.13) | \$0.00 | \$0.59 | \$1.18 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$62.16 |
| Otter Tail Corporation | OTTR | (\$29.44) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$64.23 |
| Pinnacle West Capital Corporation | PNW | (\$73.65) | \$0.00 | \$1.31 | \$2.65 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$160.01 |
| PNM Resources, Inc. | PNM | (\$32.94) | \$0.00 | \$0.45 | \$0.93 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$75.84 |
| Portland General Electric Company | POR | (\$40.24) | \$0.00 | \$0.61 | \$1.24 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$90.63 |
| SCANA Corporation | SCG | (\$69.22) | \$0.00 | \$1.18 | \$2.40 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$153.45 |
| Wisconsin Energy Corporation | WEC | (\$59.53) | \$0.00 | \$0.85 | \$1.74 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$129.91 |
| Xcel Energy Inc. | XEL | (\$41.15) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$90.76 |

Docket No. 160021-EI


#### Abstract

Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage


| Inputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | Low |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$54.07 | 5.50\% | 5.00\% | 4.00\% | 4.00\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.70\% | 16.08 | 3.02 |
| Alliant Energy Corporation | LNT | \$33.83 | 6.10\% | 6.60\% | 6.00\% | 6.00\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.28\% | 17.81 | 3.35 |
| Ameren Corporation | AEE | \$46.40 | 6.10\% | $5.20 \%$ | 6.00\% | 5.20\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.21\% | 18.10 | 3.40 |
| American Electric Power Company, Inc. | AEP | \$61.54 | 4.90\% | 4.10\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.43\% | 17.15 | 3.22 |
| Avista Corporation | AVA | \$37.83 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.05\% | 18.89 | 3.55 |
| CMS Energy Corporation | CMS | \$39.10 | 6.40\% | 7.24\% | 6.00\% | 6.00\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 9.15\% | 18.40 | 3.46 |
| DTE Energy Company | DTE | \$85.80 | 5.80\% | 5.35\% | 5.00\% | 5.00\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.16\% | 18.34 | 3.45 |
| El Paso Electric Company | EE | \$41.72 | 6.70\% | 7.00\% | 2.50\% | 2.50\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.34\% | 23.31 | 4.38 |
| Entergy Corporation | ETR | \$72.44 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 10.75\% | 12.97 | 2.44 |
| Eversource Energy | ES | \$54.15 | 6.30\% | 5.49\% | 6.00\% | 5.49\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.19\% | 18.24 | 3.43 |
| FirstEnergy Corp. | FE | \$33.04 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | (\$0.00) | 10.88\% | 12.67 | 2.38 |
| IDACORP, Inc. | IDA | \$70.82 | 4.00\% | 4.00\% | 3.00\% | 3.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.82\% | 20.15 | 3.79 |
| MGE Energy, Inc. | MGEE | \$48.29 | NA | 4.00\% | 7.00\% | 4.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.17\% | 24.78 | 4.66 |
| NorthWestern Corporation | NWE | \$57.21 | 5.00\% | 5.00\% | 6.50\% | 5.00\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.07\% | 18.82 | 3.54 |
| OGE Energy Corp. | OGE | \$27.72 | 5.20\% | 4.30\% | 3.00\% | 3.00\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.38\% | 17.36 | 3.26 |
| Otter Tail Corporation | OTTR | \$28.18 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.80\% | 15.72 | 2.95 |
| Pinnacle West Capital Corporation | PNW | \$69.12 | 4.00\% | 3.73\% | 4.00\% | 3.73\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 9.22\% | 18.06 | 3.39 |
| PNM Resources, Inc. | PNM | \$31.32 | 7.60\% | 8.76\% | 9.00\% | 7.60\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.81\% | 15.71 | 2.95 |
| Portland General Electric Company | POR | \$38.74 | 6.40\% | 6.57\% | 5.50\% | 5.50\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.29\% | 17.77 | 3.34 |
| SCANA Corporation | SCG | \$64.86 | 5.30\% | 5.40\% | 4.50\% | 4.50\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.51\% | 16.81 | 3.16 |
| Wisconsin Energy Corporation | WEC | \$55.89 | 6.30\% | 6.77\% | 6.00\% | 6.00\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.68\% | 21.01 | 3.95 |
| Xcel Energy Inc. | XEL | \$38.85 | 5.30\% | 5.27\% | 5.50\% | 5.27\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.41\% | 17.21 | 3.23 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.33\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 10.88\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 8.17\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.52 | \$3.66 | \$3.80 | \$3.95 | \$4.11 | \$4.29 | \$4.48 | \$4.68 | \$4.91 | \$5.16 | \$5.44 | \$5.73 | \$6.03 | \$6.35 | \$6.69 | \$7.05 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.82 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$4.07 |
| Ameren Corporation | AEE | \$2.38 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 | \$5.14 | \$5.41 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.73 | \$3.88 | \$4.04 | \$4.20 | \$4.37 | \$4.55 | \$4.75 | \$4.98 | \$5.22 | \$5.49 | \$5.78 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.49 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.00 | \$2.12 | \$2.25 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.99 | \$3.16 | \$3.33 | \$3.51 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 |
| DTE Energy Company | DTE | \$4.45 | \$4.67 | \$4.91 | \$5.15 | \$5.41 | \$5.68 | \$5.97 | \$6.27 | \$6.59 | \$6.94 | \$7.30 | \$7.69 | \$8.10 | \$8.53 | \$8.99 | \$9.47 | \$9.97 |
| EI Paso Electric Company | EE | \$2.03 | \$2.08 | \$2.13 | \$2.19 | \$2.24 | \$2.30 | \$2.36 | \$2.45 | \$2.54 | \$2.65 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.42 | \$3.61 | \$3.80 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.91 | \$3.07 | \$3.24 | \$3.42 | \$3.61 | \$3.80 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 | \$6.08 | \$6.40 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$3.99 | \$4.11 | \$4.23 | \$4.36 | \$4.49 | \$4.64 | \$4.81 | \$5.01 | \$5.24 | \$5.50 | \$5.79 | \$6.10 | \$6.43 | \$6.77 | \$7.13 | \$7.51 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.14 | \$2.23 | \$2.32 | \$2.41 | \$2.51 | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.87 | \$4.08 | \$4.30 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.05 | \$3.20 | \$3.36 | \$3.52 | \$3.70 | \$3.89 | \$4.09 | \$4.30 | \$4.52 | \$4.76 | \$5.01 | \$5.28 | \$5.56 | \$5.86 | \$6.17 | \$6.50 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.74 | \$1.79 | \$1.85 | \$1.90 | \$1.96 | \$2.03 | \$2.10 | \$2.19 | \$2.29 | \$2.40 | \$2.53 | \$2.66 | \$2.81 | \$2.96 | \$3.11 | \$3.28 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.22 | \$4.38 | \$4.54 | \$4.71 | \$4.90 | \$5.10 | \$5.34 | \$5.59 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 | \$7.61 | \$8.02 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.76 | \$1.90 | \$2.04 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.88 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.19 | \$4.42 |
| Portland General Electric Company | POR | \$2.04 | \$2.15 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.97 | \$3.13 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.05 | \$4.27 | \$4.50 | \$4.74 |
| SCANA Corporation | SCG | \$3.81 | \$3.98 | \$4.16 | \$4.35 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.46 | \$5.74 | \$6.03 | \$6.36 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$8.24 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.95 | \$3.13 | \$3.32 | \$3.51 | \$3.71 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.82 | \$5.07 | \$5.34 | \$5.63 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$3.34 | \$3.51 | \$3.70 | \$3.90 | \$4.11 | \$4.32 | \$4.55 | \$4.80 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.32 | \$2.39 | \$2.45 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$113.34 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.20 | \$1.26 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$72.42 |
| Ameren Corporation | AEE |  | \$1.70 | \$1.76 | \$1.83 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$97.93 |
| American Electric Power Company, Inc. | AEP |  | \$2.39 | \$2.51 | \$2.65 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$128.37 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$80.01 |
| CMS Energy Corporation | CMS |  | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$83.65 |
| DTE Energy Company | DTE |  | \$2.94 | \$3.07 | \$3.19 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$182.89 |
| El Paso Electric Company | EE |  | \$1.23 | \$1.27 | \$1.31 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$88.51 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$151.57 |
| Eversource Energy | ES |  | \$1.75 | \$1.83 | \$1.91 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$116.77 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$75.22 |
| IDACORP, Inc. | IDA |  | \$2.11 | \$2.25 | \$2.39 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$151.26 |
| MGE Energy, Inc. | MGEE |  | \$1.20 | \$1.18 | \$1.16 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$106.44 |
| NorthWestern Corporation | NWE |  | \$1.98 | \$2.03 | \$2.08 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$122.29 |
| OGE Energy Corp. | OGE |  | \$1.17 | \$1.21 | \$1.26 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$56.93 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$58.99 |
| Pinnacle West Capital Corporation | PNW |  | \$2.60 | \$2.71 | \$2.82 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$144.82 |
| PNM Resources, Inc. | PNM |  | \$0.90 | \$0.99 | \$1.08 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$69.36 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.27 | \$1.34 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$84.19 |
| SCANA Corporation | SCG |  | \$2.35 | \$2.47 | \$2.59 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$138.47 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.78 | \$1.88 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$118.24 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$82.57 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$54.07) | \$0.00 | \$1.17 | \$2.37 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$118.05 |
| Alliant Energy Corporation | LNT | (\$33.83) | \$0.00 | \$0.58 | \$1.18 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$75.14 |
| Ameren Corporation | AEE | (\$46.40) | \$0.00 | \$0.86 | \$1.75 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$101.55 |
| American Electric Power Company, Inc. | AEP | (\$61.54) | \$0.00 | \$1.20 | \$2.44 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$133.38 |
| Avista Corporation | AVA | (\$37.83) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$82.84 |
| CMS Energy Corporation | CMS | (\$39.10) | \$0.00 | \$0.64 | \$1.30 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$86.69 |
| DTE Energy Company | DTE | (\$85.80) | \$0.00 | \$1.48 | \$3.02 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$189.55 |
| El Paso Electric Company | EE | (\$41.72) | \$0.00 | \$0.62 | \$1.24 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$91.05 |
| Entergy Corporation | ETR | (\$72.44) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$159.39 |
| Eversource Energy | ES | (\$54.15) | \$0.00 | \$0.88 | \$1.79 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$121.05 |
| FirstEnergy Corp. | FE | (\$33.04) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$79.19 |
| IDACORP, Inc. | IDA | (\$70.82) | \$0.00 | \$1.06 | \$2.14 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$156.28 |
| MGE Energy, Inc. | MGEE | (\$48.29) | \$0.00 | \$0.60 | \$1.22 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$109.32 |
| NorthWestern Corporation | NWE | (\$57.21) | \$0.00 | \$1.00 | \$2.03 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$126.63 |
| OGE Energy Corp. | OGE | (\$27.72) | \$0.00 | \$0.59 | \$1.18 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$59.12 |
| Otter Tail Corporation | OTTR | (\$28.18) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$61.50 |
| Pinnacle West Capital Corporation | PNW | (\$69.12) | \$0.00 | \$1.31 | \$2.65 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$150.18 |
| PNM Resources, Inc. | PNM | (\$31.32) | \$0.00 | \$0.45 | \$0.93 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$72.32 |
| Portland General Electric Company | POR | (\$38.74) | \$0.00 | \$0.61 | \$1.24 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$87.35 |
| SCANA Corporation | SCG | (\$64.86) | \$0.00 | \$1.18 | \$2.40 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$143.98 |
| Wisconsin Energy Corporation | WEC | (\$55.89) | \$0.00 | \$0.85 | \$1.74 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$122.01 |
| Xcel Energy Inc. | XEL | (\$38.85) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$85.78 |

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| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 30 Day Average Stock Price High EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | High |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$59.67 | 5.50\% | 5.00\% | 4.00\% | 5.50\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.70\% | 16.10 | 3.02 |
| Alliant Energy Corporation | LNT | \$38.20 | 6.10\% | 6.60\% | 6.00\% | 6.60\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 8.96\% | 19.36 | 3.64 |
| Ameren Corporation | AEE | \$50.12 | 6.10\% | 5.20\% | 6.00\% | 6.10\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.14\% | 18.45 | 3.47 |
| American Electric Power Company, Inc. | AEP | \$66.05 | 4.90\% | 4.10\% | 4.00\% | 4.90\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.38\% | 17.36 | 3.26 |
| Avista Corporation | AVA | \$41.65 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 8.70\% | 20.85 | 3.92 |
| CMS Energy Corporation | CMS | \$42.95 | 6.40\% | 7.24\% | 6.00\% | 7.24\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 9.10\% | 18.64 | 3.50 |
| DTE Energy Company | DTE | \$92.91 | 5.80\% | 5.35\% | 5.00\% | 5.80\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.06\% | 18.85 | 3.54 |
| El Paso Electric Company | EE | \$45.30 | 6.70\% | 7.00\% | 2.50\% | 7.00\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.09\% | 18.69 | 3.51 |
| Entergy Corporation | ETR | \$77.45 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | \$0.00 | 10.39\% | 13.90 | 2.61 |
| Eversource Energy | ES | \$56.36 | 6.30\% | 5.49\% | 6.00\% | 6.30\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.24\% | 18.00 | 3.38 |
| FirstEnergy Corp. | FE | \$33.34 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 10.83\% | 12.79 | 2.40 |
| IDACORP, Inc. | IDA | \$74.50 | 4.00\% | 4.00\% | 3.00\% | 4.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.88\% | 19.81 | 3.72 |
| MGE Energy, Inc. | MGEE | \$53.30 | NA | 4.00\% | 7.00\% | 7.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.47\% | 22.38 | 4.21 |
| NorthWestern Corporation | NWE | \$59.68 | 5.00\% | 5.00\% | 6.50\% | 6.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.28\% | 17.78 | 3.34 |
| OGE Energy Corp. | OGE | \$30.95 | 5.20\% | 4.30\% | 3.00\% | 5.20\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.52\% | 16.77 | 3.15 |
| Otter Tail Corporation | OTTR | \$30.96 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.39\% | 17.32 | 3.26 |
| Pinnacle West Capital Corporation | PNW | \$75.82 | 4.00\% | 3.73\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 8.93\% | 19.51 | 3.67 |
| PNM Resources, Inc. | PNM | \$33.49 | 7.60\% | 8.76\% | 9.00\% | 9.00\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.91\% | 15.35 | 2.88 |
| Portland General Electric Company | POR | \$41.86 | 6.40\% | 6.57\% | 5.50\% | 6.57\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.26\% | 17.90 | 3.36 |
| SCANA Corporation | SCG | \$71.01 | 5.30\% | 5.40\% | 4.50\% | 5.40\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.38\% | 17.36 | 3.26 |
| Wisconsin Energy Corporation | WEC | \$61.68 | 6.30\% | 6.77\% | 6.00\% | 6.77\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.51\% | 22.06 | 4.15 |
| Xcel Energy Inc. | XEL | \$42.20 | 5.30\% | 5.27\% | 5.50\% | 5.50\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.14\% | 18.44 | 3.46 |

$\begin{array}{cc}\text { MAX } & 10.83 \% \\ \text { MIN } & 8.47 \%\end{array}$

| Projected Annual Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.57 | \$3.76 | \$3.97 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$5.18 | \$5.46 | \$5.75 | \$6.06 | \$6.38 | \$6.72 | $\$ 7.07$ | \$7.45 | \$7.85 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.92 | \$2.05 | \$2.18 | \$2.33 | \$2.47 | \$2.63 | \$2.78 | \$2.94 | \$3.11 | \$3.27 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.24 |
| Ameren Corporation | AEE | \$2.38 | \$2.53 | \$2.68 | \$2.84 | \$3.02 | \$3.20 | \$3.39 | \$3.59 | \$3.79 | \$4.01 | \$4.22 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.47 | \$5.77 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.77 | \$3.95 | \$4.14 | \$4.35 | \$4.56 | \$4.79 | \$5.03 | \$5.29 | \$5.56 | \$5.85 | \$6.16 | \$6.49 | \$6.84 | \$7.20 | \$7.58 | \$7.99 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.03 | \$2.17 | \$2.33 | \$2.50 | \$2.68 | \$2.87 | \$3.06 | \$3.25 | \$3.44 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| DTE Energy Company | DTE | \$4.45 | \$4.71 | \$4.98 | \$5.27 | \$5.58 | \$5.90 | \$6.24 | \$6.59 | \$6.95 | \$7.34 | \$7.73 | \$8.14 | \$8.58 | \$9.03 | \$9.51 | \$10.02 | \$10.55 |
| El Paso Electric Company | EE | \$2.03 | \$2.17 | \$2.32 | \$2.49 | \$2.66 | \$2.85 | \$3.04 | \$3.23 | \$3.43 | \$3.64 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.72 | \$4.98 | \$5.24 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.93 | \$3.12 | \$3.32 | \$3.52 | \$3.75 | \$3.98 | \$4.21 | \$4.46 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.78 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.02 | \$4.19 | \$4.35 | \$4.53 | \$4.71 | \$4.91 | \$5.13 | \$5.36 | \$5.63 | \$5.91 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.66 | \$8.07 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.20 | \$2.36 | \$2.52 | \$2.70 | \$2.89 | \$3.08 | \$3.28 | \$3.48 | \$3.69 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.79 | \$5.05 | \$5.32 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.09 | \$3.29 | \$3.50 | \$3.73 | \$3.97 | \$4.22 | \$4.48 | \$4.75 | \$5.02 | \$5.29 | \$5.58 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.78 | \$1.87 | \$1.97 | \$2.07 | \$2.18 | \$2.29 | \$2.41 | \$2.54 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$3.65 | \$3.84 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.08 | \$4.24 | \$4.41 | \$4.59 | \$4.77 | \$4.97 | \$5.19 | \$5.43 | \$5.70 | \$5.99 | \$6.31 | \$6.64 | \$7.00 | \$7.37 | \$7.76 | \$8.18 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.79 | \$1.95 | \$2.12 | \$2.31 | \$2.52 | \$2.73 | \$2.95 | \$3.16 | \$3.37 | \$3.57 | \$3.76 | \$3.95 | \$4.17 | \$4.39 | \$4.62 | \$4.87 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.32 | \$2.47 | \$2.63 | \$2.80 | \$2.98 | \$3.17 | \$3.35 | \$3.55 | \$3.74 | \$3.94 | \$4.15 | \$4.37 | \$4.61 | \$4.85 | \$5.11 |
| SCANA Corporation | SCG | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.43 | \$6.78 | \$7.14 | \$7.52 | \$7.92 | \$8.34 | \$8.78 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.50 | \$2.67 | \$2.85 | \$3.04 | \$3.25 | \$3.46 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$5.64 | \$5.94 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.22 | \$2.34 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

Docket No. 160021-El

| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.35 | \$2.45 | \$2.56 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$126.32 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.28 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$82.12 |
| Ameren Corporation | AEE |  | \$1.72 | \$1.80 | \$1.88 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$106.39 |
| American Electric Power Company, Inc. | AEP |  | \$2.41 | \$2.56 | \$2.71 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$138.62 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.30 |
| CMS Energy Corporation | CMS |  | \$1.28 | \$1.36 | \$1.46 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$92.48 |
| DTE Energy Company | DTE |  | \$2.97 | \$3.11 | \$3.27 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$199.00 |
| El Paso Electric Company | EE |  | \$1.28 | \$1.38 | \$1.49 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$97.94 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$162.41 |
| Eversource Energy | ES |  | \$1.76 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$122.04 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$75.89 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$159.89 |
| MGE Energy, Inc. | MGEE |  | \$1.23 | \$1.25 | \$1.26 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$119.03 |
| NorthWestern Corporation | NWE |  | \$2.01 | \$2.09 | \$2.17 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$128.54 |
| OGE Energy Corp. | OGE |  | \$1.19 | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$64.40 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$65.02 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$159.50 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.01 | \$1.13 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$74.72 |
| Portland General Electric Company | POR |  | \$1.22 | \$1.30 | \$1.38 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$91.48 |
| SCANA Corporation | SCG |  | \$2.37 | \$2.51 | \$2.65 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$152.48 |
| Wisconsin Energy Corporation | WEC |  | \$1.70 | \$1.81 | \$1.92 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$131.14 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$89.91 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$59.67) | \$0.00 | \$1.19 | \$2.42 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$131.57 |
| Alliant Energy Corporation | LNT | (\$38.20) | \$0.00 | \$0.58 | \$1.19 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$84.96 |
| Ameren Corporation | AEE | (\$50.12) | \$0.00 | \$0.87 | \$1.77 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$110.24 |
| American Electric Power Company, Inc. | AEP | (\$66.05) | \$0.00 | \$1.21 | \$2.47 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$143.96 |
| Avista Corporation | AVA | (\$41.65) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.13 |
| CMS Energy Corporation | CMS | (\$42.95) | \$0.00 | \$0.64 | \$1.32 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$95.80 |
| DTE Energy Company | DTE | (\$92.91) | \$0.00 | \$1.50 | \$3.05 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$206.05 |
| El Paso Electric Company | EE | (\$45.30) | \$0.00 | \$0.65 | \$1.33 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$101.44 |
| Entergy Corporation | ETR | (\$77.45) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$170.22 |
| Eversource Energy | ES | (\$56.36) | \$0.00 | \$0.89 | \$1.82 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$126.58 |
| FirstEnergy Corp. | FE | (\$33.34) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$79.86 |
| IDACORP, Inc. | IDA | (\$74.50) | \$0.00 | \$1.08 | \$2.18 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$165.29 |
| MGE Energy, Inc. | MGEE | (\$53.30) | \$0.00 | \$0.62 | \$1.28 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$122.58 |
| NorthWestern Corporation | NWE | (\$59.68) | \$0.00 | \$1.01 | \$2.07 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$133.37 |
| OGE Energy Corp. | OGE | (\$30.95) | \$0.00 | \$0.60 | \$1.22 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$66.97 |
| Otter Tail Corporation | OTTR | (\$30.96) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$67.53 |
| Pinnacle West Capital Corporation | PNW | (\$75.82) | \$0.00 | \$1.32 | \$2.66 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$164.97 |
| PNM Resources, Inc. | PNM | (\$33.49) | \$0.00 | \$0.46 | \$0.95 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$77.98 |
| Portland General Electric Company | POR | (\$41.86) | \$0.00 | \$0.61 | \$1.26 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$94.89 |
| SCANA Corporation | SCG | (\$71.01) | \$0.00 | \$1.19 | \$2.43 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$158.35 |
| Wisconsin Energy Corporation | WEC | (\$61.68) | \$0.00 | \$0.86 | \$1.76 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$135.12 |
| Xcel Energy Inc. | XEL | (\$42.20) | \$0.00 | \$0.69 | \$1.41 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$93.17 |

Docket No. 160021-EI

| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 90 Day Average Stock Price High EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | High |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$57.08 | 5.50\% | 5.00\% | 4.00\% | 5.50\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.90\% | 15.38 | 2.89 |
| Alliant Energy Corporation | LNT | \$36.64 | 6.10\% | 6.60\% | 6.00\% | 6.60\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.12\% | 18.56 | 3.49 |
| Ameren Corporation | AEE | \$48.90 | 6.10\% | 5.20\% | 6.00\% | 6.10\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.24\% | 17.99 | 3.38 |
| American Electric Power Company, Inc. | AEP | \$65.03 | 4.90\% | 4.10\% | 4.00\% | 4.90\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.45\% | 17.08 | 3.21 |
| Avista Corporation | AVA | \$40.48 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 8.80\% | 20.25 | 3.80 |
| CMS Energy Corporation | CMS | \$41.70 | 6.40\% | 7.24\% | 6.00\% | 7.24\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 9.22\% | 18.09 | 3.40 |
| DTE Energy Company | DTE | \$89.93 | 5.80\% | 5.35\% | 5.00\% | 5.80\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.18\% | 18.24 | 3.43 |
| El Paso Electric Company | EE | \$44.56 | 6.70\% | 7.00\% | 2.50\% | 7.00\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.15\% | 18.38 | 3.45 |
| Entergy Corporation | ETR | \$76.55 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 10.45\% | 13.73 | 2.58 |
| Eversource Energy | ES | \$56.58 | 6.30\% | 5.49\% | 6.00\% | 6.30\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.22\% | 18.07 | 3.39 |
| FirstEnergy Corp. | FE | \$34.24 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 10.69\% | 13.12 | 2.46 |
| IDACORP, Inc. | IDA | \$73.58 | 4.00\% | 4.00\% | 3.00\% | 4.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 8.92\% | 19.57 | 3.68 |
| MGE Energy, Inc. | MGEE | \$51.38 | NA | 4.00\% | 7.00\% | 7.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.58\% | 21.60 | 4.06 |
| NorthWestern Corporation | NWE | \$59.59 | 5.00\% | 5.00\% | 6.50\% | 6.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.29\% | 17.76 | 3.34 |
| OGE Energy Corp. | OGE | \$29.13 | 5.20\% | 4.30\% | 3.00\% | 5.20\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 9.80\% | 15.74 | 2.96 |
| Otter Tail Corporation | OTTR | \$29.44 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.61\% | 16.45 | 3.09 |
| Pinnacle West Capital Corporation | PNW | \$73.65 | 4.00\% | 3.73\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 9.04\% | 18.94 | 3.56 |
| PNM Resources, Inc. | PNM | \$32.94 | 7.60\% | 8.76\% | 9.00\% | 9.00\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | (\$0.00) | 9.98\% | 15.11 | 2.84 |
| Portland General Electric Company | POR | \$40.24 | 6.40\% | 6.57\% | 5.50\% | 6.57\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.41\% | 17.21 | 3.23 |
| SCANA Corporation | SCG | \$69.22 | 5.30\% | 5.40\% | 4.50\% | 5.40\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.49\% | 16.92 | 3.18 |
| Wisconsin Energy Corporation | WEC | \$59.53 | 6.30\% | 6.77\% | 6.00\% | 6.77\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.63\% | 21.28 | 4.00 |
| Xcel Energy Inc. | XEL | \$41.15 | 5.30\% | 5.27\% | 5.50\% | 5.50\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.24\% | 17.97 | 3.38 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.38\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 10.69\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 8.58\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.57 | \$3.76 | \$3.97 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$5.18 | \$5.46 | \$5.75 | \$6.06 | \$6.38 | \$6.72 | \$7.07 | \$7.45 | \$7.85 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.92 | \$2.05 | \$2.18 | \$2.33 | \$2.47 | \$2.63 | \$2.78 | \$2.94 | \$3.11 | \$3.27 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.24 |
| Ameren Corporation | AEE | \$2.38 | \$2.53 | \$2.68 | \$2.84 | \$3.02 | \$3.20 | \$3.39 | \$3.59 | \$3.79 | \$4.01 | \$4.22 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.47 | \$5.77 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.77 | \$3.95 | \$4.14 | \$4.35 | \$4.56 | \$4.79 | \$5.03 | \$5.29 | \$5.56 | \$5.85 | \$6.16 | \$6.49 | \$6.84 | \$7.20 | \$7.58 | \$7.99 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.03 | \$2.17 | \$2.33 | \$2.50 | \$2.68 | \$2.87 | \$3.06 | \$3.25 | \$3.44 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| DTE Energy Company | DTE | \$4.45 | \$4.71 | \$4.98 | \$5.27 | \$5.58 | \$5.90 | \$6.24 | \$6.59 | \$6.95 | \$7.34 | \$7.73 | \$8.14 | \$8.58 | \$9.03 | \$9.51 | \$10.02 | \$10.55 |
| El Paso Electric Company | EE | \$2.03 | \$2.17 | \$2.32 | \$2.49 | \$2.66 | \$2.85 | \$3.04 | \$3.23 | \$3.43 | \$3.64 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.72 | \$4.98 | \$5.24 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.93 | \$3.12 | \$3.32 | \$3.52 | \$3.75 | \$3.98 | \$4.21 | \$4.46 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.78 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.02 | \$4.19 | \$4.35 | \$4.53 | \$4.71 | \$4.91 | \$5.13 | \$5.36 | \$5.63 | \$5.91 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.66 | \$8.07 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.20 | \$2.36 | \$2.52 | \$2.70 | \$2.89 | \$3.08 | \$3.28 | \$3.48 | \$3.69 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.79 | \$5.05 | \$5.32 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.09 | \$3.29 | \$3.50 | \$3.73 | \$3.97 | \$4.22 | \$4.48 | \$4.75 | \$5.02 | \$5.29 | \$5.58 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.78 | \$1.87 | \$1.97 | \$2.07 | \$2.18 | \$2.29 | \$2.41 | \$2.54 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$3.65 | \$3.84 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.08 | \$4.24 | \$4.41 | \$4.59 | \$4.77 | \$4.97 | \$5.19 | \$5.43 | \$5.70 | \$5.99 | \$6.31 | \$6.64 | \$7.00 | \$7.37 | \$7.76 | \$8.18 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.79 | \$1.95 | \$2.12 | \$2.31 | \$2.52 | \$2.73 | \$2.95 | \$3.16 | \$3.37 | \$3.57 | \$3.76 | \$3.95 | \$4.17 | \$4.39 | \$4.62 | \$4.87 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.32 | \$2.47 | \$2.63 | \$2.80 | \$2.98 | \$3.17 | \$3.35 | \$3.55 | \$3.74 | \$3.94 | \$4.15 | \$4.37 | \$4.61 | \$4.85 | \$5.11 |
| SCANA Corporation | SCG | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.43 | \$6.78 | \$7.14 | \$7.52 | \$7.92 | \$8.34 | \$8.78 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.50 | \$2.67 | \$2.85 | \$3.04 | \$3.25 | \$3.46 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$5.64 | \$5.94 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.22 | \$2.34 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.35 | \$2.45 | \$2.56 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$120.72 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.28 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$78.72 |
| Ameren Corporation | AEE |  | \$1.72 | \$1.80 | \$1.88 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$103.73 |
| American Electric Power Company, Inc. | AEP |  | \$2.41 | \$2.56 | \$2.71 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$136.43 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$85.75 |
| CMS Energy Corporation | CMS |  | \$1.28 | \$1.36 | \$1.46 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$89.76 |
| DTE Energy Company | DTE |  | \$2.97 | \$3.11 | \$3.27 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$192.52 |
| El Paso Electric Company | EE |  | \$1.28 | \$1.38 | \$1.49 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$96.34 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$160.45 |
| Eversource Energy | ES |  | \$1.76 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$122.53 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$77.84 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$157.91 |
| MGE Energy, Inc. | MGEE |  | \$1.23 | \$1.25 | \$1.26 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$114.84 |
| NorthWestern Corporation | NWE |  | \$2.01 | \$2.09 | \$2.17 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$128.33 |
| OGE Energy Corp. | OGE |  | \$1.19 | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$60.47 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$61.72 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$154.81 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.01 | \$1.13 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$73.52 |
| Portland General Electric Company | POR |  | \$1.22 | \$1.30 | \$1.38 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$87.95 |
| SCANA Corporation | SCG |  | \$2.37 | \$2.51 | \$2.65 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$148.58 |
| Wisconsin Energy Corporation | WEC |  | \$1.70 | \$1.81 | \$1.92 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$126.47 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$87.64 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$57.08) | \$0.00 | \$1.19 | \$2.42 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$125.97 |
| Alliant Energy Corporation | LNT | (\$36.64) | \$0.00 | \$0.58 | \$1.19 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$81.56 |
| Ameren Corporation | AEE | (\$48.90) | \$0.00 | \$0.87 | \$1.77 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$107.59 |
| American Electric Power Company, Inc. | AEP | (\$65.03) | \$0.00 | \$1.21 | \$2.47 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$141.77 |
| Avista Corporation | AVA | (\$40.48) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.58 |
| CMS Energy Corporation | CMS | (\$41.70) | \$0.00 | \$0.64 | \$1.32 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$93.08 |
| DTE Energy Company | DTE | (\$89.93) | \$0.00 | \$1.50 | \$3.05 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$199.58 |
| EI Paso Electric Company | EE | (\$44.56) | \$0.00 | \$0.65 | \$1.33 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$99.84 |
| Entergy Corporation | ETR | (\$76.55) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$168.27 |
| Eversource Energy | ES | (\$56.58) | \$0.00 | \$0.89 | \$1.82 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$127.06 |
| FirstEnergy Corp. | FE | (\$34.24) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$81.81 |
| IDACORP, Inc. | IDA | (\$73.58) | \$0.00 | \$1.08 | \$2.18 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$163.30 |
| MGE Energy, Inc. | MGEE | (\$51.38) | \$0.00 | \$0.62 | \$1.28 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$118.40 |
| NorthWestern Corporation | NWE | (\$59.59) | \$0.00 | \$1.01 | \$2.07 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$133.16 |
| OGE Energy Corp. | OGE | (\$29.13) | \$0.00 | \$0.60 | \$1.22 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$63.04 |
| Otter Tail Corporation | OTTR | (\$29.44) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$64.23 |
| Pinnacle West Capital Corporation | PNW | (\$73.65) | \$0.00 | \$1.32 | \$2.66 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$160.28 |
| PNM Resources, Inc. | PNM | (\$32.94) | \$0.00 | \$0.46 | \$0.95 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$76.78 |
| Portland General Electric Company | POR | (\$40.24) | \$0.00 | \$0.61 | \$1.26 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$91.37 |
| SCANA Corporation | SCG | (\$69.22) | \$0.00 | \$1.19 | \$2.43 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$154.46 |
| Wisconsin Energy Corporation | WEC | (\$59.53) | \$0.00 | \$0.86 | \$1.76 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$130.44 |
| Xcel Energy Inc. | XEL | (\$41.15) | \$0.00 | \$0.69 | \$1.41 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$90.90 |

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| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model 180 Day Average Stock Price High EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | High |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$54.07 | 5.50\% | 5.00\% | 4.00\% | 5.50\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | \$0.00 | 10.16\% | 14.55 | 2.73 |
| Alliant Energy Corporation | LNT | \$33.83 | 6.10\% | 6.60\% | 6.00\% | 6.60\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.44\% | 17.12 | 3.22 |
| Ameren Corporation | AEE | \$46.40 | 6.10\% | 5.20\% | 6.00\% | 6.10\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | (\$0.00) | 9.45\% | 17.05 | 3.20 |
| American Electric Power Company, Inc. | AEP | \$61.54 | 4.90\% | 4.10\% | 4.00\% | 4.90\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 9.69\% | 16.14 | 3.03 |
| Avista Corporation | AVA | \$37.83 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.05\% | 18.89 | 3.55 |
| CMS Energy Corporation | CMS | \$39.10 | 6.40\% | 7.24\% | 6.00\% | 7.24\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | (\$0.00) | 9.48\% | 16.96 | 3.19 |
| DTE Energy Company | DTE | \$85.80 | 5.80\% | 5.35\% | 5.00\% | 5.80\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.37\% | 17.39 | 3.27 |
| El Paso Electric Company | EE | \$41.72 | 6.70\% | 7.00\% | 2.50\% | 7.00\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.42\% | 17.21 | 3.23 |
| Entergy Corporation | ETR | \$72.44 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 10.75\% | 12.97 | 2.44 |
| Eversource Energy | ES | \$54.15 | 6.30\% | 5.49\% | 6.00\% | 6.30\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | (\$0.00) | 9.40\% | 17.29 | 3.25 |
| FirstEnergy Corp. | FE | \$33.04 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | (\$0.00) | 10.88\% | 12.67 | 2.38 |
| IDACORP, Inc. | IDA | \$70.82 | 4.00\% | 4.00\% | 3.00\% | 4.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.06\% | 18.82 | 3.54 |
| MGE Energy, Inc. | MGEE | \$48.29 | NA | 4.00\% | 7.00\% | 7.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 8.79\% | 20.33 | 3.82 |
| NorthWestern Corporation | NWE | \$57.21 | 5.00\% | 5.00\% | 6.50\% | 6.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | (\$0.00) | 9.46\% | 17.04 | 3.20 |
| OGE Energy Corp. | OGE | \$27.72 | 5.20\% | 4.30\% | 3.00\% | 5.20\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | (\$0.00) | 10.03\% | 14.95 | 2.81 |
| Otter Tail Corporation | OTTR | \$28.18 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.80\% | 15.72 | 2.95 |
| Pinnacle West Capital Corporation | PNW | \$69.12 | 4.00\% | 3.73\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 9.29\% | 17.73 | 3.33 |
| PNM Resources, Inc. | PNM | \$31.32 | 7.60\% | 8.76\% | 9.00\% | 9.00\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 10.22\% | 14.38 | 2.70 |
| Portland General Electric Company | POR | \$38.74 | 6.40\% | 6.57\% | 5.50\% | 6.57\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | (\$0.00) | 9.57\% | 16.57 | 3.11 |
| SCANA Corporation | SCG | \$64.86 | 5.30\% | 5.40\% | 4.50\% | 5.40\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 9.77\% | 15.84 | 2.98 |
| Wisconsin Energy Corporation | WEC | \$55.89 | 6.30\% | 6.77\% | 6.00\% | 6.77\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | (\$0.00) | 8.85\% | 19.95 | 3.75 |
| Xcel Energy Inc. | XEL | \$38.85 | 5.30\% | 5.27\% | 5.50\% | 5.50\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | (\$0.00) | 9.48\% | 16.95 | 3.19 |

$\begin{array}{ll}\text { MAX } & 10.88 \% \\ \text { MIN } & 8.79 \%\end{array}$

| Projected Annual Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.57 | \$3.76 | \$3.97 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$5.18 | \$5.46 | \$5.75 | \$6.06 | \$6.38 | \$6.72 | $\$ 7.07$ | \$7.45 | \$7.85 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.92 | \$2.05 | \$2.18 | \$2.33 | \$2.47 | \$2.63 | \$2.78 | \$2.94 | \$3.11 | \$3.27 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.24 |
| Ameren Corporation | AEE | \$2.38 | \$2.53 | \$2.68 | \$2.84 | \$3.02 | \$3.20 | \$3.39 | \$3.59 | \$3.79 | \$4.01 | \$4.22 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.47 | \$5.77 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.77 | \$3.95 | \$4.14 | \$4.35 | \$4.56 | \$4.79 | \$5.03 | \$5.29 | \$5.56 | \$5.85 | \$6.16 | \$6.49 | \$6.84 | \$7.20 | \$7.58 | \$7.99 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.03 | \$2.17 | \$2.33 | \$2.50 | \$2.68 | \$2.87 | \$3.06 | \$3.25 | \$3.44 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| DTE Energy Company | DTE | \$4.45 | \$4.71 | \$4.98 | \$5.27 | \$5.58 | \$5.90 | \$6.24 | \$6.59 | \$6.95 | \$7.34 | \$7.73 | \$8.14 | \$8.58 | \$9.03 | \$9.51 | \$10.02 | \$10.55 |
| El Paso Electric Company | EE | \$2.03 | \$2.17 | \$2.32 | \$2.49 | \$2.66 | \$2.85 | \$3.04 | \$3.23 | \$3.43 | \$3.64 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.72 | \$4.98 | \$5.24 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.93 | \$3.12 | \$3.32 | \$3.52 | \$3.75 | \$3.98 | \$4.21 | \$4.46 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.78 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.02 | \$4.19 | \$4.35 | \$4.53 | \$4.71 | \$4.91 | \$5.13 | \$5.36 | \$5.63 | \$5.91 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.66 | \$8.07 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.20 | \$2.36 | \$2.52 | \$2.70 | \$2.89 | \$3.08 | \$3.28 | \$3.48 | \$3.69 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.79 | \$5.05 | \$5.32 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.09 | \$3.29 | \$3.50 | \$3.73 | \$3.97 | \$4.22 | \$4.48 | \$4.75 | \$5.02 | \$5.29 | \$5.58 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.78 | \$1.87 | \$1.97 | \$2.07 | \$2.18 | \$2.29 | \$2.41 | \$2.54 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$3.65 | \$3.84 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.08 | \$4.24 | \$4.41 | \$4.59 | \$4.77 | \$4.97 | \$5.19 | \$5.43 | \$5.70 | \$5.99 | \$6.31 | \$6.64 | \$7.00 | \$7.37 | \$7.76 | \$8.18 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.79 | \$1.95 | \$2.12 | \$2.31 | \$2.52 | \$2.73 | \$2.95 | \$3.16 | \$3.37 | \$3.57 | \$3.76 | \$3.95 | \$4.17 | \$4.39 | \$4.62 | \$4.87 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.32 | \$2.47 | \$2.63 | \$2.80 | \$2.98 | \$3.17 | \$3.35 | \$3.55 | \$3.74 | \$3.94 | \$4.15 | \$4.37 | \$4.61 | \$4.85 | \$5.11 |
| SCANA Corporation | SCG | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.43 | \$6.78 | \$7.14 | \$7.52 | \$7.92 | \$8.34 | \$8.78 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.50 | \$2.67 | \$2.85 | \$3.04 | \$3.25 | \$3.46 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$5.64 | \$5.94 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.22 | \$2.34 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

Docket No. 160021-EI

| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.35 | \$2.45 | \$2.56 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$114.20 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.28 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$72.63 |
| Ameren Corporation | AEE |  | \$1.72 | \$1.80 | \$1.88 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$98.31 |
| American Electric Power Company, Inc. | AEP |  | \$2.41 | \$2.56 | \$2.71 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$128.86 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$80.01 |
| CMS Energy Corporation | CMS |  | \$1.28 | \$1.36 | \$1.46 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$84.13 |
| DTE Energy Company | DTE |  | \$2.97 | \$3.11 | \$3.27 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$183.56 |
| El Paso Electric Company | EE |  | \$1.28 | \$1.38 | \$1.49 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$90.17 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$151.57 |
| Eversource Energy | ES |  | \$1.76 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$117.24 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$75.22 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$151.91 |
| MGE Energy, Inc. | MGEE |  | \$1.23 | \$1.25 | \$1.26 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$108.10 |
| NorthWestern Corporation | NWE |  | \$2.01 | \$2.09 | \$2.17 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$123.17 |
| OGE Energy Corp. | OGE |  | \$1.19 | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$57.42 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$58.99 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$144.97 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.01 | \$1.13 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$70.00 |
| Portland General Electric Company | POR |  | \$1.22 | \$1.30 | \$1.38 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$84.68 |
| SCANA Corporation | SCG |  | \$2.37 | \$2.51 | \$2.65 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$139.12 |
| Wisconsin Energy Corporation | WEC |  | \$1.70 | \$1.81 | \$1.92 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$118.57 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$82.66 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$54.07) | \$0.00 | \$1.19 | \$2.42 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$119.44 |
| Alliant Energy Corporation | LNT | (\$33.83) | \$0.00 | \$0.58 | \$1.19 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$75.47 |
| Ameren Corporation | AEE | (\$46.40) | \$0.00 | \$0.87 | \$1.77 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$102.17 |
| American Electric Power Company, Inc. | AEP | (\$61.54) | \$0.00 | \$1.21 | \$2.47 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$134.20 |
| Avista Corporation | AVA | (\$37.83) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$82.84 |
| CMS Energy Corporation | CMS | (\$39.10) | \$0.00 | \$0.64 | \$1.32 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$87.45 |
| DTE Energy Company | DTE | (\$85.80) | \$0.00 | \$1.50 | \$3.05 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$190.62 |
| El Paso Electric Company | EE | (\$41.72) | \$0.00 | \$0.65 | \$1.33 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$93.67 |
| Entergy Corporation | ETR | (\$72.44) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$159.39 |
| Eversource Energy | ES | (\$54.15) | \$0.00 | \$0.89 | \$1.82 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$121.78 |
| FirstEnergy Corp. | FE | (\$33.04) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$79.19 |
| IDACORP, Inc. | IDA | (\$70.82) | \$0.00 | \$1.08 | \$2.18 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$157.30 |
| MGE Energy, Inc. | MGEE | (\$48.29) | \$0.00 | \$0.62 | \$1.28 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$111.65 |
| NorthWestern Corporation | NWE | (\$57.21) | \$0.00 | \$1.01 | \$2.07 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$128.00 |
| OGE Energy Corp. | OGE | (\$27.72) | \$0.00 | \$0.60 | \$1.22 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$59.99 |
| Otter Tail Corporation | OTTR | (\$28.18) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$61.50 |
| Pinnacle West Capital Corporation | PNW | (\$69.12) | \$0.00 | \$1.32 | \$2.66 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$150.44 |
| PNM Resources, Inc. | PNM | (\$31.32) | \$0.00 | \$0.46 | \$0.95 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$73.25 |
| Portland General Electric Company | POR | (\$38.74) | \$0.00 | \$0.61 | \$1.26 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$88.09 |
| SCANA Corporation | SCG | (\$64.86) | \$0.00 | \$1.19 | \$2.43 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$144.99 |
| Wisconsin Energy Corporation | WEC | (\$55.89) | \$0.00 | \$0.86 | \$1.76 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$122.54 |
| Xcel Energy Inc. | XEL | (\$38.85) | \$0.00 | \$0.69 | \$1.41 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$85.92 |

Docket No. 160021-EI

Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E
30 Day Average Stock Price
Average EPS Growth Rate Estimate in First Stage

| Inputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal <br> P/E Ratio | Terminal PEG Ratio |
| Company | Ticker | Price | Zacks | First Call | Value Line | Average | Growth | 2016 | 2020 | 2026 | Proof | IRR |  |  |
| ALLETE, Inc. | ALE | \$59.67 | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 10.66\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$38.20 | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 9.15\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$50.12 | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 9.60\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$66.05 | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | \$0.00 | 10.01\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$41.65 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 8.70\% | 20.86 | 3.92 |
| CMS Energy Corporation | CMS | \$42.95 | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 9.30\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$92.91 | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.36\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$45.30 | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 8.73\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$77.45 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 12.50\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$56.36 | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 9.82\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$33.34 | NA | NA | 9.00\% | 9.00\% | $5.32 \%$ | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.37\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$74.50 | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 8.96\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$53.30 | NA | 4.00\% | 7.00\% | 5.50\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | \$0.00 | 7.21\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$59.68 | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 9.54\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$30.95 | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 10.04\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$30.96 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 10.39\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$75.82 | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | \$0.00 | 9.24\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$33.49 | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 11.21\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$41.86 | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 9.84\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$71.01 | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 10.17\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$61.68 | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 7.96\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$42.20 | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 9.72\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.79\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 13.37\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 7.21\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.54 | \$3.71 | \$3.89 | \$4.08 | \$4.28 | \$4.49 | \$4.71 | \$4.95 | \$5.21 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.48 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.29 | \$2.43 | \$2.57 | \$2.72 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.38 | \$2.52 | \$2.66 | \$2.82 | \$2.98 | \$3.15 | \$3.33 | \$3.52 | \$3.71 | \$3.91 | \$4.13 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.75 | \$3.91 | \$4.08 | \$4.25 | \$4.44 | \$4.64 | \$4.85 | \$5.09 | \$5.34 | \$5.62 | \$5.92 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.67 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.01 | \$2.15 | \$2.29 | \$2.44 | \$2.60 | \$2.76 | \$2.93 | \$3.10 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 |
| DTE Energy Company | DTE | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$6.09 | \$6.42 | \$6.77 | \$7.13 | \$7.51 | \$7.91 | \$8.33 | \$8.77 | \$9.24 | \$9.73 | \$10.25 |
| El Paso Electric Company | EE | \$2.03 | \$2.14 | \$2.26 | \$2.38 | \$2.51 | \$2.64 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.43 | \$3.61 | \$3.80 | \$4.01 | \$4.22 | \$4.44 | \$4.68 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.92 | \$3.10 | \$3.28 | \$3.48 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.84 | \$5.10 | \$5.37 | \$5.65 | \$5.96 | \$6.27 | \$6.61 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.01 | \$4.16 | \$4.31 | \$4.47 | \$4.63 | \$4.82 | \$5.02 | \$5.24 | \$5.50 | \$5.77 | \$6.08 | \$6.40 | \$6.74 | \$7.10 | \$7.48 | \$7.88 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.17 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.84 | \$2.99 | \$3.16 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.09 | \$4.31 | \$4.54 | \$4.78 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.79 | \$4.00 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.20 | \$5.47 | \$5.76 | \$6.07 | \$6.39 | \$6.73 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.83 | \$1.91 | \$1.99 | \$2.07 | \$2.16 | \$2.26 | \$2.37 | \$2.49 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.22 | \$3.39 | \$3.57 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.23 | \$4.40 | \$4.57 | \$4.75 | \$4.95 | \$5.16 | \$5.40 | \$5.66 | \$5.95 | \$6.27 | \$6.60 | \$6.95 | \$7.32 | \$7.71 | \$8.12 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.78 | \$1.93 | \$2.09 | \$2.27 | \$2.46 | \$2.66 | \$2.85 | \$3.05 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.45 | \$4.69 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.30 | \$2.44 | \$2.59 | \$2.75 | \$2.92 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| SCANA Corporation | SCG | \$3.81 | \$4.00 | \$4.21 | \$4.42 | \$4.64 | \$4.88 | \$5.13 | \$5.39 | \$5.67 | \$5.97 | \$6.28 | \$6.62 | \$6.97 | \$7.34 | \$7.73 | \$8.14 | \$8.58 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.49 | \$2.65 | \$2.82 | \$2.99 | \$3.18 | \$3.38 | \$3.58 | \$3.79 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.34 | \$2.42 | \$2.51 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$156.10 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.27 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$86.22 |
| Ameren Corporation | AEE |  | \$1.71 | \$1.78 | \$1.86 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$117.47 |
| American Electric Power Company, Inc. | AEP |  | \$2.40 | \$2.53 | \$2.67 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$159.96 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$98.58 |
| DTE Energy Company | DTE |  | \$2.95 | \$3.09 | \$3.23 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$213.74 |
| El Paso Electric Company | EE |  | \$1.26 | \$1.34 | \$1.43 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$97.62 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.75 | \$1.84 | \$1.94 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$137.81 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.28 | \$2.44 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$164.36 |
| MGE Energy, Inc. | MGEE |  | \$1.22 | \$1.22 | \$1.21 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$99.77 |
| NorthWestern Corporation | NWE |  | \$1.99 | \$2.05 | \$2.11 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$140.45 |
| OGE Energy Corp. | OGE |  | \$1.18 | \$1.24 | \$1.31 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$74.41 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$169.43 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.00 | \$1.11 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$97.74 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.29 | \$1.37 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$103.51 |
| SCANA Corporation | SCG |  | \$2.36 | \$2.49 | \$2.63 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$178.92 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$120.42 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$100.68 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$59.67) | \$0.00 | \$1.18 | \$2.40 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$161.11 |
| Alliant Energy Corporation | LNT | (\$38.20) | \$0.00 | \$0.58 | \$1.18 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$88.98 |
| Ameren Corporation | AEE | (\$50.12) | \$0.00 | \$0.86 | \$1.76 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$121.24 |
| American Electric Power Company, Inc. | AEP | (\$66.05) | \$0.00 | \$1.21 | \$2.45 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$165.09 |
| Avista Corporation | AVA | (\$41.65) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$42.95) | \$0.00 | \$0.64 | \$1.31 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$101.74 |
| DTE Energy Company | DTE | (\$92.91) | \$0.00 | \$1.49 | \$3.03 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$220.59 |
| El Paso Electric Company | EE | (\$45.30) | \$0.00 | \$0.64 | \$1.30 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$100.75 |
| Entergy Corporation | ETR | (\$77.45) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$56.36) | \$0.00 | \$0.88 | \$1.81 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$142.23 |
| FirstEnergy Corp. | FE | (\$33.34) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$74.50) | \$0.00 | \$1.07 | \$2.17 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$169.63 |
| MGE Energy, Inc. | MGEE | (\$53.30) | \$0.00 | \$0.61 | \$1.25 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$102.97 |
| NorthWestern Corporation | NWE | (\$59.68) | \$0.00 | \$1.00 | \$2.04 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$144.96 |
| OGE Energy Corp. | OGE | (\$30.95) | \$0.00 | \$0.59 | \$1.20 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$76.79 |
| Otter Tail Corporation | OTTR | (\$30.96) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$75.82) | \$0.00 | \$1.31 | \$2.66 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$174.86 |
| PNM Resources, Inc. | PNM | (\$33.49) | \$0.00 | \$0.46 | \$0.95 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$100.88 |
| Portland General Electric Company | POR | (\$41.86) | \$0.00 | \$0.61 | \$1.25 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$106.83 |
| SCANA Corporation | SCG | (\$71.01) | \$0.00 | \$1.19 | \$2.42 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$184.65 |
| Wisconsin Energy Corporation | WEC | (\$61.68) | \$0.00 | \$0.85 | \$1.75 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$124.28 |
| Xcel Energy Inc. | XEL | (\$42.19) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$103.90 |

Docket No. 160021-EI

Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E
90 Day Average Stock Price
Average EPS Growth Rate Estimate in First Stage


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.54 | \$3.71 | \$3.89 | \$4.08 | \$4.28 | \$4.49 | \$4.71 | \$4.95 | \$5.21 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.48 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.29 | \$2.43 | \$2.57 | \$2.72 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.38 | \$2.52 | \$2.66 | \$2.82 | \$2.98 | \$3.15 | \$3.33 | \$3.52 | \$3.71 | \$3.91 | \$4.13 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.75 | \$3.91 | \$4.08 | \$4.25 | \$4.44 | \$4.64 | \$4.85 | \$5.09 | \$5.34 | \$5.62 | \$5.92 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.67 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.01 | \$2.15 | \$2.29 | \$2.44 | \$2.60 | \$2.76 | \$2.93 | \$3.10 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 |
| DTE Energy Company | DTE | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$6.09 | \$6.42 | \$6.77 | \$7.13 | \$7.51 | \$7.91 | \$8.33 | \$8.77 | \$9.24 | \$9.73 | \$10.25 |
| EI Paso Electric Company | EE | \$2.03 | \$2.14 | \$2.26 | \$2.38 | \$2.51 | \$2.64 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.43 | \$3.61 | \$3.80 | \$4.01 | \$4.22 | \$4.44 | \$4.68 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.92 | \$3.10 | \$3.28 | \$3.48 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.84 | \$5.10 | \$5.37 | \$5.65 | \$5.96 | \$6.27 | \$6.61 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.01 | \$4.16 | \$4.31 | \$4.47 | \$4.63 | \$4.82 | \$5.02 | \$5.24 | \$5.50 | \$5.77 | \$6.08 | \$6.40 | \$6.74 | \$7.10 | \$7.48 | \$7.88 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.17 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.84 | \$2.99 | \$3.16 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.09 | \$4.31 | \$4.54 | \$4.78 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.79 | \$4.00 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.20 | \$5.47 | \$5.76 | \$6.07 | \$6.39 | \$6.73 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.83 | \$1.91 | \$1.99 | \$2.07 | \$2.16 | \$2.26 | \$2.37 | \$2.49 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.22 | \$3.39 | \$3.57 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.23 | \$4.40 | \$4.57 | \$4.75 | \$4.95 | \$5.16 | \$5.40 | \$5.66 | \$5.95 | \$6.27 | \$6.60 | \$6.95 | \$7.32 | \$7.71 | \$8.12 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.78 | \$1.93 | \$2.09 | \$2.27 | \$2.46 | \$2.66 | \$2.85 | \$3.05 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.45 | \$4.69 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.30 | \$2.44 | \$2.59 | \$2.75 | \$2.92 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| SCANA Corporation | SCG | \$3.81 | \$4.00 | \$4.21 | \$4.42 | \$4.64 | \$4.88 | \$5.13 | \$5.39 | \$5.67 | \$5.97 | \$6.28 | \$6.62 | \$6.97 | \$7.34 | \$7.73 | \$8.14 | \$8.58 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.49 | \$2.65 | \$2.82 | \$2.99 | \$3.18 | \$3.38 | \$3.58 | \$3.79 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.34 | \$2.42 | \$2.51 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$156.10 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.27 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$86.22 |
| Ameren Corporation | AEE |  | \$1.71 | \$1.78 | \$1.86 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$117.47 |
| American Electric Power Company, Inc. | AEP |  | \$2.40 | \$2.53 | \$2.67 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$159.96 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$98.58 |
| DTE Energy Company | DTE |  | \$2.95 | \$3.09 | \$3.23 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$213.74 |
| El Paso Electric Company | EE |  | \$1.26 | \$1.34 | \$1.43 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$97.62 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.75 | \$1.84 | \$1.94 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$137.81 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.28 | \$2.44 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$164.36 |
| MGE Energy, Inc. | MGEE |  | \$1.22 | \$1.22 | \$1.21 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$99.77 |
| NorthWestern Corporation | NWE |  | \$1.99 | \$2.05 | \$2.11 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$140.45 |
| OGE Energy Corp. | OGE |  | \$1.18 | \$1.24 | \$1.31 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$74.41 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$169.43 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.00 | \$1.11 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$97.74 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.29 | \$1.37 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$103.51 |
| SCANA Corporation | SCG |  | \$2.36 | \$2.49 | \$2.63 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$178.92 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$120.42 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$100.68 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$57.08) | \$0.00 | \$1.18 | \$2.40 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$161.11 |
| Alliant Energy Corporation | LNT | (\$36.64) | \$0.00 | \$0.58 | \$1.18 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$88.98 |
| Ameren Corporation | AEE | (\$48.89) | \$0.00 | \$0.86 | \$1.76 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$121.24 |
| American Electric Power Company, Inc. | AEP | (\$65.03) | \$0.00 | \$1.21 | \$2.45 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$165.09 |
| Avista Corporation | AVA | (\$40.48) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$41.70) | \$0.00 | \$0.64 | \$1.31 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$101.74 |
| DTE Energy Company | DTE | (\$89.93) | \$0.00 | \$1.49 | \$3.03 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$220.59 |
| El Paso Electric Company | EE | (\$44.56) | \$0.00 | \$0.64 | \$1.30 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$100.75 |
| Entergy Corporation | ETR | (\$76.55) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$56.58) | \$0.00 | \$0.88 | \$1.81 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$142.23 |
| FirstEnergy Corp. | FE | (\$34.24) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$73.58) | \$0.00 | \$1.07 | \$2.17 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$169.63 |
| MGE Energy, Inc. | MGEE | (\$51.38) | \$0.00 | \$0.61 | \$1.25 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$102.97 |
| NorthWestern Corporation | NWE | (\$59.59) | \$0.00 | \$1.00 | \$2.04 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$144.96 |
| OGE Energy Corp. | OGE | (\$29.13) | \$0.00 | \$0.59 | \$1.20 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$76.79 |
| Otter Tail Corporation | OTTR | (\$29.44) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$73.65) | \$0.00 | \$1.31 | \$2.66 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$174.86 |
| PNM Resources, Inc. | PNM | (\$32.94) | \$0.00 | \$0.46 | \$0.95 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$100.88 |
| Portland General Electric Company | POR | (\$40.24) | \$0.00 | \$0.61 | \$1.25 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$106.83 |
| SCANA Corporation | SCG | (\$69.22) | \$0.00 | \$1.19 | \$2.42 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$184.65 |
| Wisconsin Energy Corporation | WEC | (\$59.53) | \$0.00 | \$0.85 | \$1.75 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$124.28 |
| Xcel Energy Inc. | XEL | (\$41.15) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$103.90 |

Docket No. 160021-EI

Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E
180 Day Average Stock Price
Average EPS Growth Rate Estimate in First Stage

| Inputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
| Company | Ticker | Price | Zacks | First Call | Value Line | Average | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$54.07 | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 11.62\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$33.83 | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 10.27\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$46.40 | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 10.33\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$61.54 | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 10.69\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$37.83 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 9.59\% | 20.86 | 3.92 |
| CMS Energy Corporation | CMS | \$39.10 | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 10.17\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$85.80 | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 10.10\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$41.72 | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 9.48\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$72.44 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 13.18\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$54.15 | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 10.19\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$33.04 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.46\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$70.82 | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 9.42\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$48.29 | NA | 4.00\% | 7.00\% | 5.50\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | \$0.00 | 8.06\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$57.21 | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 9.93\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$27.72 | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 11.11\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$28.18 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 11.30\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$69.12 | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 10.11\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$31.32 | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 11.85\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$38.74 | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 10.56\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$64.86 | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 11.02\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$55.89 | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 8.85\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$38.85 | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 10.50\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 10.54\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 13.46\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.54 | \$3.71 | \$3.89 | \$4.08 | \$4.28 | \$4.49 | \$4.71 | \$4.95 | \$5.21 | \$5.48 | \$5.77 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.48 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.91 | \$2.03 | \$2.15 | \$2.29 | \$2.43 | \$2.57 | \$2.72 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.73 | \$3.92 | \$4.13 |
| Ameren Corporation | AEE | \$2.38 | \$2.52 | \$2.66 | \$2.82 | \$2.98 | \$3.15 | \$3.33 | \$3.52 | \$3.71 | \$3.91 | \$4.13 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.75 | \$3.91 | \$4.08 | \$4.25 | \$4.44 | \$4.64 | \$4.85 | \$5.09 | \$5.34 | \$5.62 | \$5.92 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.67 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.01 | \$2.15 | \$2.29 | \$2.44 | \$2.60 | \$2.76 | \$2.93 | \$3.10 | \$3.28 | \$3.46 | \$3.65 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.73 |
| DTE Energy Company | DTE | \$4.45 | \$4.69 | \$4.94 | \$5.21 | \$5.49 | \$5.78 | \$6.09 | \$6.42 | \$6.77 | \$7.13 | \$7.51 | \$7.91 | \$8.33 | \$8.77 | \$9.24 | \$9.73 | \$10.25 |
| EI Paso Electric Company | EE | \$2.03 | \$2.14 | \$2.26 | \$2.38 | \$2.51 | \$2.64 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.43 | \$3.61 | \$3.80 | \$4.01 | \$4.22 | \$4.44 | \$4.68 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.92 | \$3.10 | \$3.28 | \$3.48 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.84 | \$5.10 | \$5.37 | \$5.65 | \$5.96 | \$6.27 | \$6.61 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.01 | \$4.16 | \$4.31 | \$4.47 | \$4.63 | \$4.82 | \$5.02 | \$5.24 | \$5.50 | \$5.77 | \$6.08 | \$6.40 | \$6.74 | \$7.10 | \$7.48 | \$7.88 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.17 | \$2.29 | \$2.42 | \$2.55 | \$2.69 | \$2.84 | \$2.99 | \$3.16 | \$3.33 | \$3.50 | \$3.69 | \$3.89 | \$4.09 | \$4.31 | \$4.54 | \$4.78 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.79 | \$4.00 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.20 | \$5.47 | \$5.76 | \$6.07 | \$6.39 | \$6.73 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.76 | \$1.83 | \$1.91 | \$1.99 | \$2.07 | \$2.16 | \$2.26 | \$2.37 | \$2.49 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.22 | \$3.39 | \$3.57 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.23 | \$4.40 | \$4.57 | \$4.75 | \$4.95 | \$5.16 | \$5.40 | \$5.66 | \$5.95 | \$6.27 | \$6.60 | \$6.95 | \$7.32 | \$7.71 | \$8.12 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.78 | \$1.93 | \$2.09 | \$2.27 | \$2.46 | \$2.66 | \$2.85 | \$3.05 | \$3.24 | \$3.43 | \$3.62 | \$3.81 | \$4.01 | \$4.22 | \$4.45 | \$4.69 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.30 | \$2.44 | \$2.59 | \$2.75 | \$2.92 | \$3.09 | \$3.26 | \$3.45 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| SCANA Corporation | SCG | \$3.81 | \$4.00 | \$4.21 | \$4.42 | \$4.64 | \$4.88 | \$5.13 | \$5.39 | \$5.67 | \$5.97 | \$6.28 | \$6.62 | \$6.97 | \$7.34 | \$7.73 | \$8.14 | \$8.58 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.49 | \$2.65 | \$2.82 | \$2.99 | \$3.18 | \$3.38 | \$3.58 | \$3.79 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$3.03 | \$3.19 | \$3.36 | \$3.54 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$4.58 | \$4.83 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

Docket No. 160021-El

| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.34 | \$2.42 | \$2.51 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$156.10 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.27 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$86.22 |
| Ameren Corporation | AEE |  | \$1.71 | \$1.78 | \$1.86 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$117.47 |
| American Electric Power Company, Inc. | AEP |  | \$2.40 | \$2.53 | \$2.67 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$159.96 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$98.58 |
| DTE Energy Company | DTE |  | \$2.95 | \$3.09 | \$3.23 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$213.74 |
| El Paso Electric Company | EE |  | \$1.26 | \$1.34 | \$1.43 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$97.62 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.75 | \$1.84 | \$1.94 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$137.81 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.28 | \$2.44 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$164.36 |
| MGE Energy, Inc. | MGEE |  | \$1.22 | \$1.22 | \$1.21 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$99.77 |
| NorthWestern Corporation | NWE |  | \$1.99 | \$2.05 | \$2.11 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$140.45 |
| OGE Energy Corp. | OGE |  | \$1.18 | \$1.24 | \$1.31 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$74.41 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$169.43 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.00 | \$1.11 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$97.74 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.29 | \$1.37 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$103.51 |
| SCANA Corporation | SCG |  | \$2.36 | \$2.49 | \$2.63 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$178.92 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$120.42 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$100.68 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$54.07) | \$0.00 | \$1.18 | \$2.40 | \$2.60 | \$2.70 | \$2.86 | \$3.03 | \$3.22 | \$3.42 | \$3.63 | \$3.86 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$161.11 |
| Alliant Energy Corporation | LNT | (\$33.83) | \$0.00 | \$0.58 | \$1.18 | \$1.33 | \$1.39 | \$1.50 | \$1.62 | \$1.74 | \$1.86 | \$2.00 | \$2.13 | \$2.25 | \$2.37 | \$2.49 | \$2.62 | \$2.76 | \$88.98 |
| Ameren Corporation | AEE | (\$46.40) | \$0.00 | \$0.86 | \$1.76 | \$1.94 | \$2.02 | \$2.15 | \$2.28 | \$2.43 | \$2.58 | \$2.74 | \$2.91 | \$3.06 | \$3.22 | \$3.40 | \$3.58 | \$3.77 | \$121.24 |
| American Electric Power Company, Inc. | AEP | (\$61.54) | \$0.00 | \$1.21 | \$2.45 | \$2.82 | \$2.97 | \$3.11 | \$3.25 | \$3.41 | \$3.58 | \$3.76 | \$3.96 | \$4.17 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$165.09 |
| Avista Corporation | AVA | (\$37.83) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$39.10) | \$0.00 | \$0.64 | \$1.31 | \$1.52 | \$1.61 | \$1.73 | \$1.86 | \$2.00 | \$2.14 | \$2.29 | \$2.44 | \$2.57 | \$2.71 | \$2.85 | \$3.00 | \$3.16 | \$101.74 |
| DTE Energy Company | DTE | (\$85.80) | \$0.00 | \$1.49 | \$3.03 | \$3.38 | \$3.53 | \$3.78 | \$4.04 | \$4.33 | \$4.63 | \$4.95 | \$5.29 | \$5.57 | \$5.87 | \$6.18 | \$6.51 | \$6.85 | \$220.59 |
| El Paso Electric Company | EE | (\$41.72) | \$0.00 | \$0.64 | \$1.30 | \$1.52 | \$1.61 | \$1.72 | \$1.85 | \$1.98 | \$2.11 | \$2.26 | \$2.42 | \$2.54 | \$2.68 | \$2.82 | \$2.97 | \$3.13 | \$100.75 |
| Entergy Corporation | ETR | (\$72.44) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$54.15) | \$0.00 | \$0.88 | \$1.81 | \$2.03 | \$2.14 | \$2.32 | \$2.51 | \$2.72 | \$2.93 | \$3.17 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.20 | \$4.42 | \$142.23 |
| FirstEnergy Corp. | FE | (\$33.04) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$70.82) | \$0.00 | \$1.07 | \$2.17 | \$2.60 | \$2.78 | \$2.94 | \$3.13 | \$3.33 | \$3.55 | \$3.79 | \$4.07 | \$4.28 | \$4.51 | \$4.75 | \$5.00 | \$5.27 | \$169.63 |
| MGE Energy, Inc. | MGEE | (\$48.29) | \$0.00 | \$0.61 | \$1.25 | \$1.20 | \$1.18 | \$1.36 | \$1.55 | \$1.75 | \$1.97 | \$2.21 | \$2.47 | \$2.60 | \$2.74 | \$2.88 | \$3.04 | \$3.20 | \$102.97 |
| NorthWestern Corporation | NWE | (\$57.21) | \$0.00 | \$1.00 | \$2.04 | \$2.17 | \$2.24 | \$2.41 | \$2.60 | \$2.80 | \$3.01 | \$3.23 | \$3.47 | \$3.66 | \$3.85 | \$4.06 | \$4.28 | \$4.50 | \$144.96 |
| OGE Energy Corp. | OGE | (\$27.72) | \$0.00 | \$0.59 | \$1.20 | \$1.38 | \$1.45 | \$1.50 | \$1.56 | \$1.62 | \$1.69 | \$1.76 | \$1.84 | \$1.94 | \$2.04 | \$2.15 | \$2.27 | \$2.39 | \$76.79 |
| Otter Tail Corporation | OTTR | (\$28.17) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$69.12) | \$0.00 | \$1.31 | \$2.66 | \$2.96 | \$3.09 | \$3.23 | \$3.39 | \$3.56 | \$3.75 | \$3.96 | \$4.19 | \$4.41 | \$4.65 | \$4.90 | \$5.16 | \$5.43 | \$174.86 |
| PNM Resources, Inc. | PNM | (\$31.32) | \$0.00 | \$0.46 | \$0.95 | \$1.23 | \$1.35 | \$1.51 | \$1.68 | \$1.86 | \$2.04 | \$2.23 | \$2.42 | \$2.55 | \$2.68 | \$2.83 | \$2.98 | \$3.13 | \$100.88 |
| Portland General Electric Company | POR | (\$38.74) | \$0.00 | \$0.61 | \$1.25 | \$1.45 | \$1.54 | \$1.69 | \$1.84 | \$2.01 | \$2.18 | \$2.37 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$106.83 |
| SCANA Corporation | SCG | (\$64.86) | \$0.00 | \$1.19 | \$2.42 | \$2.77 | \$2.93 | \$3.14 | \$3.36 | \$3.60 | \$3.85 | \$4.13 | \$4.43 | \$4.66 | \$4.91 | \$5.17 | \$5.45 | \$5.74 | \$184.65 |
| Wisconsin Energy Corporation | WEC | (\$55.89) | \$0.00 | \$0.85 | \$1.75 | \$2.01 | \$2.13 | \$2.26 | \$2.40 | \$2.54 | \$2.68 | \$2.83 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$124.28 |
| Xcel Energy Inc. | XEL | (\$38.85) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.72 | \$1.83 | \$1.95 | \$2.07 | \$2.20 | \$2.34 | \$2.49 | \$2.62 | \$2.76 | \$2.91 | \$3.06 | \$3.23 | \$103.90 |

Docket No. 160021-EI

| Inputs |  | [1] | Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 30 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | $\frac{\text { [2] } \frac{[3]}{\text { EPS Growth F }}}{\text { [10 }}$ |  | [4] | [5] | [6] | [7] | [8] <br> Payout Ratio | [9] | [10] | [11] | [12] | [13] |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
| Company | Ticker | Price | Zacks | First Call | Value Line | $\begin{gathered} \text { Low } \\ \text { Growth } \end{gathered}$ |  |  |  |  |  |  |  |  |
| ALLETE, Inc. | ALE | \$59.67 | 5.50\% | 5.00\% | 4.00\% | 4.00\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | \$0.00 | 10.14\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$38.20 | 6.10\% | 6.60\% | 6.00\% | 6.00\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 9.01\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$50.12 | 6.10\% | $5.20 \%$ | 6.00\% | 5.20\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 9.26\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$66.05 | 4.90\% | 4.10\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | \$0.00 | 9.80\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$41.65 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 8.70\% | 20.86 | 3.92 |
| CMS Energy Corporation | CMS | \$42.95 | 6.40\% | 7.24\% | 6.00\% | 6.00\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 8.97\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$92.91 | 5.80\% | 5.35\% | 5.00\% | 5.00\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.13\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$45.30 | 6.70\% | 7.00\% | 2.50\% | 2.50\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 7.00\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$77.45 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 12.50\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$56.36 | 6.30\% | 5.49\% | 6.00\% | 5.49\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 9.55\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$33.34 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.37\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$74.50 | 4.00\% | 4.00\% | 3.00\% | 3.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 8.55\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$53.30 | NA | 4.00\% | 7.00\% | 4.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 6.35\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$59.68 | 5.00\% | 5.00\% | 6.50\% | 5.00\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 9.24\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$30.95 | 5.20\% | 4.30\% | 3.00\% | 3.00\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 9.31\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$30.96 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 10.39\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$75.82 | 4.00\% | 3.73\% | 4.00\% | 3.73\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | \$0.00 | 9.13\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$33.49 | 7.60\% | 8.76\% | 9.00\% | 7.60\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 10.70\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$41.86 | 6.40\% | 6.57\% | 5.50\% | 5.50\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 9.44\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$71.01 | 5.30\% | $5.40 \%$ | 4.50\% | 4.50\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | \$0.00 | 9.82\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$61.68 | 6.30\% | 6.77\% | 6.00\% | 6.00\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 7.75\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$42.20 | 5.30\% | 5.27\% | 5.50\% | $5.27 \%$ | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 9.67\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.44\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 13.37\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 6.35\% |  |  |



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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.32 | \$2.39 | \$2.45 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$147.04 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.20 | \$1.26 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$84.81 |
| Ameren Corporation | AEE |  | \$1.70 | \$1.76 | \$1.83 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$112.83 |
| American Electric Power Company, Inc. | AEP |  | \$2.39 | \$2.51 | \$2.65 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$156.18 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$94.84 |
| DTE Energy Company | DTE |  | \$2.94 | \$3.07 | \$3.19 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$207.98 |
| El Paso Electric Company | EE |  | \$1.23 | \$1.27 | \$1.31 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$79.22 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.75 | \$1.83 | \$1.91 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$133.58 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.11 | \$2.25 | \$2.39 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$156.61 |
| MGE Energy, Inc. | MGEE |  | \$1.20 | \$1.18 | \$1.16 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$89.62 |
| NorthWestern Corporation | NWE |  | \$1.98 | \$2.03 | \$2.08 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$135.54 |
| OGE Energy Corp. | OGE |  | \$1.17 | \$1.21 | \$1.26 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$68.39 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.60 | \$2.71 | \$2.82 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$167.25 |
| PNM Resources, Inc. | PNM |  | \$0.90 | \$0.99 | \$1.08 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$92.10 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.27 | \$1.34 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$98.80 |
| SCANA Corporation | SCG |  | \$2.35 | \$2.47 | \$2.59 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$171.81 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.78 | \$1.88 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$117.42 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$100.06 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$59.67) | \$0.00 | \$1.17 | \$2.37 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$151.76 |
| Alliant Energy Corporation | LNT | (\$38.20) | \$0.00 | \$0.58 | \$1.18 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$87.53 |
| Ameren Corporation | AEE | (\$50.12) | \$0.00 | \$0.86 | \$1.75 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$116.45 |
| American Electric Power Company, Inc. | AEP | (\$66.05) | \$0.00 | \$1.20 | \$2.44 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$161.18 |
| Avista Corporation | AVA | (\$41.65) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$42.95) | \$0.00 | \$0.64 | \$1.30 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$97.88 |
| DTE Energy Company | DTE | (\$92.91) | \$0.00 | \$1.48 | \$3.02 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$214.65 |
| El Paso Electric Company | EE | (\$45.30) | \$0.00 | \$0.62 | \$1.24 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$81.76 |
| Entergy Corporation | ETR | (\$77.45) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$56.36) | \$0.00 | \$0.88 | \$1.79 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$137.86 |
| FirstEnergy Corp. | FE | (\$33.34) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$74.50) | \$0.00 | \$1.06 | \$2.14 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$161.64 |
| MGE Energy, Inc. | MGEE | (\$53.30) | \$0.00 | \$0.60 | \$1.22 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$92.49 |
| NorthWestern Corporation | NWE | (\$59.68) | \$0.00 | \$1.00 | \$2.03 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$139.88 |
| OGE Energy Corp. | OGE | (\$30.95) | \$0.00 | \$0.59 | \$1.18 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$70.59 |
| Otter Tail Corporation | OTTR | (\$30.96) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$75.82) | \$0.00 | \$1.31 | \$2.65 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$172.61 |
| PNM Resources, Inc. | PNM | (\$33.49) | \$0.00 | \$0.45 | \$0.93 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$95.06 |
| Portland General Electric Company | POR | (\$41.86) | \$0.00 | \$0.61 | \$1.24 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$101.97 |
| SCANA Corporation | SCG | (\$71.01) | \$0.00 | \$1.18 | \$2.40 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$177.32 |
| Wisconsin Energy Corporation | WEC | (\$61.68) | \$0.00 | \$0.85 | \$1.74 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$121.19 |
| Xcel Energy Inc. | XEL | (\$42.19) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$103.26 |

Docket No. 160021-EI

| Inputs |  | Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 90 Day Average Stock Price Low EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| Company |  |  | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  | Ticker | Price | Zacks | First Call | Value Line | Low |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$57.08 | 5.50\% | 5.00\% | 4.00\% | 4.00\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | \$0.00 | 10.56\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$36.64 | 6.10\% | 6.60\% | 6.00\% | 6.00\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 9.39\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$48.90 | 6.10\% | 5.20\% | 6.00\% | 5.20\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 9.49\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$65.03 | 4.90\% | 4.10\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | \$0.00 | 9.95\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$40.48 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 8.96\% | 20.86 | 3.92 |
| CMS Energy Corporation | CMS | \$41.70 | 6.40\% | 7.24\% | 6.00\% | 6.00\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 9.24\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$89.93 | 5.80\% | 5.35\% | 5.00\% | 5.00\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.42\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$44.56 | 6.70\% | 7.00\% | 2.50\% | 2.50\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 7.14\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$76.55 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 12.62\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$56.58 | 6.30\% | 5.49\% | 6.00\% | 5.49\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 9.51\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$34.24 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.11\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$73.58 | 4.00\% | 4.00\% | 3.00\% | 3.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 8.66\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$51.38 | NA | 4.00\% | 7.00\% | 4.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | (\$0.00) | 6.66\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$59.59 | 5.00\% | 5.00\% | 6.50\% | 5.00\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 9.25\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$29.13 | 5.20\% | 4.30\% | 3.00\% | 3.00\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 9.88\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$29.44 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 10.87\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$73.65 | 4.00\% | 3.73\% | 4.00\% | 3.73\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | \$0.00 | 9.40\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$32.94 | 7.60\% | 8.76\% | 9.00\% | 7.60\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 10.85\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$40.24 | 6.40\% | 6.57\% | 5.50\% | 5.50\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 9.80\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$69.22 | 5.30\% | 5.40\% | 4.50\% | 4.50\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 10.05\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$59.53 | 6.30\% | 6.77\% | 6.00\% | 6.00\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 8.07\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$41.15 | 5.30\% | 5.27\% | 5.50\% | 5.27\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 9.91\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 9.67\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 13.11\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 6.66\% |  |  |



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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.32 | \$2.39 | \$2.45 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$147.04 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.20 | \$1.26 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$84.81 |
| Ameren Corporation | AEE |  | \$1.70 | \$1.76 | \$1.83 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$112.83 |
| American Electric Power Company, Inc. | AEP |  | \$2.39 | \$2.51 | \$2.65 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$156.18 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$94.84 |
| DTE Energy Company | DTE |  | \$2.94 | \$3.07 | \$3.19 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$207.98 |
| El Paso Electric Company | EE |  | \$1.23 | \$1.27 | \$1.31 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$79.22 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.75 | \$1.83 | \$1.91 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$133.58 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.11 | \$2.25 | \$2.39 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$156.61 |
| MGE Energy, Inc. | MGEE |  | \$1.20 | \$1.18 | \$1.16 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$89.62 |
| NorthWestern Corporation | NWE |  | \$1.98 | \$2.03 | \$2.08 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$135.54 |
| OGE Energy Corp. | OGE |  | \$1.17 | \$1.21 | \$1.26 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$68.39 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.60 | \$2.71 | \$2.82 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$167.25 |
| PNM Resources, Inc. | PNM |  | \$0.90 | \$0.99 | \$1.08 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$92.10 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.27 | \$1.34 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$98.80 |
| SCANA Corporation | SCG |  | \$2.35 | \$2.47 | \$2.59 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$171.81 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.78 | \$1.88 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$117.42 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$100.06 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$57.08) | \$0.00 | \$1.17 | \$2.37 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$151.76 |
| Alliant Energy Corporation | LNT | (\$36.64) | \$0.00 | \$0.58 | \$1.18 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$87.53 |
| Ameren Corporation | AEE | (\$48.89) | \$0.00 | \$0.86 | \$1.75 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$116.45 |
| American Electric Power Company, Inc. | AEP | (\$65.03) | \$0.00 | \$1.20 | \$2.44 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$161.18 |
| Avista Corporation | AVA | (\$40.48) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$41.70) | \$0.00 | \$0.64 | \$1.30 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$97.88 |
| DTE Energy Company | DTE | (\$89.93) | \$0.00 | \$1.48 | \$3.02 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$214.65 |
| El Paso Electric Company | EE | (\$44.56) | \$0.00 | \$0.62 | \$1.24 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$81.76 |
| Entergy Corporation | ETR | (\$76.55) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$56.58) | \$0.00 | \$0.88 | \$1.79 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$137.86 |
| FirstEnergy Corp. | FE | (\$34.24) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$73.58) | \$0.00 | \$1.06 | \$2.14 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$161.64 |
| MGE Energy, Inc. | MGEE | (\$51.38) | \$0.00 | \$0.60 | \$1.22 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$92.49 |
| NorthWestern Corporation | NWE | (\$59.59) | \$0.00 | \$1.00 | \$2.03 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$139.88 |
| OGE Energy Corp. | OGE | (\$29.13) | \$0.00 | \$0.59 | \$1.18 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$70.59 |
| Otter Tail Corporation | OTTR | (\$29.44) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$73.65) | \$0.00 | \$1.31 | \$2.65 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$172.61 |
| PNM Resources, Inc. | PNM | (\$32.94) | \$0.00 | \$0.45 | \$0.93 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$95.06 |
| Portland General Electric Company | POR | (\$40.24) | \$0.00 | \$0.61 | \$1.24 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$101.97 |
| SCANA Corporation | SCG | (\$69.22) | \$0.00 | \$1.18 | \$2.40 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$177.32 |
| Wisconsin Energy Corporation | WEC | (\$59.53) | \$0.00 | \$0.85 | \$1.74 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$121.19 |
| Xcel Energy Inc. | XEL | (\$41.15) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$103.26 |

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Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E
180 Day Average Stock Price
180 Day Average Stock Price
Low EPS Growth Rate Estimate in First Stage

| Inputs |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Stock | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
|  |  |  |  |  |  | Low |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Zacks | First Call | Value Line | Growth | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$54.07 | 5.50\% | 5.00\% | 4.00\% | 4.00\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 11.08\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$33.83 | 6.10\% | 6.60\% | 6.00\% | 6.00\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 10.13\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$46.40 | 6.10\% | $5.20 \%$ | 6.00\% | 5.20\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 9.98\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$61.54 | 4.90\% | 4.10\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 10.48\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$37.83 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 9.59\% | 20.86 | 3.92 |
| CMS Energy Corporation | CMS | \$39.10 | 6.40\% | 7.24\% | 6.00\% | 6.00\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 9.83\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$85.80 | 5.80\% | 5.35\% | 5.00\% | 5.00\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.86\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$41.72 | 6.70\% | 7.00\% | 2.50\% | 2.50\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 7.72\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$72.44 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 13.18\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$54.15 | 6.30\% | 5.49\% | 6.00\% | 5.49\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 9.92\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$33.04 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.46\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$70.82 | 4.00\% | 4.00\% | 3.00\% | 3.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 9.01\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$48.29 | NA | 4.00\% | 7.00\% | 4.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | \$0.00 | 7.19\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$57.21 | 5.00\% | 5.00\% | 6.50\% | 5.00\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 9.63\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$27.72 | 5.20\% | 4.30\% | 3.00\% | 3.00\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 10.36\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$28.18 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 11.30\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$69.12 | 4.00\% | 3.73\% | 4.00\% | 3.73\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | (\$0.00) | 10.00\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$31.32 | 7.60\% | 8.76\% | 9.00\% | 7.60\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 11.32\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$38.74 | 6.40\% | 6.57\% | 5.50\% | 5.50\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 10.16\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$64.86 | 5.30\% | 5.40\% | 4.50\% | 4.50\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 10.67\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$55.89 | 6.30\% | 6.77\% | 6.00\% | 6.00\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 8.64\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$38.85 | 5.30\% | 5.27\% | 5.50\% | 5.27\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 10.45\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 10.18\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX MIN | $\begin{aligned} & 13.46 \% \\ & 7.19 \% \end{aligned}$ |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.52 | \$3.66 | \$3.80 | \$3.95 | \$4.11 | \$4.29 | \$4.48 | \$4.68 | \$4.91 | \$5.16 | \$5.44 | \$5.73 | \$6.03 | \$6.35 | \$6.69 | \$7.05 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.79 | \$1.90 | \$2.01 | \$2.13 | \$2.26 | \$2.39 | \$2.53 | \$2.68 | \$2.82 | \$2.98 | \$3.14 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$4.07 |
| Ameren Corporation | AEE | \$2.38 | \$2.50 | \$2.63 | \$2.77 | \$2.92 | \$3.07 | \$3.23 | \$3.40 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 | \$5.14 | \$5.41 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.73 | \$3.88 | \$4.04 | \$4.20 | \$4.37 | \$4.55 | \$4.75 | \$4.98 | \$5.22 | \$5.49 | \$5.78 | \$6.08 | \$6.41 | \$6.75 | \$7.11 | \$7.49 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.00 | \$2.12 | \$2.25 | \$2.39 | \$2.53 | \$2.68 | \$2.83 | \$2.99 | \$3.16 | \$3.33 | \$3.51 | \$3.69 | \$3.89 | \$4.10 | \$4.32 | \$4.55 |
| DTE Energy Company | DTE | \$4.45 | \$4.67 | \$4.91 | \$5.15 | \$5.41 | \$5.68 | \$5.97 | \$6.27 | \$6.59 | \$6.94 | \$7.30 | \$7.69 | \$8.10 | \$8.53 | \$8.99 | \$9.47 | \$9.97 |
| EI Paso Electric Company | EE | \$2.03 | \$2.08 | \$2.13 | \$2.19 | \$2.24 | \$2.30 | \$2.36 | \$2.45 | \$2.54 | \$2.65 | \$2.78 | \$2.93 | \$3.09 | \$3.25 | \$3.42 | \$3.61 | \$3.80 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.91 | \$3.07 | \$3.24 | \$3.42 | \$3.61 | \$3.80 | \$4.01 | \$4.23 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.48 | \$5.77 | \$6.08 | \$6.40 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$3.99 | \$4.11 | \$4.23 | \$4.36 | \$4.49 | \$4.64 | \$4.81 | \$5.01 | \$5.24 | \$5.50 | \$5.79 | \$6.10 | \$6.43 | \$6.77 | \$7.13 | \$7.51 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.14 | \$2.23 | \$2.32 | \$2.41 | \$2.51 | \$2.61 | \$2.73 | \$2.86 | \$2.99 | \$3.15 | \$3.31 | \$3.49 | \$3.68 | \$3.87 | \$4.08 | \$4.30 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.05 | \$3.20 | \$3.36 | \$3.52 | \$3.70 | \$3.89 | \$4.09 | \$4.30 | \$4.52 | \$4.76 | \$5.01 | \$5.28 | \$5.56 | \$5.86 | \$6.17 | \$6.50 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.74 | \$1.79 | \$1.85 | \$1.90 | \$1.96 | \$2.03 | \$2.10 | \$2.19 | \$2.29 | \$2.40 | \$2.53 | \$2.66 | \$2.81 | \$2.96 | \$3.11 | \$3.28 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.07 | \$4.22 | \$4.38 | \$4.54 | \$4.71 | \$4.90 | \$5.10 | \$5.34 | \$5.59 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 | \$7.61 | \$8.02 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.76 | \$1.90 | \$2.04 | \$2.20 | \$2.37 | \$2.54 | \$2.71 | \$2.88 | \$3.06 | \$3.23 | \$3.41 | \$3.59 | \$3.78 | \$3.98 | \$4.19 | \$4.42 |
| Portland General Electric Company | POR | \$2.04 | \$2.15 | \$2.27 | \$2.40 | \$2.53 | \$2.67 | \$2.81 | \$2.97 | \$3.13 | \$3.29 | \$3.47 | \$3.65 | \$3.85 | \$4.05 | \$4.27 | \$4.50 | \$4.74 |
| SCANA Corporation | SCG | \$3.81 | \$3.98 | \$4.16 | \$4.35 | \$4.54 | \$4.75 | \$4.97 | \$5.21 | \$5.46 | \$5.74 | \$6.03 | \$6.36 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$8.24 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.95 | \$3.13 | \$3.32 | \$3.51 | \$3.71 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.82 | \$5.07 | \$5.34 | \$5.63 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$3.34 | \$3.51 | \$3.70 | \$3.90 | \$4.11 | \$4.32 | \$4.55 | \$4.80 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.32 | \$2.39 | \$2.45 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$147.04 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.20 | \$1.26 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$84.81 |
| Ameren Corporation | AEE |  | \$1.70 | \$1.76 | \$1.83 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$112.83 |
| American Electric Power Company, Inc. | AEP |  | \$2.39 | \$2.51 | \$2.65 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$156.18 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.26 | \$1.33 | \$1.41 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$94.84 |
| DTE Energy Company | DTE |  | \$2.94 | \$3.07 | \$3.19 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$207.98 |
| El Paso Electric Company | EE |  | \$1.23 | \$1.27 | \$1.31 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$79.22 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.75 | \$1.83 | \$1.91 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$133.58 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.11 | \$2.25 | \$2.39 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$156.61 |
| MGE Energy, Inc. | MGEE |  | \$1.20 | \$1.18 | \$1.16 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$89.62 |
| NorthWestern Corporation | NWE |  | \$1.98 | \$2.03 | \$2.08 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$135.54 |
| OGE Energy Corp. | OGE |  | \$1.17 | \$1.21 | \$1.26 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$68.39 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.60 | \$2.71 | \$2.82 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$167.25 |
| PNM Resources, Inc. | PNM |  | \$0.90 | \$0.99 | \$1.08 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$92.10 |
| Portland General Electric Company | POR |  | \$1.21 | \$1.27 | \$1.34 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$98.80 |
| SCANA Corporation | SCG |  | \$2.35 | \$2.47 | \$2.59 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$171.81 |
| Wisconsin Energy Corporation | WEC |  | \$1.69 | \$1.78 | \$1.88 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$117.42 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.45 | \$1.53 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$100.06 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outfow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$54.07) | \$0.00 | \$1.17 | \$2.37 | \$2.52 | \$2.59 | \$2.73 | \$2.88 | \$3.04 | \$3.22 | \$3.42 | \$3.64 | \$3.83 | \$4.04 | \$4.25 | \$4.48 | \$4.71 | \$151.76 |
| Alliant Energy Corporation | LNT | (\$33.83) | \$0.00 | \$0.58 | \$1.18 | \$1.32 | \$1.38 | \$1.48 | \$1.59 | \$1.71 | \$1.83 | \$1.96 | \$2.10 | \$2.21 | \$2.33 | \$2.45 | \$2.58 | \$2.72 | \$87.53 |
| Ameren Corporation | AEE | (\$46.40) | \$0.00 | \$0.86 | \$1.75 | \$1.89 | \$1.96 | \$2.08 | \$2.21 | \$2.34 | \$2.48 | \$2.63 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$3.43 | \$3.62 | \$116.45 |
| American Electric Power Company, Inc. | AEP | (\$61.54) | \$0.00 | \$1.20 | \$2.44 | \$2.78 | \$2.93 | \$3.05 | \$3.18 | \$3.33 | \$3.49 | \$3.67 | \$3.86 | \$4.07 | \$4.29 | \$4.51 | \$4.75 | \$5.01 | \$161.18 |
| Avista Corporation | AVA | (\$37.83) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$39.10) | \$0.00 | \$0.64 | \$1.30 | \$1.49 | \$1.57 | \$1.68 | \$1.80 | \$1.93 | \$2.06 | \$2.20 | \$2.35 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.04 | \$97.88 |
| DTE Energy Company | DTE | (\$85.80) | \$0.00 | \$1.48 | \$3.02 | \$3.33 | \$3.46 | \$3.70 | \$3.95 | \$4.22 | \$4.50 | \$4.81 | \$5.15 | \$5.42 | \$5.71 | \$6.01 | \$6.33 | \$6.67 | \$214.65 |
| El Paso Electric Company | EE | (\$41.72) | \$0.00 | \$0.62 | \$1.24 | \$1.36 | \$1.40 | \$1.47 | \$1.54 | \$1.63 | \$1.72 | \$1.83 | \$1.96 | \$2.06 | \$2.17 | \$2.29 | \$2.41 | \$2.54 | \$81.76 |
| Entergy Corporation | ETR | (\$72.44) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$54.15) | \$0.00 | \$0.88 | \$1.79 | \$2.00 | \$2.09 | \$2.26 | \$2.44 | \$2.64 | \$2.85 | \$3.07 | \$3.30 | \$3.48 | \$3.67 | \$3.86 | \$4.07 | \$4.28 | \$137.86 |
| FirstEnergy Corp. | FE | (\$33.04) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$70.82) | \$0.00 | \$1.06 | \$2.14 | \$2.54 | \$2.69 | \$2.84 | \$3.00 | \$3.18 | \$3.39 | \$3.62 | \$3.87 | \$4.08 | \$4.30 | \$4.53 | \$4.77 | \$5.02 | \$161.64 |
| MGE Energy, Inc. | MGEE | (\$48.29) | \$0.00 | \$0.60 | \$1.22 | \$1.13 | \$1.10 | \$1.25 | \$1.41 | \$1.58 | \$1.77 | \$1.98 | \$2.22 | \$2.34 | \$2.46 | \$2.59 | \$2.73 | \$2.87 | \$92.49 |
| NorthWestern Corporation | NWE | (\$57.21) | \$0.00 | \$1.00 | \$2.03 | \$2.13 | \$2.18 | \$2.35 | \$2.52 | \$2.71 | \$2.91 | \$3.12 | \$3.35 | \$3.53 | \$3.72 | \$3.92 | \$4.13 | \$4.35 | \$139.88 |
| OGE Energy Corp. | OGE | (\$27.72) | \$0.00 | \$0.59 | \$1.18 | \$1.32 | \$1.37 | \$1.41 | \$1.45 | \$1.50 | \$1.55 | \$1.62 | \$1.69 | \$1.78 | \$1.88 | \$1.98 | \$2.08 | \$2.19 | \$70.59 |
| Otter Tail Corporation | OTTR | (\$28.17) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$69.12) | \$0.00 | \$1.31 | \$2.65 | \$2.94 | \$3.06 | \$3.20 | \$3.35 | \$3.52 | \$3.70 | \$3.91 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$172.61 |
| PNM Resources, Inc. | PNM | (\$31.32) | \$0.00 | \$0.45 | \$0.93 | \$1.19 | \$1.30 | \$1.45 | \$1.60 | \$1.76 | \$1.93 | \$2.10 | \$2.28 | \$2.40 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$95.06 |
| Portland General Electric Company | POR | (\$38.74) | \$0.00 | \$0.61 | \$1.24 | \$1.42 | \$1.49 | \$1.63 | \$1.77 | \$1.92 | \$2.08 | \$2.26 | \$2.44 | \$2.57 | \$2.71 | \$2.86 | \$3.01 | \$3.17 | \$101.97 |
| SCANA Corporation | SCG | (\$64.86) | \$0.00 | \$1.18 | \$2.40 | \$2.71 | \$2.85 | \$3.04 | \$3.24 | \$3.46 | \$3.71 | \$3.97 | \$4.25 | \$4.48 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$177.32 |
| Wisconsin Energy Corporation | WEC | (\$55.89) | \$0.00 | \$0.85 | \$1.74 | \$1.99 | \$2.10 | \$2.22 | \$2.35 | \$2.48 | \$2.62 | \$2.76 | \$2.90 | \$3.06 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$121.19 |
| Xcel Energy Inc. | XEL | (\$38.85) | \$0.00 | \$0.69 | \$1.41 | \$1.62 | \$1.71 | \$1.82 | \$1.93 | \$2.06 | \$2.19 | \$2.33 | \$2.48 | \$2.61 | \$2.75 | \$2.89 | \$3.05 | \$3.21 | \$103.26 |

Docket No. 160021-EI

| Inputs |  | Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 30 Day Average Stock Price High EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\frac{[1]}{} \frac{{ }^{[1]}}{}$ | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] | [13] |
|  |  |  | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | Terminal |
| Company | Ticker | Price | Zacks | First Call | Value Line | High Growth |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$59.67 | 5.50\% | 5.00\% | 4.00\% | 5.50\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 11.08\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$38.20 | 6.10\% | 6.60\% | 6.00\% | 6.60\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 9.37\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$50.12 | 6.10\% | 5.20\% | 6.00\% | 6.10\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 9.81\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$66.05 | 4.90\% | 4.10\% | 4.00\% | 4.90\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 10.37\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$41.65 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 8.70\% | 20.86 | 3.92 |
| CMS Energy Corporation | CMS | \$42.95 | 6.40\% | 7.24\% | 6.00\% | 7.24\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 9.72\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$92.91 | 5.80\% | 5.35\% | 5.00\% | 5.80\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.61\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$45.30 | 6.70\% | 7.00\% | 2.50\% | 7.00\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 9.69\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$77.45 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 12.50\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$56.36 | 6.30\% | 5.49\% | 6.00\% | 6.30\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 10.04\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$33.34 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.37\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$74.50 | 4.00\% | 4.00\% | 3.00\% | 4.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 9.16\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$53.30 | NA | 4.00\% | 7.00\% | 7.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | \$0.00 | 8.07\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$59.68 | 5.00\% | 5.00\% | 6.50\% | 6.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 10.15\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$30.95 | 5.20\% | 4.30\% | 3.00\% | 5.20\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 10.69\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$30.96 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 10.39\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$75.82 | 4.00\% | 3.73\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | \$0.00 | 9.30\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$33.49 | 7.60\% | 8.76\% | 9.00\% | 9.00\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 11.54\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$41.86 | 6.40\% | 6.57\% | 5.50\% | 6.57\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 10.09\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$71.01 | 5.30\% | 5.40\% | 4.50\% | 5.40\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 10.37\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$61.68 | 6.30\% | 6.77\% | 6.00\% | 6.77\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 8.20\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$42.20 | 5.30\% | 5.27\% | 5.50\% | 5.50\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 9.81\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 10.09\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 13.37\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 8.07\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.57 | \$3.76 | \$3.97 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$5.18 | \$5.46 | \$5.75 | \$6.06 | \$6.38 | \$6.72 | \$7.07 | \$7.45 | \$7.85 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.92 | \$2.05 | \$2.18 | \$2.33 | \$2.47 | \$2.63 | \$2.78 | \$2.94 | \$3.11 | \$3.27 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.24 |
| Ameren Corporation | AEE | \$2.38 | \$2.53 | \$2.68 | \$2.84 | \$3.02 | \$3.20 | \$3.39 | \$3.59 | \$3.79 | \$4.01 | \$4.22 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.47 | \$5.77 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.77 | \$3.95 | \$4.14 | \$4.35 | \$4.56 | \$4.79 | \$5.03 | \$5.29 | \$5.56 | \$5.85 | \$6.16 | \$6.49 | \$6.84 | \$7.20 | \$7.58 | \$7.99 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.03 | \$2.17 | \$2.33 | \$2.50 | \$2.68 | \$2.87 | \$3.06 | \$3.25 | \$3.44 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| DTE Energy Company | DTE | \$4.45 | \$4.71 | \$4.98 | \$5.27 | \$5.58 | \$5.90 | \$6.24 | \$6.59 | \$6.95 | \$7.34 | \$7.73 | \$8.14 | \$8.58 | \$9.03 | \$9.51 | \$10.02 | \$10.55 |
| El Paso Electric Company | EE | \$2.03 | \$2.17 | \$2.32 | \$2.49 | \$2.66 | \$2.85 | \$3.04 | \$3.23 | \$3.43 | \$3.64 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.72 | \$4.98 | \$5.24 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.93 | \$3.12 | \$3.32 | \$3.52 | \$3.75 | \$3.98 | \$4.21 | \$4.46 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.78 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.02 | \$4.19 | \$4.35 | \$4.53 | \$4.71 | \$4.91 | \$5.13 | \$5.36 | \$5.63 | \$5.91 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.66 | \$8.07 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.20 | \$2.36 | \$2.52 | \$2.70 | \$2.89 | \$3.08 | \$3.28 | \$3.48 | \$3.69 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.79 | \$5.05 | \$5.32 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.09 | \$3.29 | \$3.50 | \$3.73 | \$3.97 | \$4.22 | \$4.48 | \$4.75 | \$5.02 | \$5.29 | \$5.58 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.78 | \$1.87 | \$1.97 | \$2.07 | \$2.18 | \$2.29 | \$2.41 | \$2.54 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$3.65 | \$3.84 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.08 | \$4.24 | \$4.41 | \$4.59 | \$4.77 | \$4.97 | \$5.19 | \$5.43 | \$5.70 | \$5.99 | \$6.31 | \$6.64 | \$7.00 | \$7.37 | \$7.76 | \$8.18 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.79 | \$1.95 | \$2.12 | \$2.31 | \$2.52 | \$2.73 | \$2.95 | \$3.16 | \$3.37 | \$3.57 | \$3.76 | \$3.95 | \$4.17 | \$4.39 | \$4.62 | \$4.87 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.32 | \$2.47 | \$2.63 | \$2.80 | \$2.98 | \$3.17 | \$3.35 | \$3.55 | \$3.74 | \$3.94 | \$4.15 | \$4.37 | \$4.61 | \$4.85 | \$5.11 |
| SCANA Corporation | SCG | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.43 | \$6.78 | \$7.14 | \$7.52 | \$7.92 | \$8.34 | \$8.78 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.50 | \$2.67 | \$2.85 | \$3.04 | \$3.25 | \$3.46 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$5.64 | \$5.94 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.22 | \$2.34 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.35 | \$2.45 | \$2.56 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$163.70 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.28 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$88.48 |
| Ameren Corporation | AEE |  | \$1.72 | \$1.80 | \$1.88 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$120.28 |
| American Electric Power Company, Inc. | AEP |  | \$2.41 | \$2.56 | \$2.71 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$166.59 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.28 | \$1.36 | \$1.46 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$103.50 |
| DTE Energy Company | DTE |  | \$2.97 | \$3.11 | \$3.27 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$220.16 |
| El Paso Electric Company | EE |  | \$1.28 | \$1.38 | \$1.49 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$109.31 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.76 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$141.47 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$168.36 |
| MGE Energy, Inc. | MGEE |  | \$1.23 | \$1.25 | \$1.26 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$110.93 |
| NorthWestern Corporation | NWE |  | \$2.01 | \$2.09 | \$2.17 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$150.76 |
| OGE Energy Corp. | OGE |  | \$1.19 | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$80.12 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$170.53 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.01 | \$1.13 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$101.51 |
| Portland General Electric Company | POR |  | \$1.22 | \$1.30 | \$1.38 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$106.58 |
| SCANA Corporation | SCG |  | \$2.37 | \$2.51 | \$2.65 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$183.22 |
| Wisconsin Energy Corporation | WEC |  | \$1.70 | \$1.81 | \$1.92 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$123.98 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$101.71 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$59.67) | \$0.00 | \$1.19 | \$2.42 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$168.95 |
| Alliant Energy Corporation | LNT | (\$38.20) | \$0.00 | \$0.58 | \$1.19 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$91.31 |
| Ameren Corporation | AEE | (\$50.12) | \$0.00 | \$0.87 | \$1.77 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$124.14 |
| American Electric Power Company, Inc. | AEP | (\$66.05) | \$0.00 | \$1.21 | \$2.47 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$171.93 |
| Avista Corporation | AVA | (\$41.65) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$42.95) | \$0.00 | \$0.64 | \$1.32 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$106.82 |
| DTE Energy Company | DTE | (\$92.91) | \$0.00 | \$1.50 | \$3.05 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$227.22 |
| El Paso Electric Company | EE | (\$45.30) | \$0.00 | \$0.65 | \$1.33 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$112.82 |
| Entergy Corporation | ETR | (\$77.45) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$56.36) | \$0.00 | \$0.89 | \$1.82 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$146.01 |
| FirstEnergy Corp. | FE | (\$33.34) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$74.50) | \$0.00 | \$1.08 | \$2.18 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$173.76 |
| MGE Energy, Inc. | MGEE | (\$53.30) | \$0.00 | \$0.62 | \$1.28 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$114.48 |
| NorthWestern Corporation | NWE | (\$59.68) | \$0.00 | \$1.01 | \$2.07 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$155.59 |
| OGE Energy Corp. | OGE | (\$30.95) | \$0.00 | \$0.60 | \$1.22 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$82.69 |
| Otter Tail Corporation | OTTR | (\$30.96) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$75.82) | \$0.00 | \$1.32 | \$2.66 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$176.00 |
| PNM Resources, Inc. | PNM | (\$33.49) | \$0.00 | \$0.46 | \$0.95 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$104.77 |
| Portland General Electric Company | POR | (\$41.86) | \$0.00 | \$0.61 | \$1.26 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$109.99 |
| SCANA Corporation | SCG | (\$71.01) | \$0.00 | \$1.19 | \$2.43 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$189.09 |
| Wisconsin Energy Corporation | WEC | (\$61.68) | \$0.00 | \$0.86 | \$1.76 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$127.96 |
| Xcel Energy Inc. | XEL | (\$42.19) | \$0.00 | \$0.69 | \$1.41 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$104.97 |

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| Inputs |  | Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E 90 Day Average Stock Price High EPS Growth Rate Estimate in First Stage |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{gathered} {[1]} \\ \hline \text { Stock } \end{gathered}$ | [2] | [3] | [4] | [5] | [6] | [7] | [8] | [9] | [10] | [11] | [12] |  |
|  |  |  | EPS Growth Rate Estimates |  |  |  | Long-Term | Payout Ratio |  |  | Iterative Solution |  | Terminal | $\frac{\text { Terminal }}{}$ |
| Company | Ticker | Price | Zacks | First Call | Value Line | High Growth |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Growth | 2016 | 2020 | 2026 | Proof | IRR | P/E Ratio | PEG Ratio |
| ALLETE, Inc. | ALE | \$57.08 | 5.50\% | 5.00\% | 4.00\% | 5.50\% | 5.32\% | 66.00\% | 63.00\% | 66.88\% | (\$0.00) | 11.51\% | 20.86 | 3.92 |
| Alliant Energy Corporation | LNT | \$36.64 | 6.10\% | 6.60\% | 6.00\% | 6.60\% | 5.32\% | 64.00\% | 61.00\% | 66.88\% | \$0.00 | 9.75\% | 20.86 | 3.92 |
| Ameren Corporation | AEE | \$48.90 | 6.10\% | 5.20\% | 6.00\% | 6.10\% | 5.32\% | 68.00\% | 64.00\% | 66.88\% | \$0.00 | 10.04\% | 20.86 | 3.92 |
| American Electric Power Company, Inc. | AEP | \$65.03 | 4.90\% | 4.10\% | 4.00\% | 4.90\% | 5.32\% | 64.00\% | 67.00\% | 66.88\% | (\$0.00) | 10.51\% | 20.86 | 3.92 |
| Avista Corporation | AVA | \$40.48 | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 5.32\% | 68.00\% | 63.00\% | 66.88\% | \$0.00 | 8.96\% | 20.86 | 3.92 |
| CMS Energy Corporation | cms | \$41.70 | 6.40\% | 7.24\% | 6.00\% | 7.24\% | 5.32\% | 63.00\% | 62.00\% | 66.88\% | \$0.00 | 9.99\% | 20.86 | 3.92 |
| DTE Energy Company | DTE | \$89.93 | 5.80\% | 5.35\% | 5.00\% | 5.80\% | 5.32\% | 63.00\% | 61.00\% | 66.88\% | (\$0.00) | 9.91\% | 20.86 | 3.92 |
| El Paso Electric Company | EE | \$44.56 | 6.70\% | 7.00\% | 2.50\% | 7.00\% | 5.32\% | 59.00\% | 61.00\% | 66.88\% | \$0.00 | 9.84\% | 20.86 | 3.92 |
| Entergy Corporation | ETR | \$76.55 | NA | NA | 3.50\% | 3.50\% | 5.32\% | 67.00\% | 59.00\% | 66.88\% | (\$0.00) | 12.62\% | 20.86 | 3.92 |
| Eversource Energy | ES | \$56.58 | 6.30\% | 5.49\% | 6.00\% | 6.30\% | 5.32\% | 60.00\% | 58.00\% | 66.88\% | \$0.00 | 10.00\% | 20.86 | 3.92 |
| FirstEnergy Corp. | FE | \$34.24 | NA | NA | 9.00\% | 9.00\% | 5.32\% | 55.00\% | 48.00\% | 66.88\% | \$0.00 | 13.11\% | 20.86 | 3.92 |
| IDACORP, Inc. | IDA | \$73.58 | 4.00\% | 4.00\% | 3.00\% | 4.00\% | 5.32\% | 53.00\% | 60.00\% | 66.88\% | \$0.00 | 9.27\% | 20.86 | 3.92 |
| MGE Energy, Inc. | MGEE | \$51.38 | NA | 4.00\% | 7.00\% | 7.00\% | 5.32\% | 56.00\% | 44.00\% | 66.88\% | \$0.00 | 8.39\% | 20.86 | 3.92 |
| NorthWestern Corporation | NWE | \$59.59 | 5.00\% | 5.00\% | 6.50\% | 6.50\% | 5.32\% | 65.00\% | 59.00\% | 66.88\% | \$0.00 | 10.16\% | 20.86 | 3.92 |
| OGE Energy Corp. | OGE | \$29.13 | 5.20\% | 4.30\% | 3.00\% | 5.20\% | 5.32\% | 67.00\% | 70.00\% | 66.88\% | \$0.00 | 11.28\% | 20.86 | 3.92 |
| Otter Tail Corporation | OTTR | \$29.44 | NA | 6.00\% | 6.00\% | 6.00\% | 5.32\% | 80.00\% | 63.00\% | 66.88\% | \$0.00 | 10.87\% | 20.86 | 3.92 |
| Pinnacle West Capital Corporation | PNW | \$73.65 | 4.00\% | 3.73\% | 4.00\% | 4.00\% | 5.32\% | 64.00\% | 65.00\% | 66.88\% | \$0.00 | 9.57\% | 20.86 | 3.92 |
| PNM Resources, Inc. | PNM | \$32.94 | 7.60\% | 8.76\% | 9.00\% | 9.00\% | 5.32\% | 51.00\% | 55.00\% | 66.88\% | \$0.00 | 11.70\% | 20.86 | 3.92 |
| Portland General Electric Company | POR | \$40.24 | 6.40\% | 6.57\% | 5.50\% | 6.57\% | 5.32\% | 56.00\% | 56.00\% | 66.88\% | \$0.00 | 10.45\% | 20.86 | 3.92 |
| SCANA Corporation | SCG | \$69.22 | 5.30\% | 5.40\% | 4.50\% | 5.40\% | 5.32\% | 59.00\% | 60.00\% | 66.88\% | (\$0.00) | 10.61\% | 20.86 | 3.92 |
| Wisconsin Energy Corporation | WEC | \$59.53 | 6.30\% | 6.77\% | 6.00\% | 6.77\% | 5.32\% | 68.00\% | 67.00\% | 66.88\% | \$0.00 | 8.52\% | 20.86 | 3.92 |
| Xcel Energy Inc. | XEL | \$41.15 | 5.30\% | 5.27\% | 5.50\% | 5.50\% | 5.32\% | 62.00\% | 63.00\% | 66.88\% | \$0.00 | 10.05\% | 20.86 | 3.92 |
|  |  |  |  |  |  |  |  |  |  |  | MEAN | 10.32\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MAX | 13.11\% |  |  |
|  |  |  |  |  |  |  |  |  |  |  | MIN | 8.39\% |  |  |


| Projected Annual <br> Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.57 | \$3.76 | \$3.97 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$5.18 | \$5.46 | \$5.75 | \$6.06 | \$6.38 | \$6.72 | \$7.07 | \$7.45 | \$7.85 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.92 | \$2.05 | \$2.18 | \$2.33 | \$2.47 | \$2.63 | \$2.78 | \$2.94 | \$3.11 | \$3.27 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.24 |
| Ameren Corporation | AEE | \$2.38 | \$2.53 | \$2.68 | \$2.84 | \$3.02 | \$3.20 | \$3.39 | \$3.59 | \$3.79 | \$4.01 | \$4.22 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.47 | \$5.77 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.77 | \$3.95 | \$4.14 | \$4.35 | \$4.56 | \$4.79 | \$5.03 | \$5.29 | \$5.56 | \$5.85 | \$6.16 | \$6.49 | \$6.84 | \$7.20 | \$7.58 | \$7.99 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.03 | \$2.17 | \$2.33 | \$2.50 | \$2.68 | \$2.87 | \$3.06 | \$3.25 | \$3.44 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| DTE Energy Company | DTE | \$4.45 | \$4.71 | \$4.98 | \$5.27 | \$5.58 | \$5.90 | \$6.24 | \$6.59 | \$6.95 | \$7.34 | \$7.73 | \$8.14 | \$8.58 | \$9.03 | \$9.51 | \$10.02 | \$10.55 |
| El Paso Electric Company | EE | \$2.03 | \$2.17 | \$2.32 | \$2.49 | \$2.66 | \$2.85 | \$3.04 | \$3.23 | \$3.43 | \$3.64 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.72 | \$4.98 | \$5.24 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.93 | \$3.12 | \$3.32 | \$3.52 | \$3.75 | \$3.98 | \$4.21 | \$4.46 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.78 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.02 | \$4.19 | \$4.35 | \$4.53 | \$4.71 | \$4.91 | \$5.13 | \$5.36 | \$5.63 | \$5.91 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.66 | \$8.07 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.20 | \$2.36 | \$2.52 | \$2.70 | \$2.89 | \$3.08 | \$3.28 | \$3.48 | \$3.69 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.79 | \$5.05 | \$5.32 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.09 | \$3.29 | \$3.50 | \$3.73 | \$3.97 | \$4.22 | \$4.48 | \$4.75 | \$5.02 | \$5.29 | \$5.58 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.78 | \$1.87 | \$1.97 | \$2.07 | \$2.18 | \$2.29 | \$2.41 | \$2.54 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$3.65 | \$3.84 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.08 | \$4.24 | \$4.41 | \$4.59 | \$4.77 | \$4.97 | \$5.19 | \$5.43 | \$5.70 | \$5.99 | \$6.31 | \$6.64 | \$7.00 | \$7.37 | \$7.76 | \$8.18 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.79 | \$1.95 | \$2.12 | \$2.31 | \$2.52 | \$2.73 | \$2.95 | \$3.16 | \$3.37 | \$3.57 | \$3.76 | \$3.95 | \$4.17 | \$4.39 | \$4.62 | \$4.87 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.32 | \$2.47 | \$2.63 | \$2.80 | \$2.98 | \$3.17 | \$3.35 | \$3.55 | \$3.74 | \$3.94 | \$4.15 | \$4.37 | \$4.61 | \$4.85 | \$5.11 |
| SCANA Corporation | SCG | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.43 | \$6.78 | \$7.14 | \$7.52 | \$7.92 | \$8.34 | \$8.78 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.50 | \$2.67 | \$2.85 | \$3.04 | \$3.25 | \$3.46 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$5.64 | \$5.94 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.22 | \$2.34 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.35 | \$2.45 | \$2.56 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$163.70 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.28 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$88.48 |
| Ameren Corporation | AEE |  | \$1.72 | \$1.80 | \$1.88 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$120.28 |
| American Electric Power Company, Inc. | AEP |  | \$2.41 | \$2.56 | \$2.71 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$166.59 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.28 | \$1.36 | \$1.46 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$103.50 |
| DTE Energy Company | DTE |  | \$2.97 | \$3.11 | \$3.27 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$220.16 |
| El Paso Electric Company | EE |  | \$1.28 | \$1.38 | \$1.49 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$109.31 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.76 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$141.47 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$168.36 |
| MGE Energy, Inc. | MGEE |  | \$1.23 | \$1.25 | \$1.26 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$110.93 |
| NorthWestern Corporation | NWE |  | \$2.01 | \$2.09 | \$2.17 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$150.76 |
| OGE Energy Corp. | OGE |  | \$1.19 | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$80.12 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$170.53 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.01 | \$1.13 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$101.51 |
| Portland General Electric Company | POR |  | \$1.22 | \$1.30 | \$1.38 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$106.58 |
| SCANA Corporation | SCG |  | \$2.37 | \$2.51 | \$2.65 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$183.22 |
| Wisconsin Energy Corporation | WEC |  | \$1.70 | \$1.81 | \$1.92 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$123.98 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$101.71 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$57.08) | \$0.00 | \$1.19 | \$2.42 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$168.95 |
| Alliant Energy Corporation | LNT | (\$36.64) | \$0.00 | \$0.58 | \$1.19 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$91.31 |
| Ameren Corporation | AEE | (\$48.89) | \$0.00 | \$0.87 | \$1.77 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$124.14 |
| American Electric Power Company, Inc. | AEP | (\$65.03) | \$0.00 | \$1.21 | \$2.47 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$171.93 |
| Avista Corporation | AVA | (\$40.48) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$41.70) | \$0.00 | \$0.64 | \$1.32 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$106.82 |
| DTE Energy Company | DTE | (\$89.93) | \$0.00 | \$1.50 | \$3.05 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$227.22 |
| El Paso Electric Company | EE | (\$44.56) | \$0.00 | \$0.65 | \$1.33 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$112.82 |
| Entergy Corporation | ETR | (\$76.55) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$56.58) | \$0.00 | \$0.89 | \$1.82 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$146.01 |
| FirstEnergy Corp. | FE | (\$34.24) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$73.58) | \$0.00 | \$1.08 | \$2.18 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$173.76 |
| MGE Energy, Inc. | MGEE | (\$51.38) | \$0.00 | \$0.62 | \$1.28 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$114.48 |
| NorthWestern Corporation | NWE | (\$59.59) | \$0.00 | \$1.01 | \$2.07 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$155.59 |
| OGE Energy Corp. | OGE | (\$29.13) | \$0.00 | \$0.60 | \$1.22 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$82.69 |
| Otter Tail Corporation | OTTR | (\$29.44) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$73.65) | \$0.00 | \$1.32 | \$2.66 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$176.00 |
| PNM Resources, Inc. | PNM | (\$32.94) | \$0.00 | \$0.46 | \$0.95 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$104.77 |
| Portland General Electric Company | POR | (\$40.24) | \$0.00 | \$0.61 | \$1.26 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$109.99 |
| SCANA Corporation | SCG | (\$69.22) | \$0.00 | \$1.19 | \$2.43 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$189.09 |
| Wisconsin Energy Corporation | WEC | (\$59.53) | \$0.00 | \$0.86 | \$1.76 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$127.96 |
| Xcel Energy Inc. | XEL | (\$41.15) | \$0.00 | \$0.69 | \$1.41 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$104.97 |

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Multi-Stage Growth Discounted Cash Flow Model with Terminal P/E
180 Day Average Stock Price
High EPS Growth Rate Estimate in First Stage


| Projected Annual Earnings per Share |  | [14] | [15] | [16] | [17] | [18] | [19] | [20] | [21] | [22] | [23] | [24] | [25] | [26] | [27] | [28] | [29] | [30] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE | \$3.38 | \$3.57 | \$3.76 | \$3.97 | \$4.19 | \$4.42 | \$4.66 | \$4.91 | \$5.18 | \$5.46 | \$5.75 | \$6.06 | \$6.38 | \$6.72 | $\$ 7.07$ | \$7.45 | \$7.85 |
| Alliant Energy Corporation | LNT | \$1.69 | \$1.80 | \$1.92 | \$2.05 | \$2.18 | \$2.33 | \$2.47 | \$2.63 | \$2.78 | \$2.94 | \$3.11 | \$3.27 | \$3.45 | \$3.63 | \$3.82 | \$4.03 | \$4.24 |
| Ameren Corporation | AEE | \$2.38 | \$2.53 | \$2.68 | \$2.84 | \$3.02 | \$3.20 | \$3.39 | \$3.59 | \$3.79 | \$4.01 | \$4.22 | \$4.45 | \$4.69 | \$4.94 | \$5.20 | \$5.47 | \$5.77 |
| American Electric Power Company, Inc. | AEP | \$3.59 | \$3.77 | \$3.95 | \$4.14 | \$4.35 | \$4.56 | \$4.79 | \$5.03 | \$5.29 | \$5.56 | \$5.85 | \$6.16 | \$6.49 | \$6.84 | \$7.20 | \$7.58 | \$7.99 |
| Avista Corporation | AVA | \$1.89 | \$1.98 | \$2.08 | \$2.19 | \$2.30 | \$2.41 | \$2.53 | \$2.66 | \$2.80 | \$2.95 | \$3.10 | \$3.27 | \$3.44 | \$3.62 | \$3.82 | \$4.02 | \$4.23 |
| CMS Energy Corporation | CMS | \$1.89 | \$2.03 | \$2.17 | \$2.33 | \$2.50 | \$2.68 | \$2.87 | \$3.06 | \$3.25 | \$3.44 | \$3.64 | \$3.83 | \$4.03 | \$4.25 | \$4.47 | \$4.71 | \$4.96 |
| DTE Energy Company | DTE | \$4.45 | \$4.71 | \$4.98 | \$5.27 | \$5.58 | \$5.90 | \$6.24 | \$6.59 | \$6.95 | \$7.34 | \$7.73 | \$8.14 | \$8.58 | \$9.03 | \$9.51 | \$10.02 | \$10.55 |
| El Paso Electric Company | EE | \$2.03 | \$2.17 | \$2.32 | \$2.49 | \$2.66 | \$2.85 | \$3.04 | \$3.23 | \$3.43 | \$3.64 | \$3.84 | \$4.04 | \$4.26 | \$4.49 | \$4.72 | \$4.98 | \$5.24 |
| Entergy Corporation | ETR | \$5.81 | \$6.01 | \$6.22 | \$6.44 | \$6.67 | \$6.90 | \$7.16 | \$7.46 | \$7.79 | \$8.15 | \$8.56 | \$9.02 | \$9.50 | \$10.00 | \$10.54 | \$11.10 | \$11.69 |
| Eversource Energy | ES | \$2.76 | \$2.93 | \$3.12 | \$3.32 | \$3.52 | \$3.75 | \$3.98 | \$4.21 | \$4.46 | \$4.71 | \$4.97 | \$5.23 | \$5.51 | \$5.80 | \$6.11 | \$6.44 | \$6.78 |
| FirstEnergy Corp. | FE | \$2.00 | \$2.18 | \$2.38 | \$2.59 | \$2.82 | \$3.08 | \$3.34 | \$3.59 | \$3.85 | \$4.10 | \$4.35 | \$4.58 | \$4.82 | \$5.08 | \$5.35 | \$5.63 | \$5.93 |
| IDACORP, Inc. | IDA | \$3.87 | \$4.02 | \$4.19 | \$4.35 | \$4.53 | \$4.71 | \$4.91 | \$5.13 | \$5.36 | \$5.63 | \$5.91 | \$6.23 | \$6.56 | \$6.91 | \$7.28 | \$7.66 | \$8.07 |
| MGE Energy, Inc. | MGEE | \$2.06 | \$2.20 | \$2.36 | \$2.52 | \$2.70 | \$2.89 | \$3.08 | \$3.28 | \$3.48 | \$3.69 | \$3.90 | \$4.10 | \$4.32 | \$4.55 | \$4.79 | \$5.05 | \$5.32 |
| NorthWestern Corporation | NWE | \$2.90 | \$3.09 | \$3.29 | \$3.50 | \$3.73 | \$3.97 | \$4.22 | \$4.48 | \$4.75 | \$5.02 | \$5.29 | \$5.58 | \$5.87 | \$6.19 | \$6.52 | \$6.86 | \$7.23 |
| OGE Energy Corp. | OGE | \$1.69 | \$1.78 | \$1.87 | \$1.97 | \$2.07 | \$2.18 | \$2.29 | \$2.41 | \$2.54 | \$2.67 | \$2.81 | \$2.96 | \$3.12 | \$3.29 | \$3.46 | \$3.65 | \$3.84 |
| Otter Tail Corporation | OTTR | \$1.56 | \$1.65 | \$1.75 | \$1.86 | \$1.97 | \$2.09 | \$2.21 | \$2.34 | \$2.47 | \$2.61 | \$2.75 | \$2.90 | \$3.05 | \$3.21 | \$3.38 | \$3.56 | \$3.75 |
| Pinnacle West Capital Corporation | PNW | \$3.92 | \$4.08 | \$4.24 | \$4.41 | \$4.59 | \$4.77 | \$4.97 | \$5.19 | \$5.43 | \$5.70 | \$5.99 | \$6.31 | \$6.64 | \$7.00 | \$7.37 | \$7.76 | \$8.18 |
| PNM Resources, Inc. | PNM | \$1.64 | \$1.79 | \$1.95 | \$2.12 | \$2.31 | \$2.52 | \$2.73 | \$2.95 | \$3.16 | \$3.37 | \$3.57 | \$3.76 | \$3.95 | \$4.17 | \$4.39 | \$4.62 | \$4.87 |
| Portland General Electric Company | POR | \$2.04 | \$2.17 | \$2.32 | \$2.47 | \$2.63 | \$2.80 | \$2.98 | \$3.17 | \$3.35 | \$3.55 | \$3.74 | \$3.94 | \$4.15 | \$4.37 | \$4.61 | \$4.85 | \$5.11 |
| SCANA Corporation | SCG | \$3.81 | \$4.02 | \$4.23 | \$4.46 | \$4.70 | \$4.96 | \$5.22 | \$5.50 | \$5.80 | \$6.11 | \$6.43 | \$6.78 | \$7.14 | \$7.52 | \$7.92 | \$8.34 | \$8.78 |
| Wisconsin Energy Corporation | WEC | \$2.34 | \$2.50 | \$2.67 | \$2.85 | \$3.04 | \$3.25 | \$3.46 | \$3.68 | \$3.90 | \$4.12 | \$4.35 | \$4.59 | \$4.83 | \$5.09 | \$5.36 | \$5.64 | \$5.94 |
| Xcel Energy Inc. | XEL | \$2.10 | \$2.22 | \$2.34 | \$2.47 | \$2.60 | \$2.74 | \$2.89 | \$3.05 | \$3.22 | \$3.39 | \$3.57 | \$3.76 | \$3.96 | \$4.17 | \$4.40 | \$4.63 | \$4.88 |
| Projected Annual Dividend Payout Ratic |  |  | [31] | [32] | [33] | [34] | [35] | [36] | [37] | [38] | [39] | [40] | [41] | [42] | [43] | [44] | [45] | [46] |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 |
| ALLETE, Inc. | ALE |  | 66.00\% | 65.25\% | 64.50\% | 63.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Alliant Energy Corporation | LNT |  | 64.00\% | 63.25\% | 62.50\% | 61.75\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Ameren Corporation | AEE |  | 68.00\% | 67.00\% | 66.00\% | 65.00\% | 64.00\% | 64.48\% | 64.96\% | 65.44\% | 65.92\% | 66.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| American Electric Power Company, Inc. | AEP |  | 64.00\% | 64.75\% | 65.50\% | 66.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Avista Corporation | AVA |  | 68.00\% | 66.75\% | 65.50\% | 64.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| CMS Energy Corporation | CMS |  | 63.00\% | 62.75\% | 62.50\% | 62.25\% | 62.00\% | 62.81\% | 63.63\% | 64.44\% | 65.25\% | 66.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| DTE Energy Company | DTE |  | 63.00\% | 62.50\% | 62.00\% | 61.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| El Paso Electric Company | EE |  | 59.00\% | 59.50\% | 60.00\% | 60.50\% | 61.00\% | 61.98\% | 62.96\% | 63.94\% | 64.92\% | 65.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Entergy Corporation | ETR |  | 67.00\% | 65.00\% | 63.00\% | 61.00\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Eversource Energy | ES |  | 60.00\% | 59.50\% | 59.00\% | 58.50\% | 58.00\% | 59.48\% | 60.96\% | 62.44\% | 63.92\% | 65.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| FirstEnergy Corp. | FE |  | 55.00\% | 53.25\% | 51.50\% | 49.75\% | 48.00\% | 51.15\% | 54.29\% | 57.44\% | 60.59\% | 63.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| IDACORP, Inc. | IDA |  | 53.00\% | 54.75\% | 56.50\% | 58.25\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| MGE Energy, Inc. | MGEE |  | 56.00\% | 53.00\% | 50.00\% | 47.00\% | 44.00\% | 47.81\% | 51.63\% | 55.44\% | 59.25\% | 63.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| NorthWestern Corporation | NWE |  | 65.00\% | 63.50\% | 62.00\% | 60.50\% | 59.00\% | 60.31\% | 61.63\% | 62.94\% | 64.25\% | 65.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| OGE Energy Corp. | OGE |  | 67.00\% | 67.75\% | 68.50\% | 69.25\% | 70.00\% | 69.48\% | 68.96\% | 68.44\% | 67.92\% | 67.40\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Otter Tail Corporation | OTTR |  | 80.00\% | 75.75\% | 71.50\% | 67.25\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Pinnacle West Capital Corporation | PNW |  | 64.00\% | 64.25\% | 64.50\% | 64.75\% | 65.00\% | 65.31\% | 65.63\% | 65.94\% | 66.25\% | 66.57\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| PNM Resources, Inc. | PNM |  | 51.00\% | 52.00\% | 53.00\% | 54.00\% | 55.00\% | 56.98\% | 58.96\% | 60.94\% | 62.92\% | 64.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Portland General Electric Company | POR |  | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 56.00\% | 57.81\% | 59.63\% | 61.44\% | 63.25\% | 65.07\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| SCANA Corporation | SCG |  | 59.00\% | 59.25\% | 59.50\% | 59.75\% | 60.00\% | 61.15\% | 62.29\% | 63.44\% | 64.59\% | 65.73\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Wisconsin Energy Corporation | WEC |  | 68.00\% | 67.75\% | 67.50\% | 67.25\% | 67.00\% | 66.98\% | 66.96\% | 66.94\% | 66.92\% | 66.90\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |
| Xcel Energy Inc. | XEL |  | 62.00\% | 62.25\% | 62.50\% | 62.75\% | 63.00\% | 63.65\% | 64.29\% | 64.94\% | 65.59\% | 66.23\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% | 66.88\% |

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| Projected Annual Cash Flows |  |  | [47] | [48] | [49] | [50] | [51] | [52] | [53] | [54] | [55] | [56] | [57] | [58] | [59] | [60] | [61] | [62] | [63] |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker |  | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 | 2026 | 2027 | 2028 | 2029 | 2030 | 2031 | Terminal Value |
| ALLETE, Inc. | ALE |  | \$2.35 | \$2.45 | \$2.56 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$163.70 |
| Alliant Energy Corporation | LNT |  | \$1.15 | \$1.21 | \$1.28 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$88.48 |
| Ameren Corporation | AEE |  | \$1.72 | \$1.80 | \$1.88 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$120.28 |
| American Electric Power Company, Inc. | AEP |  | \$2.41 | \$2.56 | \$2.71 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$166.59 |
| Avista Corporation | AVA |  | \$1.35 | \$1.39 | \$1.43 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$88.33 |
| CMS Energy Corporation | CMS |  | \$1.28 | \$1.36 | \$1.46 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$103.50 |
| DTE Energy Company | DTE |  | \$2.97 | \$3.11 | \$3.27 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$220.16 |
| El Paso Electric Company | EE |  | \$1.28 | \$1.38 | \$1.49 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$109.31 |
| Entergy Corporation | ETR |  | \$4.03 | \$4.05 | \$4.06 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$243.80 |
| Eversource Energy | ES |  | \$1.76 | \$1.86 | \$1.96 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$141.47 |
| FirstEnergy Corp. | FE |  | \$1.20 | \$1.27 | \$1.33 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$123.80 |
| IDACORP, Inc. | IDA |  | \$2.13 | \$2.29 | \$2.46 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$168.36 |
| MGE Energy, Inc. | MGEE |  | \$1.23 | \$1.25 | \$1.26 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$110.93 |
| NorthWestern Corporation | NWE |  | \$2.01 | \$2.09 | \$2.17 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$150.76 |
| OGE Energy Corp. | OGE |  | \$1.19 | \$1.27 | \$1.35 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$80.12 |
| Otter Tail Corporation | OTTR |  | \$1.32 | \$1.33 | \$1.33 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$78.28 |
| Pinnacle West Capital Corporation | PNW |  | \$2.61 | \$2.72 | \$2.84 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$170.53 |
| PNM Resources, Inc. | PNM |  | \$0.91 | \$1.01 | \$1.13 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$101.51 |
| Portland General Electric Company | POR |  | \$1.22 | \$1.30 | \$1.38 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$106.58 |
| SCANA Corporation | SCG |  | \$2.37 | \$2.51 | \$2.65 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$183.22 |
| Wisconsin Energy Corporation | WEC |  | \$1.70 | \$1.81 | \$1.92 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$123.98 |
| Xcel Energy Inc. | XEL |  | \$1.37 | \$1.46 | \$1.54 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$101.71 |
| Projected Annual Data Investor Cash Flows |  | [64] | [65] | [66] | [67] | [68] | [69] | [70] | [71] | [72] | [73] | [74] | [75] | [76] | [77] | [78] | [79] | [80] | [81] |
|  |  | Initial |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Outflow | 6/30/16 | 12/31/16 | 6/30/17 | 6/30/18 | 6/30/19 | 6/30/20 | 6/30/21 | 6/30/22 | 6/30/23 | 6/30/24 | 6/30/25 | 6/30/26 | 6/30/27 | 6/30/28 | 6/30/29 | 6/30/30 | 6/30/31 |
| ALLETE, Inc. | ALE | (\$54.07) | \$0.00 | \$1.19 | \$2.42 | \$2.67 | \$2.78 | \$2.97 | \$3.16 | \$3.36 | \$3.58 | \$3.81 | \$4.05 | \$4.27 | \$4.49 | \$4.73 | \$4.98 | \$5.25 | \$168.95 |
| Alliant Energy Corporation | LNT | (\$33.83) | \$0.00 | \$0.58 | \$1.19 | \$1.35 | \$1.42 | \$1.53 | \$1.65 | \$1.78 | \$1.91 | \$2.05 | \$2.19 | \$2.31 | \$2.43 | \$2.56 | \$2.69 | \$2.84 | \$91.31 |
| Ameren Corporation | AEE | (\$46.40) | \$0.00 | \$0.87 | \$1.77 | \$1.96 | \$2.05 | \$2.19 | \$2.33 | \$2.48 | \$2.64 | \$2.80 | \$2.98 | \$3.13 | \$3.30 | \$3.48 | \$3.66 | \$3.86 | \$124.14 |
| American Electric Power Company, Inc. | AEP | (\$61.54) | \$0.00 | \$1.21 | \$2.47 | \$2.88 | \$3.06 | \$3.21 | \$3.37 | \$3.54 | \$3.72 | \$3.91 | \$4.12 | \$4.34 | \$4.57 | \$4.81 | \$5.07 | \$5.34 | \$171.93 |
| Avista Corporation | AVA | (\$37.83) | \$0.00 | \$0.68 | \$1.38 | \$1.48 | \$1.52 | \$1.61 | \$1.71 | \$1.82 | \$1.93 | \$2.05 | \$2.19 | \$2.30 | \$2.42 | \$2.55 | \$2.69 | \$2.83 | \$91.16 |
| CMS Energy Corporation | CMS | (\$39.10) | \$0.00 | \$0.64 | \$1.32 | \$1.56 | \$1.66 | \$1.80 | \$1.94 | \$2.09 | \$2.25 | \$2.40 | \$2.56 | \$2.70 | \$2.84 | \$2.99 | \$3.15 | \$3.32 | \$106.82 |
| DTE Energy Company | DTE | (\$85.80) | \$0.00 | \$1.50 | \$3.05 | \$3.43 | \$3.60 | \$3.87 | \$4.15 | \$4.45 | \$4.76 | \$5.10 | \$5.45 | \$5.74 | \$6.04 | \$6.36 | \$6.70 | \$7.06 | \$227.22 |
| El Paso Electric Company | EE | (\$41.72) | \$0.00 | \$0.65 | \$1.33 | \$1.61 | \$1.74 | \$1.88 | \$2.04 | \$2.20 | \$2.36 | \$2.53 | \$2.70 | \$2.85 | \$3.00 | \$3.16 | \$3.33 | \$3.50 | \$112.82 |
| Entergy Corporation | ETR | (\$72.44) | \$0.00 | \$2.03 | \$4.10 | \$4.07 | \$4.07 | \$4.32 | \$4.60 | \$4.90 | \$5.24 | \$5.61 | \$6.03 | \$6.35 | \$6.69 | \$7.05 | \$7.42 | \$7.82 | \$251.62 |
| Eversource Energy | ES | (\$54.15) | \$0.00 | \$0.89 | \$1.82 | \$2.06 | \$2.17 | \$2.36 | \$2.57 | \$2.78 | \$3.01 | \$3.25 | \$3.50 | \$3.69 | \$3.88 | \$4.09 | \$4.31 | \$4.54 | \$146.01 |
| FirstEnergy Corp. | FE | (\$33.04) | \$0.00 | \$0.60 | \$1.25 | \$1.40 | \$1.48 | \$1.71 | \$1.95 | \$2.21 | \$2.49 | \$2.77 | \$3.06 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.97 | \$127.77 |
| IDACORP, Inc. | IDA | (\$70.82) | \$0.00 | \$1.08 | \$2.18 | \$2.64 | \$2.83 | \$3.00 | \$3.19 | \$3.40 | \$3.63 | \$3.89 | \$4.16 | \$4.39 | \$4.62 | \$4.87 | \$5.13 | \$5.40 | \$173.76 |
| MGE Energy, Inc. | MGEE | (\$48.29) | \$0.00 | \$0.62 | \$1.28 | \$1.27 | \$1.27 | \$1.47 | \$1.69 | \$1.93 | \$2.19 | \$2.46 | \$2.74 | \$2.89 | \$3.04 | \$3.21 | \$3.38 | \$3.56 | \$114.48 |
| NorthWestern Corporation | NWE | (\$57.21) | \$0.00 | \$1.01 | \$2.07 | \$2.26 | \$2.34 | \$2.55 | \$2.76 | \$2.99 | \$3.22 | \$3.47 | \$3.73 | \$3.93 | \$4.14 | \$4.36 | \$4.59 | \$4.83 | \$155.59 |
| OGE Energy Corp. | OGE | (\$27.72) | \$0.00 | \$0.60 | \$1.22 | \$1.43 | \$1.52 | \$1.59 | \$1.66 | \$1.74 | \$1.81 | \$1.90 | \$1.98 | \$2.09 | \$2.20 | \$2.32 | \$2.44 | \$2.57 | \$82.69 |
| Otter Tail Corporation | OTTR | (\$28.17) | \$0.00 | \$0.67 | \$1.36 | \$1.32 | \$1.32 | \$1.41 | \$1.50 | \$1.60 | \$1.71 | \$1.82 | \$1.94 | \$2.04 | \$2.15 | \$2.26 | \$2.38 | \$2.51 | \$80.79 |
| Pinnacle West Capital Corporation | PNW | (\$69.12) | \$0.00 | \$1.32 | \$2.66 | \$2.97 | \$3.10 | \$3.25 | \$3.41 | \$3.58 | \$3.78 | \$3.99 | \$4.22 | \$4.44 | \$4.68 | \$4.93 | \$5.19 | \$5.47 | \$176.00 |
| PNM Resources, Inc. | PNM | (\$31.32) | \$0.00 | \$0.46 | \$0.95 | \$1.25 | \$1.39 | \$1.56 | \$1.74 | \$1.92 | \$2.12 | \$2.31 | \$2.51 | \$2.65 | \$2.79 | \$2.93 | \$3.09 | \$3.25 | \$104.77 |
| Portland General Electric Company | POR | (\$38.74) | \$0.00 | \$0.61 | \$1.26 | \$1.47 | \$1.57 | \$1.72 | \$1.89 | \$2.06 | \$2.24 | \$2.44 | \$2.64 | \$2.78 | \$2.92 | \$3.08 | \$3.24 | \$3.42 | \$109.99 |
| SCANA Corporation | SCG | (\$64.86) | \$0.00 | \$1.19 | \$2.43 | \$2.81 | \$2.97 | \$3.19 | \$3.43 | \$3.68 | \$3.95 | \$4.23 | \$4.53 | \$4.77 | \$5.03 | \$5.30 | \$5.58 | \$5.87 | \$189.09 |
| Wisconsin Energy Corporation | WEC | (\$55.89) | \$0.00 | \$0.86 | \$1.76 | \$2.05 | \$2.18 | \$2.32 | \$2.46 | \$2.61 | \$2.76 | \$2.91 | \$3.07 | \$3.23 | \$3.40 | \$3.58 | \$3.77 | \$3.98 | \$127.96 |
| Xcel Energy Inc. | XEL | (\$38.85) | \$0.00 | \$0.69 | \$1.41 | \$1.63 | \$1.73 | \$1.84 | \$1.96 | \$2.09 | \$2.22 | \$2.37 | \$2.52 | \$2.65 | \$2.79 | \$2.94 | \$3.10 | \$3.26 | \$104.97 |

[^5]Docket No. 160021-EI
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Exhibit RBH-15, Page 1 of 12


Docket No. 160021-EI
Sponsored by Robert B. Hevert
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| C.H. ROBINSON WORLDWIDE INC | CHRW | 10,600.42 | 0.06\% | 2.35\% | 10.28\% | 12.74\% | 0.0070\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CIGNA CORP | Cl | 32,831.11 | 0.17\% | 0.03\% | 8.62\% | 8.66\% | 0.0148\% |
| CINCINNATI FINANCIAL CORP | CINF | 12,317.88 | 0.06\% | 0.00\% | 16.30\% | 16.30\% | 0.0104\% |
| COLGATE-PALMOLIVE CO | CL | 65,368.89 | 0.34\% | 2.15\% | 8.38\% | 10.62\% | 0.0361\% |
| CLOROX COMPANY | CLX | 17,899.42 | 0.09\% | 2.24\% | 6.47\% | 8.78\% | 0.0082\% |
| COMERICA INC | CMA | 7,203.26 | 0.04\% | 2.12\% | 5.04\% | 7.22\% | 0.0027\% |
| COMCAST CORP-CLASS A | CMCSA | 158,228.88 | 0.82\% | 1.70\% | 11.32\% | 13.12\% | 0.1079\% |
| CME GROUP INC | CME | 32,983.82 | 0.17\% | 5.11\% | 12.78\% | 18.21\% | 0.0312\% |
| CHIPOTLE MEXICAN GRILL INC | CMG | 11,761.16 | 0.06\% | 0.00\% | 16.72\% | 16.72\% | 0.0102\% |
| CUMMINS INC | CMI | 19,155.23 | 0.10\% | 3.53\% | 4.26\% | 7.86\% | 0.0078\% |
| CMS ENERGY CORP | CMS | 12,839.04 | 0.07\% | 2.70\% | 6.00\% | 8.78\% | 0.0059\% |
| CENTENE CORP | CNC | 12,166.66 | 0.06\% | 0.00\% | 16.57\% | 16.57\% | 0.0105\% |
| CENTERPOINT ENERGY INC | CNP | 10,334.87 | 0.05\% | 4.30\% | 5.67\% | 10.09\% | 0.0054\% |
| CAPITAL ONE FINANCIAL CORP | COF | 32,523.44 | 0.17\% | 2.67\% | 6.57\% | 9.33\% | 0.0158\% |
| CABOT OIL \& GAS CORP | COG | 11,969.11 | 0.06\% | 0.31\% | 40.79\% | 41.16\% | 0.0256\% |
| COACH INC | COH | 11,326.93 | 0.06\% | 3.31\% | 14.23\% | 17.78\% | 0.0105\% |
| ROCKWELL COLLINS INC | COL | 11,084.73 | 0.06\% | 1.58\% | 8.32\% | 9.97\% | 0.0057\% |
| CONOCOPHILLIPS | COP | 53,993.68 | 0.28\% | 2.30\% | 6.67\% | 9.04\% | 0.0254\% |
| COSTCO WHOLESALE CORP | COST | 68,793.82 | 0.36\% | 1.08\% | 10.55\% | 11.69\% | 0.0418\% |
| CAMPBELL SOUP CO | CPB | 20,534.29 | 0.11\% | 2.03\% | 7.32\% | 9.42\% | 0.0101\% |
| COLUMBIA PIPELINE GROUP | CPGX | 10,206.23 | N/A | 2.20\% | N/A | N/A | N/A |
| SALESFORCE.COM INC | CRM | 53,800.28 | 0.28\% | 0.00\% | 25.42\% | 25.42\% | 0.0711\% |
| CISCO SYSTEMS INC | csco | 144,302.44 | 0.75\% | 3.28\% | 8.77\% | 12.19\% | 0.0914\% |
| CSRA INC | CSRA | 3,829.02 | 0.02\% | 1.71\% | 10.00\% | 11.79\% | 0.0023\% |
| CSX CORP | CSX | 24,929.01 | 0.13\% | 2.85\% | 6.46\% | 9.40\% | 0.0122\% |
| CINTAS CORP | CTAS | 10,500.22 | 0.05\% | 1.08\% | 11.84\% | 12.98\% | 0.0071\% |
| CENTURYLINK INC | CTL | 15,840.97 | 0.08\% | 7.45\% | -1.52\% | 5.87\% | 0.0048\% |
| COGNIZANT TECH SOLUTIONS-A | CTSH | 34,679.97 | 0.18\% | 0.00\% | 13.78\% | 13.78\% | 0.0249\% |
| CITRIX SYSTEMS INC | CTXS | 12,422.12 | 0.06\% | 0.00\% | 16.70\% | 16.70\% | 0.0108\% |
| CVS HEALTH CORP | CVS | 102,826.88 | 0.53\% | 1.73\% | 13.85\% | 15.70\% | 0.0840\% |
| CHEVRON CORP | cVx | 197,573.35 | 1.03\% | 4.10\% | 3.25\% | 7.42\% | 0.0762\% |
| CONCHO RESOURCES INC | CxO | 15,690.05 | 0.08\% | 0.00\% | 25.00\% | 25.00\% | 0.0204\% |
| DOMINION RESOURCES INC/VA | D | 48,021.89 | 0.25\% | 3.59\% | 6.25\% | 9.96\% | 0.0249\% |
| DELTA AIR LINES INC | DAL | 28,109.11 | 0.15\% | 1.67\% | 15.98\% | 17.77\% | 0.0260\% |
| DU PONT (E.I.) DE NEMOURS | DD | 56,632.99 | 0.29\% | 2.44\% | 8.25\% | 10.79\% | 0.0318\% |
| DEERE \& CO | DE | 25,467.54 | 0.13\% | 2.98\% | 7.76\% | 10.85\% | 0.0144\% |
| DISCOVER FINANCIAL SERVICES | DFS | 22,091.15 | 0.11\% | 2.21\% | 8.13\% | 10.43\% | 0.0120\% |
| DOLLAR GENERAL CORP | DG | 26,675.16 | 0.14\% | 1.05\% | 13.89\% | 15.01\% | 0.0208\% |
| QUEST DIAGNOSTICS INC | DGX | 11,516.03 | 0.06\% | 1.95\% | 8.91\% | 10.94\% | 0.0066\% |
| DR HORTON INC | DHI | 11,676.73 | 0.06\% | 1.03\% | 14.71\% | 15.81\% | 0.0096\% |
| DANAHER CORP | DHR | 69,558.24 | 0.36\% | 0.63\% | 11.98\% | 12.64\% | 0.0457\% |
| WALT DISNEY CO/THE | DIS | 158,707.15 | 0.83\% | 1.49\% | 9.80\% | 11.36\% | 0.0938\% |
| DISCOVERY COMMUNICATIONS-A | DISCA | 15,147.86 | 0.08\% | 0.00\% | 13.45\% | 13.45\% | 0.0106\% |
| DELPHI AUTOMOTIVE PLC | DLPH | 17,088.36 | 0.09\% | 1.86\% | 9.88\% | 11.83\% | 0.0105\% |
| DIGITAL REALTY TRUST INC | DLR | 17,364.98 | 0.09\% | 3.23\% | 5.94\% | 9.26\% | 0.0084\% |
| DOLLAR TREE INC | DLTR | 22,209.17 | 0.12\% | 0.00\% | 17.67\% | 17.67\% | 0.0204\% |
| DUN \& BRADSTREET CORP | DNB | 4,417.72 | 0.02\% | 1.58\% | 11.75\% | 13.43\% | 0.0031\% |
| DIAMOND OFFSHORE DRILLING | DO | 3,337.34 | N/A | 0.00\% | N/A | N/A | N/A |
| DOVER CORP | DOV | 10,754.91 | 0.06\% | 2.48\% | 10.48\% | 13.08\% | 0.0073\% |
| DOW CHEMICAL CO/THE | Dow | 55,963.47 | 0.29\% | 3.73\% | 6.00\% | 9.85\% | 0.0286\% |
| DR PEPPER SNAPPLE GROUP INC | DPS | 17,955.02 | 0.09\% | 2.18\% | 13.24\% | 15.57\% | 0.0145\% |
| DARDEN RESTAURANTS INC | DRI | 8,026.81 | 0.04\% | 3.46\% | 13.38\% | 17.08\% | 0.0071\% |
| DTE ENERGY COMPANY | DTE | 17,785.64 | 0.09\% | 3.02\% | 5.54\% | 8.65\% | 0.0080\% |
| DUKE ENERGY CORP | DUK | 59,091.55 | 0.31\% | 3.95\% | 4.71\% | 8.75\% | 0.0269\% |
| DAVITA HEALTHCARE PARTNERS I | DVA | 15,966.58 | 0.08\% | 0.00\% | 10.11\% | 10.11\% | 0.0084\% |
| DEVON ENERGY CORP | DVN | 18,995.00 | 0.10\% | 1.16\% | 7.97\% | 9.17\% | 0.0091\% |
| ELECTRONIC ARTS INC | EA | 22,832.80 | 0.12\% | 0.00\% | 11.27\% | 11.27\% | 0.0134\% |
| EBAY INC | EBAY | 26,895.85 | 0.14\% | 0.00\% | 8.89\% | 8.89\% | 0.0124\% |
| ECOLAB INC | ECL | 34,786.00 | 0.18\% | 1.20\% | 12.36\% | 13.63\% | 0.0247\% |
| CONSOLIDATED EDISON INC | ED | 24,466.66 | 0.13\% | 3.33\% | 3.07\% | 6.45\% | 0.0082\% |
| EQUIFAX INC | EFX | 15,281.39 | 0.08\% | 1.03\% | 9.21\% | 10.28\% | 0.0082\% |
| EDISON INTERNATIONAL | EIX | 25,305.76 | 0.13\% | 2.48\% | 5.44\% | 7.99\% | 0.0105\% |
| ESTEE LAUDER COMPANIES-CL A | EL | 33,608.03 | 0.17\% | 1.25\% | 11.73\% | 13.05\% | 0.0228\% |
| EMC CORP/MA | EMC | 53,108.30 | 0.28\% | 1.78\% | 10.58\% | 12.45\% | 0.0344\% |
| EASTMAN CHEMICAL CO | EMN | 10,038.11 | 0.05\% | 2.66\% | 5.50\% | 8.24\% | 0.0043\% |
| EMERSON ELECTRIC CO | EMR | 33,557.19 | 0.17\% | 3.64\% | 7.33\% | 11.10\% | 0.0194\% |
| ENDO INTERNATIONAL PLC | ENDP | 3,471.29 | 0.02\% | 0.00\% | 4.70\% | 4.70\% | 0.0008\% |
| EOG RESOURCES INC | EOG | 45,904.07 | 0.24\% | 0.78\% | -9.66\% | -8.92\% | -0.0213\% |
| EQUINIX INC | EQIX | 26,919.74 | 0.14\% | 1.80\% | 22.05\% | 24.05\% | 0.0337\% |
| EQUITY RESIDENTIAL | EQR | 25,175.79 | 0.13\% | 18.91\% | 6.08\% | 25.56\% | 0.0335\% |
| EQT CORP | EQT | 13,375.03 | 0.07\% | 0.15\% | 25.00\% | 25.17\% | 0.0175\% |
| EVERSOURCE ENERGY | ES | 19,000.70 | 0.10\% | 2.97\% | 7.00\% | 10.07\% | 0.0100\% |
| EXPRESS SCRIPTS HOLDING CO | ESRX | 47,946.23 | 0.25\% | 0.00\% | 12.85\% | 12.85\% | 0.0320\% |
| ESSEX PROPERTY TRUST INC | ESS | 14,923.95 | 0.08\% | 2.79\% | 6.83\% | 9.72\% | 0.0075\% |
| E*TRADE FINANCIAL CORP | ETFC | 6,547.34 | 0.03\% | 0.03\% | 17.87\% | 17.90\% | 0.0061\% |
| EATON CORP PLC | ETN | 27,356.34 | 0.14\% | 3.83\% | 8.42\% | 12.41\% | 0.0176\% |
| ENTERGY CORP | ETR | 14,540.57 | 0.08\% | 4.22\% | 1.56\% | 5.82\% | 0.0044\% |
| EDWARDS LIFESCIENCES CORP | EW | 21,119.10 | 0.11\% | 0.00\% | 14.57\% | 14.57\% | 0.0160\% |
| EXELON CORP | EXC | 33,512.82 | 0.17\% | 3.47\% | 4.00\% | 7.53\% | 0.0131\% |
| EXPEDITORS INTL WASH INC | EXPD | 8,928.17 | 0.05\% | 1.56\% | 8.53\% | 10.16\% | 0.0047\% |
| EXPEDIA INC | EXPE | 15,849.71 | 0.08\% | 0.81\% | 22.29\% | 23.18\% | 0.0191\% |
| EXTRA SPACE STORAGE INC | EXR | 11,586.72 | 0.06\% | 2.98\% | 7.35\% | 10.44\% | 0.0063\% |
| FORD MOTOR CO | F | 49,938.54 | 0.26\% | 4.77\% | 6.72\% | 11.65\% | 0.0303\% |
| FASTENAL CO | FAST | 12,823.53 | 0.07\% | 2.71\% | 12.02\% | 14.89\% | 0.0099\% |
| FACEBOOK INC-A | FB | 326,875.71 | 1.70\% | 0.00\% | 31.69\% | 31.69\% | 0.5386\% |
| FORTUNE BRANDS HOME \& SECURI | FBHS | 8,891.21 | 0.05\% | 1.11\% | 18.63\% | 19.84\% | 0.0092\% |
| FREEPORT-MCMORAN INC | FCX | 13,948.86 | N/A | 0.00\% | N/A | N/A | N/A |
| FEDEX CORP | FDX | 40,741.36 | 0.21\% | 1.03\% | 12.25\% | 13.34\% | 0.0283\% |
| FIRSTENERGY CORP | FE | 14,826.71 | 0.08\% | 4.12\% | -1.55\% | 2.54\% | 0.0020\% |
| F5 NETWORKS INC | FFIV | 7,625.15 | 0.04\% | 0.00\% | 13.18\% | 13.18\% | 0.0052\% |
| FIDELITY NATIONAL INFO SERV | FIS | 24,053.13 | 0.13\% | 1.45\% | 12.13\% | 13.66\% | 0.0171\% |
| FISERV INC | FISV | 24,173.93 | 0.13\% | 0.00\% | 12.50\% | 12.50\% | 0.0157\% |
| FIFTH THIRD BANCORP | FITB | 13,504.16 | 0.07\% | 3.09\% | 3.83\% | 6.98\% | 0.0049\% |
| FOOT LOCKER INC | FL | 7,423.05 | 0.04\% | 2.05\% | 10.75\% | 12.91\% | 0.0050\% |
| FLIR SYSTEMS INC | FLIR | 4,259.71 | 0.02\% | 1.49\% | 15.00\% | 16.60\% | 0.0037\% |
| FLUOR CORP | FLR | 6,861.26 | 0.04\% | 1.71\% | 2.39\% | 4.12\% | 0.0015\% |
| FLOWSERVE CORP | FLS | 5,888.67 | 0.03\% | 1.68\% | 11.67\% | 13.45\% | 0.0041\% |
| FMC CORP | FMC | 6,194.03 | 0.03\% | 1.46\% | 9.53\% | 11.06\% | 0.0036\% |
| TWENTY-FIRST CENTURY FOX-A | FOXA | 51,399.08 | 0.27\% | 1.21\% | 13.84\% | 15.13\% | 0.0404\% |
| FEDERAL REALTY INVS TRUST | FRT | 11,738.17 | 0.06\% | 2.32\% | 6.26\% | 8.65\% | 0.0053\% |
| FIRST SOLAR INC | FSLR | 4,956.84 | 0.03\% | 0.00\% | 10.00\% | 10.00\% | 0.0026\% |
| FMC TECHNOLOGIES INC | FTI | 6,036.90 | 0.03\% | 0.00\% | -8.10\% | -8.10\% | -0.0025\% |
| FRONTIER COMMUNICATIONS CORP | FTR | 5,795.00 | 0.03\% | 8.50\% | 11.55\% | 20.54\% | 0.0062\% |

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| AGL RESOURCES INC | GAS | 7,961.26 | 0.04\% | 3.21\% | 6.50\% | 9.82\% | 0.0041\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GENERAL DYNAMICS CORP | GD | 42,558.28 | 0.22\% | 2.14\% | 7.83\% | 10.05\% | 0.0222\% |
| GENERAL ELECTRIC CO | GE | 289,479.28 | 1.51\% | 2.96\% | 9.98\% | 13.09\% | 0.1970\% |
| GENERAL GROWTH PROPERTIES | GGP | 26,336.92 | 0.14\% | 2.59\% | 6.73\% | 9.40\% | 0.0129\% |
| GILEAD SCIENCES INC | GILD | 111,100.55 | 0.58\% | 2.21\% | 1.96\% | 4.20\% | 0.0242\% |
| GENERAL MILLS INC | GIS | 42,392.72 | 0.22\% | 2.64\% | 9.63\% | 12.40\% | 0.0273\% |
| CORNING INC | GLW | 22,023.14 | 0.11\% | 2.65\% | 12.34\% | 15.15\% | 0.0174\% |
| GENERAL MOTORS CO | GM | 43,577.06 | 0.23\% | 5.37\% | 9.44\% | 15.06\% | 0.0341\% |
| ALPHABET INC-CLA | GOOGL | 478,804.14 | 2.49\% | 0.00\% | 15.66\% | 15.66\% | 0.3899\% |
| GENUINE PARTS CO | GPC | 15,149.34 | 0.08\% | 2.60\% | 6.33\% | 9.01\% | 0.0071\% |
| GLOBAL PAYMENTS INC | GPN | 10,992.57 | 0.06\% | 0.06\% | 14.42\% | 14.48\% | 0.0083\% |
| GAP INC/THE | GPS | 8,444.80 | 0.04\% | 4.30\% | 6.91\% | 11.37\% | 0.0050\% |
| GARMIN LTD | GRMN | 8,019.66 | 0.04\% | 4.83\% | 5.68\% | 10.65\% | 0.0044\% |
| GOLDMAN SACHS GROUP INC | GS | 64,513.58 | 0.34\% | 1.81\% | 14.11\% | 16.05\% | 0.0538\% |
| GOODYEAR TIRE \& RUBBER CO | GT | 6,824.13 | 0.04\% | 1.10\% | 7.00\% | 8.14\% | 0.0029\% |
| WW GRAINGER INC | GWW | 13,935.47 | 0.07\% | 2.15\% | 9.34\% | 11.59\% | 0.0084\% |
| halliburton co | HAL | 38,916.11 | 0.20\% | 1.57\% | 12.53\% | 14.19\% | 0.0287\% |
| HARMAN INTERNATIONAL | HAR | 5,067.24 | 0.03\% | 1.97\% | 17.50\% | 19.64\% | 0.0052\% |
| HASBRO INC | HAS | 10,473.73 | 0.05\% | 2.43\% | 10.40\% | 12.96\% | 0.0071\% |
| HUNTINGTON BANCSHARES INC | HBAN | 7,141.87 | 0.04\% | 3.21\% | 5.32\% | 8.62\% | 0.0032\% |
| HANESBRANDS INC | HBI | 9,487.01 | 0.05\% | 1.74\% | 12.03\% | 13.88\% | 0.0068\% |
| HCA HOLDINGS INC | HCA | 30,115.06 | 0.16\% | 0.00\% | 11.00\% | 11.00\% | 0.0172\% |
| WELLTOWER INC | HCN | 27,192.32 | 0.14\% | 4.49\% | 4.67\% | 9.26\% | 0.0131\% |
| HCP INC | HCP | 16,525.56 | 0.09\% | 6.45\% | 2.81\% | 9.35\% | 0.0080\% |
| HOME DEPOT INC | HD | 158,847.29 | 0.83\% | 2.16\% | 13.47\% | 15.77\% | 0.1302\% |
| HESS CORP | HES | 19,034.83 | 0.10\% | 1.66\% | -20.09\% | -18.60\% | -0.0184\% |
| HARTFORD FINANCIAL SVCS GRP | HIG | 17,458.42 | 0.09\% | 1.98\% | 9.33\% | 11.41\% | 0.0104\% |
| HARLEY-DAVIDSON INC | HOG | 8,203.38 | 0.04\% | 3.09\% | 10.35\% | 13.60\% | 0.0058\% |
| HOLOGIC INC | HOLX | 9,647.51 | 0.05\% | 0.00\% | 8.94\% | 8.94\% | 0.0045\% |
| HONEYWELL INTERNATIONAL INC | HON | 88,649.27 | 0.46\% | 2.11\% | 9.32\% | 11.53\% | 0.0531\% |
| STARWOOD HOTELS \& RESORTS | HOT | 12,537.31 | 0.07\% | 2.03\% | 7.26\% | 9.36\% | 0.0061\% |
| HELMERICH \& PAYNE | HP | 7,252.67 | 0.04\% | 4.12\% | -1.40\% | 2.69\% | 0.0010\% |
| HEWLETT PACKARD ENTERPRIS | HPE | 30,359.53 | 0.16\% | 1.20\% | 6.42\% | 7.66\% | 0.0121\% |
| HP INC | HPQ | 21,468.11 | 0.11\% | 4.22\% | 2.83\% | 7.11\% | 0.0079\% |
| H\&R BLOCK INC | HRB | 5,071.90 | 0.03\% | 3.83\% | 11.00\% | 15.04\% | 0.0040\% |
| HORMEL FOODS CORP | HRL | 19,392.89 | 0.10\% | 1.57\% | 5.90\% | 7.51\% | 0.0076\% |
| HARRIS CORP | HRS | 10,407.13 | N/A | 2.38\% | N/A | N/A | N/A |
| HENRY SCHEIN INC | HSIC | 14,509.34 | 0.08\% | 0.00\% | 11.43\% | 11.43\% | 0.0086\% |
| HOST HOTELS \& RESORTS INC | HST | 12,113.98 | 0.06\% | 5.13\% | 5.00\% | 10.25\% | 0.0065\% |
| HERSHEY CO/THE | HSY | 24,215.69 | 0.13\% | 2.09\% | 9.18\% | 11.36\% | 0.0143\% |
| HUMANA INC | HUM | 26,808.71 | 0.14\% | 0.66\% | 13.14\% | 13.85\% | 0.0193\% |
| INTL BUSINESS MACHINES CORP | IBM | 145,703.01 | 0.76\% | 3.54\% | 3.54\% | 7.15\% | 0.0542\% |
| INTERCONTINENTAL EXCHANGE IN | ICE | 30,470.92 | 0.16\% | 1.33\% | 14.24\% | 15.66\% | 0.0248\% |
| INTL FLAVORS \& FRAGRANCES | IFF | 10,049.53 | 0.05\% | 1.83\% | 11.00\% | 12.94\% | 0.0068\% |
| ILLUMINA INC | ILMN | 20,663.94 | 0.11\% | 0.00\% | 13.98\% | 13.98\% | 0.0150\% |
| INTEL CORP | INTC | 154,881.60 | 0.81\% | 3.16\% | 8.52\% | 11.81\% | 0.0951\% |
| INTUIT INC | INTU | 28,557.79 | 0.15\% | 1.08\% | 17.11\% | 18.28\% | 0.0271\% |
| INTERNATIONAL PAPER CO | IP | 17,425.57 | 0.09\% | 4.20\% | 7.50\% | 11.86\% | 0.0107\% |
| INTERPUBLIC GROUP OF COS INC | IPG | 9,295.56 | 0.05\% | 2.54\% | 8.00\% | 10.64\% | 0.0051\% |
| INGERSOLL-RAND PLC | IR | 16,395.29 | 0.09\% | 2.01\% | 10.71\% | 12.82\% | 0.0109\% |
| IRON MOUNTAIN INC | IRM | 10,461.09 | N/A | 4.77\% | N/A | N/A | N/A |
| INTUITIVE SURGICAL INC | ISRG | 25,173.51 | 0.13\% | 0.00\% | 13.07\% | 13.07\% | 0.0171\% |
| ILLINOIS TOOL WORKS | ITW | 37,432.02 | 0.19\% | 2.17\% | 6.65\% | 8.90\% | 0.0173\% |
| INVESCO LTD | IVZ | 10,656.98 | 0.06\% | 4.37\% | 9.55\% | 14.13\% | 0.0078\% |
| HUNT (JB) TRANSPRT SVCS INC | JBHT | 9,117.12 | 0.05\% | 1.08\% | 13.74\% | 14.90\% | 0.0071\% |
| JOHNSON CONTROLS INC | JCI | 28,696.86 | 0.15\% | 2.58\% | 9.20\% | 11.90\% | 0.0178\% |
| JACOBS ENGINEERING GROUP INC | JEC | 6,073.09 | 0.03\% | 0.00\% | 6.92\% | 6.92\% | 0.0022\% |
| JOHNSON \& JOHNSON | JNJ | 333,653.15 | 1.73\% | 2.59\% | 6.29\% | 8.96\% | 0.1554\% |
| JUNIPER NETWORKS INC | JNPR | 8,634.92 | 0.04\% | 1.88\% | 9.56\% | 11.53\% | 0.0052\% |
| JPMORGAN CHASE \& CO | JPM | 227,224.79 | 1.18\% | 3.04\% | 4.21\% | 7.31\% | 0.0863\% |
| NORDSTROM INC | JWN | 6,599.20 | 0.03\% | 4.05\% | 8.23\% | 12.45\% | 0.0043\% |
| KELLOGG CO | K | 28,581.44 | 0.15\% | 2.52\% | 5.82\% | 8.42\% | 0.0125\% |
| KEYCORP | KEY | 9,308.22 | 0.05\% | 3.05\% | 4.50\% | 7.62\% | 0.0037\% |
| KRAFT HEINZ CO/THE | KHC | 107,587.72 | 0.56\% | 2.65\% | 20.38\% | 23.30\% | 0.1303\% |
| KIMCO REALTY CORP | KIM | 13,168.58 | 0.07\% | 3.27\% | 5.67\% | 9.04\% | 0.0062\% |
| KLA-TENCOR CORP | KLAC | 11,405.64 | 0.06\% | 2.87\% | 5.55\% | 8.50\% | 0.0050\% |
| KIMBERLY-CLARK CORP | KMB | 49,510.37 | 0.26\% | 2.67\% | 7.64\% | 10.41\% | 0.0268\% |
| KINDER MORGAN INC | KMI | 41,774.73 | 0.22\% | 2.68\% | 14.65\% | 17.52\% | 0.0381\% |
| CARMAX INC | KMX | 9,486.29 | 0.05\% | 0.00\% | 12.92\% | 12.92\% | 0.0064\% |
| COCA-COLA CO/THE | KO | 196,106.59 | 1.02\% | 3.05\% | 5.72\% | 8.86\% | 0.0903\% |
| MICHAEL KORS HOLDINGS LTD | KORS | 8,730.68 | 0.05\% | 0.00\% | 5.35\% | 5.35\% | 0.0024\% |
| KROGER CO | KR | 34,913.43 | 0.18\% | 1.20\% | 9.44\% | 10.70\% | 0.0194\% |
| KOHLS CORP | KSS | 6,966.25 | 0.04\% | 5.33\% | 3.25\% | 8.67\% | 0.0031\% |
| KANSAS CITY SOUTHERN | KSU | 9,728.61 | 0.05\% | 1.50\% | 9.42\% | 10.99\% | 0.0056\% |
| LOEWS CORP | L | 13,930.18 | N/A | 0.61\% | N/A | N/A | N/A |
| L BRANDS INC | LB | 19,300.04 | 0.10\% | 6.58\% | 10.54\% | 17.47\% | 0.0175\% |
| LEGGETT \& PLATT INC | LEG | 6,865.40 | 0.04\% | 2.56\% | 10.00\% | 12.69\% | 0.0045\% |
| LENNAR CORP-A | LEN | 9,621.04 | 0.05\% | 0.35\% | 11.68\% | 12.04\% | 0.0060\% |
| LABORATORY CRP OF AMER HLDGS | LH | 13,339.65 | 0.07\% | 0.00\% | 11.29\% | 11.29\% | 0.0078\% |
| LKQ CORP | LKQ | 9,721.73 | 0.05\% | 0.00\% | 16.13\% | 16.13\% | 0.0082\% |
| L-3 COMMUNICATIONS HOLDINGS | LLL | 11,288.20 | 0.06\% | 1.94\% | 9.94\% | 11.98\% | 0.0070\% |
| LINEAR TECHNOLOGY CORP | LLTC | 11,125.24 | 0.06\% | 2.65\% | 6.91\% | 9.65\% | 0.0056\% |
| ELI LILLY \& CO | LLY | 86,927.16 | 0.45\% | 2.59\% | 11.85\% | 14.59\% | 0.0660\% |
| LEGG MASON INC | LM | 3,099.71 | 0.02\% | 2.98\% | 15.82\% | 19.04\% | 0.0031\% |
| LOCKHEED MARTIN CORP | LMT | 75,556.11 | 0.39\% | 2.71\% | 7.61\% | 10.42\% | 0.0409\% |
| LINCOLN NATIONAL CORP | LNC | 9,266.31 | 0.05\% | 2.62\% | 11.80\% | 14.58\% | 0.0070\% |
| LOWE'S COS INC | LOW | 70,152.91 | 0.36\% | 1.55\% | 16.39\% | 18.07\% | 0.0659\% |
| LAM RESEARCH CORP | LRCX | 13,415.78 | 0.07\% | 1.41\% | 9.72\% | 11.20\% | 0.0078\% |
| LEUCADIA NATIONAL CORP | LUK | 6,279.18 | 0.03\% | 1.44\% | 18.00\% | 19.57\% | 0.0064\% |
| SOUTHWEST AIRLINES CO | LUV | 25,042.91 | 0.13\% | 0.88\% | 8.46\% | 9.37\% | 0.0122\% |
| LEVEL 3 COMMUNICATIONS INC | LVLT | 18,429.96 | 0.10\% | 0.00\% | -0.69\% | -0.69\% | -0.0007\% |
| LYONDELLBASELL INDU-CLA | LYB | 31,757.03 | 0.17\% | 4.49\% | 5.67\% | 10.28\% | 0.0170\% |
| MACY'S INC | M | 10,365.16 | 0.05\% | 4.50\% | 9.67\% | 14.38\% | 0.0078\% |
| MASTERCARD INC-CLASS A | MA | 96,751.30 | 0.50\% | 0.86\% | 14.60\% | 15.53\% | 0.0781\% |
| MACERICH CO/THE | MAC | 12,679.79 | 0.07\% | 5.05\% | 7.12\% | 12.35\% | 0.0081\% |
| MARRIOTT INTERNATIONAL -CL A | MAR | 16,896.24 | 0.09\% | 1.73\% | 11.96\% | 13.79\% | 0.0121\% |
| MASCO CORP | MAS | 10,295.17 | 0.05\% | 1.24\% | 14.68\% | 16.00\% | 0.0086\% |
| MATTEL INC | MAT | 10,652.55 | 0.06\% | 4.86\% | 10.15\% | 15.25\% | 0.0084\% |
| MCDONALD'S CORP | MCD | 105,641.38 | 0.55\% | 3.04\% | 10.31\% | 13.51\% | 0.0742\% |
| MICROCHIP TECHNOLOGY INC | MCHP | 10,904.02 | 0.06\% | 2.76\% | 9.64\% | 12.53\% | 0.0071\% |
| MCKESSON CORP | MCK | 42,125.74 | 0.22\% | 0.62\% | 12.00\% | 12.65\% | 0.0277\% |
| MOODY'S CORP | MCO | 18,207.85 | 0.09\% | 1.53\% | 11.00\% | 12.61\% | 0.0119\% |
| MONDELEZ INTERNATIONAL INC-A | MDLZ | 70,634.28 | 0.37\% | 1.50\% | 12.99\% | 14.58\% | 0.0535\% |

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| MEDTRONIC PLC | MDT | 121,020.89 | 0.63\% | 1.96\% | 8.31\% | 10.35\% | 0.0651\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| METLIFE INC | MET | 43,759.89 | 0.23\% | 4.04\% | 5.10\% | 9.25\% | 0.0210\% |
| MOHAWK INDUSTRIES INC | MHK | 14,059.56 | 0.07\% | 0.00\% | 11.10\% | 11.10\% | 0.0081\% |
| MEAD JOHNSON NUTRITION CO | MJN | 16,939.75 | 0.09\% | 1.92\% | 9.84\% | 11.85\% | 0.0104\% |
| MCCORMICK \& CO-NON VTG SHRS | MKС | 13,533.19 | 0.07\% | 1.60\% | 9.10\% | 10.77\% | 0.0076\% |
| MARTIN MARIETTA MATERIALS | MLM | 12,197.22 | 0.06\% | 0.83\% | 22.16\% | 23.08\% | 0.0146\% |
| MARSH \& MCLENNAN COS | MMC | 35,683.62 | 0.19\% | 1.94\% | 11.62\% | 13.67\% | 0.0254\% |
| зм CO | MMm | 106,212.82 | 0.55\% | 2.54\% | 8.88\% | 11.53\% | 0.0637\% |
| MALLINCKRODT PLC | MNK | 6,644.80 | 0.03\% | 0.00\% | 9.35\% | 9.35\% | 0.0032\% |
| MONSTER BEVERAGE CORP | MNST | 32,630.99 | 0.17\% | 0.00\% | 18.96\% | 18.96\% | 0.0322\% |
| ALTRIA GROUP INC | мо | 134,915.06 | 0.70\% | 3.45\% | 7.67\% | 11.25\% | 0.0789\% |
| MONSANTO CO | MON | 45,249.69 | 0.24\% | 2.09\% | 7.85\% | 10.02\% | 0.0236\% |
| MOSAIC CO/THE | mOS | 9,158.19 | 0.05\% | 4.20\% | 0.85\% | 5.07\% | 0.0024\% |
| MARATHON PETROLEUM CORP | MPC | 20,112.53 | 0.10\% | 3.47\% | 5.63\% | 9.21\% | 0.0096\% |
| MERCK \& CO. INC. | MRK | 159,465.94 | 0.83\% | 3.19\% | 5.08\% | 8.35\% | 0.0693\% |
| MARATHON OIL CORP | MRO | 12,723.20 | 0.07\% | 1.33\% | -12.38\% | -11.13\% | -0.0074\% |
| MORGAN STANLEY | MS | 50,323.89 | 0.26\% | 2.68\% | 6.43\% | 9.20\% | 0.0241\% |
| MICROSOFT CORP | MSFT | 402,220.09 | 2.09\% | 2.76\% | 8.46\% | 11.33\% | 0.2370\% |
| MOTOROLA SOLUTIONS INC | MSI | 11,518.65 | 0.06\% | 2.50\% | 5.28\% | 7.84\% | 0.0047\% |
| M \& T BANK CORP | мтв | 18,798.45 | 0.10\% | 2.41\% | 4.84\% | 7.30\% | 0.0071\% |
| MICRON TECHNOLOGY INC | MU | 14,269.71 | 0.07\% | 0.00\% | 6.10\% | 6.10\% | 0.0045\% |
| MURPHY OIL CORP | MUR | 5,467.20 | N/A | 4.38\% | N/A | N/A | N/A |
| MYLAN NV | MYL | 21,981.82 | 0.11\% | 0.00\% | 9.42\% | 9.42\% | 0.0108\% |
| NAVIENT CORP | NAVI | 3,949.64 | N/A | 5.41\% | N/A | N/A | N/A |
| NOBLE ENERGY Inc | NBL | 15,409.47 | 0.08\% | 1.11\% | 7.03\% | 8.18\% | 0.0066\% |
| NASDAQ INC | NDAQ | 10,639.16 | 0.06\% | 1.90\% | 7.48\% | 9.45\% | 0.0052\% |
| NEXTERA ENERGY INC | NEE | 60,172.55 | 0.31\% | 2.67\% | 6.32\% | 9.07\% | 0.0284\% |
| NEWMONT MINING CORP | NEM | 20,754.37 | 0.11\% | 0.27\% | 6.13\% | 6.41\% | 0.0069\% |
| NETFLIX INC | NFLX | 39,180.77 | 0.20\% | 0.00\% | 35.50\% | 35.50\% | 0.0723\% |
| NEWFIELD EXPLORATION CO | NFX | 8,769.08 | 0.05\% | 0.00\% | 27.50\% | 27.50\% | 0.0125\% |
| NISOURCE INC | N | 8,527.36 | N/A | 2.41\% | N/A | N/A | N/A |
| NIKE INC -CL B | NKE | 92,996.64 | 0.48\% | 1.34\% | 13.64\% | 15.07\% | 0.0729\% |
| NIELSEN HOLDINGS PLC | NLSN | 18,751.04 | 0.10\% | 2.34\% | 12.33\% | 14.81\% | 0.0144\% |
| NORTHROP GRUMMAN CORP | NOC | 40,110.79 | 0.21\% | 1.54\% | 7.54\% | 9.14\% | 0.0191\% |
| NATIONAL OILWELL VARCO INC | NOV | 12,688.10 | 0.07\% | 1.81\% | -14.31\% | -12.62\% | -0.0083\% |
| NRG ENERGY INC | NRG | 4,720.47 | N/A | 1.60\% | N/A | N/A | N/A |
| NORFOLK SOUTHERN CORP | NSC | 25,176.16 | 0.13\% | 2.82\% | 12.44\% | 15.44\% | 0.0202\% |
| NETAPP INC | NTAP | 6,887.17 | 0.04\% | 3.09\% | 8.97\% | 12.19\% | 0.0044\% |
| NORTHERN TRUST CORP | NTRS | 15,118.13 | 0.08\% | 2.26\% | 11.45\% | 13.84\% | 0.0109\% |
| NUCOR CORP | NUE | 15,708.85 | 0.08\% | 3.04\% | 8.40\% | 11.57\% | 0.0094\% |
| NVIDIA CORP | NVDA | 25,103.34 | 0.13\% | 0.98\% | 9.67\% | 10.70\% | 0.0140\% |
| NEWELL BRANDS INC | NWL | 23,214.12 | 0.12\% | 1.55\% | 13.77\% | 15.43\% | 0.0186\% |
| NEWS CORP - CLASS A | NWSA | 6,646.70 | 0.03\% | 1.76\% | 8.80\% | 10.64\% | 0.0037\% |
| REALTY INCOME CORP | $\bigcirc$ | 17,869.29 | 0.09\% | 3.46\% | 3.67\% | 7.19\% | 0.0067\% |
| OWENS-ILLINOIS INC | OI | 2,916.16 | 0.02\% | 0.00\% | 7.37\% | 7.37\% | 0.0011\% |
| ONEOK INC | OKE | 9,969.46 | 0.05\% | 5.19\% | 7.30\% | 12.68\% | 0.0066\% |
| OMNICOM GROUP | OMC | 19,374.24 | 0.10\% | 2.64\% | 6.45\% | 9.17\% | 0.0092\% |
| ORACLE CORP | ORCL | 168,743.34 | 0.88\% | 1.45\% | 8.25\% | 9.76\% | 0.0857\% |
| O'REILLY AUTOMOTIVE INC | ORLY | 26,149.18 | 0.14\% | 0.00\% | 15.54\% | 15.54\% | 0.0211\% |
| OCCIDENTAL PETROLEUM CORP | OXY | 57,708.31 | 0.30\% | 3.99\% | 8.00\% | 12.15\% | 0.0365\% |
| PAYCHEX INC | PAYX | 21,427.20 | N/A | 2.82\% | N/A | N/A | N/A |
| PEOPLE'S UNITED FINANCIAL | PBCT | 4,557.22 | N/A | 4.62\% | N/A | N/A | N/A |
| PITNEY BOWES INC | PBI | 3,357.44 | 0.02\% | 4.21\% | 14.00\% | 18.51\% | 0.0032\% |
| PACCAR INC | PCAR | 18,178.51 | 0.09\% | 3.57\% | 7.83\% | 11.55\% | 0.0109\% |
| P G \& E CORP | PCG | 31,707.02 | 0.16\% | 3.03\% | 4.98\% | 8.08\% | 0.0133\% |
| PRICELINE GROUP INC/THE | PCLN | 61,970.30 | 0.32\% | 0.00\% | 18.01\% | 18.01\% | 0.0580\% |
| PATTERSON COS INC | PDCO | 4,745.84 | 0.02\% | 2.10\% | 6.95\% | 9.12\% | 0.0023\% |
| PUBLIC SERVICE ENTERPRISE GP | PEG | 23,581.37 | 0.12\% | 3.52\% | 3.22\% | 6.80\% | 0.0083\% |
| PEPSICO INC | PEP | 153,021.54 | 0.80\% | 2.77\% | 6.41\% | 9.27\% | 0.0738\% |
| PFIZER INC | PFE | 213,543.35 | 1.11\% | 3.41\% | 5.80\% | 9.31\% | 0.1033\% |
| PRINCIPAL FINANCIAL GROUP | PFG | 11,915.84 | 0.06\% | 3.83\% | 9.03\% | 13.03\% | 0.0081\% |
| PROCTER \& GAMBLE CO/THE | PG | 225,379.00 | 1.17\% | 3.14\% | 6.25\% | 9.49\% | 0.1112\% |
| PROGRESSIVE CORP | PGR | 19,530.38 | 0.10\% | 1.98\% | 8.37\% | 10.43\% | 0.0106\% |
| PARKER HANNIFIN CORP | PH | 14,552.33 | 0.08\% | 2.33\% | 8.21\% | 10.64\% | 0.0080\% |
| PULTEGROUP INC | PHM | 6,744.17 | 0.04\% | 1.85\% | 14.04\% | 16.02\% | 0.0056\% |
| PERKINELMER INC | PKI | 5,715.38 | 0.03\% | 0.54\% | 19.78\% | 20.37\% | 0.0061\% |
| PROLOGIS INC | PLD | 25,749.96 | 0.13\% | 3.43\% | 5.04\% | 8.55\% | 0.0114\% |
| PHILIP MORRIS INTERNATIONAL | PM | 157,794.61 | 0.82\% | 4.09\% | 8.24\% | 12.50\% | 0.1026\% |
| PNC FINANCIAL SERVICES GROUP | PNC | 40,639.96 | 0.21\% | 2.62\% | 6.03\% | 8.72\% | 0.0184\% |
| PENTAIR PLC | PNR | 10,533.96 | 0.05\% | 2.31\% | 8.66\% | 11.07\% | 0.0061\% |
| PINNACLE WEST CAPITAL | PNW | 9,009.01 | 0.05\% | 3.13\% | 4.64\% | 7.84\% | 0.0037\% |
| PPG INDUSTRIES INC | PPG | 27,710.50 | 0.14\% | 1.49\% | 8.50\% | 10.05\% | 0.0145\% |
| PPL CORP | PPL | 25,554.68 | 0.13\% | 4.03\% | 3.83\% | 7.93\% | 0.0105\% |
| PERRIGO CO PLC | PRGO | 12,986.00 | 0.07\% | 0.64\% | 9.68\% | 10.35\% | 0.0070\% |
| PRUDENTIAL FINANCIAL INC | PRU | 31,532.28 | 0.16\% | 3.95\% | 7.90\% | 12.01\% | 0.0197\% |
| PUBLIC STORAGE | PSA | 44,314.71 | 0.23\% | 2.78\% | 5.51\% | 8.37\% | 0.0193\% |
| PHILLIPS 66 | PSX | 41,699.63 | 0.22\% | 3.01\% | 9.79\% | 12.94\% | 0.0281\% |
| PVH CORP | PVH | 7,619.10 | 0.04\% | 0.16\% | 6.36\% | 6.52\% | 0.0026\% |
| QUANTA SERVICES INC | PWR | 3,491.95 | 0.02\% | 0.00\% | 8.00\% | 8.00\% | 0.0015\% |
| PRAXAIR INC | PX | 32,060.92 | 0.17\% | 2.68\% | 7.11\% | 9.89\% | 0.0165\% |
| PIONEER NATURAL RESOURCES CO | PXD | 25,526.41 | 0.13\% | 0.05\% | 20.00\% | 20.06\% | 0.0266\% |
| PAYPAL HOLDINGS INC | PYPL | 44,251.09 | 0.23\% | 0.00\% | 15.50\% | 15.50\% | 0.0357\% |
| QUALCOMM INC | QCOM | 78,689.78 | 0.41\% | 3.66\% | 10.50\% | 14.35\% | 0.0587\% |
| QORVO INC | QRVO | 7,062.69 | 0.04\% | 0.00\% | 14.70\% | 14.70\% | 0.0054\% |
| RYDER SYSTEM INC | R | 3,283.43 | 0.02\% | 2.76\% | 9.92\% | 12.82\% | 0.0022\% |
| REYNOLDS AMERICAN INC | RAI | 76,976.51 | 0.40\% | 3.14\% | 9.44\% | 12.72\% | 0.0509\% |
| ROYAL CARIBBEAN CRUISES LTD | RCL | 14,453.46 | 0.08\% | 2.34\% | 24.87\% | 27.49\% | 0.0207\% |
| REGENERON PHARMACEUTICALS | REGN | 36,696.60 | 0.19\% | 0.00\% | 22.75\% | 22.75\% | 0.0434\% |
| REGIONS FINANCIAL CORP | RF | 10,779.73 | 0.06\% | 3.11\% | 5.26\% | 8.46\% | 0.0047\% |
| ROBERT HALF INTL INC | RHI | 5,011.12 | 0.03\% | 2.31\% | 11.63\% | 14.07\% | 0.0037\% |
| RED HAT INC | RHT | 13,147.06 | 0.07\% | 0.00\% | 17.70\% | 17.70\% | 0.0121\% |
| TRANSOCEAN LTD | RIG | 4,342.25 | 0.02\% | 0.00\% | -6.20\% | -6.20\% | -0.0014\% |
| RALPH LAUREN CORP | RL | 7,451.16 | 0.04\% | 2.30\% | 7.46\% | 9.84\% | 0.0038\% |
| ROCKWELL AUTOMATION INC | ROK | 14,956.86 | 0.08\% | 2.66\% | 6.93\% | 9.68\% | 0.0075\% |
| ROPER TECHNOLOGIES INC | ROP | 17,260.82 | 0.09\% | 0.68\% | 11.43\% | 12.15\% | 0.0109\% |
| ROSS STORES INC | ROST | 22,648.21 | 0.12\% | 0.95\% | 12.46\% | 13.46\% | 0.0159\% |
| RANGE RESOURCES CORP | RRC | 7,322.82 | 0.04\% | 0.22\% | -24.07\% | -23.87\% | -0.0091\% |
| REPUBLIC SERVICES INC | RSG | 17,645.41 | 0.09\% | 2.39\% | 8.11\% | 10.60\% | 0.0097\% |
| RAYTHEON COMPANY | RTN | 40,374.43 | 0.21\% | 2.12\% | 7.94\% | 10.14\% | 0.0213\% |
| STARBUCKS CORP | SBUX | 83,675.09 | 0.44\% | 1.43\% | 18.45\% | 20.01\% | 0.0871\% |
| SCANA CORP | SCG | 10,813.09 | 0.06\% | 3.03\% | 5.55\% | 8.66\% | 0.0049\% |
| SCHWAB (CHARLES) CORP | SCHW | 33,452.00 | 0.17\% | 1.02\% | 17.31\% | 18.42\% | 0.0320\% |
| SPECTRA ENERGY CORP | SE | 25,674.32 | 0.13\% | 4.46\% | 10.20\% | 14.88\% | 0.0199\% |

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| SEALED AIR CORP | SEE | 9,062.66 | 0.05\% | 1.27\% | 4.27\% | 5.57\% | 0.0026\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| SHERWIN-WILLIAMS CO/THE | SHW | 27,163.04 | 0.14\% | 1.14\% | 15.80\% | 17.03\% | 0.0241\% |
| SIGNET JEWELERS LTD | SIG | 6,428.46 | 0.03\% | 1.26\% | 14.40\% | 15.75\% | 0.0053\% |
| JM Smucker Coithe | SJM | 17,744.54 | 0.09\% | 1.88\% | 8.30\% | 10.26\% | 0.0095\% |
| SCHLUMBERGER LTD | SLB | 110,018.25 | 0.57\% | 2.53\% | 5.63\% | 8.23\% | 0.0471\% |
| SL GREEN REALTY CORP | SLG | 11,098.15 | 0.06\% | 2.79\% | 4.85\% | 7.71\% | 0.0044\% |
| SNAP-ON INC | SNA | 9,176.66 | 0.05\% | 2.03\% | 4.80\% | 6.88\% | 0.0033\% |
| SCRIPPS NETWORKS INTER-CL A | SNI | 8,030.06 | 0.04\% | 1.62\% | 11.73\% | 13.45\% | 0.0056\% |
| SOUTHERN CO/THE | so | 50,334.56 | 0.26\% | 4.15\% | 4.12\% | 8.36\% | 0.0219\% |
| SIMON PROPERTY GROUP INC | SPG | 67,112.51 | 0.35\% | 3.01\% | 7.92\% | 11.05\% | 0.0386\% |
| S\&P GLobal inc | SPGI | 28,402.45 | 0.15\% | 1.35\% | 10.00\% | 11.42\% | 0.0169\% |
| STAPLES INC | SPLS | 5,571.00 | 0.03\% | 5.57\% | 1.60\% | 7.22\% | 0.0021\% |
| STERICYCLE INC | SRCL | 8,841.10 | 0.05\% | 0.00\% | 14.28\% | 14.28\% | 0.0066\% |
| SEMPRA ENERGY | SRE | 28,447.62 | 0.15\% | 2.65\% | 6.88\% | 9.62\% | 0.0142\% |
| SUNTRUST BANKS INC | STI | 20,586.32 | 0.11\% | 2.46\% | 6.19\% | 8.73\% | 0.0093\% |
| ST JUDE MEDICAL INC | STJ | 22,173.64 | 0.12\% | 1.59\% | 10.63\% | 12.30\% | 0.0142\% |
| STATE STREET CORP | STT | 21,349.10 | 0.11\% | 2.65\% | 10.71\% | 13.50\% | 0.0150\% |
| SEAGATE TECHNOLOGY | STX | 7,271.06 | 0.04\% | 9.81\% | 1.43\% | 11.31\% | 0.0043\% |
| CONSTELLATION BRANDS INC-A | STZ | 33,177.89 | 0.17\% | 0.97\% | 14.80\% | 15.84\% | 0.0273\% |
| STANLEY BLACK \& DECKER INC | swk | 16,695.97 | 0.09\% | 2.03\% | 10.50\% | 12.64\% | 0.0110\% |
| SKYWORKS SOLUTIONS INC | SWKS | 12,038.27 | 0.06\% | 1.66\% | 17.77\% | 19.57\% | 0.0123\% |
| SOUTHWESTERN ENERGY CO | SWN | 6,021.63 | 0.03\% | 0.00\% | -19.71\% | -19.71\% | -0.0062\% |
| SYNCHRONY FINANCIAL | SYF | 21,081.51 | 0.11\% | 1.09\% | 6.25\% | 7.37\% | 0.0081\% |
| STRYKER CORP | SYK | 44,814.15 | 0.23\% | 1.28\% | 10.41\% | 11.76\% | 0.0274\% |
| SYMANTEC CORP | SYMC | 12,576.48 | 0.07\% | 1.48\% | 8.69\% | 10.23\% | 0.0067\% |
| SYSCO CORP | SYY | 28,592.80 | 0.15\% | 2.41\% | 9.21\% | 11.73\% | 0.0174\% |
| AT\&T INC | T | 266,000.76 | 1.38\% | 4.46\% | 3.92\% | 8.47\% | 0.1171\% |
| MOLSON COORS BREWING CO-B | TAP | 21,710.61 | 0.11\% | 1.62\% | 19.77\% | 21.55\% | 0.0243\% |
| TERADATA CORP | TDC | 3,259.10 | 0.02\% | 0.00\% | 9.67\% | 9.67\% | 0.0016\% |
| TRANSDIGM GROUP INC | TDG | 13,970.15 | 0.07\% | 0.00\% | 13.88\% | 13.88\% | 0.0101\% |
| TECO ENERGY INC | TE | 6,510.60 | 0.03\% | 3.35\% | 5.87\% | 9.32\% | 0.0032\% |
| TE CONNECTIVITY LTD | TEL | 20,423.46 | 0.11\% | 2.39\% | 12.20\% | 14.73\% | 0.0156\% |
| TEGNA INC | TGNA | 5,041.51 | 0.03\% | 2.42\% | 8.03\% | 10.55\% | 0.0028\% |
| TARGET CORP | TGT | 41,143.15 | 0.21\% | 3.30\% | 10.69\% | 14.17\% | 0.0303\% |
| TIFFANY \& CO | TIF | 7,641.70 | 0.04\% | 2.73\% | 8.32\% | 11.16\% | 0.0044\% |
| TJX COMPANIES INC | TJX | 51,055.48 | 0.27\% | 1.33\% | 11.56\% | 12.97\% | 0.0344\% |
| TORCHMARK CORP | TMK | 7,458.63 | 0.04\% | 0.91\% | 7.98\% | 8.93\% | 0.0035\% |
| THERMO FISHER SCIENTIFIC INC | тмо | 58,145.37 | 0.30\% | 0.41\% | 11.83\% | 12.26\% | 0.0371\% |
| TRIPADVISOR INC | TRIP | 9,368.91 | 0.05\% | 0.00\% | 14.94\% | 14.94\% | 0.0073\% |
| T ROWE PRICE GROUP INC | TROW | 18,111.38 | 0.09\% | 2.96\% | 10.46\% | 13.57\% | 0.0128\% |
| TRAVELERS COS Inc/the | TRV | 34,806.66 | 0.18\% | 2.21\% | 8.04\% | 10.34\% | 0.0187\% |
| TRACTOR SUPPLY COMPANY | TSCO | 12,165.87 | 0.06\% | 0.96\% | 15.66\% | 16.70\% | 0.0106\% |
| TYSON FOODS INC-CL A | TSN | 26,879.48 | 0.14\% | 0.92\% | 12.30\% | 13.27\% | 0.0186\% |
| TESORO CORP | TSO | 8,988.59 | 0.05\% | 2.75\% | -1.11\% | 1.63\% | 0.0008\% |
| TOTAL SYSTEM SERVICES INC | TSS | 9,751.64 | 0.05\% | 0.75\% | 11.00\% | 11.79\% | 0.0060\% |
| TIME WARNER INC | TwX | 57,831.44 | 0.30\% | 2.19\% | 14.38\% | 16.73\% | 0.0503\% |
| TEXAS INSTRUMENTS INC | TXN | 62,914.82 | 0.33\% | 2.45\% | 10.00\% | 12.58\% | 0.0411\% |
| TEXTRON INC | TXT | 9,828.49 | 0.05\% | 0.23\% | 7.31\% | 7.55\% | 0.0039\% |
| TYCO INTERNATIONAL PLC | TYC | 18,126.21 | 0.09\% | 2.02\% | 10.03\% | 12.15\% | 0.0115\% |
| UNDER ARMOUR INC-CLASS A | UA | 16,643.53 | 0.09\% | 0.00\% | 23.89\% | 23.89\% | 0.0207\% |
| UNITED CONTINENTAL HOLDINGS | UAL | 13,777.11 | 0.07\% | 0.00\% | -12.07\% | -12.07\% | -0.0086\% |
| UDR INC | UDR | 9,862.71 | 0.05\% | 3.20\% | 6.73\% | 10.03\% | 0.0051\% |
| UNIVERSAL HEALTH SERVICES-B | UHS | 13,018.95 | 0.07\% | 0.30\% | 8.88\% | 9.19\% | 0.0062\% |
| ULTA SALON COSMETICS \& FRAGR | ULTA | 15,216.45 | 0.08\% | 0.00\% | 21.00\% | 21.00\% | 0.0166\% |
| UNITEDHEALTH GROUP INC | UNH | 134,253.54 | 0.70\% | 1.43\% | 13.02\% | 14.54\% | 0.1015\% |
| UNUM GROUP | UNM | 7,558.35 | 0.04\% | 2.46\% | 7.60\% | 10.15\% | 0.0040\% |
| UNION PACIFIC CORP | UNP | 73,380.24 | 0.38\% | 2.57\% | 13.08\% | 15.83\% | 0.0604\% |
| UNITED PARCEL SERVICE-CL B | UPS | 95,081.12 | 0.49\% | 2.89\% | 10.04\% | 13.08\% | 0.0647\% |
| URBAN OUTFITTERS INC | URBN | 3,221.25 | 0.02\% | 0.00\% | 13.01\% | 13.01\% | 0.0022\% |
| UNITED RENTALS INC | URI | 5,938.51 | 0.03\% | 0.00\% | 14.13\% | 14.13\% | 0.0044\% |
| US BANCORP | USB | 69,625.84 | 0.36\% | 2.67\% | 5.86\% | 8.61\% | 0.0312\% |
| UNITED TECHNOLOGIES CORP | UTX | 85,820.58 | 0.45\% | 2.61\% | 9.56\% | 12.29\% | 0.0548\% |
| VISA INC-CLASS A SHARES | $\checkmark$ | 176,888.54 | 0.92\% | 0.76\% | 17.45\% | 18.27\% | 0.1680\% |
| VARIAN MEDICAL SYSTEMS INC | VAR | 7,829.49 | 0.04\% | 0.00\% | 12.05\% | 12.05\% | 0.0049\% |
| VF CORP | VFC | 25,642.45 | 0.13\% | 2.46\% | 10.77\% | 13.36\% | 0.0178\% |
| VIACOM INC-CLASS B | VIAB | 16,668.47 | 0.09\% | 3.89\% | 5.81\% | 9.81\% | 0.0085\% |
| VALERO ENERGY CORP | VLO | 23,959.93 | 0.12\% | 4.74\% | 2.70\% | 7.50\% | 0.0093\% |
| VULCAN MATERIALS CO | VMC | 16,030.53 | 0.08\% | 0.67\% | 23.08\% | 23.82\% | 0.0199\% |
| VORNADO REALTY TRUST | VNO | 18,899.75 | 0.10\% | 2.59\% | 5.36\% | 8.02\% | 0.0079\% |
| VERISK ANALYTICS INC | VRSK | 13,634.93 | 0.07\% | 0.00\% | 12.00\% | 12.00\% | 0.0085\% |
| VERISIGN INC | VRSN | 9,378.79 | 0.05\% | 0.00\% | 9.85\% | 9.85\% | 0.0048\% |
| VERTEX PHARMACEUTICALS INC | VRTX | 21,277.04 | 0.11\% | 0.00\% | 50.53\% | 50.53\% | 0.0559\% |
| VENTAS INC | VTR | 24,622.78 | 0.13\% | 4.05\% | 1.93\% | 6.01\% | 0.0077\% |
| VERIZON COMMUNICATIONS INC | VZ | 227,619.92 | 1.18\% | 4.09\% | 3.95\% | 8.12\% | 0.0961\% |
| WATERS CORP | WAT | 11,384.42 | 0.06\% | 0.00\% | 8.92\% | 8.92\% | 0.0053\% |
| WALGREENS BOOTS ALLIANCE INC | WBA | 89,952.06 | 0.47\% | 1.75\% | 13.59\% | 15.46\% | 0.0723\% |
| WESTERN DIGITAL CORP | WDC | 13,300.73 | 0.07\% | 3.88\% | 1.90\% | 5.81\% | 0.0040\% |
| WEC ENERGY GROUP INC | WEC | 20,611.76 | 0.11\% | 3.03\% | 5.50\% | 8.62\% | 0.0092\% |
| WELLS FARGO \& CO | WFC | 240,296.67 | 1.25\% | 3.27\% | 11.47\% | 14.93\% | 0.1866\% |
| WHOLE FOODS MARKET INC | WFM | 10,279.29 | 0.05\% | 1.69\% | 8.55\% | 10.31\% | 0.0055\% |
| WHIRLPOOL CORP | WHR | 12,659.12 | 0.07\% | 2.26\% | 15.17\% | 17.60\% | 0.0116\% |
| WILLIS TOWERS WATSON PLC | WLTW | 17,209.58 | 0.09\% | 1.54\% | 21.47\% | 23.18\% | 0.0207\% |
| WASTE MANAGEMENT INC | WM | 29,441.22 | 0.15\% | 2.47\% | 8.50\% | 11.08\% | 0.0170\% |
| WILLIAMS COS INC | WMB | 16,234.82 | 0.08\% | 10.29\% | -2.07\% | 8.11\% | 0.0068\% |
| WAL-MART STORES INC | WMT | 227,577.54 | 1.18\% | 2.73\% | 2.87\% | 5.64\% | 0.0668\% |
| WESTROCK CO | WRK | 9,818.94 | 0.05\% | 3.86\% | 2.85\% | 6.76\% | 0.0035\% |
| WESTERN UNION CO | WU | 9,420.00 | 0.05\% | 3.34\% | 6.80\% | 10.25\% | 0.0050\% |
| WEYERHAEUSER CO | WY | 22,240.38 | 0.12\% | 4.26\% | 12.27\% | 16.78\% | 0.0194\% |
| WYNDHAM WORLDWIDE CORP | WYN | 7,974.32 | 0.04\% | 2.81\% | 7.65\% | 10.57\% | 0.0044\% |
| WYNN RESORTS LTD | WYNN | 9,226.33 | 0.05\% | 2.25\% | 10.00\% | 12.37\% | 0.0059\% |
| CIMAREX ENERGY CO | XEC | 11,313.33 | 0.06\% | 0.34\% | -4.37\% | -4.04\% | -0.0024\% |
| XCEL ENERGY INC | XEL | 22,746.13 | 0.12\% | 3.04\% | 5.00\% | 8.12\% | 0.0096\% |
| XL GROUP PLC | XL | 9,439.01 | 0.05\% | 2.48\% | 9.00\% | 11.59\% | 0.0057\% |
| XILINX INC | XLNX | 11,684.36 | 0.06\% | 2.83\% | 8.23\% | 11.18\% | 0.0068\% |
| EXXON MOBIL CORP | хом | 388,703.35 | 2.02\% | 3.18\% | 13.71\% | 17.11\% | 0.3457\% |
| DENTSPLY SIRONA INC | XRAY | 14,531.69 | 0.08\% | 0.47\% | 9.92\% | 10.42\% | 0.0079\% |
| XEROX CORP | XRX | 9,613.39 | 0.05\% | 3.30\% | 11.60\% | 15.09\% | 0.0075\% |
| XYLEM INC | XYL | 7,987.77 | 0.04\% | 1.39\% | 15.00\% | 16.49\% | 0.0068\% |
| YAHOO! INC | YHOO | 35,678.96 | 0.19\% | 0.00\% | 4.93\% | 4.93\% | 0.0091\% |
| YUM! BRANDS INC | YUM | 33,784.99 | 0.18\% | 2.28\% | 11.85\% | 14.26\% | 0.0251\% |
| ZIMMER BIOMET HOLDINGS INC | ZBH | 24,037.33 | 0.12\% | 0.78\% | 10.49\% | 11.31\% | 0.0141\% |
| ZIONS BANCORPORATION | ZION | 5,142.19 | 0.03\% | 1.18\% | 9.00\% | 10.24\% | 0.0027\% |
| ZOETIS INC | ZTS | 23,549.76 | 0.12\% | 0.80\% | 13.93\% | 14.79\% | 0.0181\% |

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| CHUBB LTD | CB | 59,725.50 | 0.34\% | 2.15\% | 8.00\% | 10.24\% | 0.0348\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| CBRE GROUP INC - A | CBG | 10,062.14 | 0.06\% | 0.00\% | 10.00\% | 10.00\% | 0.0057\% |
| CBS CORP-CLASS B NON VOTING | CBS | 24,375.26 | 0.14\% | 1.12\% | 13.00\% | 14.19\% | 0.0197\% |
| CROWN CASTLE INTL CORP | CCI | 32,432.77 | 0.18\% | 3.87\% | 21.00\% | 25.28\% | 0.0467\% |
| CARNIVAL CORP | CCL | 37,266.80 | 0.21\% | 2.84\% | 15.50\% | 18.56\% | 0.0394\% |
| CELGENE CORP | CELG | 77,981.30 | 0.44\% | 0.00\% | 24.00\% | 24.00\% | 0.1066\% |
| CERNER CORP | CERN | 19,223.47 | 0.11\% | 0.00\% | 13.50\% | 13.50\% | 0.0148\% |
| CF INDUSTRIES HOLDINGS INC | CF | 6,442.30 | 0.04\% | 4.88\% | 8.00\% | 13.08\% | 0.0048\% |
| CITIZENS FINANCIAL GROUP | CFG | 11,700.02 | N/A | 2.17\% | N/A | N/A | N/A |
| CHURCH \& DWIGHT CO INC | CHD | 12,882.26 | 0.07\% | 1.41\% | 7.00\% | 8.46\% | 0.0062\% |
| CHESAPEAKE ENERGY CORP | CHK | 3,169.94 | N/A | 0.00\% | N/A | N/A | N/A |
| C.H. ROBINSON WORLDWIDE INC | CHRW | 10,286.79 | 0.06\% | 2.39\% | 7.50\% | 9.98\% | 0.0058\% |
| CIGNA CORP | Cl | 33,282.56 | 0.19\% | 0.03\% | 12.50\% | 12.53\% | 0.0238\% |
| CINCINNATI FINANCIAL CORP | CINF | 11,807.21 | 0.07\% | 2.67\% | 6.50\% | 9.26\% | 0.0062\% |
| COLGATE-PALMOLIVE CO | CL | 64,895.62 | 0.37\% | 2.15\% | 14.00\% | 16.30\% | 0.0602\% |
| CLOROX COMPANY | CLX | 17,355.54 | 0.10\% | 2.41\% | 8.50\% | 11.01\% | 0.0109\% |
| COMERICA INC | CMA | 7,787.47 | 0.04\% | 1.98\% | 6.50\% | 8.54\% | 0.0038\% |
| COMCAST CORP-CLASS A | CMCSA | 152,792.00 | 0.87\% | 1.75\% | 10.00\% | 11.84\% | 0.1030\% |
| CME GROUP INC | CME | 32,426.98 | 0.18\% | 2.50\% | 9.50\% | 12.12\% | 0.0224\% |
| CHIPOTLE MEXICAN GRILL INC | CMG | 12,000.10 | 0.07\% | 0.00\% | 13.50\% | 13.50\% | 0.0092\% |
| CUMMINS INC | CMI | 20,270.79 | 0.12\% | 3.28\% | 5.00\% | 8.36\% | 0.0097\% |
| CMS ENERGY CORP | CMS | 12,170.33 | 0.07\% | 2.94\% | 6.00\% | 9.03\% | 0.0063\% |
| CENTENE CORP | CNC | 11,904.16 | 0.07\% | 0.00\% | 19.50\% | 19.50\% | 0.0132\% |
| CENTERPOINT ENERGY INC | CNP | 10,115.12 | 0.06\% | 4.47\% | 2.00\% | 6.51\% | 0.0038\% |
| CAPITAL ONE FINANCIAL CORP | COF | 33,749.82 | 0.19\% | 2.44\% | 3.50\% | 5.98\% | 0.0115\% |
| CABOT OIL \& GAS CORP | COG | 11,741.25 | 0.07\% | 0.32\% | 39.00\% | 39.38\% | 0.0263\% |
| COACH INC | COH | 11,235.50 | 0.06\% | 3.34\% | 4.50\% | 7.92\% | 0.0051\% |
| ROCKWELL COLLINS INC | COL | 11,320.02 | 0.06\% | 1.61\% | 8.00\% | 9.67\% | 0.0062\% |
| CONOCOPHILLIPS | COP | 56,507.59 | 0.32\% | 2.19\% | 6.50\% | 8.76\% | 0.0282\% |
| COSTCO WHOLESALE CORP | COST | 68,836.93 | 0.39\% | 1.15\% | 9.00\% | 10.20\% | 0.0400\% |
| CAMPBELL SOUP CO | CPB | 19,355.76 | 0.11\% | 2.00\% | 5.50\% | 7.56\% | 0.0083\% |
| COLUMBIA PIPELINE GROUP | CPGX | 10,201.76 | N/A | 2.12\% | N/A | N/A | N/A |
| SALESFORCE.COM INC | CRM | 55,744.70 | N/A | 0.00\% | N/A | N/A | N/A |
| CISCO SYSTEMS INC | CSCO | 147,093.50 | 0.84\% | 3.56\% | 6.00\% | 9.67\% | 0.0810\% |
| CSRA INC | CSRA | 4,002.10 | N/A | 1.63\% | N/A | N/A | N/A |
| CSX CORP | CSX | 25,808.41 | 0.15\% | 2.67\% | 7.00\% | 9.76\% | 0.0143\% |
| CINTAS CORP | CTAS | 10,244.95 | 0.06\% | 1.10\% | 11.00\% | 12.16\% | 0.0071\% |
| CENTURYLINK INC | CTL | 15,576.60 | 0.09\% | 7.57\% | 14.50\% | 22.62\% | 0.0201\% |
| COGNIZANT TECH SOLUTIONS-A | CTSH | 38,008.74 | 0.22\% | 0.00\% | 12.50\% | 12.50\% | 0.0271\% |
| CITRIX SYSTEMS INC | CTXS | 13,345.13 | 0.08\% | 0.00\% | 11.00\% | 11.00\% | 0.0084\% |
| CVS HEALTH CORP | CVS | 101,635.60 | 0.58\% | 1.81\% | 11.50\% | 13.41\% | 0.0776\% |
| CHEVRON CORP | CVX | 196,838.30 | 1.12\% | 4.10\% | 4.50\% | 8.69\% | 0.0974\% |
| CONCHO RESOURCES INC | CXO | 17,096.87 | 0.10\% | 0.00\% | 16.50\% | 16.50\% | 0.0161\% |
| DOMINION RESOURCES INC/VA | D | 44,148.15 | 0.25\% | 3.94\% | 8.00\% | 12.10\% | 0.0304\% |
| DELTA AIR LINES INC | DAL | 29,559.27 | 0.17\% | 2.09\% | 14.50\% | 16.74\% | 0.0282\% |
| DU PONT (E.I.) DE NEMOURS | DD | 60,448.64 | 0.34\% | 2.31\% | 7.00\% | 9.39\% | 0.0323\% |
| DEERE \& CO | DE | 26,488.89 | 0.15\% | 2.85\% | -1.50\% | 1.33\% | 0.0020\% |
| DISCOVER FINANCIAL SERVICES | DFS | 22,484.24 | 0.13\% | 2.06\% | 5.00\% | 7.11\% | 0.0091\% |
| DOLLAR GENERAL CORP | DG | 26,016.77 | 0.15\% | 1.15\% | 13.50\% | 14.73\% | 0.0218\% |
| QUEST DIAGNOSTICS INC | DGX | 11,354.73 | 0.06\% | 1.99\% | 10.00\% | 12.09\% | 0.0078\% |
| DR HORTON INC | DHI | 11,600.17 | 0.07\% | 1.02\% | 13.00\% | 14.09\% | 0.0093\% |
| DANAHER CORP | DHR | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| WALT DISNEY CO/THE | DIS | 168,334.00 | 0.96\% | 1.43\% | 10.00\% | 11.50\% | 0.1102\% |
| DISCOVERY COMMUNICATIONS-A | DISCA | 10,698.84 | 0.06\% | 0.00\% | 17.00\% | 17.00\% | 0.0104\% |
| DELPHI AUTOMOTIVE PLC | DLPH | 19,348.80 | 0.11\% | 1.75\% | 14.50\% | 16.38\% | 0.0180\% |
| DIGITAL REALTY TRUST INC | DLR | - | N/A | 3.44\% | N/A | N/A | N/A |
| DOLLAR TREE INC | DLTR | 21,764.73 | 0.12\% | 0.00\% | 21.00\% | 21.00\% | 0.0260\% |
| DUN \& BRADSTREET CORP | DNB | 4,631.43 | 0.03\% | 1.51\% | 5.00\% | 6.55\% | 0.0017\% |
| DIAMOND OFFSHORE DRILLING | DO | 3,547.22 | 0.02\% | 0.00\% | 11.50\% | 11.50\% | 0.0023\% |
| DOVER CORP | DOV | 11,117.98 | 0.06\% | 2.34\% | 2.00\% | 4.36\% | 0.0028\% |
| DOW CHEMICAL CO/THE | DOW | 60,273.41 | 0.34\% | 3.58\% | 9.50\% | 13.25\% | 0.0455\% |
| DR PEPPER SNAPPLE GROUP INC | DPS | 17,282.27 | 0.10\% | 2.31\% | 8.00\% | 10.40\% | 0.0102\% |
| DARDEN RESTAURANTS INC | DRI | 8,614.83 | 0.05\% | 2.94\% | 13.50\% | 16.64\% | 0.0082\% |
| DTE ENERGY COMPANY | DTE | 16,877.66 | 0.10\% | 3.28\% | 5.00\% | 8.36\% | 0.0080\% |
| DUKE ENERGY CORP | DUK | 56,532.45 | 0.32\% | 4.13\% | 4.50\% | 8.72\% | 0.0281\% |
| DAVITA HEALTHCARE PARTNERS I | DVA | 15,923.22 | 0.09\% | 0.00\% | 11.00\% | 11.00\% | 0.0100\% |
| DEVON ENERGY CORP | DVN | 20,331.20 | 0.12\% | 0.62\% | 1.00\% | 1.62\% | 0.0019\% |
| ELECTRONIC ARTS INC | EA | 22,860.78 | 0.13\% | 0.00\% | 17.00\% | 17.00\% | 0.0221\% |
| EBAY INC | EBAY | 28,403.55 | 0.16\% | 0.00\% | 3.50\% | 3.50\% | 0.0057\% |
| ECOLAB INC | ECL | 35,471.70 | 0.20\% | 1.16\% | 8.50\% | 9.71\% | 0.0196\% |
| CONSOLIDATED EDISON INC | ED | 22,596.84 | 0.13\% | 3.54\% | 1.50\% | 5.07\% | 0.0065\% |
| EQUIFAX INC | EFX | 15,108.24 | 0.09\% | 1.04\% | 9.50\% | 10.59\% | 0.0091\% |
| EDISON INTERNATIONAL | EIX | 24,106.76 | 0.14\% | 2.69\% | 3.50\% | 6.24\% | 0.0086\% |
| ESTEE LAUDER COMPANIES-CL A | EL | 35,052.88 | 0.20\% | 1.26\% | 8.00\% | 9.31\% | 0.0186\% |
| EMC CORP/MA | EMC | 54,410.58 | 0.31\% | 1.65\% | 3.50\% | 5.18\% | 0.0160\% |
| EASTMAN CHEMICAL CO | EMN | 10,789.86 | 0.06\% | 2.52\% | 9.50\% | 12.14\% | 0.0075\% |
| EMERSON ELECTRIC CO | EMR | 34,523.82 | 0.20\% | 3.54\% | 2.00\% | 5.58\% | 0.0110\% |
| ENDO INTERNATIONAL PLC | ENDP | 3,526.89 | 0.02\% | 0.00\% | 39.00\% | 39.00\% | 0.0078\% |
| EOG RESOURCES INC | EOG | 46,491.22 | 0.26\% | 0.91\% | 2.50\% | 3.42\% | 0.0091\% |
| EQUINIXINC | EQIX | 26,759.63 | 0.15\% | 1.82\% | 24.50\% | 26.54\% | 0.0404\% |
| EQUITY RESIDENTIAL | EQR | - | N/A | 3.10\% | N/A | N/A | N/A |
| EQT CORP | EQT | 12,648.38 | 0.07\% | 0.15\% | 12.00\% | 12.16\% | 0.0088\% |
| EVERSOURCE ENERGY | ES | 17,896.82 | 0.10\% | 3.26\% | 6.00\% | 9.36\% | 0.0095\% |
| EXPRESS SCRIPTS HOLDING CO | ESRX | 48,670.87 | 0.28\% | 0.00\% | 15.50\% | 15.50\% | 0.0430\% |
| ESSEX PROPERTY TRUST INC | ESS | - | N/A | 2.99\% | N/A | N/A | N/A |
| E*TRADE FINANCIAL CORP | ETFC | 7,320.79 | 0.04\% | 0.00\% | 17.50\% | 17.50\% | 0.0073\% |
| EATON CORP PLC | ETN | 28,771.56 | 0.16\% | 3.63\% | 5.00\% | 8.72\% | 0.0143\% |
| ENTERGY CORP | ETR | 13,966.07 | 0.08\% | 4.42\% | 3.50\% | 8.00\% | 0.0064\% |
| EDWARDS LIFESCIENCES CORP | EW | 20,995.05 | 0.12\% | 0.00\% | 17.00\% | 17.00\% | 0.0203\% |
| EXELON CORP | EXC | 32,223.90 | 0.18\% | 3.63\% | 7.00\% | 10.76\% | 0.0197\% |
| EXPEDITORS INTL WASH INC | EXPD | 8,898.35 | 0.05\% | 1.63\% | 11.00\% | 12.72\% | 0.0064\% |
| EXPEDIA INC | EXPE | 16,460.71 | 0.09\% | 0.87\% | 23.00\% | 23.97\% | 0.0225\% |
| EXTRA SPACE STORAGE INC | EXR | - | N/A | 3.59\% | N/A | N/A | N/A |

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| FORD MOTOR CO | F | 53,235.99 | 0.30\% | 4.48\% | 7.00\% | 11.64\% | 0.0353\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| FASTENAL CO | FAST | 13,161.05 | 0.07\% | 2.63\% | 7.00\% | 9.72\% | 0.0073\% |
| FACEBOOK INC-A | FB | 329,128.80 | 1.87\% | 0.00\% | 34.00\% | 34.00\% | 0.6372\% |
| FORTUNE BRANDS HOME \& SECURI | FBHS | 8,717.89 | 0.05\% | 1.13\% | 15.00\% | 16.21\% | 0.0080\% |
| FREEPORT-MCMORAN INC | FCX | 14,736.04 | 0.08\% | 0.00\% | 36.50\% | 36.50\% | 0.0306\% |
| FEDEX CORP | FDX | 50,209.02 | 0.29\% | 1.01\% | 12.50\% | 13.57\% | 0.0388\% |
| FIRSTENERGY CORP | FE | 14,083.45 | 0.08\% | 4.34\% | 9.00\% | 13.54\% | 0.0109\% |
| F5 NETWORKS INC | FFIV | 8,134.17 | 0.05\% | 0.00\% | 9.00\% | 9.00\% | 0.0042\% |
| FIDELITY NATIONAL INFO SERV | FIS | 24,020.75 | 0.14\% | 1.41\% | 13.50\% | 15.01\% | 0.0205\% |
| FISERV INC | FISV | 23,555.49 | 0.13\% | 0.00\% | 9.50\% | 9.50\% | 0.0127\% |
| FIFTH THIRD BANCORP | FITB | 14,723.70 | 0.08\% | 2.93\% | 3.00\% | 5.97\% | 0.0050\% |
| FOOT LOCKER INC | FL | 7,226.46 | 0.04\% | 2.07\% | 9.00\% | 11.16\% | 0.0046\% |
| FLIR SYSTEMS INC | FLIR | 4,342.20 | 0.02\% | 1.59\% | 8.00\% | 9.65\% | 0.0024\% |
| FLUOR CORP | FLR | 7,376.04 | 0.04\% | 1.59\% | 1.50\% | 3.10\% | 0.0013\% |
| FLOWSERVE CORP | FLS | 6,517.90 | 0.04\% | 1.51\% | 2.50\% | 4.03\% | 0.0015\% |
| FMC CORP | FMC | 6,593.97 | 0.04\% | 1.38\% | 4.50\% | 5.91\% | 0.0022\% |
| TWENTY-FIRST CENTURY FOX-A | FOXA | 31,995.17 | 0.18\% | 1.03\% | 10.50\% | 11.58\% | 0.0211\% |
| FEDERAL REALTY INVS TRUST | FRT | - | N/A | 2.52\% | N/A | N/A | N/A |
| FIRST SOLAR INC | FSLR | 4,972.96 | 0.03\% | 0.00\% | 8.50\% | 8.50\% | 0.0024\% |
| FMC TECHNOLOGIES INC | FTI | 6,358.48 | 0.04\% | 0.00\% | -1.00\% | -1.00\% | -0.0004\% |
| FRONTIER COMMUNICATIONS CORP | FTR | 5,980.56 | 0.03\% | 8.24\% | 13.50\% | 22.30\% | 0.0076\% |
| AGL RESOURCES INC | GAS | 7,962.40 | 0.05\% | 3.21\% | 5.00\% | 8.29\% | 0.0038\% |
| GENERAL DYNAMICS CORP | GD | 42,723.34 | 0.24\% | 2.18\% | 7.00\% | 9.26\% | 0.0225\% |
| GENERAL ELECTRIC CO | GE | 286,812.50 | 1.63\% | 2.95\% | 9.50\% | 12.59\% | 0.2056\% |
| GENERAL GROWTH PROPERTIES | GGP | , | N/A | 2.69\% | N/A | N/A | N/A |
| GILEAD SCIENCES INC | GILD | 112,382.80 | 0.64\% | 2.26\% | 10.00\% | 12.37\% | 0.0792\% |
| GENERAL MILLS INC | GIS | 39,634.68 | 0.23\% | 2.76\% | 5.00\% | 7.83\% | 0.0177\% |
| CORNING INC | GLW | 22,349.25 | 0.13\% | 2.60\% | 6.00\% | 8.68\% | 0.0110\% |
| GENERAL MOTORS CO | GM | 45,917.58 | 0.26\% | 5.10\% | 11.00\% | 16.38\% | 0.0428\% |
| ALPHABET INC-CL A | GOOGL | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| GENUINE PARTS CO | GPC | 14,874.02 | 0.08\% | 2.65\% | 7.00\% | 9.74\% | 0.0083\% |
| GLOBAL PAYMENTS INC | GPN | 9,809.47 | 0.06\% | 0.05\% | 14.00\% | 14.05\% | 0.0079\% |
| GAP INC/THE | GPS | 8,330.14 | 0.05\% | 4.44\% | 1.50\% | 5.97\% | 0.0028\% |
| GARMIN LTD | GRMN | 8,188.27 | 0.05\% | 4.76\% | -1.00\% | 3.74\% | 0.0017\% |
| GOLDMAN SACHS GROUP INC | GS | 63,746.54 | 0.36\% | 1.70\% | 7.00\% | 8.76\% | 0.0318\% |
| GOODYEAR TIRE \& RUBBER CO | GT | 7,291.06 | 0.04\% | 1.13\% | 8.50\% | 9.68\% | 0.0040\% |
| WW GRAINGER INC | GWW | 13,856.93 | 0.08\% | 2.16\% | 6.00\% | 8.22\% | 0.0065\% |
| HALLIBURTON CO | HAL | 39,330.72 | 0.22\% | 1.57\% | 8.00\% | 9.63\% | 0.0216\% |
| HARMAN INTERNATIONAL | HAR | 5,420.74 | 0.03\% | 1.82\% | 17.00\% | 18.97\% | 0.0059\% |
| HASBRO INC | HAS | 10,763.36 | 0.06\% | 2.37\% | 11.00\% | 13.50\% | 0.0083\% |
| HUNTINGTON BANCSHARES INC | HBAN | 7,512.78 | 0.04\% | 3.29\% | 9.00\% | 12.44\% | 0.0053\% |
| HANESBRANDS INC | HBI | 9,992.77 | 0.06\% | 1.66\% | 11.50\% | 13.26\% | 0.0075\% |
| HCA HOLDINGS INC | HCA | 31,393.59 | 0.18\% | 0.00\% | 11.00\% | 11.00\% | 0.0197\% |
| WELLTOWER INC | HCN |  | N/A | 4.78\% | N/A | N/A | N/A |
| HCP INC | HCP | - | 0.00\% | 6.74\% | 74.00\% | 83.23\% | 0.0000\% |
| HOME DEPOT INC | HD | 159,721.10 | 0.91\% | 2.15\% | 12.50\% | 14.78\% | 0.1345\% |
| HESS CORP | HES | 18,930.29 | 0.11\% | 1.67\% | -1.00\% | 0.66\% | 0.0007\% |
| HARTFORD FINANCIAL SVCS GRP | HIG | 17,786.31 | 0.10\% | 1.87\% | 11.50\% | 13.48\% | 0.0137\% |
| HARLEY-DAVIDSON INC | HOG | 8,485.88 | 0.05\% | 2.99\% | 9.00\% | 12.12\% | 0.0059\% |
| HOLOGIC INC | HOLX | 9,965.05 | 0.06\% | 0.00\% | 21.00\% | 21.00\% | 0.0119\% |
| HONEYWELL INTERNATIONAL INC | HON | 89,411.34 | 0.51\% | 2.03\% | 8.50\% | 10.62\% | 0.0541\% |
| STARWOOD HOTELS \& RESORTS | HOT | 12,871.33 | 0.07\% | 1.98\% | 5.50\% | 7.53\% | 0.0055\% |
| HELMERICH \& PAYNE | HP | 7,473.06 | 0.04\% | 4.05\% | -6.00\% | -2.07\% | -0.0009\% |
| HEWLETT PACKARD ENTERPRIS | HPE | 33,876.60 | N/A | 1.12\% | N/A | N/A | N/A |
| HP INC | HPQ | 22,157.45 | N/A | 3.86\% | N/A | N/A | N/A |
| H\&R BLOCK INC | HRB | 5,127.65 | 0.03\% | 3.85\% | 8.00\% | 12.00\% | 0.0035\% |
| HORMEL FOODS CORP | HRL | 18,334.22 | 0.10\% | 1.79\% | 14.00\% | 15.92\% | 0.0166\% |
| HARRIS CORP | HRS | 10,473.83 | 0.06\% | 2.47\% | 7.50\% | 10.06\% | 0.0060\% |
| HENRY SCHEIN INC | HSIC | 14,574.67 | 0.08\% | 0.00\% | 9.00\% | 9.00\% | 0.0075\% |
| HOST HOTELS \& RESORTS INC | HST | - | N/A | 4.72\% | N/A | N/A | N/A |
| HERSHEY CO/THE | HSY | 20,796.21 | 0.12\% | 2.40\% | 6.00\% | 8.47\% | 0.0100\% |
| HUMANA INC | HUM | 27,915.93 | 0.16\% | 0.62\% | 9.50\% | 10.15\% | 0.0161\% |
| INTL BUSINESS MACHINES CORP | IBM | 149,130.10 | 0.85\% | 3.64\% | 0.50\% | 4.15\% | 0.0352\% |
| INTERCONTINENTAL EXCHANGE IN | ICE | 30,469.95 | 0.17\% | 1.33\% | 14.00\% | 15.42\% | 0.0268\% |
| INTL FLAVORS \& FRAGRANCES | IFF | 10,150.16 | 0.06\% | 1.76\% | 4.50\% | 6.30\% | 0.0036\% |
| ILLUMINA INC | ILMN | 21,578.05 | 0.12\% | 0.00\% | 22.50\% | 22.50\% | 0.0276\% |
| INTEL CORP | INTC | 155,580.80 | 0.89\% | 3.15\% | 9.50\% | 12.80\% | 0.1134\% |
| INTUIT INC | INTU | 28,378.53 | 0.16\% | 1.10\% | 13.00\% | 14.17\% | 0.0229\% |
| INTERNATIONAL PAPER CO | IP | 17,799.25 | 0.10\% | 4.07\% | 15.00\% | 19.38\% | 0.0196\% |
| INTERPUBLIC GROUP OF COS INC | IPG | 9,899.16 | 0.06\% | 2.56\% | 13.00\% | 15.73\% | 0.0089\% |
| INGERSOLL-RAND PLC | IR | 17,056.41 | 0.10\% | 1.93\% | 8.50\% | 10.51\% | 0.0102\% |
| IRON MOUNTAIN INC | IRM | 8,179.07 | 0.05\% | 5.03\% | 13.00\% | 18.36\% | 0.0085\% |
| INTUITIVE SURGICAL INC | ISRG | 25,196.29 | 0.14\% | 0.00\% | 11.50\% | 11.50\% | 0.0165\% |
| ILLINOIS TOOL WORKS | ITW | 38,387.91 | 0.22\% | 2.06\% | 10.00\% | 12.16\% | 0.0266\% |
| INVESCO LTD | IVZ | 14,525.65 | 0.08\% | 3.78\% | 7.00\% | 10.91\% | 0.0090\% |
| HUNT (JB) TRANSPRT SVCS INC | JBHT | 9,096.81 | 0.05\% | 1.09\% | 11.00\% | 12.15\% | 0.0063\% |
| JOHNSON CONTROLS INC | JCI | 29,170.16 | 0.17\% | 2.58\% | 9.50\% | 12.20\% | 0.0203\% |
| JACOBS ENGINEERING GROUP INC | JEC | 6,485.95 | 0.04\% | 0.00\% | 4.00\% | 4.00\% | 0.0015\% |
| JOHNSON \& JOHNSON | JNJ | 322,995.20 | 1.84\% | 2.77\% | 8.50\% | 11.39\% | 0.2094\% |
| JUNIPER NETWORKS INC | JNPR | 9,286.65 | 0.05\% | 1.79\% | 10.00\% | 11.88\% | 0.0063\% |
| JPMORGAN CHASE \& CO | JPM | 234,209.00 | 1.33\% | 3.00\% | 6.50\% | 9.60\% | 0.1280\% |
| NORDSTROM INC | JWN | 6,632.55 | 0.04\% | 3.92\% | 4.00\% | 8.00\% | 0.0030\% |
| KELLOGG CO | K | 27,240.50 | 0.16\% | 2.62\% | 5.00\% | 7.69\% | 0.0119\% |
| KEYCORP | KEY | 10,099.06 | 0.06\% | 2.84\% | 7.50\% | 10.45\% | 0.0060\% |
| KRAFT HEINZ CO/THE | KHC | 104,851.30 | N/A | 2.72\% | N/A | N/A | N/A |
| KIMCO REALTY CORP | KIM |  | N/A | 3.57\% | N/A | N/A | N/A |
| KLA-TENCOR CORP | KLAC | 11,654.75 | 0.07\% | 2.78\% | 12.50\% | 15.45\% | 0.0103\% |
| KIMBERLY-CLARK CORP | KMB | 48,242.74 | 0.27\% | 2.75\% | 10.00\% | 12.89\% | 0.0354\% |
| KINDER MORGAN INC | KMI | 42,132.49 | 0.24\% | 2.65\% | 13.00\% | 15.82\% | 0.0380\% |
| CARMAX INC | KMX | 9,147.57 | 0.05\% | 0.00\% | 12.50\% | 12.50\% | 0.0065\% |
| COCA-COLA CO/THE | KO | 195,286.60 | 1.11\% | 3.11\% | 4.00\% | 7.17\% | 0.0798\% |
| MICHAEL KORS HOLDINGS LTD | KORS | 9,117.41 | 0.05\% | 0.00\% | 9.00\% | 9.00\% | 0.0047\% |
| KROGER CO | KR | 33,525.89 | 0.19\% | 1.36\% | 10.50\% | 11.93\% | 0.0228\% |



| KSS | 6,892.65 | 0.04\% | 5.44\% | 8.00\% | 13.66\% | 0.0054\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| KSU | 9,838.50 | 0.06\% | 1.45\% | 9.00\% | 10.52\% | 0.0059\% |
| L | 13,763.21 | 0.08\% | 0.61\% | 12.50\% | 13.15\% | 0.0103\% |
| LB | 19,915.20 | 0.11\% | 3.47\% | 8.00\% | 11.61\% | 0.0132\% |
| LEG | 6,865.40 | 0.04\% | 2.66\% | 11.00\% | 13.81\% | 0.0054\% |
| LEN | 10,001.15 | 0.06\% | 0.34\% | 12.50\% | 12.86\% | 0.0073\% |
| LH | 13,393.48 | 0.08\% | 0.00\% | 9.50\% | 9.50\% | 0.0072\% |
| LKQ | 10,302.21 | 0.06\% | 0.00\% | 15.00\% | 15.00\% | 0.0088\% |
| LLL | 11,161.85 | 0.06\% | 1.94\% | 6.50\% | 8.50\% | 0.0054\% |
| LLTC | 11,399.80 | 0.06\% | 2.69\% | 5.50\% | 8.26\% | 0.0054\% |
| LLY | 81,617.71 | 0.46\% | 2.76\% | 9.50\% | 12.39\% | 0.0576\% |
| LM | 3,512.10 | 0.02\% | 2.70\% | 10.50\% | 13.34\% | 0.0027\% |
| LMT | 73,068.72 | 0.42\% | 2.88\% | 8.00\% | 11.00\% | 0.0457\% |
| LNC | 10,604.65 | 0.06\% | 2.34\% | 7.00\% | 9.42\% | 0.0057\% |
| LOW | 70,241.59 | 0.40\% | 1.78\% | 14.00\% | 15.90\% | 0.0636\% |
| LRCX | 13,889.43 | 0.08\% | 1.38\% | 16.00\% | 17.49\% | 0.0138\% |
| LUK | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| LUV | 26,473.32 | 0.15\% | 1.01\% | 17.50\% | 18.60\% | 0.0280\% |
| LVLT | 18,724.91 | 0.11\% | 0.00\% | 38.00\% | 38.00\% | 0.0405\% |
| LYB | 33,845.89 | 0.19\% | 4.30\% | 6.50\% | 10.94\% | 0.0211\% |
| M | 10,294.22 | 0.06\% | 4.52\% | 3.00\% | 7.59\% | 0.0044\% |
| MA | 105,472.40 | 0.60\% | 0.79\% | 11.00\% | 11.83\% | 0.0711\% |
| MAC |  | N/A | 3.39\% | N/A | N/A | N/A |
| MAR | 17,529.30 | 0.10\% | 1.74\% | 12.50\% | 14.35\% | 0.0143\% |
| MAS | 10,347.48 | 0.06\% | 1.21\% | 14.50\% | 15.80\% | 0.0093\% |
| MAT | 11,022.15 | 0.06\% | 4.69\% | 6.50\% | 11.34\% | 0.0071\% |
| MCD | 106,398.10 | 0.61\% | 2.97\% | 6.00\% | 9.06\% | 0.0549\% |
| MCHP | 10,752.89 | 0.06\% | 2.73\% | 8.00\% | 10.84\% | 0.0066\% |
| MCK | 42,060.01 | 0.24\% | 0.61\% | 12.00\% | 12.65\% | 0.0303\% |
| MCO | 19,763.05 | 0.11\% | 1.46\% | 7.50\% | 9.01\% | 0.0101\% |
| MDLZ | 69,723.36 | 0.40\% | 1.65\% | 11.50\% | 13.24\% | 0.0526\% |
| MDT | 120,167.50 | 0.68\% | 1.84\% | 7.00\% | 8.90\% | 0.0609\% |
| MET | 48,521.94 | 0.28\% | 3.62\% | 6.50\% | 10.24\% | 0.0283\% |
| MHK | 14,657.12 | 0.08\% | 0.00\% | 10.50\% | 10.50\% | 0.0088\% |
| MJN | 16,543.49 | 0.09\% | 1.86\% | 6.50\% | 8.42\% | 0.0079\% |
| MKC | 12,997.43 | 0.07\% | 1.68\% | 7.50\% | 9.24\% | 0.0068\% |
| MLM | 11,935.77 | 0.07\% | 0.85\% | 24.50\% | 25.45\% | 0.0173\% |
| MMC | 35,416.49 | 0.20\% | 2.00\% | 9.00\% | 11.09\% | 0.0224\% |
| MMM | 105,600.30 | 0.60\% | 2.55\% | 8.50\% | 11.16\% | 0.0671\% |
| MNK | 6,417.92 | N/A | 0.00\% | N/A | N/A | N/A |
| MNST | 31,962.72 | 0.18\% | 0.00\% | 13.50\% | 13.50\% | 0.0246\% |
| MO | 129,749.40 | 0.74\% | 3.44\% | 9.50\% | 13.10\% | 0.0968\% |
| MON | 47,669.84 | 0.27\% | 1.98\% | 6.00\% | 8.04\% | 0.0218\% |
| MOS | 9,794.34 | 0.06\% | 4.29\% | 5.00\% | 9.40\% | 0.0052\% |
| MPC | 19,408.60 | 0.11\% | 3.55\% | 6.50\% | 10.17\% | 0.0112\% |
| MRK | 159,747.80 | 0.91\% | 3.19\% | 6.00\% | 9.29\% | 0.0845\% |
| MRO | 12,943.58 | 0.07\% | 1.31\% | 9.00\% | 10.37\% | 0.0076\% |
| MS | 52,896.05 | 0.30\% | 2.20\% | 14.50\% | 16.86\% | 0.0508\% |
| MSFT | 408,531.70 | 2.33\% | 2.77\% | 7.00\% | 9.87\% | 0.2295\% |
| MSI | 11,874.54 | 0.07\% | 2.54\% | 9.00\% | 11.65\% | 0.0079\% |
| мTB | 19,161.59 | 0.11\% | 2.33\% | 5.00\% | 7.39\% | 0.0081\% |
| MU | 15,314.50 | 0.09\% | 0.00\% | 1.00\% | 1.00\% | 0.0009\% |
| MUR | 5,580.84 | N/A | 4.32\% | N/A | N/A | N/A |
| MYL | 22,681.18 | 0.13\% | 0.00\% | 20.50\% | 20.50\% | 0.0265\% |
| NAVI | 4,075.50 | N/A | 5.18\% | N/A | N/A | N/A |
| NBL | 15,999.35 | N/A | 1.08\% | N/A | N/A | N/A |
| NDAQ | 10,595.64 | 0.06\% | 1.99\% | 10.00\% | 12.09\% | 0.0073\% |
| NEE | 57,076.41 | 0.33\% | 2.90\% | 6.00\% | 8.99\% | 0.0292\% |
| NEM | 18,775.49 | 0.11\% | 0.28\% | -1.00\% | -0.72\% | -0.0008\% |
| NFLX | 39,256.97 | 0.22\% | 0.00\% | 35.00\% | 35.00\% | 0.0782\% |
| NFX | 8,506.06 | 0.05\% | 0.00\% | 11.50\% | 11.50\% | 0.0056\% |
| NI | 8,091.85 | 0.05\% | 2.62\% | 1.50\% | 4.14\% | 0.0019\% |
| NKE | 91,192.20 | 0.52\% | 1.18\% | 15.00\% | 16.27\% | 0.0845\% |
| NLSN | 19,388.05 | 0.11\% | 2.31\% | 9.00\% | 11.41\% | 0.0126\% |
| NOC | 38,823.99 | 0.22\% | 1.68\% | 7.50\% | 9.24\% | 0.0204\% |
| NOV | 13,762.91 | 0.08\% | 0.55\% | -9.00\% | -8.47\% | -0.0066\% |
| NRG | 4,575.58 | N/A | 0.83\% | N/A | N/A | N/A |
| NSC | 25,729.21 | 0.15\% | 2.71\% | 6.50\% | 9.30\% | 0.0136\% |
| NTAP | 7,571.82 | N/A | 2.92\% | N/A | N/A | N/A |
| NTRS | 16,322.85 | 0.09\% | 2.01\% | 7.50\% | 9.59\% | 0.0089\% |
| NUE | 16,055.42 | 0.09\% | 2.97\% | 24.50\% | 27.83\% | 0.0254\% |
| NVDA | 25,893.66 | 0.15\% | 0.95\% | 11.50\% | 12.50\% | 0.0184\% |
| NWL | 13,265.17 | 0.08\% | 1.54\% | 14.00\% | 15.65\% | 0.0118\% |
| NWSA | 6,877.82 | 0.04\% | 1.69\% | 27.50\% | 29.42\% | 0.0115\% |
| 0 |  | N/A | 3.72\% | N/A | N/A | N/A |
| OI | 3,206.00 | 0.02\% | 0.00\% | 6.00\% | 6.00\% | 0.0011\% |
| OKE | 9,845.24 | 0.06\% | 5.36\% | 12.50\% | 18.20\% | 0.0102\% |
| OMC | 20,199.24 | 0.12\% | 2.66\% | 9.00\% | 11.78\% | 0.0135\% |
| ORCL | 169,439.00 | 0.96\% | 1.47\% | 4.50\% | 6.00\% | 0.0579\% |
| ORLY | 25,560.11 | 0.15\% | 0.00\% | 11.00\% | 11.00\% | 0.0160\% |
| OXY | 59,816.31 | 0.34\% | 3.91\% | 4.00\% | 7.99\% | 0.0272\% |
| PAYX | 20,271.21 | 0.12\% | 3.20\% | 9.00\% | 12.34\% | 0.0142\% |
| PBCT | 4,940.06 | 0.03\% | 4.27\% | 10.50\% | 14.99\% | 0.0042\% |
| PBI | 3,498.79 | 0.02\% | 4.12\% | 4.00\% | 8.20\% | 0.0016\% |
| PCAR | 19,745.04 | 0.11\% | 3.90\% | 7.00\% | 11.04\% | 0.0124\% |
| PCG | 30,792.06 | 0.18\% | 3.16\% | 12.00\% | 15.35\% | 0.0269\% |
| PCLN | 69,006.74 | 0.39\% | 0.00\% | 15.50\% | 15.50\% | 0.0609\% |
| PDCO | 4,801.85 | 0.03\% | 2.04\% | 9.50\% | 11.64\% | 0.0032\% |
| PEG | 22,371.50 | 0.13\% | 3.75\% | 3.00\% | 6.81\% | 0.0087\% |
| PEP | 151,020.30 | 0.86\% | 2.88\% | 7.00\% | 9.98\% | 0.0858\% |
| PFE | 209,783.10 | 1.19\% | 3.47\% | 12.00\% | 15.68\% | 0.1873\% |
| PFG | 12,928.61 | 0.07\% | 3.50\% | 5.00\% | 8.59\% | 0.0063\% |
| PG | 224,154.60 | 1.28\% | 3.18\% | 6.50\% | 9.78\% | 0.1249\% |


| PROGRESSIVE CORP | PGR | 18,941.67 | 0.11\% | 2.74\% | 8.50\% | 11.36\% | 0.0122\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| PARKER HANNIFIN CORP | PH | 15,354.98 | 0.09\% | 2.21\% | 5.50\% | 7.77\% | 0.0068\% |
| PULTEGROUP INC | PHM | 7,001.58 | 0.04\% | 1.93\% | 11.00\% | 13.04\% | 0.0052\% |
| PERKINELMER INC | PKI | 5,911.88 | 0.03\% | 0.52\% | 6.50\% | 7.04\% | 0.0024\% |
| PROLOGIS INC | PLD | - | N/A | 3.35\% | N/A | N/A | N/A |
| PHILIP MORRIS INTERNATIONAL | PM | 158,073.20 | 0.90\% | 4.00\% | 5.00\% | 9.10\% | 0.0819\% |
| PNC FINANCIAL SERVICES GROUP | PNC | 43,248.33 | 0.25\% | 2.35\% | 4.00\% | 6.40\% | 0.0158\% |
| PENTAIR PLC | PNR | 11,114.86 | 0.06\% | 2.15\% | 12.50\% | 14.78\% | 0.0094\% |
| PINNACLE WEST CAPITAL | PNW | 8,592.23 | 0.05\% | 3.31\% | 4.00\% | 7.38\% | 0.0036\% |
| PPG INDUSTRIES INC | PPG | 29,591.53 | 0.17\% | 1.44\% | 9.50\% | 11.01\% | 0.0185\% |
| PPL CORP | PPL | 26,334.60 | 0.15\% | 3.93\% | 4.00\% | 8.01\% | 0.0120\% |
| PERRIGO CO PLC | PRGO | 13,937.28 | 0.08\% | 0.61\% | 15.00\% | 15.66\% | 0.0124\% |
| PRUDENTIAL FINANCIAL INC | PRU | 34,100.08 | 0.19\% | 3.64\% | 2.00\% | 5.68\% | 0.0110\% |
| PUBLIC STORAGE | PSA |  | N/A | 2.99\% | N/A | N/A | N/A |
| PHILLIPS 66 | PSX | 42,503.73 | 0.24\% | 3.18\% | 2.50\% | 5.72\% | 0.0138\% |
| PVH CORP | PVH | 8,320.40 | 0.05\% | 0.15\% | 5.50\% | 5.65\% | 0.0027\% |
| QUANTA SERVICES INC | PWR | 3,702.43 | 0.02\% | 0.00\% | 8.50\% | 8.50\% | 0.0018\% |
| PRAXAIR INC | PX | 32,862.53 | 0.19\% | 2.69\% | 6.50\% | 9.28\% | 0.0174\% |
| PIONEER NATURAL RESOURCES CO | PXD | 26,265.62 | 0.15\% | 0.05\% | 18.50\% | 18.55\% | 0.0278\% |
| PAYPAL HOLDINGS INC | PYPL | 44,285.29 | N/A | 0.00\% | N/A | N/A | N/A |
| QUALCOMM INC | QCOM | 81,491.85 | 0.46\% | 3.82\% | 4.50\% | 8.41\% | 0.0390\% |
| QORVO INC | QRVO | 7,987.33 | N/A | 0.00\% | N/A | N/A | N/A |
| RYDER SYSTEM INC | R | 3,536.34 | 0.02\% | 2.49\% | 9.00\% | 11.60\% | 0.0023\% |
| REYNOLDS AMERICAN INC | RAI | 72,566.01 | 0.41\% | 3.30\% | 10.00\% | 13.47\% | 0.0556\% |
| ROYAL CARIBBEAN CRUISES LTD | RCL | 16,652.52 | 0.09\% | 1.94\% | 16.50\% | 18.60\% | 0.0176\% |
| REGENERON PHARMACEUTICALS | REGN | 36,813.99 | 0.21\% | 0.00\% | 23.00\% | 23.00\% | 0.0482\% |
| REGIONS FINANCIAL CORP | RF | 12,046.98 | 0.07\% | 2.86\% | 7.50\% | 10.47\% | 0.0072\% |
| ROBERT HALF INTL INC | RHI | 5,212.01 | 0.03\% | 2.24\% | 11.00\% | 13.36\% | 0.0040\% |
| RED HAT INC | RHT | 14,203.09 | 0.08\% | 0.00\% | 16.50\% | 16.50\% | 0.0133\% |
| TRANSOCEAN LTD | RIG | 4,391.94 | 0.03\% | 0.00\% | -19.00\% | -19.00\% | -0.0048\% |
| RALPH LAUREN CORP | RL | 8,062.03 | 0.05\% | 2.16\% | 4.50\% | 6.71\% | 0.0031\% |
| ROCKWELL AUTOMATION INC | ROK | 15,699.42 | 0.09\% | 2.41\% | 3.00\% | 5.45\% | 0.0049\% |
| ROPER TECHNOLOGIES INC | ROP | 17,498.66 | 0.10\% | 0.69\% | 7.00\% | 7.71\% | 0.0077\% |
| ROSS STORES INC | ROST | 21,601.51 | 0.12\% | 1.04\% | 9.00\% | 10.09\% | 0.0124\% |
| RANGE RESOURCES CORP | RRC | 7,711.03 | 0.04\% | 0.18\% | 12.00\% | 12.19\% | 0.0054\% |
| REPUBLIC SERVICES INC | RSG | 17,173.32 | 0.10\% | 2.53\% | 8.50\% | 11.14\% | 0.0109\% |
| RAYTHEON COMPANY | RTN | 40,044.51 | 0.23\% | 2.17\% | 9.00\% | 11.27\% | 0.0257\% |
| STARBUCKS CORP | SBUX | 82,202.38 | 0.47\% | 1.59\% | 16.50\% | 18.22\% | 0.0853\% |
| SCANA CORP | SCG | 10,197.13 | 0.06\% | 3.27\% | 4.50\% | 7.84\% | 0.0046\% |
| SCHWAB (CHARLES) CORP | SCHW | 39,234.18 | 0.22\% | 0.94\% | 12.00\% | 13.00\% | 0.0290\% |
| SPECTRA ENERGY CORP | SE | 23,981.04 | 0.14\% | 4.62\% | 11.50\% | 16.39\% | 0.0224\% |
| SEALED AIR CORP | SEE | 9,433.96 | 0.05\% | 1.34\% | 16.00\% | 17.45\% | 0.0094\% |
| SHERWIN-WILLIAMS CO/THE | SHW | 26,724.58 | 0.15\% | 1.22\% | 11.00\% | 12.29\% | 0.0187\% |
| SIGNET JEWELERS LTD | SIG | 6,786.30 | 0.04\% | 1.20\% | 15.00\% | 16.29\% | 0.0063\% |
| JM Smucker Coithe | SJM | 17,541.03 | 0.10\% | 1.89\% | 7.00\% | 8.96\% | 0.0089\% |
| SCHLUMBERGER LTD | SLB | 99,673.26 | 0.57\% | 2.51\% | 10.00\% | 12.64\% | 0.0717\% |
| SL GREEN REALTY CORP | SLG | - | N/A | 2.73\% | N/A | N/A | N/A |
| SNAP-ON INC | SNA | 9,047.59 | 0.05\% | 1.57\% | 10.00\% | 11.65\% | 0.0060\% |
| SCRIPPS NETWORKS INTER-CL A | SNI | 8,019.46 | 0.05\% | 1.61\% | 9.00\% | 10.68\% | 0.0049\% |
| SOUTHERN CO/THE | so | 46,903.71 | 0.27\% | 4.43\% | 2.50\% | 6.99\% | 0.0187\% |
| SIMON PROPERTY GROUP INC | SPG | - | N/A | 3.06\% | N/A | N/A | N/A |
| S\&P GLOBAL INC | SPGI | 29,258.99 | 0.17\% | 1.30\% | 11.00\% | 12.37\% | 0.0206\% |
| STAPLES INC | SPLS | 5,784.27 | N/A | 5.36\% | N/A | N/A | N/A |
| STERICYCLE INC | SRCL | 8,769.73 | 0.05\% | 0.00\% | 9.00\% | 9.00\% | 0.0045\% |
| SEMPRA ENERGY | SRE | 27,658.92 | 0.16\% | 2.77\% | 10.00\% | 12.91\% | 0.0203\% |
| SUNTRUST BANKS INC | STI | 21,840.19 | 0.12\% | 2.36\% | 7.00\% | 9.44\% | 0.0117\% |
| ST JUDE MEDICAL INC | STJ | 22,281.27 | 0.13\% | 1.63\% | 5.50\% | 7.17\% | 0.0091\% |
| STATE STREET CORP | STT | 23,840.58 | 0.14\% | 2.39\% | 5.50\% | 7.96\% | 0.0108\% |
| SEAGATE TECHNOLOGY | STX | 7,306.30 | 0.04\% | 10.29\% | -2.00\% | 8.19\% | 0.0034\% |
| CONSTELLATION BRANDS INC-A | STZ | 31,077.11 | 0.18\% | 1.04\% | 16.50\% | 17.63\% | 0.0312\% |
| STANLEY BLACK \& DECKER INC | sWK | 17,270.96 | 0.10\% | 1.91\% | 8.50\% | 10.49\% | 0.0103\% |
| SKYWORKS SOLUTIONS INC | sWKS | 12,783.34 | 0.07\% | 1.55\% | 17.50\% | 19.19\% | 0.0140\% |
| SOUTHWESTERN ENERGY CO | SWN | 5,287.44 | 0.03\% | 0.00\% | -5.00\% | -5.00\% | -0.0015\% |
| SYNCHRONY FINANCIAL | SYF | 21,679.58 | N/A | 0.00\% | N/A | N/A | N/A |
| STRYKER CORP | SYK | 44,274.12 | 0.25\% | 1.28\% | 18.50\% | 19.90\% | 0.0502\% |
| SYMANTEC CORP | SYMC | 12,998.88 | 0.07\% | 1.41\% | -1.00\% | 0.40\% | 0.0003\% |
| SYSCO CORP | SYY | 28,411.44 | 0.16\% | 2.51\% | 10.50\% | 13.14\% | 0.0213\% |
| AT\&T INC | T | 257,822.60 | 1.47\% | 4.63\% | 6.50\% | 11.28\% | 0.1656\% |
| MOLSON COORS BREWING CO-B | TAP | 21,888.66 | 0.12\% | 1.61\% | 8.00\% | 9.67\% | 0.0121\% |
| TERADATA CORP | TDC | 3,695.66 | 0.02\% | 0.00\% | 3.50\% | 3.50\% | 0.0007\% |
| TRANSDIGM GROUP INC | TDG | 14,054.79 | 0.08\% | 0.00\% | 20.50\% | 20.50\% | 0.0164\% |
| TECO ENERGY INC | TE | 6,516.29 | 0.04\% | 3.36\% | 7.50\% | 10.99\% | 0.0041\% |
| TE CONNECTIVITY LTD | TEL | 22,522.56 | 0.13\% | 2.35\% | 9.00\% | 11.46\% | 0.0147\% |
| TEGNA INC | TGNA | 4,984.92 | 0.03\% | 2.44\% | 1.00\% | 3.45\% | 0.0010\% |
| TARGET CORP | TGT | 41,420.29 | 0.24\% | 3.44\% | 11.00\% | 14.63\% | 0.0345\% |
| TIFFANY \& CO | TIF | 7,891.38 | 0.04\% | 2.87\% | 7.50\% | 10.48\% | 0.0047\% |
| TJX COMPANIES INC | TJX | 50,824.06 | 0.29\% | 1.35\% | 10.00\% | 11.42\% | 0.0330\% |
| TORCHMARK CORP | TMK | 7,554.99 | 0.04\% | 0.90\% | 7.00\% | 7.93\% | 0.0034\% |
| THERMO FISHER SCIENTIFIC INC | тMO | 59,868.92 | 0.34\% | 0.39\% | 9.00\% | 9.41\% | 0.0321\% |
| TRIPADVISOR INC | TRIP | 9,611.83 | 0.05\% | 0.00\% | 16.50\% | 16.50\% | 0.0090\% |
| T ROWE PRICE GROUP INC | TROW | 18,242.52 | 0.10\% | 2.98\% | 7.50\% | 10.59\% | 0.0110\% |
| TRAVELERS COS INC/THE | TRV | 33,289.74 | 0.19\% | 2.35\% | 1.50\% | 3.87\% | 0.0073\% |
| TRACTOR SUPPLY COMPANY | TSCO | 12,469.07 | 0.07\% | 1.06\% | 14.00\% | 15.13\% | 0.0107\% |
| TYSON FOODS INC-CL A | TSN | 23,443.20 | 0.13\% | 1.01\% | 12.50\% | 13.57\% | 0.0181\% |
| TESORO CORP | TSO | 9,327.92 | 0.05\% | 2.57\% | 5.50\% | 8.14\% | 0.0043\% |
| TOTAL SYSTEM SERVICES INC | TSS | 9,681.75 | 0.06\% | 0.76\% | 12.00\% | 12.81\% | 0.0071\% |
| TIME WARNER INC | TWX | 57,636.45 | 0.33\% | 2.20\% | 11.50\% | 13.83\% | 0.0454\% |
| TEXAS INSTRUMENTS INC | TXN | 63,715.95 | 0.36\% | 2.40\% | 7.50\% | 9.99\% | 0.0362\% |
| TEXTRON INC | TXT | 10,324.26 | 0.06\% | 0.21\% | 15.50\% | 15.73\% | 0.0092\% |
| TYCO INTERNATIONAL PLC | TYC | 18,682.19 | 0.11\% | 1.87\% | 9.50\% | 11.46\% | 0.0122\% |
| UNDER ARMOUR INC-CLASS A | UA | 16,676.17 | 0.09\% | 0.00\% | 24.50\% | 24.50\% | 0.0233\% |
| UNITED CONTINENTAL HOLDINGS | UAL | 15,326.41 | 0.09\% | 0.00\% | 7.00\% | 7.00\% | 0.0061\% |
| UDR INC | UDR | 15,32.41 | N/A | 3.35\% | N/A | N/A | N/A |

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| UNIVERSAL HEALTH SERVICES-B | UHS | 13,419.52 | 0.08\% | 0.29\% | 11.50\% | 11.81\% | 0.0090\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ULTA SALON COSMETICS \& FRAGR | ULTA | 15,160.26 | 0.09\% | 0.00\% | 18.00\% | 18.00\% | 0.0155\% |
| UNITEDHEALTH GROUP INC | UNH | 132,787.30 | 0.76\% | 1.80\% | 14.00\% | 15.93\% | 0.1204\% |
| UNUM GROUP | UNM | 8,444.31 | 0.05\% | 2.08\% | 11.00\% | 13.19\% | 0.0063\% |
| UNION PACIFIC CORP | UNP | 74,456.73 | 0.42\% | 2.49\% | 7.00\% | 9.58\% | 0.0406\% |
| UNITED PARCEL SERVICE-CL B | UPS | 94,782.48 | 0.54\% | 2.95\% | 9.50\% | 12.59\% | 0.0680\% |
| URBAN OUTFITTERS INC | URBN | 3,150.45 | 0.02\% | 0.00\% | 13.50\% | 13.50\% | 0.0024\% |
| UNITED RENTALS INC | URI | 6,455.70 | 0.04\% | 0.00\% | 13.00\% | 13.00\% | 0.0048\% |
| US BANCORP | USB | 73,142.62 | 0.42\% | 2.51\% | 4.50\% | 7.07\% | 0.0294\% |
| UNITED TECHNOLOGIES CORP | UTX | 85,636.50 | 0.49\% | 2.58\% | 6.50\% | 9.16\% | 0.0447\% |
| VISA INC-CLASS A SHARES | V | 169,680.90 | 0.97\% | 0.77\% | 12.00\% | 12.82\% | 0.1238\% |
| VARIAN MEDICAL SYSTEMS INC | VAR | 8,055.82 | 0.05\% | 0.00\% | 7.50\% | 7.50\% | 0.0034\% |
| VF CORP | VFC | 27,117.84 | 0.15\% | 2.28\% | 11.00\% | 13.41\% | 0.0207\% |
| VIACOM INC-CLASS B | VIAB | 17,222.81 | 0.10\% | 3.68\% | 5.00\% | 8.77\% | 0.0086\% |
| VALERO ENERGY CORP | VLO | 25,232.42 | 0.14\% | 4.47\% | 5.50\% | 10.09\% | 0.0145\% |
| VULCAN MATERIALS CO | VMC | 15,873.75 | 0.09\% | 0.67\% | 33.50\% | 34.28\% | 0.0310\% |
| VORNADO REALTY TRUST | VNO | 18,675.11 | 0.11\% | 2.55\% | 22.50\% | 25.34\% | 0.0269\% |
| VERISK ANALYTICS INC | VRSK | 13,460.24 | 0.08\% | 0.00\% | 11.00\% | 11.00\% | 0.0084\% |
| VERISIGN INC | VRSN | 9,502.96 | 0.05\% | 0.00\% | 11.50\% | 11.50\% | 0.0062\% |
| VERTEX PHARMACEUTICALS INC | VRTX | 21,810.71 | N/A | 0.00\% | N/A | N/A | N/A |
| VENTAS INC | VTR | - | N/A | 4.27\% | N/A | N/A | N/A |
| VERIZON COMMUNICATIONS INC | VZ | 222,850.70 | 1.27\% | 4.13\% | 3.00\% | 7.19\% | 0.0913\% |
| WATERS CORP | WAT | 11,199.19 | 0.06\% | 0.00\% | 9.00\% | 9.00\% | 0.0057\% |
| WALGREENS BOOTS ALLIANCE INC | WBA | 91,835.88 | 0.52\% | 1.69\% | 13.00\% | 14.80\% | 0.0774\% |
| WESTERN DIGITAL CORP | WDC | 11,838.73 | 0.07\% | 3.94\% | -0.50\% | 3.43\% | 0.0023\% |
| WEC ENERGY GROUP INC | WEC | 19,816.32 | 0.11\% | 3.23\% | 6.00\% | 9.33\% | 0.0105\% |
| WELLS FARGO \& CO | WFC | 243,186.50 | 1.38\% | 3.17\% | 5.00\% | 8.25\% | 0.1142\% |
| WHOLE FOODS MARKET INC | WFM | 9,961.62 | 0.06\% | 1.83\% | 8.00\% | 9.90\% | 0.0056\% |
| WHIRLPOOL CORP | WHR | 13,588.80 | 0.08\% | 2.24\% | 11.50\% | 13.87\% | 0.0107\% |
| WILLIS TOWERS WATSON PLC | WLTW | N/A | N/A | 0.00\% | N/A | N/A | N/A |
| WASTE MANAGEMENT INC | WM | 28,217.74 | 0.16\% | 2.62\% | 7.50\% | 10.22\% | 0.0164\% |
| WILLIAMS COS INC | WMB | 16,335.00 | 0.09\% | 12.12\% | 16.50\% | 29.62\% | 0.0276\% |
| WAL-MART STORES INC | WMT | 225,312.50 | 1.28\% | 2.77\% | 2.00\% | 4.80\% | 0.0616\% |
| WESTROCK CO | WRK | 10,477.13 | N/A | 3.61\% | N/A | N/A | N/A |
| WESTERN UNION CO | WU | 9,529.15 | 0.05\% | 3.30\% | 8.00\% | 11.43\% | 0.0062\% |
| WEYERHAEUSER CO | WY | 22,406.98 | 0.13\% | 4.20\% | 10.50\% | 14.92\% | 0.0190\% |
| WYNDHAM WORLDWIDE CORP | WYN | 8,044.87 | 0.05\% | 2.78\% | 5.50\% | 8.36\% | 0.0038\% |
| WYNN RESORTS LTD | WYNN | 10,350.01 | 0.06\% | 1.97\% | 6.50\% | 8.53\% | 0.0050\% |
| CIMAREX ENERGY CO | XEC | 11,405.30 | 0.06\% | 0.27\% | 11.00\% | 11.28\% | 0.0073\% |
| XCEL ENERGY INC | XEL | 21,689.59 | 0.12\% | 3.23\% | 5.50\% | 8.82\% | 0.0109\% |
| XL GROUP PLC | XL | 9,809.11 | 0.06\% | 2.40\% | 9.00\% | 11.51\% | 0.0064\% |
| XILINX INC | XLNX | 12,034.91 | 0.07\% | 2.78\% | 6.00\% | 8.86\% | 0.0061\% |
| EXXON MOBIL CORP | XOM | 380,694.60 | 2.17\% | 3.27\% | 5.00\% | 8.35\% | 0.1811\% |
| DENTSPLY SIRONA INC | XRAY | 15,037.98 | 0.09\% | 0.48\% | 8.00\% | 8.50\% | 0.0073\% |
| XEROX CORP | XRX | 10,150.28 | 0.06\% | 3.19\% | 4.50\% | 7.76\% | 0.0045\% |
| XYLEM INC | XYL | 8,292.02 | 0.05\% | 1.34\% | 9.50\% | 10.90\% | 0.0051\% |
| YAHOO! INC | YHOO | 35,824.85 | N/A | 0.00\% | N/A | N/A | N/A |
| YUM! BRANDS INC | YUM | 34,961.30 | 0.20\% | 2.28\% | 10.00\% | 12.39\% | 0.0247\% |
| ZIMMER BIOMET HOLDINGS INC | ZBH | 24,075.17 | 0.14\% | 0.81\% | 13.00\% | 13.86\% | 0.0190\% |
| ZIONS BANCORPORATION | ZION | 5,759.96 | 0.03\% | 1.14\% | 11.00\% | 12.20\% | 0.0040\% |
| ZOETIS INC | ZTS | 23,778.38 | 0.14\% | 0.79\% | 11.00\% | 11.83\% | 0.0160\% |
|  |  | 17,561,166 |  |  |  |  | 13.63\% |
| [1] Equals sum of Col. [9] |  |  |  |  |  |  |  |
| [2] Source: Bloomberg Professional |  |  |  |  |  |  |  |
| [3] Equals [1] - [2] |  |  |  |  |  |  |  |
| [4] Source: Value Line |  |  |  |  |  |  |  |
| [5] Equals weight in S\&P 500 based on market capitalization |  |  |  |  |  |  |  |
| [6] Source: Value Line |  |  |  |  |  |  |  |
| [7] Source: Value Line |  |  |  |  |  |  |  |
| [8] Equals ([6] $\times(1+(0.5 \times[7]))$ ) [7] |  |  |  |  |  |  |  |
| [9] Equals Col. [5] $\times$ Col. [8] |  |  |  |  |  |  |  |

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Exhibit RBH-16, Page 1 of 1

Bloomberg and Value Line Beta Coefficients

|  |  | [1] | [2] |
| :---: | :---: | :---: | :---: |
| Company | Ticker | Bloomberg | Value Line |
| ALLETE, Inc. | ALE | 0.612 | 0.750 |
| Alliant Energy Corporation | LNT | 0.612 | 0.750 |
| Ameren Corporation | AEE | 0.617 | 0.750 |
| American Electric Power Company, Inc. | AEP | 0.559 | 0.700 |
| Avista Corporation | AVA | 0.580 | 0.750 |
| CMS Energy Corporation | CMS | 0.542 | 0.700 |
| DTE Energy Company | DTE | 0.598 | 0.700 |
| El Paso Electric Company | EE | 0.735 | 0.750 |
| Entergy Corporation | ETR | 0.639 | 0.700 |
| Eversource Energy | ES | 0.589 | 0.750 |
| FirstEnergy Corp. | FE | 0.676 | 0.700 |
| IDACORP, Inc. | IDA | 0.672 | 0.800 |
| MGE Energy, Inc. | MGEE | 0.576 | 0.700 |
| NorthWestern Corporation | NWE | 0.607 | 0.700 |
| OGE Energy Corp. | OGE | 0.700 | 0.950 |
| Otter Tail Corporation | OTTR | 0.692 | 0.800 |
| Pinnacle West Capital Corporation | PNW | 0.599 | 0.750 |
| PNM Resources, Inc. | PNM | 0.638 | 0.800 |
| Portland General Electric Company | POR | 0.606 | 0.800 |
| SCANA Corporation | SCG | 0.589 | 0.700 |
| Wisconsin Energy Corporation | WEC | 0.512 | 0.650 |
| Xcel Energy Inc. | XEL | 0.479 | 0.650 |
| Mean |  | 0.610 | 0.74 |

Notes:
[1] Source: Bloomberg Professional
[2] Source: Value Line

|  | \% Common Equity |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016Q1 | 2015Q4 | 2015Q3 | 2015Q2 | 2015Q1 | 2014Q4 | 2014Q3 | 2014Q2 | Average |
| ALLETE, Inc. | ALE | 58.83\% | 58.04\% | 58.01\% | 58.93\% | 58.70\% | 56.98\% | 56.18\% | 55.83\% | 57.69\% |
| Alliant Energy Corporation | LNT | 51.65\% | 51.24\% | 51.27\% | 51.18\% | 50.32\% | 50.11\% | 54.23\% | 52.94\% | 51.62\% |
| Ameren Corporation | AEE | 52.82\% | 52.22\% | 53.40\% | 52.44\% | 52.88\% | 52.82\% | 54.54\% | 53.83\% | 53.12\% |
| American Electric Power Company, Inc. | AEP | 49.13\% | 48.82\% | 49.13\% | 49.63\% | 52.23\% | 52.11\% | 52.27\% | 52.31\% | 50.71\% |
| Avista Corporation | AVA | 55.13\% | 54.30\% | 54.95\% | 54.98\% | 54.81\% | 51.39\% | 52.62\% | 51.19\% | 53.67\% |
| CMS Energy Corporation | CMS | 51.42\% | 50.63\% | 51.44\% | 51.15\% | 51.35\% | 50.21\% | 49.99\% | 53.44\% | 51.20\% |
| DTE Energy Company | DTE | 50.53\% | 50.39\% | 50.32\% | 49.81\% | 48.42\% | 50.39\% | 49.32\% | 50.30\% | 49.93\% |
| El Paso Electric Company | EE | 45.95\% | 49.86\% | 49.94\% | 49.04\% | 48.79\% | 49.01\% | 53.63\% | 52.57\% | 49.85\% |
| Entergy Corporation | ETR | 48.59\% | 50.94\% | 49.01\% | 48.61\% | 48.37\% | 47.81\% | 48.73\% | 48.61\% | 48.83\% |
| Eversource Energy | ES | 54.51\% | 54.02\% | 54.83\% | 53.73\% | 53.84\% | 53.64\% | 53.44\% | 52.05\% | 53.76\% |
| FirstEnergy Corp. | FE | 52.97\% | 52.39\% | 52.12\% | 52.58\% | 52.26\% | 51.69\% | 51.49\% | 50.74\% | 52.03\% |
| IDACORP, Inc. | IDA | 50.70\% | 52.34\% | 52.25\% | 51.61\% | 49.38\% | 52.94\% | 52.92\% | 52.03\% | 51.77\% |
| MGE Energy, Inc. | MGEE | 62.00\% | 61.90\% | 61.88\% | 61.20\% | 61.12\% | 60.52\% | 59.93\% | 59.49\% | 61.00\% |
| NorthWestern Corporation | NWE | 47.54\% | 47.31\% | 46.01\% | 46.97\% | 47.54\% | 47.06\% | 47.78\% | 47.45\% | 47.21\% |
| OGE Energy Corp. | OGE | 55.17\% | 54.30\% | 54.38\% | 53.31\% | 52.98\% | 53.08\% | 55.43\% | 52.94\% | 53.95\% |
| Otter Tail Corporation | OTTR | 53.10\% | 52.75\% | 52.51\% | 52.32\% | 51.13\% | 49.80\% | 49.32\% | 47.60\% | 51.07\% |
| Pinnacle West Capital Corporation | PNW | 55.54\% | 55.50\% | 57.11\% | 55.72\% | 55.86\% | 57.54\% | 58.43\% | 57.32\% | 56.63\% |
| PNM Resources, Inc. | PNM | 45.35\% | 45.32\% | 44.76\% | 45.63\% | 46.11\% | 45.86\% | 47.43\% | 47.14\% | 45.95\% |
| Portland General Electric Company | POR | 50.89\% | 50.61\% | 50.31\% | 49.57\% | 44.11\% | 43.31\% | 44.86\% | 46.64\% | 47.54\% |
| SCANA Corporation | SCG | 52.77\% | 52.57\% | 52.55\% | 52.08\% | 53.72\% | 53.46\% | 53.47\% | 52.85\% | 52.93\% |
| Wisconsin Energy Corporation | WEC | 55.80\% | 55.39\% | 56.60\% | 55.65\% | 56.21\% | 55.93\% | 55.70\% | 55.55\% | 55.85\% |
| Xcel Energy Inc. | XEL | 54.68\% | 54.43\% | 53.02\% | 53.88\% | 54.97\% | 54.62\% | 54.54\% | 53.41\% | 54.19\% |
| Mean |  | 52.50\% | 52.51\% | 52.54\% | 52.27\% | 52.05\% | 51.83\% | 52.56\% | 52.10\% | 52.30\% |


| Operating Company Capital Structure |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | \% Common Equity |  |  |  |  |  |  |  |  |  |
| Operating Company | Parent | 2016Q1 | 2015Q4 | 2015Q3 | 2015Q2 | 2015Q1 | 2014Q4 | 2014Q3 | 2014Q2 | Average |
| Ameren Illinois Company | AEE | 53.67\% | 53.42\% | 55.55\% | 54.67\% | 54.39\% | 53.90\% | 56.91\% | 56.19\% | 54.84\% |
| Union Electric Company | AEE | 51.97\% | 51.03\% | 51.25\% | 50.21\% | 51.37\% | 51.74\% | 52.17\% | 51.48\% | 51.40\% |
| AEP Texas Central Company | AEP | 44.18\% | 43.63\% | 43.32\% | 47.46\% | 45.01\% | 42.39\% | 43.93\% | 43.18\% | 44.14\% |
| AEP Texas North Company | AEP | 42.64\% | 42.36\% | 45.03\% | 48.87\% | 47.15\% | 46.96\% | 47.06\% | 46.79\% | 45.86\% |
| Appalachian Power Company | AEP | 47.20\% | 46.77\% | 46.66\% | 46.50\% | 46.52\% | 45.83\% | 46.29\% | 46.00\% | 46.47\% |
| Indiana Michigan Power Company | AEP | 48.26\% | 52.65\% | 52.41\% | 52.08\% | 51.94\% | 51.36\% | 51.45\% | 51.39\% | 51.44\% |
| Kentucky Power Company | AEP | 43.58\% | 43.26\% | 43.72\% | 43.87\% | 44.19\% | 44.74\% | 46.25\% | 48.23\% | 44.73\% |
| Kingsport Power Company | AEP | 65.21\% | 59.70\% | 59.76\% | 60.44\% | 60.77\% | 61.00\% | 60.55\% | 60.91\% | 61.04\% |
| Ohio Power Company | AEP | 50.03\% | 50.09\% | 50.36\% | 50.33\% | 49.30\% | 48.96\% | 46.03\% | 44.79\% | 48.74\% |
| Public Service Company of Oklahoma | AEP | 46.80\% | 46.45\% | 46.30\% | 45.29\% | 44.66\% | 49.69\% | 49.43\% | 48.30\% | 47.11\% |
| Southwestern Electric Power Company | AEP | 49.51\% | 49.59\% | 49.88\% | 47.62\% | 46.25\% | 50.46\% | 50.60\% | 51.26\% | 49.40\% |
| Wheeling Power Company | AEP | 53.90\% | 53.73\% | 53.89\% | 53.82\% | 86.56\% | 79.75\% | 81.14\% | 82.27\% | 68.13\% |
| ALLETE (Minnesota Power) | ALE | 56.60\% | 55.86\% | 55.62\% | 57.67\% | 57.56\% | 55.24\% | 53.98\% | 53.01\% | 55.69\% |
| Superior Water, Light and Power Company | ALE | 61.06\% | 60.23\% | 60.40\% | 60.19\% | 59.83\% | 58.72\% | 58.39\% | 58.65\% | 59.68\% |
| Alaska Electric Light and Power Company | AVA | 58.86\% | 58.18\% | 58.09\% | 58.07\% | 57.83\% | NA | NA | NA | 58.21\% |
| Avista Corporation | AVA | 51.39\% | 50.41\% | 51.80\% | 51.90\% | 51.78\% | 51.39\% | 52.62\% | 51.19\% | 51.56\% |
| Consumers Energy Company | CMS | 51.42\% | 50.63\% | 51.44\% | 51.15\% | 51.35\% | 50.21\% | 49.99\% | 53.44\% | 51.20\% |
| DTE Electric Company | DTE | 50.53\% | 50.39\% | 50.32\% | 49.81\% | 48.42\% | 50.39\% | 49.32\% | 50.30\% | 49.93\% |
| El Paso Electric Company | EE | 45.95\% | 49.86\% | 49.94\% | 49.04\% | 48.79\% | 49.01\% | 53.63\% | 52.57\% | 49.85\% |
| Entergy Arkansas, Inc. | ETR | 45.37\% | 44.18\% | 44.47\% | 43.76\% | 43.50\% | 43.29\% | 46.14\% | 45.30\% | 44.50\% |
| Entergy Gulf States Louisiana, LLC | ETR | NA | 52.85\% | 51.00\% | 50.47\% | 49.90\% | 48.96\% | 49.76\% | 51.50\% | 50.63\% |
| Entergy Louisiana, LLC | ETR | 47.60\% | 51.13\% | 48.89\% | 48.72\% | 48.09\% | 47.35\% | 48.02\% | 47.90\% | 48.46\% |
| Entergy Mississippi, Inc. | ETR | 49.27\% | 48.87\% | 48.86\% | 48.05\% | 48.23\% | 47.61\% | 47.71\% | 48.53\% | 48.39\% |
| Entergy New Orleans, Inc. | ETR | 53.42\% | 58.69\% | 50.76\% | 51.71\% | 50.62\% | 50.24\% | 50.58\% | 49.39\% | 51.93\% |
| Entergy Texas, Inc. | ETR | 47.29\% | 49.96\% | 50.09\% | 48.95\% | 49.86\% | 49.41\% | 50.14\% | 49.04\% | 49.34\% |
| Connecticut Light and Power Company | ES | 54.45\% | 53.05\% | 53.35\% | 52.25\% | 53.26\% | 53.11\% | 52.72\% | 50.52\% | 52.84\% |
| NSTAR Electric Company | ES | 55.76\% | 56.11\% | 59.18\% | 58.53\% | 58.22\% | 57.84\% | 57.17\% | 55.95\% | 57.34\% |
| Public Service Company of New Hampshire | ES | 54.04\% | 53.48\% | 53.56\% | 53.44\% | 53.40\% | 53.29\% | 53.92\% | 52.44\% | 53.45\% |
| Western Massachusetts Electric Company | ES | 53.78\% | 53.46\% | 53.25\% | 50.70\% | 50.48\% | 50.31\% | 49.97\% | 49.29\% | 51.40\% |
| Cleveland Electric Illuminating Company | FE | 45.05\% | 45.10\% | 44.89\% | 44.35\% | 45.44\% | 44.99\% | 45.28\% | 44.88\% | 45.00\% |
| Jersey Central Power \& Light Company | FE | 52.37\% | 52.32\% | 52.77\% | 55.19\% | 54.99\% | 54.77\% | 55.24\% | 54.49\% | 54.02\% |
| Monongahela Power Company | FE | 49.61\% | 48.89\% | 48.79\% | 48.17\% | 47.92\% | 47.04\% | 46.86\% | 46.27\% | 47.94\% |
| Ohio Edison Company | FE | 64.08\% | 63.58\% | 65.73\% | 64.75\% | 64.01\% | 63.05\% | 57.70\% | 56.35\% | 62.40\% |
| Pennsylvania Electric Company | FE | 48.32\% | 47.70\% | 49.01\% | 48.46\% | 48.06\% | 47.66\% | 48.17\% | 47.74\% | 48.14\% |
| Potomac Edison Company | FE | 52.67\% | 51.59\% | 52.56\% | 51.73\% | 51.11\% | 51.05\% | 51.96\% | 51.17\% | 51.73\% |
| Toledo Edison Company | FE | 60.61\% | 60.41\% | 52.06\% | 51.72\% | 51.37\% | 50.74\% | 51.51\% | 50.70\% | 53.64\% |
| West Penn Power Company | FE | 51.06\% | 49.48\% | 51.14\% | 56.25\% | 55.18\% | 54.20\% | 55.21\% | 54.31\% | 53.35\% |
| Idaho Power Co. | IDA | 50.70\% | 52.34\% | 52.25\% | 51.61\% | 49.38\% | 52.94\% | 52.92\% | 52.03\% | 51.77\% |
| Madison Gas and Electric Company | MGEE | 62.00\% | 61.90\% | 61.88\% | 61.20\% | 61.12\% | 60.52\% | 59.93\% | 59.49\% | 61.00\% |
| Interstate Power and Light Company | LNT | 51.52\% | 50.91\% | 50.90\% | 51.72\% | 50.09\% | 49.90\% | 54.01\% | 52.05\% | 51.39\% |
| Wisconsin Power and Light Company | LNT | 51.78\% | 51.56\% | 51.63\% | 50.65\% | 50.54\% | 50.32\% | 54.45\% | 53.82\% | 51.84\% |
| NorthWestern Corporation | NWE | 47.54\% | 47.31\% | 46.01\% | 46.97\% | 47.54\% | 47.06\% | 47.78\% | 47.45\% | 47.21\% |
| Oklahoma Gas and Electric Company | OGE | 55.17\% | 54.30\% | 54.38\% | 53.31\% | 52.98\% | 53.08\% | 55.43\% | 52.94\% | 53.95\% |
| Otter Tail Power Company | OTTR | 53.10\% | 52.75\% | 52.51\% | 52.32\% | 51.13\% | 49.80\% | 49.32\% | 47.60\% | 51.07\% |
| Public Service Company of New Mexico | PNM | 45.35\% | 45.32\% | 44.76\% | 45.63\% | 46.11\% | 45.86\% | 47.43\% | 47.14\% | 45.95\% |
| Texas-New Mexico Power Company | PNM | NA | NA | NA | NA | NA | NA | NA | NA | N/A |
| Arizona Public Service Company | PNW | 55.54\% | 55.50\% | 57.11\% | 55.72\% | 55.86\% | 57.54\% | 58.43\% | 57.32\% | 56.63\% |
| Portland General Electric Company | POR | 50.89\% | 50.61\% | 50.31\% | 49.57\% | 44.11\% | 43.31\% | 44.86\% | 46.64\% | 47.54\% |
| South Carolina Electric \& Gas Co. | SCG | 52.77\% | 52.57\% | 52.55\% | 52.08\% | 53.72\% | 53.46\% | 53.47\% | 52.85\% | 52.93\% |
| Integrys Holding, Inc. | WEC | NA | NA | 56.36\% | 55.10\% | 54.80\% | 54.61\% | 54.32\% | 54.05\% | 54.87\% |
| Wisconsin Electric Power Company | WEC | 56.95\% | 57.25\% | 57.07\% | 56.76\% | 59.02\% | 58.57\% | 58.45\% | 58.56\% | 57.83\% |
| Wisconsin Public Service Corporation | WEC | 54.65\% | 53.53\% | 56.36\% | 55.10\% | 54.80\% | 54.61\% | 54.32\% | 54.05\% | 54.68\% |
| Northern States Power Company - MN | XEL | 53.68\% | 53.26\% | 51.95\% | 53.34\% | 53.03\% | 52.89\% | 52.84\% | 52.49\% | 52.94\% |
| Northern States Power Company - WI | XEL | 54.43\% | 54.27\% | 52.92\% | 52.53\% | 56.36\% | 55.18\% | 55.01\% | 52.92\% | 54.20\% |
| Public Service Company of Colorado | XEL | 56.49\% | 56.34\% | 56.00\% | 55.55\% | 56.94\% | 56.79\% | 56.51\% | 56.12\% | 56.34\% |
| Southwestern Public Service Company | XEL | 54.13\% | 53.83\% | 51.20\% | 54.08\% | 53.54\% | 53.62\% | 53.81\% | 52.10\% | 53.29\% |
| Mean |  | 52.15\% | 52.09\% | 52.04\% | 51.99\% | 52.33\% | 51.98\% | 52.43\% | 51.95\% | 52.17\% |

[^6]|  |  |  |  |  | \% Long-Term Debt |  |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | 2016Q1 | 2015Q4 | 2015Q3 | 2015Q2 | 2015Q1 | 2014Q4 | 2014Q3 | 2014Q2 | Average 1


|  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
|  |  | Operating | Company | Capital Structure |  |  |  |
|  |  |  |  |  |  |  |  |
| Operating Company | Parent | $2016 Q 1$ | $2015 Q 4$ | $2015 Q 3$ | $2015 Q 2$ | $2015 Q 1$ | 2014 T |

Flotation Cost Adjustment - Combined Proxy Group

| Company | Date | Shares Issued | Offering Price | Underwriting Discount | Offering <br> Expense | Net Proceeds Per Share | Total Flotation Costs | Gross Equity Issue Before Costs | Net Proceeds | Flotation Cost Percentage |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALLETE, Inc. | 2/26/2014 | 3,220,000 | \$49.75 | \$1.7413 | \$450,000 | \$47.87 | \$6,056,825 | \$160,195,000 | \$154,138,175 | 3.781\% |
| ALLETE, Inc. | 5/25/2001 | 7,475,000 | \$23.68 | \$0.9472 | \$350,000 | \$22.69 | \$7,430,320 | \$177,008,000 | \$169,577,680 | 4.198\% |
| Alliant Energy Corporation | 7/1/2003 | 17,250,000 | \$19.25 | \$0.7700 | \$370,000 | \$18.46 | \$13,652,500 | \$332,062,500 | \$318,410,000 | 4.111\% |
| Alliant Energy Corporation | 11/8/2001 | 9,775,000 | \$28.00 | \$1.0500 | \$425,000 | \$26.91 | \$10,688,750 | \$273,700,000 | \$263,011,250 | 3.905\% |
| Ameren Corp. | 9/9/2009 | 21,850,000 | \$25.25 | \$0.7575 | \$450,000 | \$24.47 | \$17,001,375 | \$551,712,500 | \$534,711,125 | 3.082\% |
| Ameren Corp. | 6/30/2004 | 10,925,000 | \$42.00 | \$1.2600 | \$400,000 | \$40.70 | \$14,165,500 | \$458,850,000 | \$444,684,500 | 3.087\% |
| American Electric Power Company, Inc. | 4/1/2009 | 69,000,000 | \$24.50 | \$0.7350 | \$400,000 | \$23.76 | \$51,115,000 | \$1,690,500,000 | \$1,639,385,000 | 3.024\% |
| American Electric Power Company, Inc. | 2/27/2003 | 57,500,000 | \$20.95 | \$0.6285 | \$550,000 | \$20.31 | \$36,688,750 | \$1,204,625,000 | \$1,167,936,250 | 3.046\% |
| Avista Corporation | 12/11/2006 | 3,162,500 | \$25.05 | \$0.4800 | \$300,000 | \$24.48 | \$1,818,000 | \$79,220,625 | \$77,402,625 | 2.295\% |
| CMS Energy Corporation | 3/30/2005 | 23,000,000 | \$12.25 | \$0.4288 | \$325,000 | \$11.81 | \$10,187,400 | \$281,750,000 | \$271,562,600 | 3.616\% |
| CMS Energy Corporation | 10/7/2004 | 32,775,000 | \$9.10 | \$0.3185 | \$325,000 | \$8.77 | \$10,763,838 | \$298,252,500 | \$287,488,663 | 3.609\% |
| DTE Energy Company | 6/19/2002 | 6,325,000 | \$43.25 | \$1.4056 | \$250,000 | \$41.80 | \$9,140,420 | \$273,556,250 | \$264,415,830 | 3.341\% |
| Eversource Energy | 3/16/2009 | 18,975,000 | \$20.20 | \$0.6565 | \$335,000 | \$19.53 | \$12,792,088 | \$383,295,000 | \$370,502,913 | 3.337\% |
| Eversource Energy | 12/6/2005 | 23,000,000 | \$19.09 | \$0.6200 | \$340,000 | \$18.46 | \$14,600,000 | \$439,070,000 | \$424,470,000 | 3.325\% |
| FirstEnergy Corp. | 9/11/2003 | 32,200,000 | \$30.00 | \$0.9750 | \$423,000 | \$29.01 | \$31,818,000 | \$966,000,000 | \$934,182,000 | 3.294\% |
| IDACORP, Inc. | 12/9/2004 | 4,025,000 | \$30.00 | \$1.2000 | \$300,000 | \$28.73 | \$5,130,000 | \$120,750,000 | \$115,620,000 | 4.248\% |
| MGE Energy, Inc. | 9/10/2004 | 1,265,000 | \$31.85 | \$1.0350 | \$125,000 | \$30.72 | \$1,434,275 | \$40,290,250 | \$38,855,975 | 3.560\% |
| NorthWestern Corporation | 9/29/2015 | 1,100,000 | \$51.81 | \$1.3300 | \$1,000,000 | \$49.57 | \$2,463,000 | \$56,991,000 | \$54,528,000 | 4.322\% |
| NorthWestern Corporation | 11/4/2014 | 7,766,990 | \$51.50 | \$1.8025 | \$1,000,000 | \$49.57 | \$14,999,999 | \$399,999,985 | \$384,999,986 | 3.750\% |
| OGE Energy Corp. | 8/21/2003 | 5,324,074 | \$21.60 | \$0.7900 | \$325,000 | \$20.75 | \$4,531,018 | \$114,999,998 | \$110,468,980 | 3.940\% |
| Otter Tail Corporation | 9/18/2008 | 5,175,000 | \$30.00 | \$1.0875 | \$400,000 | \$28.84 | \$6,027,813 | \$155,250,000 | \$149,222,188 | 3.883\% |
| Otter Tail Corporation | 12/7/2004 | 3,335,000 | \$25.45 | \$0.9500 | \$300,000 | \$24.41 | \$3,468,250 | \$84,875,750 | \$81,407,500 | 4.086\% |
| Pinnacle West Capital Corporation | 4/8/2010 | 6,900,000 | \$38.00 | \$1.3300 | \$190,000 | \$36.64 | \$9,367,000 | \$262,200,000 | \$252,833,000 | 3.572\% |
| Pinnacle West Capital Corporation | 4/27/2005 | 6,095,000 | \$42.00 | \$1.3650 | \$250,000 | \$40.59 | \$8,569,675 | \$255,990,000 | \$247,420,325 | 3.348\% |
| PNM Resources, Inc. | 12/6/2006 | 5,750,000 | \$30.79 | \$1.0780 | \$250,000 | \$29.67 | \$6,448,500 | \$177,042,500 | \$170,594,000 | 3.642\% |
| PNM Resources, Inc. | 3/23/2005 | 3,910,000 | \$26.76 | \$0.8697 | \$200,000 | \$25.84 | \$3,600,527 | \$104,631,600 | \$101,031,073 | 3.441\% |
| Portland General Electric Company | 6/11/2013 | 12,765,000 | \$29.50 | \$0.9588 | \$600,000 | \$28.49 | \$12,838,444 | \$376,567,500 | \$363,729,056 | 3.409\% |
| Portland General Electric Company | 3/5/2009 | 12,477,500 | \$14.10 | \$0.4935 | \$375,000 | \$13.58 | \$6,532,646 | \$175,932,750 | \$169,400,104 | 3.713\% |
| SCANA Corporation | 5/11/2010 | 8,222,500 | \$37.00 | \$1.2950 | \$350,000 | \$35.66 | \$10,998,138 | \$304,232,500 | \$293,234,363 | 3.615\% |
| SCANA Corporation | 12/31/2008 | 2,875,000 | \$35.50 | \$0.5325 | \$350,000 | \$34.85 | \$1,880,938 | \$102,062,500 | \$100,181,563 | 1.843\% |
| Xcel Energy Inc. | 8/3/2010 | 21,850,000 | \$21.50 | \$0.6450 | \$600,000 | \$20.83 | \$14,693,250 | \$469,775,000 | \$455,081,750 | 3.128\% |
| Xcel Energy Inc. | 9/9/2008 | 17,250,000 | \$20.25 | \$0.1500 | \$600,000 | \$20.07 | \$3,187,500 | \$349,312,500 | \$346,125,000 | 0.913\% |
| Mean |  |  |  |  |  |  | \$11,377,804 | \$347,521,913 |  |  |


| Constant Growth Discounted Cash Flow Model Adjusted for Flotation Costs - 30 Day Average Stock Price |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Average |  | Expected | vidend Yielc | Zacks | First Call | Value Line | Average |  | Flotation |
| Company | Ticker | Annualized Dividend | Stock <br> Price | Dividend Yield | Current | Adjusted for Flot. Costs | Earnings Growth | Earnings Growth | Earnings Growth | Earnings Growth | DCF k(e) | Adjusted DCF k(e) |
| ALLETE, Inc. | ALE | \$2.08 | \$59.67 | 3.49\% | 3.57\% | 3.69\% | 5.50\% | 5.00\% | 4.00\% | 4.83\% | 8.40\% | 8.52\% |
| Alliant Energy Corporation | LNT | \$1.18 | \$38.20 | 3.08\% | 3.17\% | 3.28\% | 6.10\% | 6.60\% | 6.00\% | 6.23\% | 9.40\% | 9.51\% |
| Ameren Corporation | AEE | \$1.70 | \$50.12 | 3.39\% | 3.49\% | 3.61\% | 6.10\% | 5.20\% | 6.00\% | 5.77\% | 9.26\% | 9.37\% |
| American Electric Power Company, Inc. | AEP | \$2.24 | \$66.05 | 3.39\% | 3.47\% | 3.58\% | 4.90\% | 4.10\% | 4.00\% | 4.33\% | 7.80\% | 7.92\% |
| Avista Corporation | AVA | \$1.37 | \$41.65 | 3.29\% | 3.37\% | 3.49\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.37\% | 8.49\% |
| CMS Energy Corporation | CMS | \$1.24 | \$42.95 | 2.89\% | 2.98\% | 3.08\% | 6.40\% | 7.24\% | 6.00\% | 6.55\% | 9.53\% | 9.63\% |
| DTE Energy Company | DTE | \$3.08 | \$92.91 | 3.32\% | 3.40\% | 3.52\% | 5.80\% | 5.35\% | 5.00\% | 5.38\% | 8.79\% | 8.90\% |
| El Paso Electric Company | EE | \$1.24 | \$45.30 | 2.74\% | 2.81\% | 2.91\% | 6.70\% | 7.00\% | 2.50\% | 5.40\% | 8.21\% | 8.31\% |
| Entergy Corporation | ETR | \$3.40 | \$77.45 | 4.39\% | 4.47\% | 4.62\% | NA | NA | 3.50\% | 3.50\% | 7.97\% | 8.12\% |
| Eversource Energy | ES | \$1.78 | \$56.36 | 3.16\% | 3.25\% | 3.36\% | 6.30\% | 5.49\% | 6.00\% | 5.93\% | 9.18\% | 9.29\% |
| FirstEnergy Corp. | FE | \$1.44 | \$33.34 | 4.32\% | 4.51\% | 4.67\% | NA | NA | 9.00\% | 9.00\% | 13.51\% | 13.67\% |
| IDACORP, Inc. | IDA | \$2.04 | \$74.50 | 2.74\% | 2.79\% | 2.88\% | 4.00\% | 4.00\% | 3.00\% | 3.67\% | 6.46\% | 6.55\% |
| MGE Energy, Inc. | MGEE | \$1.18 | \$53.30 | 2.21\% | 2.27\% | 2.35\% | NA | 4.00\% | 7.00\% | 5.50\% | 7.77\% | 7.85\% |
| NorthWestern Corporation | NWE | \$2.00 | \$59.68 | 3.35\% | 3.44\% | 3.56\% | 5.00\% | 5.00\% | 6.50\% | 5.50\% | 8.94\% | 9.06\% |
| OGE Energy Corp. | OGE | \$1.10 | \$30.95 | 3.55\% | 3.63\% | 3.75\% | 5.20\% | 4.30\% | 3.00\% | 4.17\% | 7.80\% | 7.92\% |
| Otter Tail Corporation | OTTR | \$1.25 | \$30.96 | 4.04\% | 4.16\% | 4.30\% | NA | 6.00\% | 6.00\% | 6.00\% | 10.16\% | 10.30\% |
| Pinnacle West Capital Corporation | PNW | \$2.50 | \$75.82 | 3.30\% | 3.36\% | 3.48\% | 4.00\% | 3.73\% | 4.00\% | 3.91\% | 7.27\% | 7.39\% |
| PNM Resources, Inc. | PNM | \$0.88 | \$33.49 | 2.63\% | 2.74\% | 2.83\% | 7.60\% | 8.76\% | 9.00\% | 8.45\% | 11.19\% | 11.28\% |
| Portland General Electric Company | POR | \$1.28 | \$41.86 | 3.06\% | 3.15\% | 3.26\% | 6.40\% | 6.57\% | 5.50\% | 6.16\% | 9.31\% | 9.42\% |
| SCANA Corporation | SCG | \$2.30 | \$71.01 | 3.24\% | 3.32\% | 3.43\% | 5.30\% | 5.40\% | 4.50\% | 5.07\% | 8.39\% | 8.50\% |
| Wisconsin Energy Corporation | WEC | \$1.98 | \$61.68 | 3.21\% | 3.31\% | 3.42\% | 6.30\% | 6.77\% | 6.00\% | 6.36\% | 9.67\% | 9.78\% |
| Xcel Energy Inc. | XEL | \$1.36 | \$42.20 | 3.22\% | 3.31\% | 3.42\% | 5.30\% | 5.27\% | 5.50\% | 5.36\% | 8.67\% | 8.78\% |
| PROXY GROUP MEAN |  |  |  |  |  |  |  |  |  |  | 8.91\% | 9.02\% |

Notes:
The proxy group DCF result is adjusted for flotation costs by dividing each company's expected dividend yield by (
flotation cost). The flotation cost adjustment is derived as the difference between the unadjusted DCF result and
the DCF result adjusted for flotation costs.
[1] Source: Bloomberg Professional
[2] Source: Bloomberg Professional
[3] Equals [1] / [2]
[4] Equals [3] $\times(1+0.5 \times[9])$
[5] Equals [4] / ( $1-0.0327$ )
[6] Source: Zacks
[7] Source: Yahoo! Finance
[8] Source: Value Line
[9] Equals Average([6], [7], [8])
[10] Equals [4] + +9$]$
[12] Equals Average [11] - Average [10]

Docket No. 160021-EI

## Proxy Group Comparison

| Companies | Ticker | Hevert | Baudino | Gorman | Woolridge | Combined Group |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALLETE, Inc. | ALE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | 1 |
| Alliant Energy Corporation | LNT | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Ameren Corporation | AEE | $\checkmark$ |  | $\checkmark$ | $\sqrt{ }$ | $\checkmark$ |
| American Electric Power Company | AEP | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Avista Corporation | AVA | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Black Hills Corporation | BKH |  |  |  | $\checkmark$ | [1] |
| CMS Energy Corporation | CMS | $\checkmark$ |  | $\checkmark$ | $\sqrt{ }$ | $\sqrt{ }$ |
| Consolidated Edison, Inc. | ED |  | $\checkmark$ |  | $\checkmark$ | [2] |
| Dominion Resources, Inc. | D | $\checkmark$ |  |  | $\checkmark$ | [1]* |
| DTE Energy Corporation | DTE | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ |
| Duke Energy Corporation | DUK |  |  |  | $\checkmark$ | [1] |
| Edison International | EIX |  | $\checkmark$ |  | $\checkmark$ | [1] |
| El Paso Electric | EE |  |  |  | $\sqrt{ }$ |  |
| Entergy Corporation | ETR |  |  |  | $\checkmark$ | $\checkmark$ |
| Eversource Energy | ES |  | $\sqrt{ }$ |  | $\checkmark$ | $\sqrt{ }$ |
| First Energy Corporation | FE |  |  |  | $\checkmark$ | $\checkmark$ |
| Great Plains Energy, Inc. | GXP | $\checkmark$ |  |  |  | [1]* |
| IDACORP, Inc. | IDA | $\checkmark$ | $\sqrt{ }$ | $\sqrt{ }$ | $\checkmark$ | $\sqrt{ }$ |
| MGE Energy, Inc. | MGEE |  |  |  | $\checkmark$ | $\checkmark$ |
| NextEra Energy, Inc. | NEE |  |  |  | $\checkmark$ | [1], [3] |
| NorthWestern Corporation | NWE | $\checkmark$ | $\checkmark$ | , | $\checkmark$ | $\checkmark$ |
| OGE Energy Corp. | OGE | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Otter Tail Corporation | OTTR | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |
| PG\&E Corporation | PCG |  |  |  | $\checkmark$ | [1] |
| Pinnacle West Capital Corporation | PNW | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| PNM Resources | PNM | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Portland General Electric Co. | POR | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| SCANA Corporation | SCG | $\checkmark$ |  | $\sqrt{ }$ | $\sqrt{ }$ | $\checkmark$ |
| Southern Company | SO |  |  |  | $\checkmark$ | [1] |
| Westar Energy, Inc. | WR | $\checkmark$ |  |  |  | [1]* |
| Wisconsin Energy Corporation | WEC |  | $\checkmark$ |  | $\checkmark$ |  |
| Xcel Energy, Inc. | XEL | $\checkmark$ | $\checkmark$ | $\sqrt{ }$ | $\sqrt{ }$ | $\sqrt{ }$ |
| $\checkmark$ Included in proxy group |  |  |  |  |  |  |
| * Originally included in Hevert proxy group, but removed for recent activity |  |  |  |  |  |  |
| [1] Removed for being party to a merger or significant transaction |  |  |  |  |  |  |
| Note: EIX is subject to onoing settlement payments associated with the bankruptcy of its merchant generation division |  |  |  |  |  |  |
| Note: PCG was subject to significant penalties from the San Bruno pipeline incident |  |  |  |  |  |  |
| [2] Removed for having no regulated generation |  |  |  |  |  |  |
| [3] Parent company; removed to avoid circular logic |  |  |  |  |  |  |

Docket No. 160021-El
Sponsored by Robert B. Hevert
Exhibit RBH-20, Page 1 of 1

| Company | Ticker | Trailing P/E | P/E | Forecasted P/E | Percent <br> Change <br> Trailing to Forecast | Percent Change to Forecast |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALLETE, Inc. | ALE | 17.30 | 18.70 | 14.00 | -19\% | -25\% |
| Alliant Energy Corporation | LNT | 22.90 | 20.80 | 15.00 | -34\% | -28\% |
| Ameren Corporation | AEE | 21.00 | 19.80 | 14.00 | -33\% | -29\% |
| American Electric Power Company, Inc. | AEP | 19.70 | 17.80 | 14.50 | -26\% | -19\% |
| Avista Corporation | AVA | 21.50 | 20.50 | 14.00 | -35\% | -32\% |
| Black Hills Corporation | BKH | 21.00 | 23.50 | 15.00 | -29\% | -36\% |
| CMS Energy Corporation | CMS | 24.30 | 21.30 | 14.00 | -42\% | -34\% |
| Consolidated Edison, Inc. | ED | 19.20 | 19.20 | 15.50 | -19\% | -19\% |
| Dominion Resources, Inc. | D | 22.50 | 20.10 | 18.00 | -20\% | -10\% |
| Duke Energy Corporation | DUK | 20.00 | 18.00 | 16.50 | -18\% | -8\% |
| Edison International | EIX | 17.20 | 17.70 | 15.00 | -13\% | -15\% |
| El Paso Electric Company | EE | 22.40 | 23.70 | 17.00 | -24\% | -28\% |
| Entergy Corporation | ETR | 14.40 | 15.40 | 13.00 | -10\% | -16\% |
| Eversource Energy | ES | 21.10 | 19.50 | 14.50 | -31\% | -26\% |
| FirstEnergy Corp. | FE | 15.10 | 13.00 | 11.50 | -24\% | -12\% |
| IDACORP, Inc. | IDA | 19.10 | 18.80 | 14.50 | -24\% | -23\% |
| MGE Energy, Inc. | MGEE | 26.20 | 24.10 | 15.00 | -43\% | -38\% |
| NextEra Energy, Inc. | NEE | 20.00 | 19.80 | 17.50 | -13\% | -12\% |
| NorthWestern Corporation | NWE | 23.30 | 21.20 | 13.50 | -42\% | -36\% |
| OGE Energy Corp. | OGE | 19.50 | 17.80 | 17.00 | -13\% | -4\% |
| Otter Tail Corporation | OTTR | 19.50 | 19.70 | 18.00 | -8\% | -9\% |
| PG\&E Corporation | PCG | 29.80 | 21.10 | 12.00 | -60\% | -43\% |
| Pinnacle West Capital Corporation | PNW | 19.10 | 18.60 | 14.50 | -24\% | -22\% |
| PNM Resources, Inc. | PNM | NMF | 20.40 | 16.00 | N/A | -22\% |
| Portland General Electric Company | POR | 19.50 | 18.30 | 13.00 | -33\% | -29\% |
| SCANA Corporation | SCG | 19.10 | 17.90 | 13.50 | -29\% | -25\% |
| Southern Company | SO | 17.50 | 17.90 | 15.00 | -14\% | -16\% |
| Wisconsin Energy Corporation | WEC | 23.50 | 21.00 | 15.00 | -36\% | -29\% |
| Xcel Energy Inc. | XEL | 19.60 | 18.80 | 14.50 | -26\% | -23\% |

Source: Value Line as of June 30, 2016

| Line Description | IMPLIED GROWTH RATE AT ALLOWED ROE: |  |
| :--- | :--- | ---: |
| Input | Dividend Yield | $4.50 \%$ |
| Assumes $\mathrm{g}=$ Allowed ROE - Div. Yield | Assumed Growth Rate | $6.50 \%$ |
| Input | Total Return | $11.00 \%\left[{ }^{[1]}\right.$ |
| Input | Payout Ratio | $67.50 \%$ |
| Input | Book Value/Share | 20 |


|  |  | 0 |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 250 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BV/S Escalates at Constant Growth g | Book Value/Share |  | \$ 20.00 | \$ 21.30 | \$ 22.68 | \$ 24.16 | \$ 25.73 | \$ 27.40 | \$ 29.18 | \$ 31.08 | \$ 33.10 | \$ 35.25 | \$ 37.54 | \$ | 137,540,924.55 |
| Demonstrating Constant BV/S growth |  |  |  | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% |  | 6.50\% |
| Earnings based on ROE applied to BV/S | Earnings/share |  | \$ 2.20 | \$ 2.34 | \$ 2.50 | \$ 2.66 | \$ 2.83 | \$ 3.01 | \$ 3.21 | \$ 3.42 | \$ 3.64 | \$ 3.88 | \$ 4.13 | \$ | 15,129,501.70 |
| Demonstrating Constant EPS growth |  |  |  | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% |  | 6.50\% |
| Demonstrating Constant Return Earned based on BV/S and EPS | Allowed ROE |  | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% | 11.00\% |  | 11.00\% |
| Div/S based on EPS and Constant Payout ratio | Dividends/Share |  | \$ 1.49 | \$ 1.58 | \$ 1.68 | \$ 1.79 | \$ 1.91 | \$ 2.03 | \$ 2.17 | \$ 2.31 | \$ 2.46 | \$ 2.62 | \$ 2.79 | \$ | 10,212,413.65 |
| Demonstrating Constant Div/S growth |  |  |  | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% |  | 6.50\% |
| Retained Earnings based on difference between EPS and Div/S | Earnings retained to book value |  | \$ 0.72 | \$ 0.76 | \$ 0.81 | \$ 0.86 | \$ 0.92 | \$ 0.98 | \$ 1.04 | \$ 1.11 | \$ 1.18 | \$ 1.26 | \$ 1.34 | \$ | 4,917,088.05 |
| Demonstrating Constant growth in Retained Earnings |  |  |  | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% | 6.50\% |  | 6.50\% |
| Demonstrating Constant Market/Book ratio | Market/Book Ratio |  | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 | 1.757 |  | 1.757 |
| DCF calculation of market price $=[\mathrm{Div} / \mathrm{S}]^{*}[1+\mathrm{g}] /[\mathrm{ROE}-\mathrm{g}]$ | Market Price |  | \$ 35.15 | \$ 37.43 | \$ 39.86 | \$ 42.45 | \$ 45.21 | \$ 48.15 | \$ 51.28 | \$ 54.61 | \$ 58.16 | \$ 61.95 | \$ 65.97 | \$ | 241,693,789.67 |
| Demonstrating Price Appreciation equals Long Term Growth Rate | Price Appreciation |  | 6.50\% | OK | <= Price | appreciation | tion should | equal long | term grow | wth rate |  |  |  |  |  |
| Demonstrating Constant Price/Earnings Ratio | Price/Earnings |  | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 | 15.98 |  | 15.98 |
| Present Value Factor calculated based upon the current period and the |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Constant ROE | Present Value Factor |  |  | 0.9009 | 0.8116 | 0.7312 | 0.6587 | 0.5935 | 0.5346 | 0.4817 | 0.4339 | 0.3909 | 0.3522 |  | 0.0000 |



| CASE 2 10-YEAR HOLDING PERIOD |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Present value of Div/S obtained by multiplying nominal Div/S by the Present Value Factor for the period | Present Value of Dividend | \$ | 1.42 | \$ | 1.37 | \$ | 1.31 | \$ | 1.26 | \$ | 1.21 |
| Present value of Stock Price obtained by multiplying nominal Stock Price by the Present Value Factor for the 10th Period (Terminal Value) | Present Value of Stock Price |  | -- |  | -- |  | -- |  | -- |  | -- |
| Value of dividends $=$ sum of all Present Value Dividends for periods 1-10 | Value of Dividends |  | 11.91 |  |  |  |  |  |  |  |  |
| Present value of Stock Price obtained by multiplying nominal Stock Price by the Present Value Factor for the 10th Period (Terminal Value) Total Value of investment sum of all Present Value Dividends for periods 1 10 and Present Value of Stock in period 10 (Terminal Value) | Value of Stock Price Value of Investment |  |  |  |  |  |  |  |  |  |  |
| CASE 3 | 5-YEAR HOLDING PERIOD |  |  |  |  |  |  |  |  |  |  |
| Present value of Div/S obtained by multiplying nominal Div/S by the Present Value Factor for the period | Present Value of Dividend | \$ | 1.42 | \$ | 1.37 | \$ | 1.31 | \$ | 1.26 | \$ | 1.21 |
| Present value of Stock Price obtained by multiplying nominal Stock Price by the Present Value Factor for the 5th Period (Terminal Value) | Present Value of Stock Price |  | -- |  | -- |  | -- |  | -- |  | 28.58 |
| Value of dividends $=$ sum of all Present Value Dividends for periods 1-5 | Value of Dividends | \$ | 6.57 |  |  |  |  |  |  |  |  |
| Present value of Stock Price obtained by multiplying nominal Stock Price by the Present Value Factor for the 5 th Period (Terminal Value) | Value of Stock Price |  |  |  |  |  |  |  |  |  |  |
| Total Value of investment sum of all Present Value Dividends for periods 15 and Present Value of Stock in period 5 (Terminal Value) | Value of Investment |  |  |  |  |  |  |  |  |  |  |

[1] Source: Exhibit RBH-XX. Note, for purposes of this exhibit, these data are illustrative only.
[2] Note: Illustrative only

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Source: Value Line Investment Survey as of June 30, 2016; Exhibit JRW-10
SUMMARY OUTPUT

|  |  |
| :--- | ---: |
|  | Regression Statistics |
| Multiple R | 0.408347 |
| R Square | 0.166747 |
| Adjusted R Square | 0.134699 |
| Standard Error | 1.796265 |
| Observations | 28.000000 |

ANOVA

|  | $d f$ |  | SS | MS | $F$ |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Regression | 1 | 16.787844 | 16.787844 | 5.203006 | 0.030982 |
| Residual | 26 | 83.890728 | 3.226566 |  |  |
| Total | 27 | 100.678571 |  |  |  |


|  | Coefficients | Standard Error | $t$ Stat | P-value | Lower 95\% | Upper 95\% |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Intercept | 13.736357 | 0.887633 | 15.475269 | 0.000000 | 11.911801 | 15.560912 |
| Proj. Earnings Growth Rate | 34.461849 | 15.108155 | 2.281010 | 0.030982 | 3.406592 | 65.517106 |

SUMMARY OUTPUT

|  | Regression Statistics |
| :--- | ---: | ---: |
| Multiple R | 0.270143 |
| R Square | 0.072977 |
| Adjusted R Square | 0.037322 |
| Standard Error | 1.894642 |
| Observations | 28 |


| ANOVA | df | SS | MS | $F$ | Significance $F$ |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Regression |  | 1 | 7.347222 | 7.347222 | 2.046770 | 0.164439 |
| Residual | 26 | 93.331349 | 3.589667 |  |  |  |
| Total | 27 | 100.678571 |  |  |  |  |


|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Intercept | 16.778439 | 0.893586 | 18.776533 | 0.000000 | 14.941648 | 18.615231 |
| Proj. Div Growth Rate | -21.296296 | 14.885711 | -1.430654 | 0.164439 | -51.894314 | 9.301721 |

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|  | Regression Statistics |  |
| :--- | ---: | ---: |
| Multiple R | 0.113124 |  |
| R Square | 0.012797 |  |
| Adjusted R Square |  | -0.025172 |
| Standard Error | 1.955172 |  |
| Observations | 28 |  |

## ANOVA

|  | df | SS | MS | F | Significance $F$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regression | 1 | 1.288398 | 1.288398 | 0.337039 | 0.566542 |  |
| Residual | 26 | 99.390173 | 3.822699 |  |  |  |
| Total | 27 | 100.678571 |  |  |  |  |
|  |  |  |  |  |  |  |
|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 14.628613 | 1.725545 | 8.477675 | 0.000000 | 11.081703 | 18.175522 |
| Proj. BV Growth Rate | 22.832370 | 39.328829 | 0.580550 | 0.566542 | -58.009196 | 103.673936 |

SUMMARY OUTPUT

|  | Regression Statistics |  |
| :--- | ---: | ---: |
| Multiple R |  | 0.055388 |
| R Square | 0.003068 |  |
| Adjusted R Square | -0.035276 |  |
| Standard Error | 1.964783 |  |
| Observations | 28 |  |


| ANOVA | df |  | SS | MS | $F$ | Significance $F$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | 1 | 0.308861 | 0.308861 | 0.080008 | 0.779526 |
| Regression |  | 26 | 100.369710 | 3.860373 |  |  |
| Residual |  |  |  |  |  |  |
| Total |  |  |  |  |  |  |
|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
|  | 15.137599 | 1.701026 | 8.899100 | 0.000000 | 11.641090 | 18.634107 |
| Intercept | 11.442334 | 40.452702 | 0.282857 | 0.779526 | -71.709386 | 94.594053 |
| Sustainable Growth Rate |  |  |  |  |  |  |

SUMMARY OUTPUT

|  | Regression Statistics |
| :--- | ---: | ---: |
| Multiple R | 0.546922 |
| R Square | 0.299124 |
| Adjusted R Square | 0.177233 |
| Standard Error | 1.751561 |
| Observations | 28 |

ANOVA

|  | df | SS | MS | $F$ | Significance F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regression | 4 | 30.115390 | 7.528847 | 2.454020 | 0.074516 |  |
| Residual | 23 | 70.563182 | 3.067964 |  |  |  |
| Total | 27 | 100.678571 |  |  |  |  |
|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 15.282894 | 1.828242 | 8.359341 | 0.000000 | 11.500889 | 19.064900 |
| Proj. Earnings Growth Rate | 41.198478 | 17.400325 | 2.367684 | 0.026688 | 5.203164 | 77.193792 |
| Proj. Div Growth Rate | -26.857425 | 14.973545 | -1.793658 | 0.086027 | -57.832562 | 4.117713 |
| Proj. BV Growth Rate | 37.759099 | 42.386933 | 0.890819 | 0.382250 | -49.924952 | 125.443150 |
| Sustainable Growth Rate | -50.037609 | 44.298500 | -1.129555 | 0.270307 | -141.676039 | 41.600820 |

Analysts' Projected EPS Growth Rates - Woolridge Proxy Group as Filed

| Company | Ticker | Yahoo | Reuters | Zacks | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ALLETE, Inc. | ALE | 3.00\% | NA | 4.50\% | 3.75\% |
| Alliant Energy Corporation | LNT | 6.60\% | 6.60\% | 6.10\% | 6.43\% |
| Ameren Corporation | AEE | 5.20\% | 5.20\% | 6.10\% | 5.50\% |
| American Electric Power Company, Inc. | AEP | 4.10\% | 4.10\% | 4.90\% | 4.37\% |
| Avista Corporation | AVA | 5.00\% | NA | 5.00\% | 5.00\% |
| Black Hills Corporation | BKH | 6.50\% | NA | 6.50\% | 6.50\% |
| CMS Energy Corporation | CMS | 7.20\% | 7.20\% | 6.40\% | 6.93\% |
| Consolidated Edison, Inc. | ED | 1.90\% | 1.90\% | 2.30\% | 2.03\% |
| Dominion Resources, Inc. | D | 5.90\% | 5.90\% | 6.80\% | 6.20\% |
| Duke Energy Corporation | DUK | 4.60\% | 4.60\% | 4.80\% | 4.67\% |
| Edison International | EIX | 2.50\% | 2.50\% | 4.90\% | 3.30\% |
| El Paso Electric Company | EE | 7.00\% | NA | 6.70\% | 6.85\% |
| Entergy Corporation | ETR | -2.40\% | -2.40\% | -2.30\% | -2.37\% |
| Eversource Energy | ES | 6.30\% | 6.30\% | 6.30\% | 6.30\% |
| FirstEnergy Corp. | FE | -2.50\% | -2.50\% | -1.00\% | -2.00\% |
| IDACORP, Inc. | IDA | 4.00\% | 4.00\% | 4.00\% | 4.00\% |
| MGE Energy, Inc. | MGEE | 4.00\% | NA | NA | 4.00\% |
| NextEra Energy, Inc. | NEE | 7.40\% | 7.40\% | 6.90\% | 7.23\% |
| NorthWestern Corporation | NWE | 5.00\% | 5.00\% | 5.00\% | 5.00\% |
| OGE Energy Corp. | OGE | 4.30\% | 4.30\% | 5.20\% | 4.60\% |
| Otter Tail Corporation | OTTR | 6.00\% | NA | NA | 6.00\% |
| PG\&E Corporation | PCG | 6.10\% | 6.10\% | 5.10\% | 5.77\% |
| Pinnacle West Capital Corporation | PNW | 3.70\% | 3.70\% | 4.10\% | 3.83\% |
| PNM Resources, Inc. | PNM | 8.80\% | 8.80\% | 7.60\% | 8.40\% |
| Portland General Electric Company | POR | 6.60\% | 6.60\% | 6.40\% | 6.53\% |
| SCANA Corporation | SCG | 4.80\% | 4.80\% | 5.30\% | 4.97\% |
| Southern Company | SO | 3.30\% | 3.20\% | 4.10\% | 3.53\% |
| WEC Energy Group, Inc. | WEC | 6.80\% | 6.80\% | 6.30\% | 6.63\% |
| Xcel Energy Inc. | XEL | 5.30\% | 5.30\% | 5.30\% | 5.30\% |
| Average |  | 4.72\% | 4.58\% | 4.94\% | 4.80\% |
| Median |  | 5.00\% | 5.00\% | 5.20\% | 5.00\% |

Source: Exhibit JRW-10, Page 5 (Electronic version to two decimal places)

Analysts' Projected EPS Growth Rates - Woolridge Proxy Group Corrected

| Company | Ticker | Yahoo | Reuters | Zacks | Mean |
| :---: | :---: | :---: | :---: | :---: | :---: |
| ALLETE, Inc. | ALE | 3.00\% | NA | 4.50\% | 3.75\% |
| Alliant Energy Corporation | LNT | 6.60\% | 6.60\% | 6.10\% | 6.43\% |
| Ameren Corporation | AEE | 5.20\% | 5.20\% | 6.10\% | 5.50\% |
| American Electric Power Company, Inc. | AEP | 4.10\% | 4.10\% | 4.90\% | 4.37\% |
| Avista Corporation | AVA | 5.00\% | NA | 5.00\% | 5.00\% |
| Black Hills Corporation | BKH | 6.50\% | NA | 6.50\% | 6.50\% |
| CMS Energy Corporation | CMS | 7.20\% | 7.20\% | 6.40\% | 6.93\% |
| Consolidated Edison, Inc. | ED | 1.90\% | 1.90\% | 2.30\% | 2.03\% |
| Dominion Resources, Inc. | D | 5.90\% | 5.90\% | 6.80\% | 6.20\% |
| Duke Energy Corporation | DUK | 4.60\% | 4.60\% | 4.80\% | 4.67\% |
| Edison International | EIX | 2.50\% | 2.50\% | 4.90\% | 3.30\% |
| El Paso Electric Company | EE | 7.00\% | NA | 6.70\% | 6.85\% |
| Entergy Corporation | ETR | NA | NA | NA | NA |
| Eversource Energy | ES | 6.30\% | 6.30\% | 6.30\% | 6.30\% |
| FirstEnergy Corp. | FE | NA | NA | NA | NA |
| IDACORP, Inc. | IDA | 4.00\% | 4.00\% | 4.00\% | 4.00\% |
| MGE Energy, Inc. | MGEE | 4.00\% | NA | NA | 4.00\% |
| NextEra Energy, Inc. | NEE | 7.40\% | 7.40\% | 6.90\% | 7.23\% |
| NorthWestern Corporation | NWE | 5.00\% | 5.00\% | 5.00\% | 5.00\% |
| OGE Energy Corp. | OGE | 4.30\% | 4.30\% | 5.20\% | 4.60\% |
| Otter Tail Corporation | OTTR | 6.00\% | NA | NA | 6.00\% |
| PG\&E Corporation | PCG | 6.10\% | 6.10\% | 5.10\% | 5.77\% |
| Pinnacle West Capital Corporation | PNW | 3.70\% | 3.70\% | 4.10\% | 3.83\% |
| PNM Resources, Inc. | PNM | 8.80\% | 8.80\% | 7.60\% | 8.40\% |
| Portland General Electric Company | POR | 6.60\% | 6.60\% | 6.40\% | 6.53\% |
| SCANA Corporation | SCG | 4.80\% | 4.80\% | 5.30\% | 4.97\% |
| Southern Company | SO | 3.30\% | 3.20\% | 4.10\% | 3.53\% |
| WEC Energy Group, Inc. | WEC | 6.80\% | 6.80\% | 6.30\% | 6.63\% |
| Xcel Energy Inc. | XEL | 5.30\% | 5.30\% | 5.30\% | 5.30\% |
| Average |  | 5.26\% | 5.25\% | 5.46\% | 5.32\% |
| Median |  | 5.20\% | 5.20\% | 5.30\% | 5.30\% |
| Source: Exhibit JRW-10, Page 5 |  |  |  | Difference: | 0.52\% |

## Bond Yield Plus Risk Premium - Settled Only

|  | [1] Constant | [2] Slope | [3] 30-Year Treasury Yield | [4] <br> Risk Premium | [5] <br> Return on Equity |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | -1.76\% | -2.45\% |  |  |  |
| Current 30-Year Treasury |  |  | 2.50\% | 7.28\% | 9.78\% |
| Blue Chip Financial Forecast 2017Q3 Projection |  |  | 3.40\% | 6.52\% | 9.92\% |
| Blue Chip Financial Forecast 2020 Projection |  |  | 4.40\% | 5.89\% | 10.29\% |



Notes:
[1] Constant of regression equation
[2] Slope of regression equation
[3] Source: Current = Bloomberg Professional,
[3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2.
[3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
[4] Equals [1] $+\ln ([3]) \times$ [2]
[5] Equals [3] + [4]
[6] Source: SNL Financial
[7] Source: SNL Financial
[8] Source: Bloomberg Professional, equals 192-trading day average (i.e. lag period)
[9] Equals [7] - [8]

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| Bond Yield Plus Risk Premium - Settled Only |  |  |  |
| :---: | :---: | :---: | :---: |
| [6] | [7] | [8] | [9] |
| Date of |  | 30-Year |  |
| Electric Rate | Return on | Treasury | Risk |
| Case | Equity | Yield | Premium |
| 6/2/1980 | 15.63\% | 10.65\% | 4.98\% |
| 6/12/1980 | 14.25\% | 10.68\% | 3.57\% |
| 7/15/1980 | 15.80\% | 10.76\% | 5.04\% |
| 8/14/1980 | 14.00\% | 10.81\% | 3.19\% |
| 8/14/1980 | 16.25\% | 10.81\% | 5.44\% |
| 9/15/1980 | 15.80\% | 10.92\% | 4.88\% |
| 10/16/1980 | 16.10\% | 11.06\% | 5.04\% |
| 12/9/1980 | 15.35\% | 11.16\% | 4.19\% |
| 12/18/1980 | 15.80\% | 11.18\% | 4.62\% |
| 9/3/1981 | 14.50\% | 13.09\% | 1.41\% |
| 10/15/1981 | 16.25\% | 13.43\% | 2.82\% |
| 11/25/1981 | 15.35\% | 13.64\% | 1.71\% |
| 2/17/1982 | 15.00\% | 13.89\% | 1.11\% |
| 4/2/1982 | 15.50\% | 13.96\% | 1.54\% |
| 6/23/1982 | 16.17\% | 13.82\% | 2.35\% |
| 7/13/1982 | 14.00\% | 13.77\% | 0.23\% |
| 7/19/1982 | 16.50\% | 13.75\% | 2.75\% |
| 9/3/1982 | 16.20\% | 13.56\% | 2.64\% |
| 9/23/1982 | 17.17\% | 13.47\% | 3.70\% |
| 10/22/1982 | 17.15\% | 13.19\% | 3.96\% |
| 11/4/1982 | 16.25\% | 13.06\% | 3.19\% |
| 12/22/1982 | 16.25\% | 12.50\% | 3.75\% |
| 1/12/1983 | 14.63\% | 12.26\% | 2.37\% |
| 3/30/1983 | 16.71\% | 11.49\% | 5.22\% |
| 5/23/1983 | 14.90\% | 10.91\% | 3.99\% |
| 8/19/1983 | 15.00\% | 10.81\% | 4.19\% |
| 9/7/1983 | 15.00\% | 10.88\% | 4.12\% |
| 9/14/1983 | 15.78\% | 10.91\% | 4.87\% |
| 11/1/1983 | 16.00\% | 11.08\% | 4.92\% |
| 11/10/1983 | 14.35\% | 11.11\% | 3.24\% |
| 11/23/1983 | 16.00\% | 11.13\% | 4.87\% |
| 12/20/1983 | 14.69\% | 11.25\% | 3.44\% |
| 1/30/1984 | 16.10\% | 11.41\% | 4.69\% |
| 2/15/1984 | 15.70\% | 11.49\% | 4.21\% |
| 4/2/1984 | 15.50\% | 11.76\% | 3.74\% |
| 6/22/1984 | 16.25\% | 12.23\% | 4.02\% |
| 7/19/1984 | 14.30\% | 12.41\% | 1.89\% |
| 9/26/1984 | 14.50\% | 12.60\% | 1.90\% |
| 9/28/1984 | 15.00\% | 12.60\% | 2.40\% |
| 11/9/1984 | 16.00\% | 12.62\% | 3.38\% |
| 11/14/1984 | 15.75\% | 12.62\% | 3.13\% |
| 12/3/1984 | 15.80\% | 12.59\% | 3.21\% |
| 12/20/1984 | 16.00\% | 12.54\% | 3.46\% |
| 3/15/1985 | 15.62\% | 12.20\% | 3.42\% |
| 5/10/1985 | 16.50\% | 11.81\% | 4.69\% |
| 5/29/1985 | 14.61\% | 11.69\% | 2.92\% |
| 5/31/1985 | 16.00\% | 11.67\% | 4.33\% |
| 6/14/1985 | 15.50\% | 11.57\% | 3.93\% |
| 9/9/1985 | 14.90\% | 11.09\% | 3.81\% |
| 10/28/1985 | 16.00\% | 10.92\% | 5.08\% |
| 10/31/1985 | 15.06\% | 10.90\% | 4.16\% |
| 11/7/1985 | 15.50\% | 10.87\% | 4.63\% |
| 2/5/1986 | 15.75\% | 10.27\% | 5.48\% |
| 3/5/1986 | 14.90\% | 10.04\% | 4.86\% |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $5 / 16 / 1986$ | $14.50 \%$ | $9.26 \%$ | $5.24 \%$ |
| $9 / 16 / 1986$ | $12.75 \%$ | $7.98 \%$ | $4.77 \%$ |
| $12 / 16 / 1986$ | $13.60 \%$ | $7.50 \%$ | $6.10 \%$ |
| $3 / 31 / 1987$ | $13.00 \%$ | $7.46 \%$ | $5.54 \%$ |
| $4 / 6 / 1987$ | $13.00 \%$ | $7.47 \%$ | $5.53 \%$ |
| $8 / 27 / 1987$ | $13.25 \%$ | $8.09 \%$ | $5.16 \%$ |
| $9 / 30 / 1987$ | $12.75 \%$ | $8.35 \%$ | $4.40 \%$ |
| $10 / 15 / 1987$ | $13.00 \%$ | $8.48 \%$ | $4.52 \%$ |
| $12 / 17 / 1987$ | $11.75 \%$ | $8.85 \%$ | $2.90 \%$ |
| $12 / 18 / 1987$ | $13.50 \%$ | $8.86 \%$ | $4.64 \%$ |
| $12 / 22 / 1987$ | $13.00 \%$ | $8.87 \%$ | $4.13 \%$ |
| $1 / 26 / 1988$ | $13.90 \%$ | $8.98 \%$ | $4.92 \%$ |
| $3 / 30 / 1988$ | $12.72 \%$ | $8.94 \%$ | $3.78 \%$ |
| $5 / 16 / 1988$ | $13.00 \%$ | $9.00 \%$ | $4.00 \%$ |
| $8 / 23 / 1988$ | $11.70 \%$ | $8.93 \%$ | $2.77 \%$ |
| $8 / 30 / 1988$ | $13.50 \%$ | $8.94 \%$ | $4.56 \%$ |
| $9 / 8 / 1988$ | $12.60 \%$ | $8.94 \%$ | $3.66 \%$ |
| $12 / 27 / 1988$ | $13.00 \%$ | $9.05 \%$ | $3.95 \%$ |
| $12 / 30 / 1988$ | $13.40 \%$ | $9.05 \%$ | $4.35 \%$ |
| $2 / 17 / 1989$ | $13.00 \%$ | $9.05 \%$ | $3.95 \%$ |
| $3 / 8 / 1989$ | $13.00 \%$ | $9.04 \%$ | $3.96 \%$ |
| $4 / 5 / 1989$ | $14.20 \%$ | $9.05 \%$ | $5.15 \%$ |
| $12 / 27 / 1989$ | $13.00 \%$ | $8.25 \%$ | $4.75 \%$ |
| $1 / 26 / 1990$ | $12.00 \%$ | $8.16 \%$ | $3.84 \%$ |
| $5 / 29 / 1990$ | $12.40 \%$ | $8.30 \%$ | $4.10 \%$ |
| $6 / 4 / 1990$ | $12.90 \%$ | $8.31 \%$ | $4.59 \%$ |
| $9 / 26 / 1990$ | $11.45 \%$ | $8.62 \%$ | $2.83 \%$ |
| $10 / 19 / 1990$ | $13.00 \%$ | $8.68 \%$ | $4.32 \%$ |
| $11 / 21 / 1990$ | $12.70 \%$ | $8.70 \%$ | $4.00 \%$ |
| $12 / 19 / 1990$ | $12.00 \%$ | $8.67 \%$ | $3.33 \%$ |
| $12 / 20 / 1990$ | $12.75 \%$ | $8.67 \%$ | $4.08 \%$ |
| $12 / 27 / 1990$ | $12.79 \%$ | $8.66 \%$ | $4.13 \%$ |
| $2 / 4 / 1991$ | $12.50 \%$ | $8.59 \%$ | $3.91 \%$ |
| $2 / 12 / 1991$ | $13.00 \%$ | $8.57 \%$ | $4.43 \%$ |
| $2 / 22 / 1991$ | $12.80 \%$ | $8.54 \%$ | $4.26 \%$ |
| $6 / 28 / 1991$ | $12.50 \%$ | $8.35 \%$ | $4.15 \%$ |
| $7 / 3 / 1991$ | $12.50 \%$ | $8.34 \%$ | $4.16 \%$ |
| $9 / 27 / 1991$ | $12.50 \%$ | $8.23 \%$ | $4.27 \%$ |
| $9 / 30 / 1991$ | $12.25 \%$ | $8.23 \%$ | $4.02 \%$ |
| $10 / 23 / 1991$ | $12.55 \%$ | $8.20 \%$ | $4.35 \%$ |
| $1 / 16 / 1992$ | $12.75 \%$ | $8.07 \%$ | $4.68 \%$ |
| $1 / 21 / 1992$ | $12.00 \%$ | $8.06 \%$ | $3.94 \%$ |
| $1 / 22 / 1992$ | $13.00 \%$ | $8.05 \%$ | $4.95 \%$ |
| $4 / 14 / 1992$ | $11.50 \%$ | $7.90 \%$ | $3.60 \%$ |
| $7 / 13 / 1992$ | $13.50 \%$ | $7.84 \%$ | $5.66 \%$ |
| $9 / 28 / 1992$ | $11.40 \%$ | $7.72 \%$ | $3.68 \%$ |
| $10 / 12 / 1992$ | $12.20 \%$ | $7.71 \%$ | $4.49 \%$ |
| $10 / 30 / 1992$ | $11.75 \%$ | $7.71 \%$ | $4.04 \%$ |
| $11 / 3 / 1992$ | $12.00 \%$ | $7.70 \%$ | $4.30 \%$ |
| $12 / 30 / 1992$ | $12.00 \%$ | $7.61 \%$ | $4.39 \%$ |
| $12 / 31 / 1992$ | $11.90 \%$ | $7.61 \%$ | $4.29 \%$ |
| $2 / 2 / 1993$ | $11.40 \%$ | $7.54 \%$ | $3.86 \%$ |
| $8 / 24 / 1993$ | $11.50 \%$ | $6.93 \%$ | $4.57 \%$ |
| $11 / 2 / 1993$ | $10.80 \%$ | $6.57 \%$ | $4.23 \%$ |
| $1 / 28 / 1994$ | 1094 | $11.07 \%$ | $6.42 \%$ |
| $1.25 \%$ | $6.32 \%$ | $4.65 \%$ |  |
|  | $11.00 \%$ | $6.32 \%$ | $4.63 \%$ |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $2 / 17 / 1995$ | $11.90 \%$ | $7.72 \%$ | $4.18 \%$ |
| $3 / 9 / 1995$ | $11.50 \%$ | $7.73 \%$ | $3.77 \%$ |
| $3 / 23 / 1995$ | $12.81 \%$ | $7.73 \%$ | $5.08 \%$ |
| $4 / 6 / 1995$ | $11.10 \%$ | $7.72 \%$ | $3.38 \%$ |
| $6 / 9 / 1995$ | $11.25 \%$ | $7.60 \%$ | $3.65 \%$ |
| $9 / 27 / 1995$ | $11.75 \%$ | $7.09 \%$ | $4.66 \%$ |
| $11 / 9 / 1995$ | $12.36 \%$ | $6.86 \%$ | $5.50 \%$ |
| $11 / 9 / 1995$ | $11.38 \%$ | $6.86 \%$ | $4.52 \%$ |
| $11 / 17 / 1995$ | $11.00 \%$ | $6.82 \%$ | $4.18 \%$ |
| $12 / 4 / 1995$ | $11.35 \%$ | $6.75 \%$ | $4.60 \%$ |
| $3 / 29 / 1996$ | $10.67 \%$ | $6.41 \%$ | $4.26 \%$ |
| $4 / 24 / 1996$ | $11.25 \%$ | $6.41 \%$ | $4.84 \%$ |
| $4 / 30 / 1996$ | $11.00 \%$ | $6.41 \%$ | $4.59 \%$ |
| $5 / 13 / 1996$ | $11.00 \%$ | $6.41 \%$ | $4.59 \%$ |
| $5 / 23 / 1996$ | $11.25 \%$ | $6.42 \%$ | $4.83 \%$ |
| $6 / 25 / 1996$ | $11.25 \%$ | $6.47 \%$ | $4.78 \%$ |
| $6 / 27 / 1996$ | $11.20 \%$ | $6.48 \%$ | $4.72 \%$ |
| $8 / 12 / 1996$ | $10.40 \%$ | $6.59 \%$ | $3.81 \%$ |
| $10 / 16 / 1996$ | $12.25 \%$ | $6.79 \%$ | $5.46 \%$ |
| $11 / 5 / 1996$ | $11.00 \%$ | $6.84 \%$ | $4.16 \%$ |
| $12 / 18 / 1996$ | $11.75 \%$ | $6.84 \%$ | $4.91 \%$ |
| $12 / 12 / 1997$ | $11.00 \%$ | $6.59 \%$ | $4.41 \%$ |
| $3 / 6 / 1998$ | $10.75 \%$ | $6.24 \%$ | $4.51 \%$ |
| $3 / 20 / 1998$ | $10.50 \%$ | $6.20 \%$ | $4.30 \%$ |
| $11 / 30 / 1998$ | $12.60 \%$ | $5.56 \%$ | $7.04 \%$ |
| $9 / 23 / 1999$ | $10.75 \%$ | $5.73 \%$ | $5.02 \%$ |
| $11 / 17 / 1999$ | $11.10 \%$ | $5.92 \%$ | $5.18 \%$ |
| $1 / 23 / 2001$ | $11.25 \%$ | $5.79 \%$ | $5.46 \%$ |
| $6 / 26 / 2001$ | $11.00 \%$ | $5.61 \%$ | $5.39 \%$ |
| $7 / 31 / 2001$ | $11.00 \%$ | $5.59 \%$ | $5.41 \%$ |
| $8 / 31 / 2001$ | $10.50 \%$ | $5.56 \%$ | $4.94 \%$ |
| $9 / 7 / 2001$ | $10.75 \%$ | $5.55 \%$ | $5.20 \%$ |
| $10 / 24 / 2001$ | $10.30 \%$ | $5.54 \%$ | $4.76 \%$ |
| $11 / 28 / 2001$ | $10.60 \%$ | $5.49 \%$ | $5.11 \%$ |
| $1 / 22 / 2002$ | $10.00 \%$ | $5.49 \%$ | $4.51 \%$ |
| $6 / 18 / 2002$ | $11.16 \%$ | $5.47 \%$ | $5.69 \%$ |
| $6 / 20 / 2002$ | $11.00 \%$ | $5.47 \%$ | $5.53 \%$ |
| $12 / 4 / 2002$ | $11.55 \%$ | $5.28 \%$ | $6.27 \%$ |
| $12 / 13 / 2002$ | $11.75 \%$ | $5.25 \%$ | $6.50 \%$ |
| $12 / 20 / 2002$ | $11.40 \%$ | $5.22 \%$ | $6.18 \%$ |
| $1 / 8 / 2003$ | $11.10 \%$ | $5.17 \%$ | $5.93 \%$ |
| $6 / 25 / 2003$ | $10.75 \%$ | $4.80 \%$ | $5.95 \%$ |
| $6 / 26 / 2003$ | $10.75 \%$ | $4.80 \%$ | $5.95 \%$ |
| $7 / 9 / 2003$ | $9.75 \%$ | $4.79 \%$ | $4.96 \%$ |
| $7 / 25 / 2003$ | $9.50 \%$ | $4.78 \%$ | $4.72 \%$ |
| $8 / 26 / 2003$ | $10.50 \%$ | $4.82 \%$ | $5.68 \%$ |
| $12 / 17 / 2003$ | $10.70 \%$ | $4.94 \%$ | $5.76 \%$ |
| $12 / 18 / 2003$ | $11.50 \%$ | $4.94 \%$ | $6.56 \%$ |
| $12 / 23 / 2003$ | $10.50 \%$ | $4.94 \%$ | $5.56 \%$ |
| $5 / 27 / 2004$ | $10.25 \%$ | $5.07 \%$ | $5.18 \%$ |
| $6 / 2 / 2004$ | $11.22 \%$ | $5.07 \%$ | $6.15 \%$ |
| $6 / 30 / 2004$ | $10.50 \%$ | $5.10 \%$ | $5.40 \%$ |
| $6 / 30 / 2004$ | $10.50 \%$ | $5.10 \%$ | $5.40 \%$ |
| $8 / 25 / 2004$ | $10.25 \%$ | $5.10 \%$ | $5.15 \%$ |
| $11 / 9 / 2004$ | $10.50 \%$ | $5.07 \%$ | $5.43 \%$ |
| $12 / 14 / 2004$ | $10.97 \%$ | $5.08 \%$ | $5.89 \%$ |
| $12 / 21 / 2004$ | $11.25 \%$ | $5.09 \%$ | $6.16 \%$ |
| $1 / 6 / 2004$ | $9.85 \%$ | $5.08 \%$ | $4.77 \%$ |
|  | $10.70 \%$ | $5.08 \%$ | $5.62 \%$ |

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| $2 / 25 / 2005$ | $10.50 \%$ | $4.94 \%$ | $5.56 \%$ |
| ---: | :---: | :---: | :---: |
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| $4 / 7 / 2005$ | $10.25 \%$ | $4.85 \%$ | $5.40 \%$ |
| $5 / 18 / 2005$ | $10.25 \%$ | $4.77 \%$ | $5.48 \%$ |
| $5 / 25 / 2005$ | $10.75 \%$ | $4.75 \%$ | $6.00 \%$ |
| $5 / 26 / 2005$ | $9.75 \%$ | $4.75 \%$ | $5.00 \%$ |
| $6 / 1 / 2005$ | $9.75 \%$ | $4.74 \%$ | $5.01 \%$ |
| $8 / 15 / 2005$ | $10.13 \%$ | $4.60 \%$ | $5.53 \%$ |
| $9 / 28 / 2005$ | $10.00 \%$ | $4.53 \%$ | $5.47 \%$ |
| $10 / 4 / 2005$ | $10.75 \%$ | $4.52 \%$ | $6.23 \%$ |
| $12 / 21 / 2005$ | $10.29 \%$ | $4.53 \%$ | $5.76 \%$ |
| $12 / 21 / 2005$ | $10.40 \%$ | $4.53 \%$ | $5.87 \%$ |
| $3 / 3 / 2006$ | $10.39 \%$ | $4.54 \%$ | $5.85 \%$ |
| $6 / 27 / 2006$ | $10.75 \%$ | $4.81 \%$ | $5.94 \%$ |
| $7 / 6 / 2006$ | $10.20 \%$ | $4.84 \%$ | $5.36 \%$ |
| $7 / 24 / 2006$ | $9.60 \%$ | $4.86 \%$ | $4.74 \%$ |
| $7 / 26 / 2006$ | $10.50 \%$ | $4.87 \%$ | $5.63 \%$ |
| $9 / 14 / 2006$ | $10.00 \%$ | $4.92 \%$ | $5.08 \%$ |
| $10 / 6 / 2006$ | $9.67 \%$ | $4.93 \%$ | $4.74 \%$ |
| $12 / 1 / 2006$ | $10.50 \%$ | $4.97 \%$ | $5.53 \%$ |
| $12 / 1 / 2006$ | $10.25 \%$ | $4.97 \%$ | $5.28 \%$ |
| $12 / 7 / 2006$ | $10.75 \%$ | $4.97 \%$ | $5.78 \%$ |
| $12 / 22 / 2006$ | $10.25 \%$ | $4.96 \%$ | $5.29 \%$ |
| $1 / 5 / 2007$ | $10.00 \%$ | $4.95 \%$ | $5.05 \%$ |
| $3 / 21 / 2007$ | $11.35 \%$ | $4.85 \%$ | $6.50 \%$ |
| $3 / 22 / 2007$ | $9.75 \%$ | $4.85 \%$ | $4.90 \%$ |
| $5 / 25 / 2007$ | $9.67 \%$ | $4.80 \%$ | $4.87 \%$ |
| $6 / 22 / 2007$ | $10.50 \%$ | $4.83 \%$ | $5.67 \%$ |
| $7 / 12 / 2007$ | $9.67 \%$ | $4.86 \%$ | $4.81 \%$ |
| $8 / 15 / 2007$ | $10.40 \%$ | $4.89 \%$ | $5.51 \%$ |
| $11 / 29 / 2007$ | $10.90 \%$ | $4.88 \%$ | $6.02 \%$ |
| $12 / 14 / 2007$ | $10.70 \%$ | $4.86 \%$ | $5.84 \%$ |
| $12 / 19 / 2007$ | $10.20 \%$ | $4.86 \%$ | $5.34 \%$ |
| $12 / 20 / 2007$ | $10.20 \%$ | $4.86 \%$ | $5.34 \%$ |
| $12 / 20 / 2007$ | $11.00 \%$ | $4.86 \%$ | $6.14 \%$ |
| $12 / 28 / 2007$ | $10.25 \%$ | $4.85 \%$ | $5.40 \%$ |
| $12 / 31 / 2007$ | $11.25 \%$ | $4.85 \%$ | $6.40 \%$ |
| $1 / 31 / 2008$ | $10.71 \%$ | $4.79 \%$ | $5.92 \%$ |
| $3 / 12 / 2008$ | $10.25 \%$ | $4.70 \%$ | $5.55 \%$ |
| $4 / 22 / 2008$ | $10.25 \%$ | $4.58 \%$ | $5.67 \%$ |
| $5 / 1 / 2008$ | $10.70 \%$ | $4.57 \%$ | $6.13 \%$ |
| $6 / 27 / 2008$ | $10.50 \%$ | $4.53 \%$ | $5.97 \%$ |
| $7 / 16 / 2008$ | $9.40 \%$ | $4.50 \%$ | $4.90 \%$ |
| $7 / 31 / 2008$ | $10.70 \%$ | $4.50 \%$ | $6.20 \%$ |
| $9 / 10 / 2008$ | $10.30 \%$ | $4.49 \%$ | $5.81 \%$ |
| $9 / 30 / 2008$ | $10.20 \%$ | $4.48 \%$ | $5.72 \%$ |
| $10 / 8 / 2008$ | $10.15 \%$ | $4.47 \%$ | $5.68 \%$ |
| $11 / 13 / 2008$ | $10.55 \%$ | $4.44 \%$ | $6.11 \%$ |
| $11 / 17 / 2008$ | $10.20 \%$ | $4.44 \%$ | $5.76 \%$ |
| $12 / 1 / 2008$ | $10.25 \%$ | $4.39 \%$ | $5.86 \%$ |
| $12 / 29 / 2008$ | $10.20 \%$ | $4.23 \%$ | $5.97 \%$ |
| $12 / 31 / 2008$ | $10.75 \%$ | $4.21 \%$ | $6.54 \%$ |
| $3 / 4 / 2009$ | $10.50 \%$ | $3.93 \%$ | $6.57 \%$ |
| $4 / 2 / 2009$ | $11.10 \%$ | $3.82 \%$ | $7.28 \%$ |
| $5 / 20 / 2009$ | $10.61 \%$ | $3.76 \%$ | $6.85 \%$ |
| $5 / 28 / 2009$ | $10.25 \%$ | $3.71 \%$ | $6.54 \%$ |
| $7 / 17 / 2009$ | $10.50 \%$ | $3.71 \%$ | $6.79 \%$ |
|  | $10.53 \%$ | $3.75 \%$ | $6.88 \%$ |
|  | $3.76 \%$ | $6.74 \%$ |  |

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| $10 / 14 / 2009$ | $10.70 \%$ | $4.06 \%$ | $6.64 \%$ |
| ---: | ---: | ---: | ---: |
| $11 / 3 / 2009$ | $10.70 \%$ | $4.12 \%$ | $6.58 \%$ |
| $11 / 24 / 2009$ | $10.25 \%$ | $4.18 \%$ | $6.07 \%$ |
| $11 / 25 / 2009$ | $10.75 \%$ | $4.18 \%$ | $6.57 \%$ |
| $12 / 3 / 2009$ | $10.50 \%$ | $4.20 \%$ | $6.30 \%$ |
| $12 / 7 / 2009$ | $10.70 \%$ | $4.21 \%$ | $6.49 \%$ |
| $12 / 16 / 2009$ | $11.00 \%$ | $4.24 \%$ | $6.76 \%$ |
| $12 / 16 / 2009$ | $10.90 \%$ | $4.24 \%$ | $6.66 \%$ |
| $1 / 26 / 2010$ | $10.13 \%$ | $4.37 \%$ | $5.76 \%$ |
| $1 / 27 / 2010$ | $10.40 \%$ | $4.37 \%$ | $6.03 \%$ |
| $1 / 27 / 2010$ | $10.40 \%$ | $4.37 \%$ | $6.03 \%$ |
| $1 / 27 / 2010$ | $10.70 \%$ | $4.37 \%$ | $6.33 \%$ |
| $2 / 24 / 2010$ | $10.18 \%$ | $4.41 \%$ | $5.77 \%$ |
| $3 / 4 / 2010$ | $10.50 \%$ | $4.40 \%$ | $6.10 \%$ |
| $3 / 5 / 2010$ | $10.50 \%$ | $4.40 \%$ | $6.10 \%$ |
| $3 / 11 / 2010$ | $11.90 \%$ | $4.41 \%$ | $7.49 \%$ |
| $3 / 17 / 2010$ | $10.00 \%$ | $4.41 \%$ | $5.59 \%$ |
| $3 / 25 / 2010$ | $10.15 \%$ | $4.42 \%$ | $5.73 \%$ |
| $5 / 12 / 2010$ | $10.30 \%$ | $4.45 \%$ | $5.85 \%$ |
| $5 / 12 / 2010$ | $10.30 \%$ | $4.45 \%$ | $5.85 \%$ |
| $5 / 28 / 2010$ | $10.20 \%$ | $4.45 \%$ | $5.75 \%$ |
| $6 / 7 / 2010$ | $10.30 \%$ | $4.45 \%$ | $5.85 \%$ |
| $6 / 16 / 2010$ | $10.00 \%$ | $4.45 \%$ | $5.55 \%$ |
| $6 / 28 / 2010$ | $10.50 \%$ | $4.45 \%$ | $6.05 \%$ |
| $6 / 28 / 2010$ | $9.67 \%$ | $4.45 \%$ | $5.22 \%$ |
| $7 / 15 / 2010$ | $10.70 \%$ | $4.44 \%$ | $6.26 \%$ |
| $7 / 30 / 2010$ | $10.70 \%$ | $4.42 \%$ | $6.28 \%$ |
| $8 / 4 / 2010$ | $10.50 \%$ | $4.41 \%$ | $6.09 \%$ |
| $9 / 3 / 2010$ | $10.60 \%$ | $4.35 \%$ | $6.25 \%$ |
| $9 / 14 / 2010$ | $10.70 \%$ | $4.32 \%$ | $6.38 \%$ |
| $9 / 16 / 2010$ | $10.00 \%$ | $4.32 \%$ | $5.68 \%$ |
| $9 / 16 / 2010$ | $10.00 \%$ | $4.32 \%$ | $5.68 \%$ |
| $10 / 14 / 2010$ | $10.35 \%$ | $4.22 \%$ | $6.13 \%$ |
| $10 / 28 / 2010$ | $10.70 \%$ | $4.19 \%$ | $6.51 \%$ |
| $11 / 19 / 2010$ | $10.20 \%$ | $4.15 \%$ | $6.05 \%$ |
| $12 / 1 / 2010$ | $10.13 \%$ | $4.14 \%$ | $5.99 \%$ |
| $12 / 9 / 2010$ | $10.25 \%$ | $4.13 \%$ | $6.12 \%$ |
| $12 / 13 / 2010$ | $10.70 \%$ | $4.13 \%$ | $6.57 \%$ |
| $12 / 14 / 2010$ | $10.13 \%$ | $4.13 \%$ | $6.00 \%$ |
| $12 / 17 / 2010$ | $10.00 \%$ | $4.12 \%$ | $5.88 \%$ |
| $12 / 21 / 2010$ | $10.30 \%$ | $4.12 \%$ | $6.18 \%$ |
| $12 / 29 / 2010$ | $11.15 \%$ | $4.11 \%$ | $7.04 \%$ |
| $1 / 5 / 2011$ | $10.15 \%$ | $4.10 \%$ | $6.05 \%$ |
| $1 / 20 / 2011$ | $10.13 \%$ | $4.09 \%$ | $6.04 \%$ |
| $2 / 25 / 2011$ | $10.00 \%$ | $4.14 \%$ | $5.86 \%$ |
| $3 / 30 / 2011$ | $10.00 \%$ | $4.19 \%$ | $5.81 \%$ |
| $4 / 26 / 2011$ | $9.67 \%$ | $4.24 \%$ | $5.43 \%$ |
| $6 / 17 / 2011$ | $10.75 \%$ | $4.33 \%$ | $6.42 \%$ |
| $8 / 1 / 2011$ | $9.95 \%$ | $4.34 \%$ | $5.61 \%$ |
| $8 / 19 / 2011$ | $10.00 \%$ | $4.39 \%$ | $5.61 \%$ |
| $10 / 22 / 2011$ | $10.00 \%$ | $4.38 \%$ | $5.62 \%$ |
| $12 / 14 / 2011$ | $10.00 \%$ | $4.36 \%$ | $5.89 \%$ |
| $12 / 14 / 2011$ | $10.30 \%$ | $4.23 \%$ | $5.77 \%$ |
| $12 / 20 / 2011$ | $10.30 \%$ | $3.72 \%$ | $6.18 \%$ |
| $12 / 21 / 2011$ | $10.20 \%$ | $3.77 \%$ | $6.23 \%$ |
| $1 / 25 / 2012$ | $10.50 \%$ | $3.73 \%$ | $6.53 \%$ |
|  | $3.53 \%$ | $6.48 \%$ |  |

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| $1 / 27 / 2012$ | $10.50 \%$ | $3.52 \%$ | $6.98 \%$ |
| ---: | :---: | :---: | ---: |
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| $2 / 23 / 2012$ | $9.90 \%$ | $3.40 \%$ | $6.50 \%$ |
| $2 / 29 / 2012$ | $10.40 \%$ | $3.38 \%$ | $7.02 \%$ |
| $3 / 29 / 2012$ | $10.37 \%$ | $3.27 \%$ | $7.10 \%$ |
| $4 / 4 / 2012$ | $10.00 \%$ | $3.25 \%$ | $6.75 \%$ |
| $4 / 26 / 2012$ | $10.00 \%$ | $3.16 \%$ | $6.84 \%$ |
| $5 / 2 / 2012$ | $10.00 \%$ | $3.15 \%$ | $6.85 \%$ |
| $5 / 15 / 2012$ | $10.00 \%$ | $3.12 \%$ | $6.88 \%$ |
| $6 / 14 / 2012$ | $9.40 \%$ | $3.05 \%$ | $6.35 \%$ |
| $6 / 18 / 2012$ | $9.60 \%$ | $3.05 \%$ | $6.55 \%$ |
| $6 / 29 / 2012$ | $10.00 \%$ | $3.04 \%$ | $6.96 \%$ |
| $7 / 9 / 2012$ | $10.20 \%$ | $3.03 \%$ | $7.17 \%$ |
| $7 / 16 / 2012$ | $9.80 \%$ | $3.01 \%$ | $6.79 \%$ |
| $9 / 19 / 2012$ | $9.80 \%$ | $2.94 \%$ | $6.86 \%$ |
| $10 / 12 / 2012$ | $9.60 \%$ | $2.93 \%$ | $6.67 \%$ |
| $10 / 23 / 2012$ | $9.75 \%$ | $2.93 \%$ | $6.82 \%$ |
| $10 / 24 / 2012$ | $10.30 \%$ | $2.93 \%$ | $7.37 \%$ |
| $11 / 29 / 2012$ | $9.88 \%$ | $2.89 \%$ | $6.99 \%$ |
| $11 / 29 / 2012$ | $9.75 \%$ | $2.89 \%$ | $6.86 \%$ |
| $12 / 13 / 2012$ | $10.50 \%$ | $2.86 \%$ | $7.64 \%$ |
| $12 / 19 / 2012$ | $10.25 \%$ | $2.85 \%$ | $7.40 \%$ |
| $12 / 20 / 2012$ | $10.25 \%$ | $2.85 \%$ | $7.40 \%$ |
| $12 / 20 / 2012$ | $10.25 \%$ | $2.85 \%$ | $7.40 \%$ |
| $12 / 20 / 2012$ | $9.80 \%$ | $2.85 \%$ | $6.95 \%$ |
| $12 / 20 / 2012$ | $9.50 \%$ | $2.85 \%$ | $6.65 \%$ |
| $12 / 26 / 2012$ | $9.80 \%$ | $2.84 \%$ | $6.96 \%$ |
| $1 / 9 / 2013$ | $9.70 \%$ | $2.83 \%$ | $6.87 \%$ |
| $1 / 9 / 2013$ | $9.70 \%$ | $2.83 \%$ | $6.87 \%$ |
| $1 / 9 / 2013$ | $9.70 \%$ | $2.83 \%$ | $6.87 \%$ |
| $1 / 16 / 2013$ | $9.60 \%$ | $2.83 \%$ | $6.77 \%$ |
| $1 / 16 / 2013$ | $9.60 \%$ | $2.83 \%$ | $6.77 \%$ |
| $2 / 27 / 2013$ | $10.00 \%$ | $2.86 \%$ | $7.14 \%$ |
| $3 / 14 / 2013$ | $9.30 \%$ | $2.89 \%$ | $6.41 \%$ |
| $3 / 27 / 2013$ | $9.80 \%$ | $2.91 \%$ | $6.89 \%$ |
| $5 / 1 / 2013$ | $9.84 \%$ | $2.96 \%$ | $6.88 \%$ |
| $5 / 15 / 2013$ | $10.30 \%$ | $2.97 \%$ | $7.33 \%$ |
| $5 / 30 / 2013$ | $10.20 \%$ | $2.99 \%$ | $7.21 \%$ |
| $5 / 31 / 2013$ | $9.00 \%$ | $2.99 \%$ | $6.01 \%$ |
| $6 / 11 / 2013$ | $10.00 \%$ | $3.01 \%$ | $6.99 \%$ |
| $6 / 21 / 2013$ | $9.75 \%$ | $3.03 \%$ | $6.72 \%$ |
| $6 / 25 / 2013$ | $9.80 \%$ | $3.04 \%$ | $6.76 \%$ |
| $9 / 11 / 2013$ | $10.25 \%$ | $3.28 \%$ | $6.97 \%$ |
| $9 / 11 / 2013$ | $10.20 \%$ | $3.28 \%$ | $6.92 \%$ |
| $9 / 24 / 2013$ | $10.20 \%$ | $3.32 \%$ | $6.88 \%$ |
| $11 / 21 / 2013$ | $10.00 \%$ | $3.46 \%$ | $6.54 \%$ |
| $12 / 3 / 2013$ | $10.25 \%$ | $3.48 \%$ | $6.77 \%$ |
| $12 / 9 / 2013$ | $9.75 \%$ | $3.50 \%$ | $6.25 \%$ |
| $12 / 16 / 2013$ | $9.95 \%$ | $3.52 \%$ | $6.43 \%$ |
| $12 / 16 / 2013$ | $9.95 \%$ | $3.52 \%$ | $6.43 \%$ |
| $12 / 17 / 2013$ | $9.50 \%$ | $3.52 \%$ | $5.98 \%$ |
| $12 / 17 / 2013$ | $10.95 \%$ | $3.52 \%$ | $7.43 \%$ |
| $12 / 18 / 2013$ | $9.80 \%$ | $3.52 \%$ | $6.28 \%$ |
| $12 / 19 / 2013$ | $10.15 \%$ | $3.53 \%$ | $6.62 \%$ |
| $2 / 20 / 2014$ | $9.20 \%$ | $3.71 \%$ | $5.49 \%$ |
| $2 / 26 / 2014$ | $9.75 \%$ | $3.71 \%$ | $6.04 \%$ |
| $3 / 17 / 2014$ | $9.55 \%$ | $3.73 \%$ | $5.82 \%$ |
| $5 / 16 / 2014$ | $9.80 \%$ | $3.70 \%$ | $6.10 \%$ |
| $6 / 30 / 2014$ | $9.55 \%$ | $3.64 \%$ | $5.91 \%$ |
|  |  |  |  |

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| $7 / 10 / 2014$ | $9.95 \%$ | $3.63 \%$ | $6.32 \%$ |
| ---: | :---: | :---: | :---: |
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| $7 / 29 / 2014$ | $9.45 \%$ | $3.60 \%$ | $5.85 \%$ |
| $7 / 31 / 2014$ | $9.90 \%$ | $3.60 \%$ | $6.30 \%$ |
| $8 / 20 / 2014$ | $9.75 \%$ | $3.55 \%$ | $6.20 \%$ |
| $8 / 25 / 2014$ | $9.60 \%$ | $3.54 \%$ | $6.06 \%$ |
| $8 / 29 / 2014$ | $9.80 \%$ | $3.53 \%$ | $6.27 \%$ |
| $9 / 11 / 2014$ | $9.60 \%$ | $3.50 \%$ | $6.10 \%$ |
| $9 / 15 / 2014$ | $10.25 \%$ | $3.49 \%$ | $6.76 \%$ |
| $10 / 9 / 2014$ | $9.80 \%$ | $3.43 \%$ | $6.37 \%$ |
| $12 / 4 / 2014$ | $9.68 \%$ | $3.29 \%$ | $6.39 \%$ |
| $12 / 11 / 2014$ | $10.07 \%$ | $3.27 \%$ | $6.80 \%$ |
| $2 / 24 / 2015$ | $9.83 \%$ | $3.02 \%$ | $6.81 \%$ |
| $4 / 23 / 2015$ | $10.20 \%$ | $2.85 \%$ | $7.35 \%$ |
| $5 / 1 / 2015$ | $9.60 \%$ | $2.83 \%$ | $6.77 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.80 \%$ | $6.20 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.80 \%$ | $6.20 \%$ |
| $10 / 15 / 2015$ | $9.00 \%$ | $2.83 \%$ | $6.17 \%$ |
| $12 / 15 / 2015$ | $9.60 \%$ | $2.92 \%$ | $6.68 \%$ |
| $12 / 18 / 2015$ | $9.50 \%$ | $2.93 \%$ | $6.57 \%$ |
| $1 / 6 / 2016$ | $9.50 \%$ | $2.96 \%$ | $6.54 \%$ |
| $2 / 23 / 2016$ | $9.75 \%$ | $2.94 \%$ | $6.81 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.78 \%$ | $6.22 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.78 \%$ | $6.22 \%$ |
|  |  |  |  |
|  |  | \# of Cases: | 373 |
|  |  | Average: | $5.38 \%$ |

## Bond Yield Plus Risk Premium - Fully Litigated Only

|  | [1] Constant | [2] Slope | [3] 30-Year Treasury Yield | [4] <br> Risk Premium | [5] <br> Return on Equity |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | -2.98\% | -2.89\% |  |  |  |
| Current 30-Year Treasury |  |  | 2.50\% | 7.67\% | 10.18\% |
| Blue Chip Financial Forecast 2017Q3 Projection Blue Chip Financial Forecast 2020 Projection |  |  | 3.40\% | 6.79\% | 10.19\% |
|  |  |  | 4.40\% | 6.04\% | 10.44\% |



Notes:
[1] Constant of regression equation
[2] Slope of regression equation
[3] Source: Current = Bloomberg Professional,
[3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2.
[3] Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
[4] Equals [1] $+\ln ([3]) \times[2]$
[5] Equals [3] + [4]
[6] Source: SNL Financial
[7] Source: SNL Financial
[8] Source: Bloomberg Professional, equals 204-trading day average (i.e. lag period)
[9] Equals [7] - [8]

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| Bond Yield Plus Risk Premium - Fully Litigated Only |  |  |  |
| :---: | :---: | :---: | :---: |
| [6] | [7] | [8] | [9] |
| Date of |  | 30-Year |  |
| Electric Rate | Return on | Treasury | Risk |
| Case | Equity | Yield | Premium |
| 1/1/1980 | 14.50\% | 9.35\% | 5.15\% |
| 1/7/1980 | 14.39\% | 9.38\% | 5.01\% |
| 1/9/1980 | 15.00\% | 9.39\% | 5.61\% |
| 1/14/1980 | 15.17\% | 9.41\% | 5.76\% |
| 1/17/1980 | 13.93\% | 9.43\% | 4.50\% |
| 1/23/1980 | 15.50\% | 9.46\% | 6.04\% |
| 1/30/1980 | 13.86\% | 9.51\% | 4.35\% |
| 1/31/1980 | 12.61\% | 9.52\% | 3.09\% |
| 2/6/1980 | 13.71\% | 9.57\% | 4.14\% |
| 2/13/1980 | 12.80\% | 9.62\% | 3.18\% |
| 2/14/1980 | 13.00\% | 9.64\% | 3.36\% |
| 2/19/1980 | 13.50\% | 9.67\% | 3.83\% |
| 2/27/1980 | 13.75\% | 9.77\% | 3.98\% |
| 2/29/1980 | 13.75\% | 9.80\% | 3.95\% |
| 2/29/1980 | 14.00\% | 9.80\% | 4.20\% |
| 2/29/1980 | 14.77\% | 9.80\% | 4.97\% |
| 3/7/1980 | 12.70\% | 9.88\% | 2.82\% |
| 3/14/1980 | 13.50\% | 9.95\% | 3.55\% |
| 3/26/1980 | 14.16\% | 10.08\% | 4.08\% |
| 3/27/1980 | 14.24\% | 10.10\% | 4.14\% |
| 3/28/1980 | 14.50\% | 10.11\% | 4.39\% |
| 4/11/1980 | 12.75\% | 10.25\% | 2.50\% |
| 4/14/1980 | 13.85\% | 10.26\% | 3.59\% |
| 4/16/1980 | 15.50\% | 10.28\% | 5.22\% |
| 4/22/1980 | 13.90\% | 10.32\% | 3.58\% |
| 4/22/1980 | 13.25\% | 10.32\% | 2.93\% |
| 4/24/1980 | 16.80\% | 10.34\% | 6.46\% |
| 4/29/1980 | 15.50\% | 10.38\% | 5.12\% |
| 5/6/1980 | 13.70\% | 10.42\% | 3.28\% |
| 5/7/1980 | 15.00\% | 10.42\% | 4.58\% |
| 5/8/1980 | 13.75\% | 10.43\% | 3.32\% |
| 5/9/1980 | 14.35\% | 10.44\% | 3.91\% |
| 5/13/1980 | 13.60\% | 10.45\% | 3.15\% |
| 5/15/1980 | 13.25\% | 10.46\% | 2.79\% |
| 5/19/1980 | 13.75\% | 10.48\% | 3.27\% |
| 5/27/1980 | 14.60\% | 10.51\% | 4.09\% |
| 5/27/1980 | 13.62\% | 10.51\% | 3.11\% |
| 5/29/1980 | 16.00\% | 10.52\% | 5.48\% |
| 5/30/1980 | 13.80\% | 10.53\% | 3.27\% |
| 6/9/1980 | 15.90\% | 10.57\% | 5.33\% |
| 6/10/1980 | 13.78\% | 10.57\% | 3.21\% |
| 6/19/1980 | 13.40\% | 10.59\% | 2.81\% |
| 6/30/1980 | 13.00\% | 10.62\% | 2.38\% |
| 6/30/1980 | 13.40\% | 10.62\% | 2.78\% |
| 7/9/1980 | 14.75\% | 10.64\% | 4.11\% |
| 7/10/1980 | 15.00\% | 10.65\% | 4.35\% |
| 7/18/1980 | 13.80\% | 10.68\% | 3.12\% |
| 7/22/1980 | 14.10\% | 10.69\% | 3.41\% |
| 7/24/1980 | 15.00\% | 10.70\% | 4.30\% |
| 7/25/1980 | 13.48\% | 10.70\% | 2.78\% |
| 7/31/1980 | 14.58\% | 10.73\% | 3.85\% |
| 8/8/1980 | 14.00\% | 10.76\% | 3.24\% |
| 8/8/1980 | 13.50\% | 10.76\% | 2.74\% |
| 8/8/1980 | 15.45\% | 10.76\% | 4.69\% |
| 8/11/1980 | 14.85\% | 10.77\% | 4.08\% |
| 8/25/1980 | 13.75\% | 10.81\% | 2.94\% |
| 8/27/1980 | 13.80\% | 10.82\% | 2.98\% |
| 8/29/1980 | 12.50\% | 10.83\% | 1.67\% |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $9 / 15 / 1980$ | $13.93 \%$ | $10.86 \%$ | $3.07 \%$ |
| $9 / 15 / 1980$ | $13.50 \%$ | $10.86 \%$ | $2.64 \%$ |
| $9 / 24 / 1980$ | $12.50 \%$ | $10.91 \%$ | $1.59 \%$ |
| $9 / 24 / 1980$ | $15.00 \%$ | $10.91 \%$ | $4.09 \%$ |
| $9 / 26 / 1980$ | $13.75 \%$ | $10.93 \%$ | $2.82 \%$ |
| $9 / 30 / 1980$ | $14.20 \%$ | $10.94 \%$ | $3.26 \%$ |
| $9 / 30 / 1980$ | $14.10 \%$ | $10.94 \%$ | $3.16 \%$ |
| $10 / 1 / 1980$ | $13.90 \%$ | $10.95 \%$ | $2.95 \%$ |
| $10 / 3 / 1980$ | $15.50 \%$ | $10.96 \%$ | $4.54 \%$ |
| $10 / 7 / 1980$ | $12.50 \%$ | $10.98 \%$ | $1.52 \%$ |
| $10 / 9 / 1980$ | $14.50 \%$ | $10.99 \%$ | $3.51 \%$ |
| $10 / 9 / 1980$ | $14.50 \%$ | $10.99 \%$ | $3.51 \%$ |
| $10 / 9 / 1980$ | $13.25 \%$ | $10.99 \%$ | $2.26 \%$ |
| $10 / 17 / 1980$ | $14.50 \%$ | $11.01 \%$ | $3.49 \%$ |
| $10 / 31 / 1980$ | $14.25 \%$ | $11.09 \%$ | $3.16 \%$ |
| $10 / 31 / 1980$ | $13.75 \%$ | $11.09 \%$ | $2.66 \%$ |
| $11 / 4 / 1980$ | $15.00 \%$ | $11.10 \%$ | $3.90 \%$ |
| $11 / 5 / 1980$ | $14.00 \%$ | $11.11 \%$ | $2.89 \%$ |
| $11 / 5 / 1980$ | $13.75 \%$ | $11.11 \%$ | $2.64 \%$ |
| $11 / 8 / 1980$ | $13.75 \%$ | $11.13 \%$ | $2.62 \%$ |
| $11 / 10 / 1980$ | $14.85 \%$ | $11.14 \%$ | $3.71 \%$ |
| $11 / 17 / 1980$ | $14.00 \%$ | $11.18 \%$ | $2.82 \%$ |
| $11 / 18 / 1980$ | $14.00 \%$ | $11.18 \%$ | $2.82 \%$ |
| $11 / 19 / 1980$ | $13.00 \%$ | $11.19 \%$ | $1.81 \%$ |
| $11 / 24 / 1980$ | $14.00 \%$ | $11.21 \%$ | $2.79 \%$ |
| $11 / 26 / 1980$ | $14.00 \%$ | $11.22 \%$ | $2.78 \%$ |
| $12 / 8 / 1980$ | $15.10 \%$ | $11.24 \%$ | $3.86 \%$ |
| $12 / 8 / 1980$ | $14.15 \%$ | $11.24 \%$ | $2.91 \%$ |
| $12 / 12 / 1980$ | $15.45 \%$ | $11.26 \%$ | $4.19 \%$ |
| $12 / 17 / 1980$ | $13.25 \%$ | $11.26 \%$ | $1.99 \%$ |
| $12 / 19 / 1980$ | $14.50 \%$ | $11.25 \%$ | $3.25 \%$ |
| $12 / 19 / 1980$ | $14.64 \%$ | $11.25 \%$ | $3.39 \%$ |
| $12 / 22 / 1980$ | $13.45 \%$ | $11.25 \%$ | $2.20 \%$ |
| $12 / 22 / 1980$ | $15.00 \%$ | $11.25 \%$ | $3.75 \%$ |
| $12 / 30 / 1980$ | $14.50 \%$ | $11.24 \%$ | $3.26 \%$ |
| $12 / 30 / 1980$ | $14.95 \%$ | $11.24 \%$ | $3.71 \%$ |
| $12 / 31 / 1980$ | $13.39 \%$ | $11.24 \%$ | $2.15 \%$ |
| $1 / 2 / 1981$ | $15.25 \%$ | $11.24 \%$ | $4.01 \%$ |
| $1 / 7 / 1981$ | $14.30 \%$ | $11.23 \%$ | $3.07 \%$ |
| $1 / 19 / 1981$ | $15.25 \%$ | $11.22 \%$ | $4.03 \%$ |
| $1 / 23 / 1981$ | $14.40 \%$ | $11.22 \%$ | $3.18 \%$ |
| $1 / 23 / 1981$ | $13.10 \%$ | $11.22 \%$ | $1.88 \%$ |
| $1 / 26 / 1981$ | $15.25 \%$ | $11.22 \%$ | $4.03 \%$ |
| $1 / 27 / 1981$ | $15.00 \%$ | $11.22 \%$ | $3.78 \%$ |
| $1 / 31 / 1981$ | $13.47 \%$ | $11.22 \%$ | $2.25 \%$ |
| $2 / 3 / 1981$ | $15.25 \%$ | $11.23 \%$ | $4.02 \%$ |
| $2 / 5 / 1981$ | $15.75 \%$ | $11.24 \%$ | $4.51 \%$ |
| $2 / 11 / 1981$ | $15.60 \%$ | $11.28 \%$ | $4.32 \%$ |
| $2 / 20 / 1981$ | $15.25 \%$ | $11.32 \%$ | $3.93 \%$ |
| $3 / 11 / 1981$ | $15.40 \%$ | $11.47 \%$ | $3.93 \%$ |
| $3 / 12 / 1981$ | $14.51 \%$ | $11.49 \%$ | $3.02 \%$ |
| $3 / 12 / 1981$ | $16.00 \%$ | $11.49 \%$ | $4.51 \%$ |
| $3 / 13 / 1981$ | $13.02 \%$ | $11.49 \%$ | $1.53 \%$ |
| $3 / 18 / 1981$ | $11.19 \%$ | $11.52 \%$ | $4.67 \%$ |
| $3 / 19 / 1981$ | $13.75 \%$ | $11.53 \%$ | $2.22 \%$ |
| $3 / 23 / 1981$ | $14.30 \%$ | $11.55 \%$ | $2.75 \%$ |
| $3 / 25 / 1981$ | $15.30 \%$ | $11.58 \%$ | $3.72 \%$ |
| $4 / 1 / 1981$ | $14.53 \%$ | $11.64 \%$ | $2.89 \%$ |
| $4 / 3 / 1981$ | $19.10 \%$ | $11.67 \%$ | $7.43 \%$ |
| $4 / 9 / 1981$ | $15.00 \%$ | $11.74 \%$ | $3.26 \%$ |
| $4 / 9 / 1981$ | $15.30 \%$ | $11.74 \%$ | $3.56 \%$ |
| $4 / 9 / 1981$ | $17.00 \%$ | $11.74 \%$ | $5.26 \%$ |
| $4 / 9 / 1981$ | $16.50 \%$ | $11.74 \%$ | $4.76 \%$ |
|  |  |  |  |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $4 / 10 / 1981$ | $13.75 \%$ | $11.76 \%$ | $1.99 \%$ |
| $4 / 13 / 1981$ | $13.57 \%$ | $11.77 \%$ | $1.80 \%$ |
| $4 / 15 / 1981$ | $15.30 \%$ | $11.81 \%$ | $3.49 \%$ |
| $4 / 16 / 1981$ | $13.50 \%$ | $11.83 \%$ | $1.67 \%$ |
| $4 / 17 / 1981$ | $14.10 \%$ | $11.83 \%$ | $2.27 \%$ |
| $4 / 21 / 1981$ | $16.80 \%$ | $11.86 \%$ | $4.94 \%$ |
| $4 / 21 / 1981$ | $14.00 \%$ | $11.86 \%$ | $2.14 \%$ |
| $4 / 24 / 1981$ | $16.00 \%$ | $11.91 \%$ | $4.09 \%$ |
| $4 / 27 / 1981$ | $13.61 \%$ | $11.93 \%$ | $1.68 \%$ |
| $4 / 27 / 1981$ | $12.50 \%$ | $11.93 \%$ | $0.57 \%$ |
| $4 / 29 / 1981$ | $13.65 \%$ | $11.96 \%$ | $1.69 \%$ |
| $4 / 30 / 1981$ | $13.50 \%$ | $11.98 \%$ | $1.52 \%$ |
| $5 / 4 / 1981$ | $16.22 \%$ | $12.02 \%$ | $4.20 \%$ |
| $5 / 5 / 1981$ | $14.40 \%$ | $12.04 \%$ | $2.36 \%$ |
| $5 / 7 / 1981$ | $16.25 \%$ | $12.07 \%$ | $4.18 \%$ |
| $5 / 7 / 1981$ | $16.27 \%$ | $12.07 \%$ | $4.20 \%$ |
| $5 / 8 / 1981$ | $13.00 \%$ | $12.09 \%$ | $0.91 \%$ |
| $5 / 8 / 1981$ | $16.00 \%$ | $12.09 \%$ | $3.91 \%$ |
| $5 / 12 / 1981$ | $13.50 \%$ | $12.12 \%$ | $1.38 \%$ |
| $5 / 15 / 1981$ | $15.75 \%$ | $12.18 \%$ | $3.57 \%$ |
| $5 / 18 / 1981$ | $14.88 \%$ | $12.19 \%$ | $2.69 \%$ |
| $5 / 20 / 1981$ | $16.00 \%$ | $12.22 \%$ | $3.78 \%$ |
| $5 / 21 / 1981$ | $14.00 \%$ | $12.24 \%$ | $1.76 \%$ |
| $5 / 26 / 1981$ | $14.90 \%$ | $12.27 \%$ | $2.63 \%$ |
| $5 / 27 / 1981$ | $15.00 \%$ | $12.28 \%$ | $2.72 \%$ |
| $5 / 29 / 1981$ | $15.50 \%$ | $12.30 \%$ | $3.20 \%$ |
| $6 / 1 / 1981$ | $16.50 \%$ | $12.32 \%$ | $4.18 \%$ |
| $6 / 3 / 1981$ | $14.67 \%$ | $12.34 \%$ | $2.33 \%$ |
| $6 / 5 / 1981$ | $13.00 \%$ | $12.36 \%$ | $0.64 \%$ |
| $6 / 10 / 1981$ | $16.75 \%$ | $12.39 \%$ | $4.36 \%$ |
| $6 / 17 / 1981$ | $14.40 \%$ | $12.43 \%$ | $1.97 \%$ |
| $6 / 18 / 1981$ | $16.33 \%$ | $12.44 \%$ | $3.89 \%$ |
| $6 / 25 / 1981$ | $14.75 \%$ | $12.48 \%$ | $2.27 \%$ |
| $6 / 26 / 1981$ | $16.00 \%$ | $12.49 \%$ | $3.51 \%$ |
| $6 / 30 / 1981$ | $15.25 \%$ | $12.52 \%$ | $2.73 \%$ |
| $7 / 1 / 1981$ | $15.50 \%$ | $12.53 \%$ | $2.97 \%$ |
| $7 / 1 / 1981$ | $17.50 \%$ | $12.53 \%$ | $4.97 \%$ |
| $7 / 10 / 1981$ | $16.00 \%$ | $12.59 \%$ | $3.41 \%$ |
| $7 / 14 / 1981$ | $16.90 \%$ | $12.61 \%$ | $4.29 \%$ |
| $7 / 15 / 1981$ | $16.00 \%$ | $12.62 \%$ | $3.38 \%$ |
| $7 / 17 / 1981$ | $15.00 \%$ | $12.64 \%$ | $2.36 \%$ |
| $7 / 20 / 1981$ | $15.00 \%$ | $12.66 \%$ | $2.34 \%$ |
| $7 / 21 / 1981$ | $14.00 \%$ | $12.67 \%$ | $1.33 \%$ |
| $7 / 28 / 1981$ | $13.48 \%$ | $12.72 \%$ | $0.76 \%$ |
| $7 / 31 / 1981$ | $13.50 \%$ | $12.75 \%$ | $0.75 \%$ |
| $7 / 31 / 1981$ | $16.00 \%$ | $12.75 \%$ | $3.25 \%$ |
| $7 / 31 / 1981$ | $15.00 \%$ | $12.75 \%$ | $2.25 \%$ |
| $8 / 5 / 1981$ | $15.71 \%$ | $12.79 \%$ | $2.92 \%$ |
| $8 / 10 / 1981$ | $14.50 \%$ | $12.83 \%$ | $1.67 \%$ |
| $8 / 11 / 1981$ | $15.00 \%$ | $12.85 \%$ | $2.15 \%$ |
| $8 / 20 / 1981$ | $16.50 \%$ | $12.93 \%$ | $3.57 \%$ |
| $8 / 20 / 1981$ | $13.50 \%$ | $12.93 \%$ | $0.57 \%$ |
| $8 / 24 / 1981$ | $15.00 \%$ | $12.95 \%$ | $2.05 \%$ |
| $8 / 28 / 1981$ | $15.00 \%$ | $13.00 \%$ | $2.00 \%$ |
| $9 / 10 / 1981$ | $14.50 \%$ | $13.09 \%$ | $1.41 \%$ |
| $9 / 11 / 1981$ | $16.00 \%$ | $13.10 \%$ | $2.90 \%$ |
| $9 / 16 / 1981$ | $16.00 \%$ | $13.13 \%$ | $2.87 \%$ |
| $9 / 17 / 1981$ | $16.50 \%$ | $13.14 \%$ | $3.36 \%$ |
| $9 / 23 / 1981$ | $15.85 \%$ | $13.18 \%$ | $2.67 \%$ |
| $9 / 28 / 1981$ | $15.50 \%$ | $13.22 \%$ | $2.28 \%$ |
| $10 / 9 / 1981$ | $15.75 \%$ | $13.30 \%$ | $2.45 \%$ |
| $10 / 16 / 1981$ | $16.50 \%$ | $13.35 \%$ | $3.15 \%$ |
| $10 / 16 / 1981$ | $15.50 \%$ | $13.35 \%$ | $2.15 \%$ |
|  |  |  |  |

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| 10/19/1981 | 14.25\% | 13.36\% | 0.89\% |
| :---: | :---: | :---: | :---: |
| 10/20/1981 | 15.25\% | 13.38\% | 1.87\% |
| 10/20/1981 | 17.00\% | 13.38\% | 3.62\% |
| 10/23/1981 | 16.00\% | 13.42\% | 2.58\% |
| 10/27/1981 | 10.00\% | 13.45\% | -3.45\% |
| 10/29/1981 | 16.50\% | 13.48\% | 3.02\% |
| 10/29/1981 | 14.75\% | 13.48\% | 1.27\% |
| 11/3/1981 | 15.17\% | 13.51\% | 1.66\% |
| 11/5/1981 | 16.60\% | 13.52\% | 3.08\% |
| 11/6/1981 | 15.17\% | 13.53\% | 1.64\% |
| 11/24/1981 | 15.50\% | 13.58\% | 1.92\% |
| 11/25/1981 | 16.10\% | 13.59\% | 2.51\% |
| 11/25/1981 | 16.10\% | 13.59\% | 2.51\% |
| 11/25/1981 | 15.25\% | 13.59\% | 1.66\% |
| 12/1/1981 | 16.50\% | 13.59\% | 2.91\% |
| 12/1/1981 | 15.70\% | 13.59\% | 2.11\% |
| 12/1/1981 | 16.49\% | 13.59\% | 2.90\% |
| 12/1/1981 | 16.00\% | 13.59\% | 2.41\% |
| 12/4/1981 | 16.00\% | 13.60\% | 2.40\% |
| 12/11/1981 | 16.25\% | 13.61\% | 2.64\% |
| 12/14/1981 | 14.00\% | 13.61\% | 0.39\% |
| 12/15/1981 | 15.81\% | 13.61\% | 2.20\% |
| 12/15/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/16/1981 | 15.25\% | 13.62\% | 1.63\% |
| 12/17/1981 | 16.50\% | 13.62\% | 2.88\% |
| 12/18/1981 | 15.45\% | 13.62\% | 1.83\% |
| 12/30/1981 | 16.00\% | 13.65\% | 2.35\% |
| 12/30/1981 | 16.25\% | 13.65\% | 2.60\% |
| 12/30/1981 | 14.25\% | 13.65\% | 0.60\% |
| 12/31/1981 | 16.15\% | 13.65\% | 2.50\% |
| 1/4/1982 | 15.50\% | 13.65\% | 1.85\% |
| 1/11/1982 | 14.50\% | 13.70\% | 0.80\% |
| 1/11/1982 | 17.00\% | 13.70\% | 3.30\% |
| 1/13/1982 | 14.75\% | 13.72\% | 1.03\% |
| 1/14/1982 | 15.75\% | 13.73\% | 2.02\% |
| 1/15/1982 | 15.00\% | 13.74\% | 1.26\% |
| 1/15/1982 | 16.50\% | 13.74\% | 2.76\% |
| 1/22/1982 | 16.25\% | 13.77\% | 2.48\% |
| 1/27/1982 | 16.84\% | 13.79\% | 3.05\% |
| 1/28/1982 | 13.00\% | 13.80\% | -0.80\% |
| 1/29/1982 | 15.50\% | 13.80\% | 1.70\% |
| 2/1/1982 | 15.85\% | 13.81\% | 2.04\% |
| 2/3/1982 | 16.44\% | 13.82\% | 2.62\% |
| 2/8/1982 | 15.50\% | 13.84\% | 1.66\% |
| 2/11/1982 | 16.00\% | 13.86\% | 2.14\% |
| 2/11/1982 | 16.20\% | 13.86\% | 2.34\% |
| 2/19/1982 | 15.17\% | 13.88\% | 1.29\% |
| 2/26/1982 | 15.25\% | 13.89\% | 1.36\% |
| 3/1/1982 | 15.03\% | 13.89\% | 1.14\% |
| 3/1/1982 | 16.00\% | 13.89\% | 2.11\% |
| 3/3/1982 | 15.00\% | 13.88\% | 1.12\% |
| 3/8/1982 | 17.10\% | 13.88\% | 3.22\% |
| 3/12/1982 | 16.25\% | 13.87\% | 2.38\% |
| 3/17/1982 | 17.30\% | 13.87\% | 3.43\% |
| 3/22/1982 | 15.10\% | 13.87\% | 1.23\% |
| 3/27/1982 | 15.40\% | 13.88\% | 1.52\% |
| 3/30/1982 | 15.50\% | 13.89\% | 1.61\% |
| 3/31/1982 | 17.00\% | 13.89\% | 3.11\% |
| 4/1/1982 | 16.50\% | 13.89\% | 2.61\% |
| 4/1/1982 | 14.70\% | 13.89\% | 0.81\% |
| 4/5/1982 | 15.50\% | 13.90\% | 1.60\% |
| 4/8/1982 | 16.40\% | 13.91\% | 2.49\% |
| 4/13/1982 | 14.50\% | 13.92\% | 0.58\% |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $4 / 23 / 1982$ | $15.75 \%$ | $13.93 \%$ | $1.82 \%$ |
| $4 / 27 / 1982$ | $15.00 \%$ | $13.93 \%$ | $1.07 \%$ |
| $4 / 28 / 1982$ | $15.75 \%$ | $13.93 \%$ | $1.82 \%$ |
| $4 / 30 / 1982$ | $15.50 \%$ | $13.93 \%$ | $1.57 \%$ |
| $4 / 30 / 1982$ | $14.70 \%$ | $13.93 \%$ | $0.77 \%$ |
| $5 / 3 / 1982$ | $16.60 \%$ | $13.93 \%$ | $2.67 \%$ |
| $5 / 4 / 1982$ | $16.00 \%$ | $13.93 \%$ | $2.07 \%$ |
| $5 / 14 / 1982$ | $15.50 \%$ | $13.92 \%$ | $1.58 \%$ |
| $5 / 18 / 1982$ | $15.42 \%$ | $13.91 \%$ | $1.51 \%$ |
| $5 / 19 / 1982$ | $14.69 \%$ | $13.91 \%$ | $0.78 \%$ |
| $5 / 20 / 1982$ | $15.10 \%$ | $13.91 \%$ | $1.19 \%$ |
| $5 / 20 / 1982$ | $15.50 \%$ | $13.91 \%$ | $1.59 \%$ |
| $5 / 20 / 1982$ | $16.30 \%$ | $13.91 \%$ | $2.39 \%$ |
| $5 / 20 / 1982$ | $15.00 \%$ | $13.91 \%$ | $1.09 \%$ |
| $5 / 21 / 1982$ | $17.75 \%$ | $13.91 \%$ | $3.84 \%$ |
| $5 / 27 / 1982$ | $15.00 \%$ | $13.90 \%$ | $1.10 \%$ |
| $5 / 28 / 1982$ | $15.50 \%$ | $13.89 \%$ | $1.61 \%$ |
| $5 / 28 / 1982$ | $17.00 \%$ | $13.89 \%$ | $3.11 \%$ |
| $6 / 1 / 1982$ | $13.75 \%$ | $13.89 \%$ | $-0.14 \%$ |
| $6 / 1 / 1982$ | $16.60 \%$ | $13.89 \%$ | $2.71 \%$ |
| $6 / 9 / 1982$ | $17.86 \%$ | $13.88 \%$ | $3.98 \%$ |
| $6 / 14 / 1982$ | $15.75 \%$ | $13.88 \%$ | $1.87 \%$ |
| $6 / 15 / 1982$ | $14.85 \%$ | $13.88 \%$ | $0.97 \%$ |
| $6 / 18 / 1982$ | $15.50 \%$ | $13.88 \%$ | $1.62 \%$ |
| $6 / 21 / 1982$ | $14.90 \%$ | $13.88 \%$ | $1.02 \%$ |
| $6 / 23 / 1982$ | $16.00 \%$ | $13.88 \%$ | $2.12 \%$ |
| $6 / 24 / 1982$ | $14.85 \%$ | $13.88 \%$ | $0.97 \%$ |
| $6 / 25 / 1982$ | $14.70 \%$ | $13.87 \%$ | $0.83 \%$ |
| $7 / 1 / 1982$ | $16.00 \%$ | $13.86 \%$ | $2.14 \%$ |
| $7 / 2 / 1982$ | $15.62 \%$ | $13.86 \%$ | $1.76 \%$ |
| $7 / 2 / 1982$ | $17.00 \%$ | $13.86 \%$ | $3.14 \%$ |
| $7 / 13 / 1982$ | $16.80 \%$ | $13.83 \%$ | $2.97 \%$ |
| $7 / 14 / 1982$ | $15.76 \%$ | $13.82 \%$ | $1.94 \%$ |
| $7 / 14 / 1982$ | $16.02 \%$ | $13.82 \%$ | $2.20 \%$ |
| $7 / 22 / 1982$ | $17.00 \%$ | $13.79 \%$ | $3.21 \%$ |
| $7 / 22 / 1982$ | $14.50 \%$ | $13.79 \%$ | $0.71 \%$ |
| $7 / 27 / 1982$ | $16.75 \%$ | $13.77 \%$ | $2.98 \%$ |
| $7 / 29 / 1982$ | $16.50 \%$ | $13.76 \%$ | $2.74 \%$ |
| $8 / 11 / 1982$ | $17.50 \%$ | $13.70 \%$ | $3.80 \%$ |
| $8 / 18 / 1982$ | $17.07 \%$ | $13.65 \%$ | $3.42 \%$ |
| $8 / 20 / 1982$ | $15.73 \%$ | $13.63 \%$ | $2.10 \%$ |
| $8 / 25 / 1982$ | $16.00 \%$ | $13.59 \%$ | $2.41 \%$ |
| $8 / 26 / 1982$ | $15.50 \%$ | $13.57 \%$ | $1.93 \%$ |
| $8 / 30 / 1982$ | $15.00 \%$ | $13.56 \%$ | $1.44 \%$ |
| $9 / 8 / 1982$ | $15.00 \%$ | $13.52 \%$ | $1.48 \%$ |
| $9 / 15 / 1982$ | $13.08 \%$ | $13.49 \%$ | $-0.41 \%$ |
| $9 / 15 / 1982$ | $16.25 \%$ | $13.49 \%$ | $2.76 \%$ |
| $9 / 16 / 1982$ | $16.00 \%$ | $13.49 \%$ | $2.51 \%$ |
| $9 / 17 / 1982$ | $15.25 \%$ | $13.48 \%$ | $1.77 \%$ |
| $9 / 24 / 1982$ | $14.50 \%$ | $13.46 \%$ | $1.04 \%$ |
| $9 / 27 / 1982$ | $15.25 \%$ | $13.45 \%$ | $1.80 \%$ |
| $10 / 1 / 1982$ | $15.50 \%$ | $13.42 \%$ | $2.08 \%$ |
| $10 / 15 / 1982$ | $15.90 \%$ | $13.33 \%$ | $2.57 \%$ |
| $10 / 22 / 1982$ | $15.75 \%$ | $13.26 \%$ | $2.49 \%$ |
| $10 / 29 / 1982$ | $15.54 \%$ | $13.19 \%$ | $2.35 \%$ |
| $11 / 1 / 1982$ | $15.50 \%$ | $13.17 \%$ | $2.33 \%$ |
| $11 / 3 / 1982$ | $17.20 \%$ | $13.15 \%$ | $4.05 \%$ |
| $11 / 5 / 198 / 1982$ | $16.20 \%$ | $13.12 \%$ | $3.08 \%$ |
| $11 / 23 / 1982$ | $15.00 \%$ | $13.08 \%$ | $2.92 \%$ |
| $11 / 30 / 1982$ | $15.50 \%$ | $12.91 \%$ | $2.94 \%$ |
| $12 / 1 / 1982$ | $16.50 \%$ | $12.91 \%$ | $2.59 \%$ |
|  | $17.04 \%$ | $12.84 \%$ | $3.66 \%$ |

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| 12/6/1982 | 15.00\% | 12.76\% | 2.24\% |
| :---: | :---: | :---: | :---: |
| 12/6/1982 | 16.35\% | 12.76\% | 3.59\% |
| 12/10/1982 | 15.50\% | 12.68\% | 2.82\% |
| 12/13/1982 | 16.00\% | 12.67\% | 3.33\% |
| 12/14/1982 | 16.40\% | 12.65\% | 3.75\% |
| 12/14/1982 | 15.30\% | 12.65\% | 2.65\% |
| 12/20/1982 | 16.00\% | 12.59\% | 3.41\% |
| 12/21/1982 | 15.85\% | 12.57\% | 3.28\% |
| 12/21/1982 | 14.75\% | 12.57\% | 2.18\% |
| 12/22/1982 | 16.75\% | 12.56\% | 4.19\% |
| 12/22/1982 | 16.58\% | 12.56\% | 4.02\% |
| 12/29/1982 | 14.90\% | 12.50\% | 2.40\% |
| 12/29/1982 | 16.25\% | 12.50\% | 3.75\% |
| 12/30/1982 | 16.35\% | 12.49\% | 3.86\% |
| 12/30/1982 | 16.00\% | 12.49\% | 3.51\% |
| 12/30/1982 | 16.77\% | 12.49\% | 4.28\% |
| 1/5/1983 | 17.33\% | 12.43\% | 4.90\% |
| 1/11/1983 | 15.90\% | 12.37\% | 3.53\% |
| 1/12/1983 | 15.50\% | 12.35\% | 3.15\% |
| 1/20/1983 | 17.75\% | 12.26\% | 5.49\% |
| 1/21/1983 | 15.00\% | 12.25\% | 2.75\% |
| 1/24/1983 | 14.50\% | 12.24\% | 2.26\% |
| 1/24/1983 | 15.50\% | 12.24\% | 3.26\% |
| 1/25/1983 | 15.85\% | 12.22\% | 3.63\% |
| 1/27/1983 | 16.14\% | 12.19\% | 3.95\% |
| 2/1/1983 | 18.50\% | 12.15\% | 6.35\% |
| 2/4/1983 | 14.00\% | 12.12\% | 1.88\% |
| 2/10/1983 | 15.00\% | 12.08\% | 2.92\% |
| 2/21/1983 | 15.50\% | 12.01\% | 3.49\% |
| 2/22/1983 | 15.50\% | 12.00\% | 3.50\% |
| 2/23/1983 | 15.10\% | 11.98\% | 3.12\% |
| 2/23/1983 | 16.00\% | 11.98\% | 4.02\% |
| 3/2/1983 | 15.25\% | 11.92\% | 3.33\% |
| 3/9/1983 | 15.20\% | 11.85\% | 3.35\% |
| 3/15/1983 | 13.00\% | 11.80\% | 1.20\% |
| 3/18/1983 | 15.25\% | 11.76\% | 3.49\% |
| 3/23/1983 | 15.40\% | 11.72\% | 3.68\% |
| 3/24/1983 | 15.00\% | 11.71\% | 3.29\% |
| 3/29/1983 | 15.50\% | 11.67\% | 3.83\% |
| 3/31/1983 | 15.00\% | 11.64\% | 3.36\% |
| 4/4/1983 | 15.20\% | 11.62\% | 3.58\% |
| 4/8/1983 | 15.50\% | 11.56\% | 3.94\% |
| 4/11/1983 | 14.81\% | 11.54\% | 3.27\% |
| 4/19/1983 | 14.50\% | 11.43\% | 3.07\% |
| 4/20/1983 | 16.00\% | 11.41\% | 4.59\% |
| 4/29/1983 | 16.00\% | 11.29\% | 4.71\% |
| 5/1/1983 | 14.50\% | 11.29\% | 3.21\% |
| 5/9/1983 | 15.50\% | 11.19\% | 4.31\% |
| 5/11/1983 | 16.46\% | 11.16\% | 5.30\% |
| 5/12/1983 | 14.14\% | 11.15\% | 2.99\% |
| 5/18/1983 | 15.00\% | 11.10\% | 3.90\% |
| 5/23/1983 | 15.50\% | 11.05\% | 4.45\% |
| 5/25/1983 | 15.50\% | 11.03\% | 4.47\% |
| 5/27/1983 | 15.00\% | 11.00\% | 4.00\% |
| 5/31/1983 | 15.50\% | 10.99\% | 4.51\% |
| 5/31/1983 | 14.00\% | 10.99\% | 3.01\% |
| 6/2/1983 | 14.50\% | 10.97\% | 3.53\% |
| 6/17/1983 | 15.03\% | 10.87\% | 4.16\% |
| 7/1/1983 | 14.80\% | 10.81\% | 3.99\% |
| 7/1/1983 | 14.90\% | 10.81\% | 4.09\% |
| 7/8/1983 | 16.25\% | 10.78\% | 5.47\% |
| 7/13/1983 | 13.20\% | 10.77\% | 2.43\% |
| 7/19/1983 | 15.10\% | 10.76\% | 4.34\% |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $7 / 19 / 1983$ | $15.00 \%$ | $10.76 \%$ | $4.24 \%$ |
| $7 / 25 / 1983$ | $16.25 \%$ | $10.75 \%$ | $5.50 \%$ |
| $7 / 28 / 1983$ | $15.90 \%$ | $10.75 \%$ | $5.15 \%$ |
| $8 / 3 / 1983$ | $16.50 \%$ | $10.75 \%$ | $5.75 \%$ |
| $8 / 3 / 1983$ | $16.34 \%$ | $10.75 \%$ | $5.59 \%$ |
| $8 / 22 / 1983$ | $16.40 \%$ | $10.80 \%$ | $5.60 \%$ |
| $8 / 22 / 1983$ | $15.50 \%$ | $10.80 \%$ | $4.70 \%$ |
| $8 / 31 / 1983$ | $14.75 \%$ | $10.84 \%$ | $3.91 \%$ |
| $9 / 16 / 1983$ | $15.00 \%$ | $10.90 \%$ | $4.10 \%$ |
| $9 / 19 / 1983$ | $14.50 \%$ | $10.90 \%$ | $3.60 \%$ |
| $9 / 20 / 1983$ | $16.50 \%$ | $10.91 \%$ | $5.59 \%$ |
| $9 / 28 / 1983$ | $14.50 \%$ | $10.93 \%$ | $3.57 \%$ |
| $9 / 29 / 1983$ | $15.50 \%$ | $10.94 \%$ | $4.56 \%$ |
| $9 / 30 / 1983$ | $16.15 \%$ | $10.94 \%$ | $5.21 \%$ |
| $9 / 30 / 1983$ | $15.25 \%$ | $10.94 \%$ | $4.31 \%$ |
| $10 / 4 / 1983$ | $14.80 \%$ | $10.95 \%$ | $3.85 \%$ |
| $10 / 7 / 1983$ | $16.00 \%$ | $10.96 \%$ | $5.04 \%$ |
| $10 / 13 / 1983$ | $15.52 \%$ | $10.98 \%$ | $4.54 \%$ |
| $10 / 17 / 1983$ | $15.50 \%$ | $10.99 \%$ | $4.51 \%$ |
| $10 / 18 / 1983$ | $14.50 \%$ | $10.99 \%$ | $3.51 \%$ |
| $10 / 19 / 1983$ | $16.50 \%$ | $11.00 \%$ | $5.50 \%$ |
| $10 / 19 / 1983$ | $16.25 \%$ | $11.00 \%$ | $5.25 \%$ |
| $10 / 26 / 1983$ | $15.00 \%$ | $11.03 \%$ | $3.97 \%$ |
| $10 / 27 / 1983$ | $15.20 \%$ | $11.03 \%$ | $4.17 \%$ |
| $11 / 9 / 1983$ | $14.90 \%$ | $11.08 \%$ | $3.82 \%$ |
| $11 / 23 / 1983$ | $16.15 \%$ | $11.13 \%$ | $5.02 \%$ |
| $11 / 30 / 1983$ | $15.00 \%$ | $11.14 \%$ | $3.86 \%$ |
| $12 / 5 / 1983$ | $15.25 \%$ | $11.15 \%$ | $4.10 \%$ |
| $12 / 6 / 1983$ | $15.07 \%$ | $11.15 \%$ | $3.92 \%$ |
| $12 / 8 / 1983$ | $15.90 \%$ | $11.16 \%$ | $4.74 \%$ |
| $12 / 9 / 1983$ | $14.75 \%$ | $11.16 \%$ | $3.59 \%$ |
| $12 / 12 / 1983$ | $14.50 \%$ | $11.17 \%$ | $3.33 \%$ |
| $12 / 15 / 1983$ | $15.56 \%$ | $11.18 \%$ | $4.38 \%$ |
| $12 / 19 / 1983$ | $14.80 \%$ | $11.20 \%$ | $3.60 \%$ |
| $12 / 20 / 1983$ | $16.00 \%$ | $11.20 \%$ | $4.80 \%$ |
| $12 / 20 / 1983$ | $16.25 \%$ | $11.20 \%$ | $5.05 \%$ |
| $12 / 22 / 1983$ | $15.75 \%$ | $11.22 \%$ | $4.53 \%$ |
| $12 / 22 / 1983$ | $14.75 \%$ | $11.22 \%$ | $3.53 \%$ |
| $1 / 3 / 1984$ | $14.75 \%$ | $11.26 \%$ | $3.49 \%$ |
| $1 / 10 / 1984$ | $15.90 \%$ | $11.28 \%$ | $4.62 \%$ |
| $1 / 12 / 1984$ | $15.60 \%$ | $11.29 \%$ | $4.31 \%$ |
| $1 / 18 / 1984$ | $13.75 \%$ | $11.31 \%$ | $2.44 \%$ |
| $1 / 19 / 1984$ | $15.90 \%$ | $11.32 \%$ | $4.58 \%$ |
| $1 / 31 / 1984$ | $15.25 \%$ | $11.36 \%$ | $3.89 \%$ |
| $2 / 1 / 1984$ | $14.80 \%$ | $11.36 \%$ | $3.44 \%$ |
| $2 / 6 / 1984$ | $14.75 \%$ | $11.38 \%$ | $3.37 \%$ |
| $2 / 6 / 1984$ | $13.75 \%$ | $11.38 \%$ | $2.37 \%$ |
| $2 / 9 / 1984$ | $15.25 \%$ | $11.40 \%$ | $3.85 \%$ |
| $2 / 20 / 1984$ | $15.00 \%$ | $11.44 \%$ | $3.56 \%$ |
| $2 / 20 / 1984$ | $15.00 \%$ | $11.44 \%$ | $3.56 \%$ |
| $2 / 22 / 1984$ | $14.75 \%$ | $11.45 \%$ | $3.30 \%$ |
| $2 / 28 / 1984$ | $14.50 \%$ | $11.49 \%$ | $3.01 \%$ |
| $3 / 2 / 1884$ | $14.25 \%$ | $11.51 \%$ | $2.74 \%$ |
| $3 / 20 / 1984$ | $11.00 \%$ | $11.63 \%$ | $4.37 \%$ |
| $3 / 23 / 1984$ | $15.50 \%$ | $11.65 \%$ | $3.85 \%$ |
| $3 / 26 / 1884$ | $14.71 \%$ | $11.66 \%$ | $3.05 \%$ |
| $4 / 6 / 1984$ | $14.74 \%$ | $11.73 \%$ | $3.01 \%$ |
| $4 / 1 / 1984$ | $15.72 \%$ | $11.76 \%$ | $3.96 \%$ |
| $4 / 17 / 1984$ | $15.00 \%$ | $11.79 \%$ | $3.21 \%$ |
| $4 / 18 / 1984$ | $16.20 \%$ | $11.80 \%$ | $4.40 \%$ |
| $4 / 25 / 1984$ | $14.64 \%$ | $11.84 \%$ | $2.80 \%$ |
| $4 / 30 / 1984$ | $14.40 \%$ | $11.86 \%$ | $2.54 \%$ |
| $5 / 16 / 1984$ | $14.69 \%$ | $11.97 \%$ | $2.72 \%$ |
|  |  |  |  |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $5 / 16 / 1984$ | $15.00 \%$ | $11.97 \%$ | $3.03 \%$ |
| $5 / 22 / 1984$ | $14.40 \%$ | $12.01 \%$ | $2.39 \%$ |
| $5 / 29 / 1984$ | $15.10 \%$ | $12.06 \%$ | $3.04 \%$ |
| $6 / 13 / 1984$ | $15.25 \%$ | $12.14 \%$ | $3.11 \%$ |
| $6 / 15 / 1984$ | $15.60 \%$ | $12.16 \%$ | $3.44 \%$ |
| $6 / 29 / 1984$ | $15.25 \%$ | $12.24 \%$ | $3.01 \%$ |
| $7 / 2 / 1984$ | $13.35 \%$ | $12.25 \%$ | $1.10 \%$ |
| $7 / 10 / 1984$ | $16.00 \%$ | $12.30 \%$ | $3.70 \%$ |
| $7 / 12 / 1984$ | $16.50 \%$ | $12.31 \%$ | $4.19 \%$ |
| $7 / 13 / 1984$ | $16.25 \%$ | $12.32 \%$ | $3.93 \%$ |
| $7 / 17 / 1984$ | $14.14 \%$ | $12.33 \%$ | $1.81 \%$ |
| $7 / 18 / 1984$ | $15.50 \%$ | $12.34 \%$ | $3.16 \%$ |
| $7 / 18 / 1984$ | $15.30 \%$ | $12.34 \%$ | $2.96 \%$ |
| $7 / 24 / 1984$ | $16.79 \%$ | $12.37 \%$ | $4.42 \%$ |
| $7 / 31 / 1984$ | $16.00 \%$ | $12.41 \%$ | $3.59 \%$ |
| $8 / 3 / 1984$ | $14.25 \%$ | $12.43 \%$ | $1.82 \%$ |
| $8 / 17 / 1984$ | $14.30 \%$ | $12.47 \%$ | $1.83 \%$ |
| $8 / 20 / 1984$ | $15.00 \%$ | $12.48 \%$ | $2.52 \%$ |
| $8 / 27 / 1984$ | $16.30 \%$ | $12.49 \%$ | $3.81 \%$ |
| $8 / 31 / 1984$ | $15.55 \%$ | $12.51 \%$ | $3.04 \%$ |
| $9 / 6 / 1984$ | $16.00 \%$ | $12.52 \%$ | $3.48 \%$ |
| $9 / 10 / 1984$ | $14.75 \%$ | $12.52 \%$ | $2.23 \%$ |
| $9 / 13 / 1984$ | $15.00 \%$ | $12.53 \%$ | $2.47 \%$ |
| $9 / 17 / 1984$ | $17.38 \%$ | $12.54 \%$ | $4.84 \%$ |
| $9 / 28 / 1984$ | $16.25 \%$ | $12.56 \%$ | $3.69 \%$ |
| $10 / 9 / 1984$ | $14.75 \%$ | $12.57 \%$ | $2.18 \%$ |
| $10 / 12 / 1984$ | $15.60 \%$ | $12.57 \%$ | $3.03 \%$ |
| $10 / 22 / 1984$ | $15.00 \%$ | $12.57 \%$ | $2.43 \%$ |
| $10 / 26 / 1984$ | $16.40 \%$ | $12.57 \%$ | $3.83 \%$ |
| $10 / 31 / 1984$ | $16.25 \%$ | $12.57 \%$ | $3.68 \%$ |
| $11 / 7 / 1984$ | $15.60 \%$ | $12.56 \%$ | $3.04 \%$ |
| $11 / 20 / 1984$ | $15.25 \%$ | $12.56 \%$ | $2.69 \%$ |
| $11 / 20 / 1984$ | $15.92 \%$ | $12.56 \%$ | $3.36 \%$ |
| $11 / 23 / 1984$ | $15.00 \%$ | $12.56 \%$ | $2.44 \%$ |
| $11 / 28 / 1984$ | $16.15 \%$ | $12.55 \%$ | $3.60 \%$ |
| $12 / 4 / 1984$ | $16.50 \%$ | $12.55 \%$ | $3.95 \%$ |
| $12 / 18 / 1984$ | $16.40 \%$ | $12.53 \%$ | $3.87 \%$ |
| $12 / 19 / 1984$ | $14.75 \%$ | $12.52 \%$ | $2.23 \%$ |
| $12 / 19 / 1984$ | $15.00 \%$ | $12.52 \%$ | $2.48 \%$ |
| $12 / 28 / 1984$ | $16.00 \%$ | $12.50 \%$ | $3.50 \%$ |
| $1 / 3 / 1985$ | $14.75 \%$ | $12.49 \%$ | $2.26 \%$ |
| $1 / 10 / 1985$ | $15.75 \%$ | $12.47 \%$ | $3.28 \%$ |
| $1 / 11 / 1985$ | $16.30 \%$ | $12.46 \%$ | $3.84 \%$ |
| $1 / 23 / 1985$ | $15.80 \%$ | $12.43 \%$ | $3.37 \%$ |
| $1 / 24 / 1985$ | $15.82 \%$ | $12.43 \%$ | $3.39 \%$ |
| $1 / 25 / 1985$ | $16.75 \%$ | $12.42 \%$ | $4.33 \%$ |
| $1 / 30 / 1985$ | $14.90 \%$ | $12.40 \%$ | $2.50 \%$ |
| $1 / 31 / 1985$ | $14.75 \%$ | $12.39 \%$ | $2.36 \%$ |
| $2 / 8 / 1985$ | $14.47 \%$ | $12.36 \%$ | $2.11 \%$ |
| $3 / 1 / 1985$ | $13.84 \%$ | $12.31 \%$ | $1.53 \%$ |
| $3 / 8 / 1985$ | $16.85 \%$ | $12.30 \%$ | $4.55 \%$ |
| $3 / 14 / 1985$ | $15.50 \%$ | $12.27 \%$ | $3.23 \%$ |
| $3 / 29 / 1985$ | $15.62 \%$ | $12.19 \%$ | $3.43 \%$ |
| $4 / 3 / 1985$ | $14.60 \%$ | $12.17 \%$ | $2.43 \%$ |
| $4 / 9 / 1985$ | $15.50 \%$ | $12.14 \%$ | $3.36 \%$ |
| $4 / 16 / 1985$ | $15.70 \%$ | $12.08 \%$ | $3.62 \%$ |
| $4 / 22 / 1985$ | $14.00 \%$ | $12.04 \%$ | $1.96 \%$ |
| $4 / 26 / 1985$ | $15.50 \%$ | $12.00 \%$ | $3.50 \%$ |
| $4 / 29 / 1985$ | $15.00 \%$ | $12.00 \%$ | $3.00 \%$ |
| $5 / 2 / 1985$ | $14.68 \%$ | $11.97 \%$ | $2.71 \%$ |
| $5 / 8 / 1985$ | $15.62 \%$ | $11.92 \%$ | $3.70 \%$ |
| $7 / 1 / 19855$ | $15.00 \%$ | $11.47 \%$ | $3.53 \%$ |
| $7 / 1685$ | $14.50 \%$ | $11.41 \%$ | $3.09 \%$ |
|  |  |  |  |

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| 7/26/1985 | 14.50\% | 11.34\% | 3.16\% |
| :---: | :---: | :---: | :---: |
| 8/2/1985 | 14.80\% | 11.31\% | 3.49\% |
| 8/7/1985 | 15.00\% | 11.29\% | 3.71\% |
| 8/28/1985 | 14.25\% | 11.16\% | 3.09\% |
| 8/28/1985 | 15.50\% | 11.16\% | 4.34\% |
| 8/29/1985 | 14.50\% | 11.16\% | 3.34\% |
| 9/9/1985 | 14.60\% | 11.12\% | 3.48\% |
| 9/17/1985 | 14.90\% | 11.10\% | 3.80\% |
| 9/23/1985 | 15.00\% | 11.07\% | 3.93\% |
| 9/27/1985 | 15.80\% | 11.05\% | 4.75\% |
| 9/27/1985 | 15.50\% | 11.05\% | 4.45\% |
| 10/2/1985 | 14.75\% | 11.04\% | 3.71\% |
| 10/2/1985 | 14.00\% | 11.04\% | 2.96\% |
| 10/3/1985 | 15.25\% | 11.04\% | 4.21\% |
| 10/24/1985 | 15.40\% | 10.97\% | 4.43\% |
| 10/24/1985 | 15.85\% | 10.97\% | 4.88\% |
| 10/24/1985 | 15.82\% | 10.97\% | 4.85\% |
| 10/29/1985 | 16.65\% | 10.95\% | 5.70\% |
| 11/4/1985 | 14.50\% | 10.93\% | 3.57\% |
| 11/8/1985 | 14.30\% | 10.90\% | 3.40\% |
| 12/12/1985 | 14.75\% | 10.74\% | 4.01\% |
| 12/18/1985 | 15.00\% | 10.70\% | 4.30\% |
| 12/20/1985 | 15.00\% | 10.69\% | 4.31\% |
| 12/20/1985 | 14.50\% | 10.69\% | 3.81\% |
| 12/20/1985 | 14.50\% | 10.69\% | 3.81\% |
| 1/24/1986 | 15.40\% | 10.43\% | 4.97\% |
| 1/31/1986 | 15.00\% | 10.37\% | 4.63\% |
| 2/5/1986 | 15.00\% | 10.34\% | 4.66\% |
| 2/10/1986 | 13.30\% | 10.31\% | 2.99\% |
| 2/11/1986 | 12.50\% | 10.30\% | 2.20\% |
| 2/14/1986 | 14.40\% | 10.27\% | 4.13\% |
| 2/18/1986 | 16.00\% | 10.25\% | 5.75\% |
| 2/24/1986 | 14.50\% | 10.20\% | 4.30\% |
| 2/26/1986 | 14.00\% | 10.17\% | 3.83\% |
| 3/11/1986 | 14.50\% | 10.04\% | 4.46\% |
| 3/12/1986 | 13.50\% | 10.02\% | 3.48\% |
| 3/27/1986 | 14.10\% | 9.86\% | 4.24\% |
| 3/31/1986 | 13.50\% | 9.85\% | 3.65\% |
| 4/1/1986 | 14.00\% | 9.84\% | 4.16\% |
| 4/2/1986 | 15.50\% | 9.82\% | 5.68\% |
| 4/4/1986 | 15.00\% | 9.79\% | 5.21\% |
| 4/14/1986 | 13.40\% | 9.71\% | 3.69\% |
| 4/23/1986 | 15.00\% | 9.59\% | 5.41\% |
| 5/16/1986 | 14.50\% | 9.35\% | 5.15\% |
| 5/29/1986 | 13.90\% | 9.22\% | 4.68\% |
| 5/30/1986 | 15.10\% | 9.21\% | 5.89\% |
| 6/2/1986 | 12.81\% | 9.20\% | 3.61\% |
| 6/11/1986 | 14.00\% | 9.10\% | 4.90\% |
| 6/24/1986 | 16.63\% | 8.97\% | 7.66\% |
| 6/26/1986 | 12.00\% | 8.94\% | 3.06\% |
| 6/26/1986 | 14.75\% | 8.94\% | 5.81\% |
| 6/30/1986 | 13.00\% | 8.91\% | 4.09\% |
| 7/10/1986 | 14.34\% | 8.79\% | 5.55\% |
| 7/11/1986 | 12.75\% | 8.77\% | 3.98\% |
| 7/14/1986 | 12.60\% | 8.75\% | 3.85\% |
| 7/17/1986 | 12.40\% | 8.70\% | 3.70\% |
| 7/25/1986 | 14.25\% | 8.61\% | 5.64\% |
| 8/6/1986 | 13.50\% | 8.48\% | 5.02\% |
| 8/14/1986 | 13.50\% | 8.39\% | 5.11\% |
| 9/19/1986 | 13.25\% | 8.07\% | 5.18\% |
| 10/1/1986 | 14.00\% | 7.98\% | 6.02\% |
| 10/3/1986 | 13.40\% | 7.96\% | 5.44\% |
| 10/31/1986 | 13.50\% | 7.81\% | 5.69\% |

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| 11/5/1986 | 13.00\% | 7.78\% | 5.22\% |
| :---: | :---: | :---: | :---: |
| 12/3/1986 | 12.90\% | 7.61\% | 5.29\% |
| 12/4/1986 | 14.44\% | 7.60\% | 6.84\% |
| 12/22/1986 | 13.80\% | 7.52\% | 6.28\% |
| 12/30/1986 | 13.00\% | 7.50\% | 5.50\% |
| 1/2/1987 | 13.00\% | 7.49\% | 5.51\% |
| 1/12/1987 | 12.40\% | 7.48\% | 4.92\% |
| 1/27/1987 | 12.71\% | 7.46\% | 5.25\% |
| 3/2/1987 | 12.47\% | 7.47\% | 5.00\% |
| 3/3/1987 | 13.60\% | 7.47\% | 6.13\% |
| 3/4/1987 | 12.38\% | 7.47\% | 4.91\% |
| 3/10/1987 | 13.50\% | 7.47\% | 6.03\% |
| 3/13/1987 | 13.00\% | 7.47\% | 5.53\% |
| 4/14/1987 | 12.50\% | 7.49\% | 5.01\% |
| 4/16/1987 | 14.50\% | 7.50\% | 7.00\% |
| 4/27/1987 | 12.00\% | 7.53\% | 4.47\% |
| 5/5/1987 | 12.85\% | 7.57\% | 5.28\% |
| 5/12/1987 | 12.65\% | 7.61\% | 5.04\% |
| 5/28/1987 | 13.50\% | 7.69\% | 5.81\% |
| 6/15/1987 | 13.20\% | 7.77\% | 5.43\% |
| 6/29/1987 | 15.00\% | 7.83\% | 7.17\% |
| 6/30/1987 | 12.50\% | 7.83\% | 4.67\% |
| 7/8/1987 | 12.00\% | 7.85\% | 4.15\% |
| 7/10/1987 | 12.90\% | 7.86\% | 5.04\% |
| 7/15/1987 | 13.50\% | 7.87\% | 5.63\% |
| 7/16/1987 | 15.00\% | 7.88\% | 7.12\% |
| 7/16/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/27/1987 | 13.00\% | 7.91\% | 5.09\% |
| 7/27/1987 | 13.40\% | 7.91\% | 5.49\% |
| 7/27/1987 | 13.50\% | 7.91\% | 5.59\% |
| 7/31/1987 | 12.98\% | 7.94\% | 5.04\% |
| 8/26/1987 | 12.63\% | 8.05\% | 4.58\% |
| 8/26/1987 | 12.75\% | 8.05\% | 4.70\% |
| 9/9/1987 | 13.00\% | 8.12\% | 4.88\% |
| 9/30/1987 | 13.00\% | 8.29\% | 4.71\% |
| 10/2/1987 | 11.50\% | 8.31\% | 3.19\% |
| 11/2/1987 | 13.00\% | 8.52\% | 4.48\% |
| 11/19/1987 | 13.00\% | 8.61\% | 4.39\% |
| 11/30/1987 | 12.00\% | 8.66\% | 3.34\% |
| 12/3/1987 | 14.20\% | 8.68\% | 5.52\% |
| 12/15/1987 | 13.25\% | 8.75\% | 4.50\% |
| 12/16/1987 | 13.72\% | 8.76\% | 4.96\% |
| 12/16/1987 | 13.50\% | 8.76\% | 4.74\% |
| 12/21/1987 | 12.01\% | 8.78\% | 3.23\% |
| 12/22/1987 | 12.75\% | 8.79\% | 3.96\% |
| 12/22/1987 | 12.00\% | 8.79\% | 3.21\% |
| 12/22/1987 | 12.00\% | 8.79\% | 3.21\% |
| 1/20/1988 | 13.80\% | 8.91\% | 4.89\% |
| 1/29/1988 | 13.20\% | 8.94\% | 4.26\% |
| 2/4/1988 | 12.60\% | 8.95\% | 3.65\% |
| 3/1/1988 | 11.56\% | 8.94\% | 2.62\% |
| 3/23/1988 | 12.87\% | 8.92\% | 3.95\% |
| 3/24/1988 | 11.24\% | 8.92\% | 2.32\% |
| 4/1/1988 | 12.50\% | 8.92\% | 3.58\% |
| 4/7/1988 | 13.25\% | 8.92\% | 4.33\% |
| 4/25/1988 | 10.96\% | 8.95\% | 2.01\% |
| 5/3/1988 | 12.91\% | 8.97\% | 3.94\% |
| 5/11/1988 | 13.50\% | 8.98\% | 4.52\% |
| 6/30/1988 | 12.75\% | 9.01\% | 3.74\% |
| 7/1/1988 | 12.75\% | 9.00\% | 3.75\% |
| 7/20/1988 | 13.40\% | 8.98\% | 4.42\% |
| 8/5/1988 | 12.75\% | 8.94\% | 3.81\% |
| 8/29/1988 | 12.75\% | 8.94\% | 3.81\% |

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| $10 / 13 / 1988$ | $13.10 \%$ | $8.94 \%$ | $4.16 \%$ |
| ---: | ---: | ---: | ---: |
| $12 / 19 / 1988$ | $13.00 \%$ | $9.00 \%$ | $4.00 \%$ |
| $12 / 20 / 1988$ | $13.00 \%$ | $9.01 \%$ | $3.99 \%$ |
| $12 / 20 / 1988$ | $12.25 \%$ | $9.01 \%$ | $3.24 \%$ |
| $12 / 21 / 1988$ | $12.90 \%$ | $9.01 \%$ | $3.89 \%$ |
| $12 / 28 / 1988$ | $13.10 \%$ | $9.02 \%$ | $4.08 \%$ |
| $1 / 27 / 1989$ | $13.00 \%$ | $9.05 \%$ | $3.95 \%$ |
| $1 / 31 / 1989$ | $13.00 \%$ | $9.05 \%$ | $3.95 \%$ |
| $2 / 20 / 1989$ | $12.40 \%$ | $9.05 \%$ | $3.35 \%$ |
| $3 / 1 / 1989$ | $12.76 \%$ | $9.05 \%$ | $3.71 \%$ |
| $3 / 30 / 1989$ | $14.00 \%$ | $9.05 \%$ | $4.95 \%$ |
| $4 / 18 / 1989$ | $13.00 \%$ | $9.05 \%$ | $3.95 \%$ |
| $5 / 5 / 1989$ | $12.40 \%$ | $9.05 \%$ | $3.35 \%$ |
| $6 / 2 / 1989$ | $13.20 \%$ | $9.01 \%$ | $4.19 \%$ |
| $6 / 8 / 1989$ | $13.50 \%$ | $8.99 \%$ | $4.51 \%$ |
| $6 / 27 / 1989$ | $13.25 \%$ | $8.92 \%$ | $4.33 \%$ |
| $6 / 30 / 1989$ | $13.00 \%$ | $8.90 \%$ | $4.10 \%$ |
| $8 / 14 / 1989$ | $12.50 \%$ | $8.77 \%$ | $3.73 \%$ |
| $9 / 28 / 1989$ | $12.25 \%$ | $8.64 \%$ | $3.61 \%$ |
| $10 / 24 / 1989$ | $12.50 \%$ | $8.55 \%$ | $3.95 \%$ |
| $11 / 9 / 1989$ | $13.00 \%$ | $8.49 \%$ | $4.51 \%$ |
| $12 / 15 / 1989$ | $13.00 \%$ | $8.35 \%$ | $4.65 \%$ |
| $12 / 20 / 1989$ | $12.90 \%$ | $8.33 \%$ | $4.57 \%$ |
| $12 / 21 / 1989$ | $12.90 \%$ | $8.33 \%$ | $4.57 \%$ |
| $12 / 27 / 1989$ | $12.50 \%$ | $8.31 \%$ | $4.19 \%$ |
| $1 / 10 / 1990$ | $12.80 \%$ | $8.26 \%$ | $4.54 \%$ |
| $1 / 11 / 1990$ | $12.90 \%$ | $8.25 \%$ | $4.65 \%$ |
| $1 / 17 / 1990$ | $12.80 \%$ | $8.24 \%$ | $4.56 \%$ |
| $2 / 9 / 1990$ | $12.10 \%$ | $8.19 \%$ | $3.91 \%$ |
| $2 / 24 / 1990$ | $12.86 \%$ | $8.16 \%$ | $4.70 \%$ |
| $3 / 30 / 1990$ | $12.90 \%$ | $8.16 \%$ | $4.74 \%$ |
| $4 / 4 / 1990$ | $15.76 \%$ | $8.17 \%$ | $7.59 \%$ |
| $4 / 12 / 1990$ | $12.52 \%$ | $8.18 \%$ | $4.34 \%$ |
| $4 / 19 / 1990$ | $12.75 \%$ | $8.19 \%$ | $4.56 \%$ |
| $5 / 21 / 1990$ | $12.10 \%$ | $8.28 \%$ | $3.82 \%$ |
| $5 / 31 / 1990$ | $12.00 \%$ | $8.30 \%$ | $3.70 \%$ |
| $6 / 6 / 1990$ | $12.25 \%$ | $8.30 \%$ | $3.95 \%$ |
| $6 / 15 / 1990$ | $13.20 \%$ | $8.31 \%$ | $4.89 \%$ |
| $6 / 20 / 1990$ | $12.92 \%$ | $8.32 \%$ | $4.60 \%$ |
| $6 / 27 / 1990$ | $12.90 \%$ | $8.33 \%$ | $4.57 \%$ |
| $6 / 29 / 1990$ | $12.50 \%$ | $8.33 \%$ | $4.17 \%$ |
| $7 / 6 / 1990$ | $12.35 \%$ | $8.34 \%$ | $4.01 \%$ |
| $7 / 6 / 1990$ | $12.10 \%$ | $8.34 \%$ | $3.76 \%$ |
| $8 / 10 / 1990$ | $12.55 \%$ | $8.40 \%$ | $4.15 \%$ |
| $8 / 16 / 1990$ | $13.21 \%$ | $8.42 \%$ | $4.79 \%$ |
| $8 / 22 / 1990$ | $13.10 \%$ | $8.44 \%$ | $4.66 \%$ |
| $8 / 24 / 1990$ | $13.00 \%$ | $8.45 \%$ | $4.55 \%$ |
| $10 / 2 / 1990$ | $13.00 \%$ | $8.60 \%$ | $4.40 \%$ |
| $10 / 5 / 1990$ | $12.84 \%$ | $8.61 \%$ | $4.23 \%$ |
| $10 / 25 / 1990$ | $12.30 \%$ | $8.67 \%$ | $3.63 \%$ |
| $12 / 13 / 1990$ | $12.30 \%$ | $8.67 \%$ | $3.63 \%$ |
| $12 / 17 / 1990$ | $12.87 \%$ | $8.67 \%$ | $4.20 \%$ |
| $12 / 18 / 1990$ | $13.10 \%$ | $8.66 \%$ | $4.44 \%$ |
| $12 / 21 / 1990$ | $12.50 \%$ | $8.66 \%$ | $3.84 \%$ |
| $1 / 2 / 1991$ | $13.10 \%$ | $8.65 \%$ | $4.45 \%$ |
| $1 / 4 / 1991$ | $12.50 \%$ | $8.65 \%$ | $3.85 \%$ |
| $1 / 15 / 1991$ | $12.75 \%$ | $8.64 \%$ | $4.11 \%$ |
| $1 / 25 / 1991$ | $11.70 \%$ | $8.63 \%$ | $3.07 \%$ |
| $2 / 7 / 1991$ | $12.50 \%$ | $8.60 \%$ | $3.90 \%$ |
| $2 / 14 / 1991$ | $12.72 \%$ | $8.57 \%$ | $4.15 \%$ |
| $3 / 6 / 1991$ | $13.10 \%$ | $8.53 \%$ | $4.57 \%$ |
| $3 / 8 / 1991$ | $13.00 \%$ | $8.53 \%$ | $4.47 \%$ |
| $3 / 8 / 1991$ | $12.30 \%$ | $8.53 \%$ | $3.77 \%$ |
|  |  |  |  |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $4 / 22 / 1991$ | $13.00 \%$ | $8.49 \%$ | $4.51 \%$ |
| $5 / 7 / 1991$ | $13.50 \%$ | $8.47 \%$ | $5.03 \%$ |
| $5 / 13 / 1991$ | $13.25 \%$ | $8.47 \%$ | $4.78 \%$ |
| $5 / 30 / 1991$ | $12.75 \%$ | $8.45 \%$ | $4.30 \%$ |
| $6 / 12 / 1991$ | $12.00 \%$ | $8.42 \%$ | $3.58 \%$ |
| $6 / 25 / 1991$ | $11.70 \%$ | $8.40 \%$ | $3.30 \%$ |
| $7 / 1 / 1991$ | $12.00 \%$ | $8.39 \%$ | $3.61 \%$ |
| $7 / 19 / 1991$ | $12.10 \%$ | $8.35 \%$ | $3.75 \%$ |
| $8 / 1 / 1991$ | $12.90 \%$ | $8.33 \%$ | $4.57 \%$ |
| $8 / 16 / 1991$ | $13.20 \%$ | $8.30 \%$ | $4.90 \%$ |
| $10 / 17 / 1991$ | $13.00 \%$ | $8.21 \%$ | $4.79 \%$ |
| $10 / 23 / 1991$ | $12.50 \%$ | $8.20 \%$ | $4.30 \%$ |
| $10 / 31 / 1991$ | $11.80 \%$ | $8.19 \%$ | $3.61 \%$ |
| $11 / 1 / 1991$ | $12.00 \%$ | $8.19 \%$ | $3.81 \%$ |
| $11 / 5 / 1991$ | $12.25 \%$ | $8.19 \%$ | $4.06 \%$ |
| $11 / 12 / 1991$ | $12.50 \%$ | $8.18 \%$ | $4.32 \%$ |
| $11 / 12 / 1991$ | $13.25 \%$ | $8.18 \%$ | $5.07 \%$ |
| $11 / 25 / 1991$ | $12.40 \%$ | $8.17 \%$ | $4.23 \%$ |
| $11 / 26 / 1991$ | $12.50 \%$ | $8.17 \%$ | $4.33 \%$ |
| $11 / 26 / 1991$ | $11.60 \%$ | $8.17 \%$ | $3.43 \%$ |
| $11 / 27 / 1991$ | $12.10 \%$ | $8.17 \%$ | $3.93 \%$ |
| $12 / 18 / 1991$ | $12.25 \%$ | $8.15 \%$ | $4.10 \%$ |
| $12 / 19 / 1991$ | $12.60 \%$ | $8.15 \%$ | $4.45 \%$ |
| $12 / 19 / 1991$ | $12.80 \%$ | $8.15 \%$ | $4.65 \%$ |
| $12 / 20 / 1991$ | $12.65 \%$ | $8.14 \%$ | $4.51 \%$ |
| $1 / 9 / 1992$ | $12.80 \%$ | $8.09 \%$ | $4.71 \%$ |
| $1 / 27 / 1992$ | $12.65 \%$ | $8.06 \%$ | $4.59 \%$ |
| $1 / 31 / 1992$ | $12.00 \%$ | $8.05 \%$ | $3.95 \%$ |
| $2 / 11 / 1992$ | $12.40 \%$ | $8.03 \%$ | $4.37 \%$ |
| $2 / 25 / 1992$ | $12.50 \%$ | $8.02 \%$ | $4.48 \%$ |
| $3 / 16 / 1992$ | $11.43 \%$ | $7.99 \%$ | $3.44 \%$ |
| $3 / 18 / 1992$ | $12.28 \%$ | $7.99 \%$ | $4.29 \%$ |
| $4 / 2 / 1992$ | $12.10 \%$ | $7.96 \%$ | $4.14 \%$ |
| $4 / 9 / 1992$ | $11.45 \%$ | $7.95 \%$ | $3.50 \%$ |
| $4 / 10 / 1992$ | $11.50 \%$ | $7.94 \%$ | $3.56 \%$ |
| $5 / 5 / 1992$ | $11.50 \%$ | $7.90 \%$ | $3.60 \%$ |
| $5 / 12 / 1992$ | $12.46 \%$ | $7.89 \%$ | $4.57 \%$ |
| $5 / 12 / 1992$ | $11.87 \%$ | $7.89 \%$ | $3.98 \%$ |
| $6 / 1 / 1992$ | $12.30 \%$ | $7.87 \%$ | $4.43 \%$ |
| $6 / 12 / 1992$ | $10.90 \%$ | $7.86 \%$ | $3.04 \%$ |
| $6 / 26 / 1992$ | $12.35 \%$ | $7.85 \%$ | $4.50 \%$ |
| $6 / 29 / 1992$ | $11.00 \%$ | $7.85 \%$ | $3.15 \%$ |
| $6 / 30 / 1992$ | $13.00 \%$ | $7.85 \%$ | $5.15 \%$ |
| $7 / 13 / 1992$ | $11.90 \%$ | $7.84 \%$ | $4.06 \%$ |
| $7 / 22 / 1992$ | $11.20 \%$ | $7.83 \%$ | $3.37 \%$ |
| $8 / 3 / 1992$ | $12.00 \%$ | $7.81 \%$ | $4.19 \%$ |
| $8 / 6 / 1992$ | $12.50 \%$ | $7.80 \%$ | $4.70 \%$ |
| $9 / 22 / 1992$ | $12.00 \%$ | $7.72 \%$ | $4.28 \%$ |
| $9 / 30 / 1992$ | $11.75 \%$ | $7.70 \%$ | $4.05 \%$ |
| $10 / 2 / 1992$ | $13.00 \%$ | $7.70 \%$ | $5.30 \%$ |
| $10 / 16 / 1992$ | $13.16 \%$ | $7.70 \%$ | $5.46 \%$ |
| $12 / 3 / 1992$ | $11.85 \%$ | $7.68 \%$ | $4.17 \%$ |
| $12 / 15 / 1992$ | $11.00 \%$ | $7.67 \%$ | $3.33 \%$ |
| $12 / 16 / 1992$ | $11.90 \%$ | $7.67 \%$ | $4.24 \%$ |
| $12 / 16 / 1992$ | $12.40 \%$ | $7.67 \%$ | $4.74 \%$ |
| $12 / 17 / 1992$ | $12.00 \%$ | $7.66 \%$ | $4.34 \%$ |
| $12 / 22 / 1992$ | $12.40 \%$ | $7.65 \%$ | $4.75 \%$ |
| $12 / 22 / 1992$ | $12.30 \%$ | $7.65 \%$ | $4.65 \%$ |
| $12 / 29 / 1992$ | $12.25 \%$ | $7.64 \%$ | $4.61 \%$ |
| $1 / 12 / 1993$ | $12.00 \%$ | $7.61 \%$ | $4.39 \%$ |
| $1 / 21 / 1993$ | $11.25 \%$ | $7.59 \%$ | $3.66 \%$ |
| $2 / 15 / 1993$ | $12.30 \%$ | $7.53 \%$ | $4.77 \%$ |
| $2 / 24 / 1993$ | $11.90 \%$ | $7.50 \%$ | $4.40 \%$ |
|  |  |  |  |

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|  |  |  |  |
| ---: | ---: | ---: | ---: |
| $2 / 26 / 1993$ | $11.80 \%$ | $7.49 \%$ | $4.31 \%$ |
| $2 / 26 / 1993$ | $12.20 \%$ | $7.49 \%$ | $4.71 \%$ |
| $4 / 23 / 1993$ | $11.75 \%$ | $7.30 \%$ | $4.45 \%$ |
| $5 / 11 / 1993$ | $11.75 \%$ | $7.25 \%$ | $4.50 \%$ |
| $5 / 14 / 1993$ | $11.50 \%$ | $7.24 \%$ | $4.26 \%$ |
| $5 / 25 / 1993$ | $11.50 \%$ | $7.23 \%$ | $4.27 \%$ |
| $5 / 28 / 1993$ | $11.00 \%$ | $7.22 \%$ | $3.78 \%$ |
| $6 / 3 / 1993$ | $12.00 \%$ | $7.21 \%$ | $4.79 \%$ |
| $6 / 16 / 1993$ | $11.50 \%$ | $7.19 \%$ | $4.31 \%$ |
| $6 / 18 / 1993$ | $12.10 \%$ | $7.18 \%$ | $4.92 \%$ |
| $6 / 25 / 1993$ | $11.67 \%$ | $7.17 \%$ | $4.50 \%$ |
| $7 / 21 / 1993$ | $11.38 \%$ | $7.11 \%$ | $4.27 \%$ |
| $7 / 23 / 1993$ | $10.46 \%$ | $7.10 \%$ | $3.36 \%$ |
| $9 / 21 / 1993$ | $10.50 \%$ | $6.82 \%$ | $3.68 \%$ |
| $9 / 29 / 1993$ | $11.47 \%$ | $6.78 \%$ | $4.69 \%$ |
| $9 / 30 / 1993$ | $11.60 \%$ | $6.77 \%$ | $4.83 \%$ |
| $11 / 12 / 1993$ | $12.00 \%$ | $6.58 \%$ | $5.42 \%$ |
| $11 / 26 / 1993$ | $11.00 \%$ | $6.53 \%$ | $4.47 \%$ |
| $12 / 14 / 1993$ | $10.55 \%$ | $6.49 \%$ | $4.06 \%$ |
| $12 / 16 / 1993$ | $10.60 \%$ | $6.48 \%$ | $4.12 \%$ |
| $12 / 21 / 1993$ | $11.30 \%$ | $6.48 \%$ | $4.82 \%$ |
| $1 / 13 / 1994$ | $11.00 \%$ | $6.43 \%$ | $4.57 \%$ |
| $1 / 21 / 1994$ | $11.00 \%$ | $6.41 \%$ | $4.59 \%$ |
| $1 / 28 / 1994$ | $11.35 \%$ | $6.40 \%$ | $4.95 \%$ |
| $2 / 3 / 1994$ | $11.40 \%$ | $6.39 \%$ | $5.01 \%$ |
| $2 / 17 / 1994$ | $10.60 \%$ | $6.37 \%$ | $4.23 \%$ |
| $2 / 25 / 1994$ | $12.00 \%$ | $6.36 \%$ | $5.64 \%$ |
| $3 / 4 / 1994$ | $11.00 \%$ | $6.36 \%$ | $4.64 \%$ |
| $4 / 25 / 1994$ | $11.00 \%$ | $6.41 \%$ | $4.59 \%$ |
| $5 / 10 / 1994$ | $11.75 \%$ | $6.45 \%$ | $5.30 \%$ |
| $6 / 3 / 1994$ | $11.00 \%$ | $6.53 \%$ | $4.47 \%$ |
| $6 / 27 / 1994$ | $11.40 \%$ | $6.63 \%$ | $4.77 \%$ |
| $8 / 5 / 1994$ | $12.75 \%$ | $6.86 \%$ | $5.89 \%$ |
| $10 / 31 / 1994$ | $10.00 \%$ | $7.31 \%$ | $2.69 \%$ |
| $11 / 9 / 1994$ | $10.85 \%$ | $7.37 \%$ | $3.48 \%$ |
| $11 / 9 / 1994$ | $10.85 \%$ | $7.37 \%$ | $3.48 \%$ |
| $11 / 18 / 1994$ | $11.20 \%$ | $7.43 \%$ | $3.77 \%$ |
| $11 / 22 / 1994$ | $11.60 \%$ | $7.45 \%$ | $4.15 \%$ |
| $12 / 8 / 1994$ | $11.70 \%$ | $7.53 \%$ | $4.17 \%$ |
| $12 / 8 / 1994$ | $11.50 \%$ | $7.53 \%$ | $3.97 \%$ |
| $12 / 14 / 1994$ | $10.95 \%$ | $7.55 \%$ | $3.40 \%$ |
| $12 / 15 / 1994$ | $11.50 \%$ | $7.55 \%$ | $3.95 \%$ |
| $12 / 19 / 1994$ | $11.50 \%$ | $7.56 \%$ | $3.94 \%$ |
| $12 / 28 / 1994$ | $12.15 \%$ | $7.60 \%$ | $4.55 \%$ |
| $1 / 9 / 1995$ | $12.28 \%$ | $7.63 \%$ | $4.65 \%$ |
| $1 / 31 / 1995$ | $11.00 \%$ | $7.68 \%$ | $3.32 \%$ |
| $2 / 10 / 1995$ | $12.60 \%$ | $7.70 \%$ | $4.90 \%$ |
| $3 / 20 / 1995$ | $12.00 \%$ | $7.71 \%$ | $4.29 \%$ |
| $3 / 29 / 1995$ | $11.60 \%$ | $7.71 \%$ | $3.89 \%$ |
| $4 / 7 / 1995$ | $11.00 \%$ | $7.71 \%$ | $3.29 \%$ |
| $4 / 19 / 1995$ | $11.00 \%$ | $7.70 \%$ | $3.30 \%$ |
| $5 / 12 / 1995$ | $11.63 \%$ | $7.67 \%$ | $3.96 \%$ |
| $5 / 25 / 1995$ | $11.20 \%$ | $7.64 \%$ | $3.56 \%$ |
| $6 / 21 / 1995$ | $12.25 \%$ | $7.56 \%$ | $4.69 \%$ |
| $6 / 30 / 1995$ | $11.10 \%$ | $7.52 \%$ | $3.58 \%$ |
| $9 / 11 / 1995$ | $11.30 \%$ | $7.22 \%$ | $4.08 \%$ |
| $9 / 27 / 1995$ | $11.50 \%$ | $7.11 \%$ | $4.36 \%$ |
| $9 / 27 / 1995$ | $11.30 \%$ | $7.14 \%$ | $4.16 \%$ |
| $12 / 11 / 19995$ | $11.00 \%$ | $7.13 \%$ | $3.87 \%$ |
| $12 / 20 / 1995$ | $11.40 \%$ | $6.76 \%$ | $4.64 \%$ |
| $12 / 27 / 1995$ | $11.60 \%$ | $6.71 \%$ | $4.89 \%$ |
| $2 / 5 / 1996$ | $12.00 \%$ | $6.68 \%$ | $5.32 \%$ |
|  |  | $6.50 \%$ | $5.75 \%$ |

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| 4/8/1996 | 11.00\% | 6.42\% | 4.58\% |
| :---: | :---: | :---: | :---: |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 9/27/1996 | 11.00\% | 6.70\% | 4.30\% |
| 11/26/1996 | 11.30\% | 6.82\% | 4.48\% |
| 12/31/1996 | 11.50\% | 6.83\% | 4.67\% |
| 1/3/1997 | 10.70\% | 6.83\% | 3.87\% |
| 2/13/1997 | 11.80\% | 6.83\% | 4.97\% |
| 2/20/1997 | 11.80\% | 6.82\% | 4.98\% |
| 3/31/1997 | 10.02\% | 6.81\% | 3.21\% |
| 4/2/1997 | 11.65\% | 6.81\% | 4.84\% |
| 4/28/1997 | 11.50\% | 6.81\% | 4.69\% |
| 4/29/1997 | 11.70\% | 6.81\% | 4.89\% |
| 7/17/1997 | 12.00\% | 6.77\% | 5.23\% |
| 12/23/1997 | 11.12\% | 6.58\% | 4.54\% |
| 2/2/1998 | 12.75\% | 6.41\% | 6.34\% |
| 3/2/1998 | 11.25\% | 6.30\% | 4.95\% |
| 4/30/1998 | 12.20\% | 6.13\% | 6.07\% |
| 7/10/1998 | 11.40\% | 5.94\% | 5.46\% |
| 9/15/1998 | 11.90\% | 5.79\% | 6.11\% |
| 12/10/1998 | 12.20\% | 5.55\% | 6.65\% |
| 12/17/1998 | 12.10\% | 5.53\% | 6.57\% |
| 2/5/1999 | 10.30\% | 5.39\% | 4.91\% |
| 3/4/1999 | 10.50\% | 5.35\% | 5.15\% |
| 4/6/1999 | 10.94\% | 5.33\% | 5.61\% |
| 7/29/1999 | 10.75\% | 5.51\% | 5.24\% |
| 1/7/2000 | 11.50\% | 6.04\% | 5.46\% |
| 1/7/2000 | 11.50\% | 6.04\% | 5.46\% |
| 2/17/2000 | 10.60\% | 6.17\% | 4.43\% |
| 3/28/2000 | 11.25\% | 6.19\% | 5.06\% |
| 5/24/2000 | 11.00\% | 6.18\% | 4.82\% |
| 7/18/2000 | 12.20\% | 6.16\% | 6.04\% |
| 9/29/2000 | 11.16\% | 6.04\% | 5.12\% |
| 11/28/2000 | 12.90\% | 5.89\% | 7.01\% |
| 11/30/2000 | 12.10\% | 5.89\% | 6.21\% |
| 2/8/2001 | 11.50\% | 5.78\% | 5.72\% |
| 5/8/2001 | 10.75\% | 5.62\% | 5.13\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 9/10/2001 | 11.00\% | 5.55\% | 5.45\% |
| 9/20/2001 | 10.00\% | 5.55\% | 4.45\% |
| 12/3/2001 | 12.88\% | 5.49\% | 7.39\% |
| 12/20/2001 | 12.50\% | 5.49\% | 7.01\% |
| 3/27/2002 | 10.10\% | 5.45\% | 4.65\% |
| 4/22/2002 | 11.80\% | 5.45\% | 6.35\% |
| 5/28/2002 | 10.17\% | 5.46\% | 4.71\% |
| 6/10/2002 | 12.00\% | 5.47\% | 6.53\% |
| 6/20/2002 | 12.30\% | 5.47\% | 6.83\% |
| 7/15/2002 | 11.00\% | 5.47\% | 5.53\% |
| 9/12/2002 | 12.30\% | 5.45\% | 6.85\% |
| 9/26/2002 | 10.45\% | 5.41\% | 5.04\% |
| 1/31/2003 | 12.45\% | 5.14\% | 7.31\% |
| 2/28/2003 | 12.30\% | 5.06\% | 7.24\% |
| 3/6/2003 | 10.75\% | 5.04\% | 5.71\% |
| 3/7/2003 | 9.96\% | 5.03\% | 4.93\% |
| 3/20/2003 | 12.00\% | 5.00\% | 7.00\% |
| 4/3/2003 | 12.00\% | 4.97\% | 7.03\% |
| 4/15/2003 | 11.15\% | 4.95\% | 6.20\% |
| 7/16/2003 | 9.75\% | 4.79\% | 4.96\% |
| 12/17/2003 | 9.85\% | 4.93\% | 4.92\% |
| 12/19/2003 | 12.00\% | 4.93\% | 7.07\% |
| 12/19/2003 | 12.00\% | 4.93\% | 7.07\% |
| 1/13/2004 | 12.00\% | 4.95\% | 7.05\% |

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| $3 / 2 / 2004$ | $10.75 \%$ | $4.97 \%$ | $5.78 \%$ |
| ---: | :---: | :---: | :---: |
| $3 / 26 / 2004$ | $10.25 \%$ | $5.01 \%$ | $5.24 \%$ |
| $4 / 5 / 2004$ | $11.25 \%$ | $5.02 \%$ | $6.23 \%$ |
| $5 / 18 / 2004$ | $10.50 \%$ | $5.08 \%$ | $5.42 \%$ |
| $5 / 25 / 2004$ | $10.25 \%$ | $5.08 \%$ | $5.17 \%$ |
| $7 / 16 / 2004$ | $11.60 \%$ | $5.11 \%$ | $6.49 \%$ |
| $9 / 9 / 2004$ | $10.40 \%$ | $5.10 \%$ | $5.30 \%$ |
| $11 / 23 / 2004$ | $11.00 \%$ | $5.06 \%$ | $5.94 \%$ |
| $12 / 21 / 2004$ | $11.50 \%$ | $5.06 \%$ | $6.44 \%$ |
| $12 / 22 / 2004$ | $10.70 \%$ | $5.06 \%$ | $5.64 \%$ |
| $12 / 22 / 2004$ | $11.50 \%$ | $5.06 \%$ | $6.44 \%$ |
| $2 / 18 / 2005$ | $10.30 \%$ | $4.99 \%$ | $5.31 \%$ |
| $3 / 10 / 2005$ | $11.00 \%$ | $4.94 \%$ | $6.06 \%$ |
| $4 / 4 / 2005$ | $10.00 \%$ | $4.89 \%$ | $5.11 \%$ |
| $7 / 19 / 2005$ | $11.50 \%$ | $4.65 \%$ | $6.85 \%$ |
| $8 / 5 / 2005$ | $11.75 \%$ | $4.63 \%$ | $7.12 \%$ |
| $12 / 12 / 2005$ | $11.00 \%$ | $4.55 \%$ | $6.45 \%$ |
| $12 / 13 / 2005$ | $10.75 \%$ | $4.55 \%$ | $6.20 \%$ |
| $12 / 22 / 2005$ | $11.15 \%$ | $4.55 \%$ | $6.60 \%$ |
| $12 / 22 / 2005$ | $11.00 \%$ | $4.55 \%$ | $6.45 \%$ |
| $12 / 28 / 2005$ | $10.00 \%$ | $4.54 \%$ | $5.46 \%$ |
| $12 / 28 / 2005$ | $10.00 \%$ | $4.54 \%$ | $5.46 \%$ |
| $1 / 5 / 2006$ | $11.00 \%$ | $4.54 \%$ | $6.46 \%$ |
| $1 / 27 / 2006$ | $9.75 \%$ | $4.52 \%$ | $5.23 \%$ |
| $4 / 17 / 2006$ | $10.20 \%$ | $4.61 \%$ | $5.59 \%$ |
| $4 / 26 / 2006$ | $10.60 \%$ | $4.64 \%$ | $5.96 \%$ |
| $5 / 17 / 2006$ | $11.60 \%$ | $4.69 \%$ | $6.91 \%$ |
| $6 / 6 / 2006$ | $10.00 \%$ | $4.74 \%$ | $5.26 \%$ |
| $7 / 28 / 2006$ | $10.05 \%$ | $4.86 \%$ | $5.19 \%$ |
| $8 / 23 / 2006$ | $9.55 \%$ | $4.88 \%$ | $4.67 \%$ |
| $9 / 1 / 2006$ | $10.54 \%$ | $4.89 \%$ | $5.65 \%$ |
| $11 / 21 / 2006$ | $10.08 \%$ | $4.94 \%$ | $5.14 \%$ |
| $11 / 21 / 2006$ | $10.08 \%$ | $4.94 \%$ | $5.14 \%$ |
| $11 / 21 / 2006$ | $10.12 \%$ | $4.94 \%$ | $5.18 \%$ |
| $12 / 21 / 2006$ | $10.90 \%$ | $4.95 \%$ | $5.95 \%$ |
| $12 / 21 / 2006$ | $11.25 \%$ | $4.95 \%$ | $6.30 \%$ |
| $1 / 11 / 2007$ | $10.10 \%$ | $4.95 \%$ | $5.15 \%$ |
| $1 / 11 / 2007$ | $10.10 \%$ | $4.95 \%$ | $5.15 \%$ |
| $1 / 11 / 2007$ | $10.90 \%$ | $4.95 \%$ | $5.95 \%$ |
| $1 / 12 / 2007$ | $10.10 \%$ | $4.95 \%$ | $5.15 \%$ |
| $1 / 13 / 2007$ | $10.40 \%$ | $4.95 \%$ | $5.45 \%$ |
| $1 / 19 / 2007$ | $10.80 \%$ | $4.95 \%$ | $5.85 \%$ |
| $5 / 15 / 2007$ | $10.00 \%$ | $4.81 \%$ | $5.19 \%$ |
| $5 / 17 / 2007$ | $10.25 \%$ | $4.81 \%$ | $5.44 \%$ |
| $5 / 17 / 2007$ | $10.25 \%$ | $4.81 \%$ | $5.44 \%$ |
| $5 / 22 / 2007$ | $10.20 \%$ | $4.81 \%$ | $5.39 \%$ |
| $5 / 22 / 2007$ | $10.50 \%$ | $4.81 \%$ | $5.69 \%$ |
| $5 / 23 / 2007$ | $10.70 \%$ | $4.81 \%$ | $5.89 \%$ |
| $6 / 15 / 2007$ | $9.90 \%$ | $4.82 \%$ | $5.08 \%$ |
| $6 / 21 / 2007$ | $10.20 \%$ | $4.83 \%$ | $5.37 \%$ |
| $6 / 28 / 2007$ | $10.75 \%$ | $4.84 \%$ | $5.91 \%$ |
| $7 / 19 / 2007$ | $10.00 \%$ | $4.87 \%$ | $5.13 \%$ |
| $7 / 19 / 2007$ | $10.00 \%$ | $4.87 \%$ | $5.13 \%$ |
| $10 / 9 / 2007$ | $10.00 \%$ | $4.91 \%$ | $5.09 \%$ |
| $10 / 17 / 2007$ | $9.10 \%$ | $4.91 \%$ | $4.19 \%$ |
| $10 / 31 / 2007$ | $9.96 \%$ | $4.90 \%$ | $5.06 \%$ |
| $12 / 6 / 2007$ | $10.75 \%$ | $4.86 \%$ | $5.89 \%$ |
| $12 / 13 / 2007$ | $9.96 \%$ | $4.85 \%$ | $5.11 \%$ |
| $12 / 14 / 2007$ | $10.80 \%$ | $4.85 \%$ | $5.95 \%$ |
| $1 / 8 / 2008$ | $10.75 \%$ | $4.83 \%$ | $5.92 \%$ |
| $1 / 17 / 2008$ | $10.75 \%$ | $4.82 \%$ | $5.93 \%$ |
| $1 / 28 / 2008$ | $9.40 \%$ | $4.80 \%$ | $4.60 \%$ |
| $1 / 30 / 2008$ | $10.00 \%$ | $4.79 \%$ | $5.21 \%$ |
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| ---: | :---: | :---: | :---: |
| $2 / 29 / 2008$ | $10.25 \%$ | $4.75 \%$ | $5.50 \%$ |
| $3 / 25 / 2008$ | $9.10 \%$ | $4.70 \%$ | $4.40 \%$ |
| $4 / 24 / 2008$ | $10.10 \%$ | $4.61 \%$ | $5.49 \%$ |
| $5 / 19 / 2008$ | $11.00 \%$ | $4.57 \%$ | $6.43 \%$ |
| $5 / 27 / 2008$ | $10.00 \%$ | $4.56 \%$ | $5.44 \%$ |
| $6 / 10 / 2008$ | $10.70 \%$ | $4.55 \%$ | $6.15 \%$ |
| $6 / 27 / 2008$ | $11.04 \%$ | $4.55 \%$ | $6.49 \%$ |
| $7 / 10 / 2008$ | $10.43 \%$ | $4.53 \%$ | $5.90 \%$ |
| $7 / 30 / 2008$ | $10.80 \%$ | $4.51 \%$ | $6.29 \%$ |
| $8 / 11 / 2008$ | $10.25 \%$ | $4.51 \%$ | $5.74 \%$ |
| $8 / 26 / 2008$ | $10.18 \%$ | $4.50 \%$ | $5.68 \%$ |
| $9 / 24 / 2008$ | $10.65 \%$ | $4.48 \%$ | $6.17 \%$ |
| $9 / 24 / 2008$ | $10.65 \%$ | $4.48 \%$ | $6.17 \%$ |
| $9 / 24 / 2008$ | $10.65 \%$ | $4.48 \%$ | $6.17 \%$ |
| $12 / 23 / 2008$ | $11.00 \%$ | $4.27 \%$ | $6.73 \%$ |
| $12 / 29 / 2008$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $1 / 14 / 2009$ | $10.50 \%$ | $4.15 \%$ | $6.35 \%$ |
| $1 / 21 / 2009$ | $10.50 \%$ | $4.12 \%$ | $6.38 \%$ |
| $1 / 21 / 2009$ | $10.50 \%$ | $4.12 \%$ | $6.38 \%$ |
| $1 / 21 / 2009$ | $10.50 \%$ | $4.12 \%$ | $6.38 \%$ |
| $1 / 27 / 2009$ | $10.76 \%$ | $4.10 \%$ | $6.66 \%$ |
| $1 / 30 / 2009$ | $10.50 \%$ | $4.08 \%$ | $6.42 \%$ |
| $2 / 4 / 2009$ | $8.75 \%$ | $4.07 \%$ | $4.68 \%$ |
| $3 / 12 / 2009$ | $11.50 \%$ | $3.95 \%$ | $7.55 \%$ |
| $4 / 24 / 2009$ | $10.00 \%$ | $3.80 \%$ | $6.20 \%$ |
| $4 / 30 / 2009$ | $11.25 \%$ | $3.79 \%$ | $7.46 \%$ |
| $5 / 4 / 2009$ | $10.74 \%$ | $3.79 \%$ | $6.95 \%$ |
| $6 / 22 / 2009$ | $10.00 \%$ | $3.77 \%$ | $6.23 \%$ |
| $6 / 24 / 2009$ | $10.80 \%$ | $3.77 \%$ | $7.03 \%$ |
| $8 / 31 / 2009$ | $10.25 \%$ | $3.82 \%$ | $6.43 \%$ |
| $10 / 23 / 2009$ | $10.88 \%$ | $4.03 \%$ | $6.85 \%$ |
| $11 / 2 / 2009$ | $10.70 \%$ | $4.08 \%$ | $6.62 \%$ |
| $11 / 30 / 2009$ | $10.35 \%$ | $4.15 \%$ | $6.20 \%$ |
| $12 / 18 / 2009$ | $10.40 \%$ | $4.21 \%$ | $6.19 \%$ |
| $12 / 18 / 2009$ | $10.40 \%$ | $4.21 \%$ | $6.19 \%$ |
| $12 / 22 / 2009$ | $10.20 \%$ | $4.22 \%$ | $5.98 \%$ |
| $12 / 22 / 2009$ | $10.40 \%$ | $4.22 \%$ | $6.18 \%$ |
| $12 / 22 / 2009$ | $10.40 \%$ | $4.22 \%$ | $6.18 \%$ |
| $12 / 30 / 2009$ | $10.00 \%$ | $4.25 \%$ | $5.75 \%$ |
| $1 / 4 / 2010$ | $10.80 \%$ | $4.26 \%$ | $6.54 \%$ |
| $1 / 11 / 2010$ | $11.00 \%$ | $4.29 \%$ | $6.71 \%$ |
| $2 / 9 / 2010$ | $9.80 \%$ | $4.37 \%$ | $5.43 \%$ |
| $2 / 18 / 2010$ | $10.60 \%$ | $4.39 \%$ | $6.21 \%$ |
| $3 / 2 / 2010$ | $9.63 \%$ | $4.41 \%$ | $5.22 \%$ |
| $4 / 2 / 2010$ | $10.10 \%$ | $4.43 \%$ | $5.67 \%$ |
| $4 / 27 / 2010$ | $10.00 \%$ | $4.46 \%$ | $5.54 \%$ |
| $4 / 29 / 2010$ | $9.90 \%$ | $4.46 \%$ | $5.44 \%$ |
| $4 / 29 / 2010$ | $10.06 \%$ | $4.46 \%$ | $5.60 \%$ |
| $4 / 29 / 2010$ | $10.26 \%$ | $4.46 \%$ | $5.80 \%$ |
| $5 / 28 / 2010$ | $10.10 \%$ | $4.44 \%$ | $5.66 \%$ |
| $6 / 30 / 2010$ | $9.40 \%$ | $4.43 \%$ | $4.97 \%$ |
| $7 / 1 / 2010$ | $10.25 \%$ | $4.42 \%$ | $5.83 \%$ |
| $7 / 15 / 2010$ | $10.53 \%$ | $4.42 \%$ | $6.11 \%$ |
| $8 / 2 / 2010$ | $9.83 \%$ | $4.41 \%$ | $5.42 \%$ |
| $8 / 25 / 2010$ | $9.90 \%$ | $4.37 \%$ | $5.53 \%$ |
| $9 / 10 / 2010$ | $9.75 \%$ | $4.29 \%$ | $5.46 \%$ |
| $11 / 2 / 2010$ | $10.38 \%$ | $4.21 \%$ | $6.17 \%$ |
| $11 / 4 / 2010$ | $10.70 \%$ | $4.20 \%$ | $6.50 \%$ |
| $11 / 22 / 2010$ | $10.00 \%$ | $4.18 \%$ | $5.82 \%$ |
| $12 / 6 / 2010$ | $9.86 \%$ | $4.16 \%$ | $5.70 \%$ |
| $12 / 15 / 2010$ | $10.44 \%$ | $4.16 \%$ | $6.28 \%$ |
| $12 / 20 / 2010$ | $10.60 \%$ | $4.16 \%$ | $6.44 \%$ |
| $12 / 27 / 2010$ | $9.90 \%$ | $4.15 \%$ | $5.75 \%$ |
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|  |  |  |  |
| ---: | :---: | :---: | :---: |
| $1 / 12 / 2011$ | $10.30 \%$ | $4.14 \%$ | $6.16 \%$ |
| $1 / 13 / 2011$ | $10.30 \%$ | $4.14 \%$ | $6.16 \%$ |
| $1 / 18 / 2011$ | $10.00 \%$ | $4.13 \%$ | $5.87 \%$ |
| $1 / 20 / 2011$ | $9.30 \%$ | $4.13 \%$ | $5.17 \%$ |
| $1 / 31 / 2011$ | $9.60 \%$ | $4.13 \%$ | $5.47 \%$ |
| $2 / 3 / 2011$ | $10.00 \%$ | $4.13 \%$ | $5.87 \%$ |
| $3 / 25 / 2011$ | $9.80 \%$ | $4.18 \%$ | $5.62 \%$ |
| $4 / 12 / 2011$ | $10.00 \%$ | $4.20 \%$ | $5.80 \%$ |
| $4 / 25 / 2011$ | $10.74 \%$ | $4.23 \%$ | $6.51 \%$ |
| $4 / 27 / 2011$ | $10.40 \%$ | $4.23 \%$ | $6.17 \%$ |
| $5 / 4 / 2011$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $5 / 4 / 2011$ | $10.00 \%$ | $4.24 \%$ | $5.76 \%$ |
| $5 / 24 / 2011$ | $10.50 \%$ | $4.26 \%$ | $6.24 \%$ |
| $6 / 16 / 2011$ | $9.20 \%$ | $4.30 \%$ | $4.90 \%$ |
| $7 / 13 / 2011$ | $10.20 \%$ | $4.35 \%$ | $5.85 \%$ |
| $8 / 1 / 2011$ | $9.20 \%$ | $4.38 \%$ | $4.82 \%$ |
| $8 / 12 / 2011$ | $10.35 \%$ | $4.37 \%$ | $5.98 \%$ |
| $9 / 2 / 2011$ | $12.88 \%$ | $4.32 \%$ | $8.56 \%$ |
| $10 / 20 / 2011$ | $10.50 \%$ | $4.11 \%$ | $6.39 \%$ |
| $11 / 30 / 2011$ | $10.90 \%$ | $3.89 \%$ | $7.01 \%$ |
| $11 / 30 / 2011$ | $10.90 \%$ | $3.89 \%$ | $7.01 \%$ |
| $12 / 22 / 2011$ | $9.90 \%$ | $3.76 \%$ | $6.14 \%$ |
| $12 / 22 / 2011$ | $10.40 \%$ | $3.76 \%$ | $6.64 \%$ |
| $12 / 23 / 2011$ | $10.19 \%$ | $3.76 \%$ | $6.43 \%$ |
| $2 / 27 / 2012$ | $10.25 \%$ | $3.44 \%$ | $6.81 \%$ |
| $5 / 7 / 2012$ | $9.80 \%$ | $3.19 \%$ | $6.61 \%$ |
| $5 / 29 / 2012$ | $10.05 \%$ | $3.11 \%$ | $6.94 \%$ |
| $6 / 7 / 2012$ | $10.30 \%$ | $3.09 \%$ | $7.21 \%$ |
| $6 / 15 / 2012$ | $10.40 \%$ | $3.06 \%$ | $7.34 \%$ |
| $6 / 19 / 2012$ | $9.25 \%$ | $3.06 \%$ | $6.19 \%$ |
| $6 / 26 / 2012$ | $10.10 \%$ | $3.04 \%$ | $7.06 \%$ |
| $7 / 20 / 2012$ | $9.81 \%$ | $3.01 \%$ | $6.80 \%$ |
| $7 / 20 / 2012$ | $9.31 \%$ | $3.01 \%$ | $6.30 \%$ |
| $9 / 13 / 2012$ | $9.80 \%$ | $2.94 \%$ | $6.86 \%$ |
| $9 / 19 / 2012$ | $10.05 \%$ | $2.94 \%$ | $7.11 \%$ |
| $9 / 26 / 2012$ | $9.50 \%$ | $2.94 \%$ | $6.56 \%$ |
| $11 / 9 / 2012$ | $10.30 \%$ | $2.92 \%$ | $7.38 \%$ |
| $11 / 28 / 2012$ | $10.40 \%$ | $2.90 \%$ | $7.50 \%$ |
| $12 / 5 / 2012$ | $9.71 \%$ | $2.89 \%$ | $6.82 \%$ |
| $12 / 5 / 2012$ | $10.40 \%$ | $2.89 \%$ | $7.51 \%$ |
| $12 / 12 / 2012$ | $9.80 \%$ | $2.89 \%$ | $6.91 \%$ |
| $12 / 13 / 2012$ | $9.50 \%$ | $2.89 \%$ | $6.61 \%$ |
| $12 / 14 / 2012$ | $10.40 \%$ | $2.88 \%$ | $7.52 \%$ |
| $12 / 19 / 2012$ | $9.71 \%$ | $2.88 \%$ | $6.83 \%$ |
| $12 / 20 / 2012$ | $10.40 \%$ | $2.88 \%$ | $7.52 \%$ |
| $12 / 20 / 2012$ | $10.30 \%$ | $2.88 \%$ | $7.42 \%$ |
| $12 / 20 / 2012$ | $10.45 \%$ | $2.88 \%$ | $7.57 \%$ |
| $12 / 21 / 2012$ | $10.20 \%$ | $2.88 \%$ | $7.32 \%$ |
| $2 / 13 / 2013$ | $10.20 \%$ | $2.85 \%$ | $7.35 \%$ |
| $2 / 22 / 2013$ | $9.75 \%$ | $2.85 \%$ | $6.90 \%$ |
| $7 / 12 / 2013$ | $9.36 \%$ | $3.07 \%$ | $6.29 \%$ |
| $8 / 8 / 2013$ | $9.33 \%$ | $3.14 \%$ | $6.69 \%$ |
| $8 / 14 / 2013$ | $9.15 \%$ | $3.15 \%$ | $6.00 \%$ |
| $10 / 3 / 2013$ | $9.65 \%$ | $3.32 \%$ | $6.33 \%$ |
| $11 / 6 / 2013$ | $10.20 \%$ | $3.40 \%$ | $6.80 \%$ |
| $11 / 26 / 2013$ | $10.00 \%$ | $3.45 \%$ | $6.55 \%$ |
| $12 / 1 / 2013$ | $9.50 \%$ | $3.47 \%$ | $6.03 \%$ |
| $12 / / 2013$ | $10.20 \%$ | $3.47 \%$ | $6.73 \%$ |
| $12 / 9 / 2013$ | $8.72 \%$ | $3.48 \%$ | $5.24 \%$ |
| $12 / 13 / 2013$ | $9.75 \%$ | $3.49 \%$ | $6.26 \%$ |
| $12 / 1 / 2013$ | $10.12 \%$ | $3.50 \%$ | $6.62 \%$ |
| $12 / 18 / 2013$ | $8.72 \%$ | $3.50 \%$ | $5.22 \%$ |
| $12 / 30 / 2013$ | $9.50 \%$ | $3.53 \%$ | $5.97 \%$ |
|  |  |  |  |

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|  |  |  |  |
| ---: | :---: | :---: | :---: |
| $3 / 26 / 2014$ | $9.40 \%$ | $3.72 \%$ | $5.68 \%$ |
| $3 / 26 / 2014$ | $9.96 \%$ | $3.72 \%$ | $6.24 \%$ |
| $4 / 2 / 2014$ | $9.70 \%$ | $3.72 \%$ | $5.98 \%$ |
| $5 / 30 / 2014$ | $9.70 \%$ | $3.68 \%$ | $6.02 \%$ |
| $6 / 6 / 2014$ | $10.40 \%$ | $3.67 \%$ | $6.73 \%$ |
| $7 / 2 / 2014$ | $9.62 \%$ | $3.64 \%$ | $5.98 \%$ |
| $11 / 6 / 2014$ | $9.56 \%$ | $3.38 \%$ | $6.18 \%$ |
| $11 / 6 / 2014$ | $10.20 \%$ | $3.38 \%$ | $6.82 \%$ |
| $11 / 14 / 2014$ | $10.20 \%$ | $3.36 \%$ | $6.84 \%$ |
| $11 / 26 / 2014$ | $9.70 \%$ | $3.33 \%$ | $6.37 \%$ |
| $11 / 26 / 2014$ | $10.20 \%$ | $3.33 \%$ | $6.87 \%$ |
| $12 / 10 / 2014$ | $9.25 \%$ | $3.30 \%$ | $5.95 \%$ |
| $12 / 10 / 2014$ | $9.25 \%$ | $3.30 \%$ | $5.95 \%$ |
| $12 / 12 / 2014$ | $10.20 \%$ | $3.29 \%$ | $6.91 \%$ |
| $12 / 17 / 2014$ | $9.17 \%$ | $3.28 \%$ | $5.89 \%$ |
| $12 / 18 / 2014$ | $9.83 \%$ | $3.27 \%$ | $6.56 \%$ |
| $1 / 23 / 2015$ | $9.50 \%$ | $3.15 \%$ | $6.35 \%$ |
| $3 / 18 / 2015$ | $9.75 \%$ | $2.99 \%$ | $6.76 \%$ |
| $3 / 25 / 2015$ | $9.50 \%$ | $2.97 \%$ | $6.53 \%$ |
| $3 / 26 / 2015$ | $9.72 \%$ | $2.96 \%$ | $6.76 \%$ |
| $4 / 29 / 2015$ | $9.53 \%$ | $2.87 \%$ | $6.66 \%$ |
| $5 / 26 / 2015$ | $9.75 \%$ | $2.84 \%$ | $6.91 \%$ |
| $9 / 2 / 2015$ | $9.50 \%$ | $2.79 \%$ | $6.71 \%$ |
| $9 / 10 / 2015$ | $9.30 \%$ | $2.79 \%$ | $6.51 \%$ |
| $11 / 19 / 2015$ | $10.30 \%$ | $2.87 \%$ | $7.43 \%$ |
| $11 / 19 / 2015$ | $10.00 \%$ | $2.87 \%$ | $7.13 \%$ |
| $12 / 3 / 2015$ | $10.00 \%$ | $2.89 \%$ | $7.11 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 11 / 2015$ | $10.30 \%$ | $2.90 \%$ | $7.40 \%$ |
| $12 / 17 / 2015$ | $9.70 \%$ | $2.90 \%$ | $6.80 \%$ |
| $12 / 30 / 2015$ | $9.50 \%$ | $2.92 \%$ | $6.58 \%$ |
| $3 / 16 / 2016$ | $9.85 \%$ | $2.91 \%$ | $6.94 \%$ |
| $4 / 29 / 2016$ | $9.80 \%$ | $2.84 \%$ | $6.96 \%$ |
| $6 / 3 / 2016$ | $9.75 \%$ | $2.80 \%$ | $6.95 \%$ |
| $6 / 8 / 2016$ | $9.48 \%$ | $2.80 \%$ | $6.68 \%$ |
|  |  |  |  |
|  |  | \# of $C a s e s:$ | 1.102 |
|  |  | Average: | $4.22 \%$ |
|  |  |  |  |

Implied Return on Equity with M/B Ratio at Unity

| Institution Name | Ticker | ROACE (\%) | Price/ Book (\%) |
| :--- | :--- | ---: | ---: |
|  |  | 2015 | 2015 |
| ALLETE, Inc. | ALE | 7.97 | 137.0 |
| Alliant Energy Corporation | LNT | 10.40 | 190.3 |
| Ameren Corporation | AEE | 9.23 | 151.0 |
| American Electric Power Company, Inc. AEP | 11.74 | 159.9 |  |
| Avista Corporation | AVA | 8.17 | 144.2 |
| Black Hills Corporation | BKH | N/A | 162.1 |
| CMS Energy Corporation | CMS | 13.65 | 253.9 |
| Consolidated Edison, Inc. | ED | 9.28 | 144.3 |
| Dominion Resources, Inc. | D | 15.46 | 318.5 |
| Duke Energy Corporation | DUK | 7.01 | 123.7 |
| Edison International | EIX | 9.03 | 169.7 |
| EI Paso Electric Company | EE | 8.21 | 153.2 |
| Entergy Corporation | ETR | $\mathrm{N} / \mathrm{A}$ | 131.7 |
| Eversource Energy | ES | 8.62 | 156.5 |
| FirstEnergy Corp. | FE | 4.63 | 108.2 |
| IDACORP, Inc. | IDA | 9.72 | 166.3 |
| MGE Energy, Inc. | MGEE | 10.56 | 233.0 |
| NextEra Energy, Inc. | NEE | 12.93 | 212.2 |
| NorthWestern Corporation | NWE | 9.95 | 163.3 |
| OGE Energy Corp. | OGE | 8.24 | 157.9 |
| Otter Tail Corporation | OTTR | 10.05 | 166.6 |
| PG\&E Corporation | PCG | 5.42 | 157.9 |
| Pinnacle West Capital Corporation | PNW | 9.76 | 156.1 |
| PNM Resources, Inc. | PNM | 0.91 | 147.1 |
| Portland General Electric Company | POR | 8.12 | 143.0 |
| SCANA Corporation | SCG | 14.00 | 158.8 |
| Southern Company | SO | 11.67 | 207.2 |
| WEC Energy Group, Inc. | WEC | 9.08 | 187.2 |
| Xcel Energy Inc. | XEL | 9.50 | 171.9 |
|  |  |  |  |

Source: SNL Financial

Implied Return on Equity with M/B Ratio at Unity

## SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.696375 |
| R Square | 0.484938 |
| Adjusted R Square | 0.464336 |
| Standard Error | 31.472311 |
| Observations | 27 |

ANOVA

|  | $d f$ | SS | $M S$ | $F$ | Significance $F$ |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Regression | 1 | 23314.418992 | 23314.418992 | 23.537879 | 0.000055 |  |
| Residual | 25 | 24762.658747 | 990.506350 |  |  |  |
| Total | 26 | 48077.077739 |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Intercept | 76.870997 | 20.484734 | 3.752599 | 0.000933 | 34.681898 | 119.060097 |
| ROACE (\%) | 10.119661 | 2.085846 | 4.851585 | 0.000055 | 5.823780 | 14.415542 |


| ROE (\%) | PRICE/BOOK |
| :---: | :---: |
| 2.29 | 100.00 |
| 3.27 | 110.00 |

Docket No. 160021-EI
Sponsored by Robert B. Hevert
Exhibit RBH-26, Page 1 of 3
Constant Growth Discounted Cash Flow Model and Credit Rating Regression
30 Day Dividend Yield

|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | $\begin{gathered} \text { Dividend } \\ \text { Yield } \\ \hline \end{gathered}$ | Expected <br> Dividend Yield | Yahoo Earnings Growth | Reuters <br> Earnings <br> Growth | Zacks <br> Earnings <br> Growth | Average Earnings Growth | $\begin{aligned} & \text { Mean } \\ & \text { ROE } \\ & \hline \end{aligned}$ | S\&P <br> Issuer <br> Credit <br> Rating | Numeric Credit Score |
| ALLETE, Inc. | ALE | 3.70\% | 3.77\% | 3.00\% | NA | 4.50\% | 3.75\% | 7.52\% | BBB + | 5 |
| Alliant Energy Corporation | LNT | 3.30\% | 3.41\% | 6.60\% | 6.60\% | 6.10\% | 6.43\% | 9.84\% | A- | 4 |
| Ameren Corporation | AEE | 3.50\% | 3.60\% | 5.20\% | 5.20\% | 6.10\% | 5.50\% | 9.10\% | BBB+ | 5 |
| American Electric Power Company, Inc. | AEP | 3.50\% | 3.58\% | 4.10\% | 4.10\% | 4.90\% | 4.37\% | 7.94\% | BBB | 6 |
| Avista Corporation | AVA | 3.40\% | 3.49\% | 5.00\% | NA | 5.00\% | 5.00\% | 8.49\% | BBB | 6 |
| Black Hills Corporation | BKH | 2.80\% | 2.89\% | 6.50\% | NA | 6.50\% | 6.50\% | 9.39\% | BBB | 6 |
| CMS Energy Corporation | CMS | 3.00\% | 3.10\% | 7.20\% | 7.20\% | 6.40\% | 6.93\% | 10.04\% | BBB + | 5 |
| Consolidated Edison, Inc. | ED | 3.70\% | 3.74\% | 1.90\% | 1.90\% | 2.30\% | 2.03\% | 5.77\% | A- | 4 |
| Dominion Resources, Inc. | D | 4.00\% | 4.12\% | 5.90\% | 5.90\% | 6.80\% | 6.20\% | 10.32\% | BBB + | 5 |
| Duke Energy Corporation | DUK | 4.20\% | 4.30\% | 4.60\% | 4.60\% | 4.80\% | 4.67\% | 8.96\% | A- | 4 |
| Edison International | EIX | 2.70\% | 2.74\% | 2.50\% | 2.50\% | 4.90\% | 3.30\% | 6.04\% | BBB+ | 5 |
| El Paso Electric Company | EE | 2.80\% | 2.90\% | 7.00\% | NA | 6.70\% | 6.85\% | 9.75\% | BBB | 6 |
| Entergy Corporation | ETR | 4.50\% | 4.45\% | -2.40\% | -2.40\% | -2.30\% | -2.37\% | 2.08\% | BBB | 6 |
| Eversource Energy | ES | 3.20\% | 3.30\% | 6.30\% | 6.30\% | 6.30\% | 6.30\% | 9.60\% | A | 3 |
| FirstEnergy Corp. | FE | 4.30\% | 4.26\% | -2.50\% | -2.50\% | -1.00\% | -2.00\% | 2.26\% | BBB- | 7 |
| IDACORP, Inc. | IDA | 2.80\% | 2.86\% | 4.00\% | 4.00\% | 4.00\% | 4.00\% | 6.86\% | BBB | 6 |
| MGE Energy, Inc. | MGEE | 2.30\% | 2.35\% | 4.00\% | NA | NA | 4.00\% | 6.35\% | AA- | 1 |
| NextEra Energy, Inc. | NEE | 2.90\% | 3.00\% | 7.40\% | 7.40\% | 6.90\% | 7.23\% | 10.24\% | A- | 4 |
| NorthWestern Corporation | NWE | 3.50\% | 3.59\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.59\% | BBB | 6 |
| OGE Energy Corp. | OGE | 3.70\% | 3.79\% | 4.30\% | 4.30\% | 5.20\% | 4.60\% | 8.39\% | A- | 4 |
| Otter Tail Corporation | OTTR | 4.30\% | 4.43\% | 6.00\% | NA | NA | 6.00\% | 10.43\% | BBB | 6 |
| PG\&E Corporation | PCG | 3.30\% | 3.40\% | 6.10\% | 6.10\% | 5.10\% | 5.77\% | 9.16\% | BBB | 6 |
| Pinnacle West Capital Corporation | PNW | 3.40\% | 3.47\% | 3.70\% | 3.70\% | 4.10\% | 3.83\% | 7.30\% | A- | 4 |
| PNM Resources, Inc. | PNM | 2.70\% | 2.81\% | 8.80\% | 8.80\% | 7.60\% | 8.40\% | 11.21\% | BBB+ | 5 |
| Portland General Electric Company | POR | 3.20\% | 3.30\% | 6.60\% | 6.60\% | 6.40\% | 6.53\% | 9.84\% | BBB | 6 |
| SCANA Corporation | SCG | 3.30\% | 3.38\% | 4.80\% | 4.80\% | 5.30\% | 4.97\% | 8.35\% | BBB + | 5 |
| Southern Company | SO | 4.50\% | 4.58\% | 3.30\% | 3.20\% | 4.10\% | 3.53\% | 8.11\% | A- | 4 |
| WEC Energy Group, Inc. | WEC | 3.40\% | 3.51\% | 6.80\% | 6.80\% | 6.30\% | 6.63\% | 10.15\% | A- | 4 |
| Xcel Energy Inc. | XEL | 3.30\% | 3.39\% | 5.30\% | 5.30\% | 5.30\% | 5.30\% | 8.69\% | A- | 4 |
| PROXY GROUP MEAN |  | 3.42\% | 3.50\% | 4.72\% | 4.58\% | 4.94\% | 4.80\% | 8.30\% | BBB+ | 4.9 |
| PROXY GROUP MEDIAN |  | 3.40\% | 3.47\% | 5.00\% | 5.00\% | 5.20\% | 5.00\% | 8.69\% | BBB+ | 5.0 |

regression output

| Regression Statistics |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Multiple R | 0.133707 |  |  |  |  |  |
| R Square | 0.017878 |  |  |  |  |  |
| Adjusted R Square | -0.018497 |  |  |  |  |  |
| Standard Error | 0.022034 |  |  |  |  |  |
| Observations | 29 |  |  |  |  |  |
| ANOVA |  |  |  |  |  |  |
|  | df | SS | MS | F | Signif. F |  |
| Regression | 1 | 0.000239 | 0.000239 | 0.491482 | 0.489266 |  |
| Residual | 27 | 0.013108 | 0.000485 |  |  |  |
| Total | 28 | 0.013347 |  |  |  |  |
|  | Coefficients | Stand. Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 0.094593 | 0.017012 | 5.560305 | 0.000007 | 0.059687 | 0.129499 |
| Credit Score | -0.002364 | 0.003372 | -0.701058 | 0.489266 | -0.009284 | 0.004555 |

Notes:
[1] Source: JRW-10
[2] Equals [1] $\times(1+0.5 \times[6])$
[3] Source: JRW-10
[4] Source: JRW-10
[5] Source: JRW-10
[6] Equals Average([3], [4], [5])
[7] Equals [4] + [8]
[8] Source: JRW-4

|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | $\begin{gathered} \text { Dividend } \\ \text { Yield } \\ \hline \end{gathered}$ | Expected <br> Dividend <br> Yield | Zacks Earnings Growth | First Call Earnings Growth | Value Line Earnings Growth | Average Earnings Growth | $\begin{aligned} & \text { Mean } \\ & \text { ROE } \\ & \hline \end{aligned}$ | S\&P <br> Issuer <br> Credit <br> Rating | Numeric Credit Score |
| ALLETE, Inc. | ALE | 3.80\% | 3.87\% | 3.00\% | NA | 4.50\% | 3.75\% | 7.62\% | BBB + | 5 |
| Alliant Energy Corporation | LNT | 3.30\% | 3.41\% | 6.60\% | 6.60\% | 6.10\% | 6.43\% | 9.84\% | A- | 4 |
| Ameren Corporation | AEE | 3.60\% | 3.70\% | 5.20\% | 5.20\% | 6.10\% | 5.50\% | 9.20\% | BBB+ | 5 |
| American Electric Power Company, Inc. | AEP | 3.50\% | 3.58\% | 4.10\% | 4.10\% | 4.90\% | 4.37\% | 7.94\% | BBB | 6 |
| Avista Corporation | AVA | 3.50\% | 3.59\% | 5.00\% | NA | 5.00\% | 5.00\% | 8.59\% | BBB | 6 |
| Black Hills Corporation | BKH | 2.90\% | 2.99\% | 6.50\% | NA | 6.50\% | 6.50\% | 9.49\% | BBB | 6 |
| CMS Energy Corporation | CMS | 3.10\% | 3.21\% | 7.20\% | 7.20\% | 6.40\% | 6.93\% | 10.14\% | $\mathrm{BBB}+$ | 5 |
| Consolidated Edison, Inc. | ED | 3.70\% | 3.74\% | 1.90\% | 1.90\% | 2.30\% | 2.03\% | 5.77\% | A- | 4 |
| Dominion Resources, Inc. | D | 4.00\% | 4.12\% | 5.90\% | 5.90\% | 6.80\% | 6.20\% | 10.32\% | BBB+ | 5 |
| Duke Energy Corporation | DUK | 4.30\% | 4.40\% | 4.60\% | 4.60\% | 4.80\% | 4.67\% | 9.07\% | A- | 4 |
| Edison International | EIX | 2.80\% | 2.85\% | 2.50\% | 2.50\% | 4.90\% | 3.30\% | 6.15\% | BBB+ | 5 |
| El Paso Electric Company | EE | 2.90\% | 3.00\% | 7.00\% | NA | 6.70\% | 6.85\% | 9.85\% | BBB | 6 |
| Entergy Corporation | ETR | 4.60\% | 4.55\% | -2.40\% | -2.40\% | -2.30\% | -2.37\% | 2.18\% | BBB | 6 |
| Eversource Energy | ES | 3.20\% | 3.30\% | 6.30\% | 6.30\% | 6.30\% | 6.30\% | 9.60\% | A | 3 |
| FirstEnergy Corp. | FE | 4.30\% | 4.26\% | -2.50\% | -2.50\% | -1.00\% | -2.00\% | 2.26\% | BBB- | 7 |
| IDACORP, Inc. | IDA | 2.80\% | 2.86\% | 4.00\% | 4.00\% | 4.00\% | 4.00\% | 6.86\% | BBB | 6 |
| MGE Energy, Inc. | MGEE | 2.40\% | 2.45\% | 4.00\% | NA | NA | 4.00\% | 6.45\% | AA- | 1 |
| NextEra Energy, Inc. | NEE | 3.00\% | 3.11\% | 7.40\% | 7.40\% | 6.90\% | 7.23\% | 10.34\% | A- | 4 |
| NorthWestern Corporation | NWE | 3.40\% | 3.49\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.49\% | BBB | 6 |
| OGE Energy Corp. | OGE | 3.90\% | 3.99\% | 4.30\% | 4.30\% | 5.20\% | 4.60\% | 8.59\% | A- | 4 |
| Otter Tail Corporation | OTTR | 4.40\% | 4.53\% | 6.00\% | NA | NA | 6.00\% | 10.53\% | BBB | 6 |
| PG\&E Corporation | PCG | 3.40\% | 3.50\% | 6.10\% | 6.10\% | 5.10\% | 5.77\% | 9.26\% | BBB | 6 |
| Pinnacle West Capital Corporation | PNW | 3.50\% | 3.57\% | 3.70\% | 3.70\% | 4.10\% | 3.83\% | 7.40\% | A- | 4 |
| PNM Resources, Inc. | PNM | 2.70\% | 2.81\% | 8.80\% | 8.80\% | 7.60\% | 8.40\% | 11.21\% | BBB+ | 5 |
| Portland General Electric Company | POR | 3.30\% | 3.41\% | 6.60\% | 6.60\% | 6.40\% | 6.53\% | 9.94\% | BBB | 6 |
| SCANA Corporation | SCG | 3.40\% | 3.48\% | 4.80\% | 4.80\% | 5.30\% | 4.97\% | 8.45\% | BBB+ | 5 |
| Southern Company | SO | 4.60\% | 4.68\% | 3.30\% | 3.20\% | 4.10\% | 3.53\% | 8.21\% | A- | 4 |
| WEC Energy Group, Inc. | WEC | 3.40\% | 3.51\% | 6.80\% | 6.80\% | 6.30\% | 6.63\% | 10.15\% | A- | 4 |
| Xcel Energy Inc. | XEL | 3.40\% | 3.49\% | 5.30\% | 5.30\% | 5.30\% | 5.30\% | 8.79\% | A- | 4 |
| PROXY GROUP MEAN |  | 3.49\% | 3.57\% | 4.72\% | 4.58\% | 4.94\% | 4.80\% | 8.37\% | BBB+ | 4.9 |
| PROXY GROUP MEDIAN |  | 3.40\% | 3.50\% | 5.00\% | 5.00\% | 5.20\% | 5.00\% | 8.79\% | BBB+ | 5.0 |

REGRESSION OUTPUT

| Regression Statistics |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Multiple R | 0.137677 |  |  |  |  |  |
| R Square | 0.018955 |  |  |  |  |  |
| Adjusted R Square | -0.017380 |  |  |  |  |  |
| Standard Error | 0.022042 |  |  |  |  |  |
| Observations | 29 |  |  |  |  |  |
| ANOVA |  |  |  |  |  |  |
|  | df | SS | MS | $F$ | Signif. F |  |
| Regression | 1 | 0.000253 | 0.000253 | 0.521673 | 0.476338 |  |
| Residual | 27 | 0.013117 | 0.000486 |  |  |  |
| Total | 28 | 0.013371 |  |  |  |  |
|  | Coefficients | Stand. Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 0.095618 | 0.017018 | 5.618640 | 0.000006 | 0.060700 | 0.130536 |
| X Variable 1 | -0.00244 | 0.003373 | -0.722270 | 0.476338 | -0.009358 | 0.004485 |

Notes:
[1] Source: JRW-10
[2] Equals [1] $\times(1+0.5 \times$ [6])
[3] Source: JRW-10
[4] Source: JRW-10
[5] Source: JRW-10
[6] Equals Average([3], [4], [5])
[7] Equals [4] + [8]
[8] Source: JRW-4

|  |  | [1] | [2] | [3] | [4] | [5] | [6] | [7] | [8] |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Ticker | $\begin{gathered} \text { Dividend } \\ \text { Yield } \\ \hline \end{gathered}$ | Expected <br> Dividend <br> Yield | Zacks Earnings Growth | First Call Earnings Growth | Value Line Earnings Growth | Average Earnings Growth | $\begin{aligned} & \text { Mean } \\ & \text { ROE } \\ & \hline \end{aligned}$ | S\&P <br> Issuer <br> Credit <br> Rating | Numeric <br> Credit <br> Score |
| ALLETE, Inc. | ALE | 4.00\% | 4.08\% | 3.00\% | NA | 4.50\% | 3.75\% | 7.83\% | BBB+ | 5 |
| Alliant Energy Corporation | LNT | 3.60\% | 3.72\% | 6.60\% | 6.60\% | 6.10\% | 6.43\% | 10.15\% | A- | 4 |
| Ameren Corporation | AEE | 3.80\% | 3.90\% | 5.20\% | 5.20\% | 6.10\% | 5.50\% | 9.40\% | BBB+ | 5 |
| American Electric Power Company, Inc. | AEP | 3.80\% | 3.88\% | 4.10\% | 4.10\% | 4.90\% | 4.37\% | 8.25\% | BBB | 6 |
| Avista Corporation | AVA | 3.80\% | 3.90\% | 5.00\% | NA | 5.00\% | 5.00\% | 8.90\% | BBB | 6 |
| Black Hills Corporation | BKH | 3.40\% | 3.51\% | 6.50\% | NA | 6.50\% | 6.50\% | 10.01\% | BBB | 6 |
| CMS Energy Corporation | CMS | 3.30\% | 3.41\% | 7.20\% | 7.20\% | 6.40\% | 6.93\% | 10.35\% | BBB+ | 5 |
| Consolidated Edison, Inc. | ED | 3.90\% | 3.94\% | 1.90\% | 1.90\% | 2.30\% | 2.03\% | 5.97\% | A- | 4 |
| Dominion Resources, Inc. | D | 4.10\% | 4.23\% | 5.90\% | 5.90\% | 6.80\% | 6.20\% | 10.43\% | BBB+ | 5 |
| Duke Energy Corporation | DUK | 4.50\% | 4.61\% | 4.60\% | 4.60\% | 4.80\% | 4.67\% | 9.27\% | A- | 4 |
| Edison International | EIX | 3.00\% | 3.05\% | 2.50\% | 2.50\% | 4.90\% | 3.30\% | 6.35\% | BBB+ | 5 |
| El Paso Electric Company | EE | 3.40\% | 3.52\% | 7.00\% | NA | 6.70\% | 6.85\% | 10.37\% | BBB | 6 |
| Entergy Corporation | ETR | 4.90\% | 4.84\% | -2.40\% | -2.40\% | -2.30\% | -2.37\% | 2.48\% | BBB | 6 |
| Eversource Energy | ES | 3.40\% | 3.51\% | 6.30\% | 6.30\% | 6.30\% | 6.30\% | 9.81\% | A | 3 |
| FirstEnergy Corp. | FE | 4.50\% | 4.46\% | -2.50\% | -2.50\% | -1.00\% | -2.00\% | 2.46\% | BBB- | 7 |
| IDACORP, Inc. | IDA | 3.00\% | 3.06\% | 4.00\% | 4.00\% | 4.00\% | 4.00\% | 7.06\% | BBB | 6 |
| MGE Energy, Inc. | MGEE | 2.50\% | 2.55\% | 4.00\% | NA | NA | 4.00\% | 6.55\% | AA- | 1 |
| NextEra Energy, Inc. | NEE | 3.20\% | 3.32\% | 7.40\% | 7.40\% | 6.90\% | 7.23\% | 10.55\% | A- | 4 |
| NorthWestern Corporation | NWE | 3.60\% | 3.69\% | 5.00\% | 5.00\% | 5.00\% | 5.00\% | 8.69\% | BBB | 6 |
| OGE Energy Corp. | OGE | 4.10\% | 4.19\% | 4.30\% | 4.30\% | 5.20\% | 4.60\% | 8.79\% | A- | 4 |
| Otter Tail Corporation | OTTR | 4.60\% | 4.74\% | 6.00\% | NA | NA | 6.00\% | 10.74\% | BBB | 6 |
| PG\&E Corporation | PCG | 3.60\% | 3.70\% | 6.10\% | 6.10\% | 5.10\% | 5.77\% | 9.47\% | BBB | 6 |
| Pinnacle West Capital Corporation | PNW | 3.70\% | 3.77\% | 3.70\% | 3.70\% | 4.10\% | 3.83\% | 7.60\% | A- | 4 |
| PNM Resources, Inc. | PNM | 2.90\% | 3.02\% | 8.80\% | 8.80\% | 7.60\% | 8.40\% | 11.42\% | BBB+ | 5 |
| Portland General Electric Company | POR | 3.40\% | 3.51\% | 6.60\% | 6.60\% | 6.40\% | 6.53\% | 10.04\% | BBB | 6 |
| SCANA Corporation | SCG | 3.70\% | 3.79\% | 4.80\% | 4.80\% | 5.30\% | 4.97\% | 8.76\% | BBB+ | 5 |
| Southern Company | SO | 4.80\% | 4.88\% | 3.30\% | 3.20\% | 4.10\% | 3.53\% | 8.42\% | A- | 4 |
| WEC Energy Group, Inc. | WEC | 3.70\% | 3.82\% | 6.80\% | 6.80\% | 6.30\% | 6.63\% | 10.46\% | A- | 4 |
| Xcel Energy Inc. | XEL | 3.60\% | 3.70\% | 5.30\% | 5.30\% | 5.30\% | 5.30\% | 9.00\% | A- | 4 |
| PROXY GROUP MEAN |  | 3.72\% | 3.80\% | 4.72\% | 4.58\% | 4.94\% | 4.80\% | 8.61\% | BBB+ | 4.9 |
| PROXY GROUP MEDIAN |  | 3.70\% | 3.77\% | 5.00\% | 5.00\% | 5.20\% | 5.00\% | 9.00\% | BBB+ | 5.0 |

regression output

| Regression Statistics |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Multiple R | 0.122515 |  |  |  |  |  |
| R Square | 0.015010 |  |  |  |  |  |
| Adjusted R Square | -0.021471 |  |  |  |  |  |
| Standard Error | 0.022188 |  |  |  |  |  |
| Observations | 29 |  |  |  |  |  |
| ANOVA |  |  |  |  |  |  |
|  | df | SS | MS | $F$ | Signif. F |  |
| Regression | 1 | 0.000203 | 0.000203 | 0.411444 | 0.526646 |  |
| Residual | 27 | 0.013293 | 0.000492 |  |  |  |
| Total | 28 | 0.013495 |  |  |  |  |
|  | Coefficients | Stand. Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 0.09672 | 0.017131 | 5.645785 | 0.000005 | 0.061570 | 0.131871 |
| X Variable 1 | -0.00218 | 0.003396 | -0.641439 | 0.526646 | -0.009146 | 0.004790 |

## Notes:

[1] Source: JRW-10
[2] Equals [1] $\times(1+0.5 \times[6])$
[3] Source: JRW-10
[4] Source: JRW-10
[5] Source: JRW-10
[6] Equals Average([3], [4], [5])
[7] Equals [4] + [8]
[8] Source: JRW-4

| Return on Equity Flotation Costs | 11.00\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 3.28\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flotation Costs Market Value | \$ | 25.00 |  |  |  |  |  |  |  |  |  |  |  |  |
| Dividend Yield | 4.50\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Growth Rate | 6.50\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 11.15\% |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Flotation Cost Recovery: DCF Estimate | $\begin{array}{r} \text { No } \\ 10.85 \% \end{array}$ |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Common Stock |  | Retained Earnings |  | Book Value |  | Market Price |  | Market/ Book Value | Earnings Per Share |  | Dividends <br> Per Share |  | Payout <br> Ratio |
| 1 | \$ | 24.18 |  |  | \$ | 24.18 | \$ | 25.00 | 1.0339 | \$ | 2.66 | \$ | 1.13 | 42.30\% |
| 2 | \$ | 24.18 | \$ | 1.53 | \$ | 25.71 | \$ | 26.59 | 1.0339 | \$ | 2.83 | \$ | 1.20 | 42.30\% |
| 3 |  | 24.18 | \$ | 3.17 | \$ | 27.35 | \$ | 28.27 | 1.0339 | \$ | 3.01 | \$ | 1.27 | 42.30\% |
| 4 | \$ | 24.18 | \$ | 4.90 | \$ | 29.08 | \$ | 30.07 | 1.0339 | \$ | 3.20 | \$ | 1.35 | 42.30\% |
| 5 | \$ | 24.18 | \$ | 6.75 | \$ | 30.93 | \$ | 31.98 | 1.0339 | \$ | 3.40 | \$ | 1.44 | 42.30\% |
| 6 | \$ | 24.18 | \$ | 8.71 | \$ | 32.89 | \$ | 34.01 | 1.0339 | \$ | 3.62 | \$ | 1.53 | 42.30\% |
| 7 | \$ | 24.18 | \$ | 10.80 | \$ | 34.98 | \$ | 36.17 | 1.0339 | \$ | 3.85 | \$ | 1.63 | 42.30\% |
| 8 | \$ | 24.18 | \$ | 13.02 | \$ | 37.20 | \$ | 38.46 | 1.0339 | \$ | 4.09 |  | 1.73 | 42.30\% |
| 9 | , | 24.18 | \$ | 15.38 | \$ | 39.56 | \$ | 40.90 | 1.0339 | \$ | 4.35 | \$ | 1.84 | 42.30\% |
| 10 | \$ | 24.18 | \$ | 17.89 | \$ | 42.07 | \$ | 43.50 | 1.0339 | \$ | 4.63 | \$ | 1.96 | 42.30\% |
|  |  | wth Rate |  |  |  | 6.35\% |  | 6.35\% |  |  | 6.35\% |  | 6.35\% |  |


| Return on Equity | $11.00 \%$ |
| ---: | ---: |
| Flotation Costs | $3.28 \%$ |
| Market Value $\$ 325.00$ |  |
| Dividend Yield | $4.50 \%$ |
| Growth Rate | $6.50 \%$ |
| Adjusted ROE | $11.15 \%$ |
| Yes |  |
| Flotation Cost Recovery: | $\mathbf{Y e s}$ |
| DCF Estimate | $\mathbf{1 1 . 0 0 \%}$ |



Analysis Using Gorman's Rolling Average Equity Risk Premium Data

| Year | Authorized Electric Returns | Treasury Bond Yield | Indicated <br> Risk <br> Premium | Rolling <br> 5-Year <br> Average <br> Treasury | Rolling <br> 5-Year <br> Average <br> Risk Premium | Slope | Rolling 10-Year Average Treasury | Rolling <br> 10-Year <br> Average <br> Risk Premium | Slope |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1986 | 13.93\% | 7.80\% | 6.13\% |  |  |  |  |  |  |
| 1987 | 12.99\% | 8.58\% | 4.41\% |  |  |  |  |  |  |
| 1988 | 12.79\% | 8.96\% | 3.83\% |  |  |  |  |  |  |
| 1989 | 12.97\% | 8.45\% | 4.52\% |  |  |  |  |  |  |
| 1990 | 12.70\% | 8.61\% | 4.09\% | 8.48\% | 4.60\% | -46.02\% |  |  | -47.73\% |
| 1991 | 12.55\% | 8.14\% | 4.41\% | 8.55\% | 4.25\% |  |  |  |  |
| 1992 | 12.09\% | 7.67\% | 4.42\% | 8.36\% | 4.26\% |  |  |  |  |
| 1993 | 11.41\% | 6.60\% | 4.81\% | 7.89\% | 4.45\% |  |  |  |  |
| 1994 | 11.34\% | 7.37\% | 3.97\% | 7.68\% | 4.34\% |  |  |  |  |
| 1995 | 11.55\% | 6.88\% | 4.67\% | 7.33\% | 4.46\% |  | 7.91\% | 4.53\% |  |
| 1996 | 11.39\% | 6.70\% | 4.69\% | 7.04\% | 4.51\% |  | 7.80\% | 4.38\% |  |
| 1997 | 11.40\% | 6.61\% | 4.79\% | 6.83\% | 4.59\% |  | 7.60\% | 4.42\% |  |
| 1998 | 11.66\% | 5.58\% | 6.08\% | 6.63\% | 4.84\% |  | 7.26\% | 4.65\% |  |
| 1999 | 10.77\% | 5.87\% | 4.90\% | 6.33\% | 5.03\% |  | 7.00\% | 4.68\% |  |
| 2000 | 11.43\% | 5.94\% | 5.49\% | 6.14\% | 5.19\% |  | 6.73\% | 4.82\% |  |
| 2001 | 11.09\% | 5.49\% | 5.60\% | 5.90\% | 5.37\% |  | 6.47\% | 4.94\% |  |
| 2002 | 11.16\% | 5.43\% | 5.73\% | 5.66\% | 5.56\% |  | 6.25\% | 5.07\% |  |
| 2003 | 10.97\% | 4.96\% | 6.01\% | 5.54\% | 5.55\% |  | 6.08\% | 5.19\% |  |
| 2004 | 10.75\% | 5.05\% | 5.70\% | 5.37\% | 5.71\% |  | 5.85\% | 5.37\% |  |
| 2005 | 10.54\% | 4.65\% | 5.89\% | 5.11\% | 5.79\% |  | 5.63\% | 5.49\% |  |
| 2006 | 10.36\% | 4.99\% | 5.37\% | 5.01\% | 5.74\% |  | 5.46\% | 5.56\% |  |
| 2007 | 10.36\% | 4.83\% | 5.53\% | 4.90\% | 5.70\% |  | 5.28\% | 5.63\% |  |
| 2008 | 10.46\% | 4.28\% | 6.18\% | 4.76\% | 5.73\% |  | 5.15\% | 5.64\% |  |
| 2009 | 10.48\% | 4.07\% | 6.41\% | 4.56\% | 5.88\% |  | 4.97\% | 5.79\% |  |
| 2010 | 10.24\% | 4.25\% | 5.99\% | 4.49\% | 5.89\% |  | 4.80\% | 5.84\% |  |
| 2011 | 10.07\% | 3.91\% | 6.16\% | 4.27\% | 6.05\% |  | 4.64\% | 5.90\% |  |
| 2012 | 10.01\% | 2.92\% | 7.09\% | 3.89\% | 6.37\% |  | 4.39\% | 6.03\% |  |
| 2013 | 9.79\% | 3.45\% | 6.34\% | 3.72\% | 6.40\% |  | 4.24\% | 6.07\% |  |
| 2014 | 9.76\% | 3.34\% | 6.42\% | 3.57\% | 6.40\% |  | 4.07\% | 6.14\% |  |
| 2015 | 9.58\% | 2.84\% | 6.74\% | 3.29\% | 6.55\% |  | 3.89\% | 6.22\% |  |
| 2016 | 9.68\% | 2.72\% | 6.96\% | 3.05\% | 6.71\% |  | 3.66\% | 6.38\% |  |
| Average | 11.17\% | 5.71\% | 5.46\% | 5.72\% | 5.40\% |  | 5.69\% | 5.40\% |  |
| Minimum |  |  |  | 3.05\% | 4.25\% |  | 3.66\% | 4.38\% |  |
| Maximum |  |  |  | 8.55\% | 6.71\% |  | 7.91\% | 6.38\% |  |

[^7]Analysis Using Gorman's Rolling Average Equity Risk Premium Data

| Year | Authorized Electric Returns | Utiltiy Bond Yield | Rolling Indicated Risk Premium | Rolling 5-Year Average Utility Bond | 5-Year Average Risk Premium | Rolling <br> Slope | Rolling 10-Year Average Utility Bond | 10-Year Average Risk Premium | Slope |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1986 | 13.93\% | 9.58\% | 4.35\% |  |  |  |  |  |  |
| 1987 | 12.99\% | 10.10\% | 2.89\% |  |  |  |  |  |  |
| 1988 | 12.79\% | 10.49\% | 2.30\% |  |  |  |  |  |  |
| 1989 | 12.97\% | 9.77\% | 3.20\% |  |  |  |  |  |  |
| 1990 | 12.70\% | 9.86\% | 2.84\% | 9.96\% | 3.12\% | -45.15\% |  |  | -44.87\% |
| 1991 | 12.55\% | 9.36\% | 3.19\% | 9.92\% | 2.88\% |  |  |  |  |
| 1992 | 12.09\% | 8.69\% | 3.40\% | 9.63\% | 2.99\% |  |  |  |  |
| 1993 | 11.41\% | 7.59\% | 3.82\% | 9.05\% | 3.29\% |  |  |  |  |
| 1994 | 11.34\% | 8.31\% | 3.03\% | 8.76\% | 3.26\% |  |  |  |  |
| 1995 | 11.55\% | 7.89\% | 3.66\% | 8.37\% | 3.42\% |  | 9.16\% | 3.27\% |  |
| 1996 | 11.39\% | 7.75\% | 3.64\% | 8.05\% | 3.51\% |  | 8.98\% | 3.20\% |  |
| 1997 | 11.40\% | 7.60\% | 3.80\% | 7.83\% | 3.59\% |  | 8.73\% | 3.29\% |  |
| 1998 | 11.66\% | 7.04\% | 4.62\% | 7.72\% | 3.75\% |  | 8.39\% | 3.52\% |  |
| 1999 | 10.77\% | 7.62\% | 3.15\% | 7.58\% | 3.77\% |  | 8.17\% | 3.52\% |  |
| 2000 | 11.43\% | 8.24\% | 3.19\% | 7.65\% | 3.68\% |  | 8.01\% | 3.55\% |  |
| 2001 | 11.09\% | 7.76\% | 3.33\% | 7.65\% | 3.62\% |  | 7.85\% | 3.56\% |  |
| 2002 | 11.16\% | 7.37\% | 3.79\% | 7.61\% | 3.61\% |  | 7.72\% | 3.60\% |  |
| 2003 | 10.97\% | 6.58\% | 4.39\% | 7.52\% | 3.57\% |  | 7.62\% | 3.66\% |  |
| 2004 | 10.75\% | 6.16\% | 4.59\% | 7.22\% | 3.86\% |  | 7.40\% | 3.81\% |  |
| 2005 | 10.54\% | 5.65\% | 4.89\% | 6.71\% | 4.20\% |  | 7.18\% | 3.94\% |  |
| 2006 | 10.36\% | 6.07\% | 4.29\% | 6.37\% | 4.39\% |  | 7.01\% | 4.00\% |  |
| 2007 | 10.36\% | 6.07\% | 4.29\% | 6.11\% | 4.49\% |  | 6.86\% | 4.05\% |  |
| 2008 | 10.46\% | 6.53\% | 3.93\% | 6.10\% | 4.40\% |  | 6.81\% | 3.98\% |  |
| 2009 | 10.48\% | 6.04\% | 4.44\% | 6.07\% | 4.37\% |  | 6.65\% | 4.11\% |  |
| 2010 | 10.24\% | 5.46\% | 4.78\% | 6.03\% | 4.35\% |  | 6.37\% | 4.27\% |  |
| 2011 | 10.07\% | 5.04\% | 5.03\% | 5.83\% | 4.49\% |  | 6.10\% | 4.44\% |  |
| 2012 | 10.01\% | 4.13\% | 5.88\% | 5.44\% | 4.81\% |  | 5.77\% | 4.65\% |  |
| 2013 | 9.79\% | 4.48\% | 5.31\% | 5.03\% | 5.09\% |  | 5.56\% | 4.74\% |  |
| 2014 | 9.76\% | 4.28\% | 5.48\% | 4.68\% | 5.30\% |  | 5.37\% | 4.83\% |  |
| 2015 | 9.58\% | 4.12\% | 5.46\% | 4.41\% | 5.43\% |  | 5.22\% | 4.89\% |  |
| 2016 | 9.68\% | 4.18\% | 5.50\% | 4.24\% | 5.53\% |  | 5.03\% | 5.01\% |  |
| Average | 11.17\% | 7.09\% | 4.08\% | 7.09\% | 4.03\% |  | 7.09\% | 4.00\% |  |
| Minimum |  |  |  | 4.24\% | 2.88\% |  | 5.03\% | 3.20\% |  |
| Maximum |  |  |  | 9.96\% | 5.53\% |  | 9.16\% | 5.01\% |  |

[^8]SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.979694 |
| R Square | 0.959801 |
| Adjusted R Square | 0.958193 |
| Standard Error | 0.001584 |
| Observations | 27 |


| ANOVA | $d f$ |  | SS | MS | $F$ |
| :--- | ---: | :--- | :--- | :--- | ---: |
| Regression | 1 | 0.001497 | 0.001497 | 596.900197 | 0.000000 |
| Residual | 25 | 0.000063 | 0.000003 |  |  |
| Total | 26 | 0.001560 |  |  |  |


|  | Coefficients | Standard Error | $t$ Stat | P-value | Lower 95\% | Upper 95\% | Lower 95.0\% | Upper 95.0\% |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Intercept | 0.080351 | 0.001119 | 71.795082 | 0.000000 | 0.078046 | 0.082656 | 0.078046 | 0.082656 |
| X Variable 1 | -0.460208 | 0.018837 | -24.431541 | 0.000000 | -0.499003 | -0.421413 | -0.499003 | -0.421413 |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.980565 |
| R Square | 0.961508 |
| Adjusted R Square | 0.959968 |
| Standard Error | 0.001497 |
| Observations | 27 |

ANOVA

|  | df | SS | MS | F | Significance $F$ |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regression | 1 | 0.001400 | 0.001400 | 624.479845 | 0.000000 |  |  |  |
| Residual | 25 | 0.000056 | 0.000002 |  |  |  |  |  |
| Total | 26 | 0.001456 |  |  |  |  |  |  |
|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% | Lower 95.0\% | Upper 95.0\% |
| Intercept | 0.072307 | 0.001314 | 55.042967 | 0.000000 | 0.069601 | 0.075012 | 0.069601 | 0.075012 |
| X Variable 1 | -0.451532 | 0.018069 | -24.989595 | 0.000000 | -0.488746 | -0.414319 | -0.488746 | -0.414319 |




| Year | ROE | Utility "A" <br> Bond Yield | Treasury Bond Yield | Credit Spread | Treasury Equity Risk Premium | Utility Bond Equity Risk Premium | Treasury Yield | Credit Spread |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1986 | 13.93\% | 9.58\% | 7.80\% | 1.78\% | 6.13\% | 4.35\% | 7.80\% | 1.78\% |
| 1987 | 12.99\% | 10.10\% | 8.58\% | 1.52\% | 4.41\% | 2.89\% | 8.58\% | 1.52\% |
| 1988 | 12.79\% | 10.49\% | 8.96\% | 1.53\% | 3.83\% | 2.30\% | 8.96\% | 1.53\% |
| 1989 | 12.97\% | 9.77\% | 8.45\% | 1.32\% | 4.52\% | 3.20\% | 8.45\% | 1.32\% |
| 1990 | 12.70\% | 9.86\% | 8.61\% | 1.25\% | 4.09\% | 2.84\% | 8.61\% | 1.25\% |
| 1991 | 12.55\% | 9.36\% | 8.14\% | 1.22\% | 4.41\% | 3.19\% | 8.14\% | 1.22\% |
| 1992 | 12.09\% | 8.69\% | 7.67\% | 1.02\% | 4.42\% | 3.40\% | 7.67\% | 1.02\% |
| 1993 | 11.41\% | 7.59\% | 6.60\% | 0.99\% | 4.81\% | 3.82\% | 6.60\% | 0.99\% |
| 1994 | 11.34\% | 8.31\% | 7.37\% | 0.94\% | 3.97\% | 3.03\% | 7.37\% | 0.94\% |
| 1995 | 11.55\% | 7.89\% | 6.88\% | 1.01\% | 4.67\% | 3.66\% | 6.88\% | 1.01\% |
| 1996 | 11.39\% | 7.75\% | 6.70\% | 1.05\% | 4.69\% | 3.64\% | 6.70\% | 1.05\% |
| 1997 | 11.40\% | 7.60\% | 6.61\% | 0.99\% | 4.79\% | 3.80\% | 6.61\% | 0.99\% |
| 1998 | 11.66\% | 7.04\% | 5.58\% | 1.46\% | 6.08\% | 4.62\% | 5.58\% | 1.46\% |
| 1999 | 10.77\% | 7.62\% | 5.87\% | 1.75\% | 4.90\% | 3.15\% | 5.87\% | 1.75\% |
| 2000 | 11.43\% | 8.24\% | 5.94\% | 2.30\% | 5.49\% | 3.19\% | 5.94\% | 2.30\% |
| 2001 | 11.09\% | 7.76\% | 5.49\% | 2.27\% | 5.60\% | 3.33\% | 5.49\% | 2.27\% |
| 2002 | 11.16\% | 7.37\% | 5.43\% | 1.94\% | 5.73\% | 3.79\% | 5.43\% | 1.94\% |
| 2003 | 10.97\% | 6.58\% | 4.96\% | 1.62\% | 6.01\% | 4.39\% | 4.96\% | 1.62\% |
| 2004 | 10.75\% | 6.16\% | 5.05\% | 1.11\% | 5.70\% | 4.59\% | 5.05\% | 1.11\% |
| 2005 | 10.54\% | 5.65\% | 4.65\% | 1.00\% | 5.89\% | 4.89\% | 4.65\% | 1.00\% |
| 2006 | 10.36\% | 6.07\% | 4.99\% | 1.08\% | 5.37\% | 4.29\% | 4.99\% | 1.08\% |
| 2007 | 10.36\% | 6.07\% | 4.83\% | 1.24\% | 5.53\% | 4.29\% | 4.83\% | 1.24\% |
| 2008 | 10.46\% | 6.53\% | 4.28\% | 2.25\% | 6.18\% | 3.93\% | 4.28\% | 2.25\% |
| 2009 | 10.48\% | 6.04\% | 4.07\% | 1.97\% | 6.41\% | 4.44\% | 4.07\% | 1.97\% |
| 2010 | 10.24\% | 5.46\% | 4.25\% | 1.21\% | 5.99\% | 4.78\% | 4.25\% | 1.21\% |
| 2011 | 10.07\% | 5.04\% | 3.91\% | 1.13\% | 6.16\% | 5.03\% | 3.91\% | 1.13\% |
| 2012 | 10.01\% | 4.13\% | 2.92\% | 1.21\% | 7.09\% | 5.88\% | 2.92\% | 1.21\% |
| 2013 | 9.79\% | 4.48\% | 3.45\% | 1.03\% | 6.34\% | 5.31\% | 3.45\% | 1.03\% |
| 2014 | 9.76\% | 4.28\% | 3.34\% | 0.94\% | 6.42\% | 5.48\% | 3.34\% | 0.94\% |
| 2015 | 9.58\% | 4.12\% | 2.84\% | 1.27\% | 6.74\% | 5.46\% | 2.84\% | 1.27\% |
| 2016 | 9.68\% | 4.18\% | 2.72\% | 1.46\% | 6.96\% | 5.50\% | 2.72\% | 1.46\% |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.898826 |
| R Square | 0.807887 |
| Adjusted R Square | 0.801263 |
| Standard Error | 0.004088 |
| Observations | 31 |


| ANOVA | df | SS | MS | $F$ | Significance $F$ |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | 1 | 0.002038 | 0.002038 | 121.953137 | 0.000000 |  |
| Regression | 29 | 0.000485 | 0.000017 |  |  |  |  |
| Residual | 30 | 0.002522 |  |  |  |  |  |
| Total |  |  |  |  |  |  |  |
|  | Coefficients | Standard Error | $t$ Stat | -value | Lower 95\% | Upper 95\% |  |
|  | 0.079782 | 0.002393 | 33.337504 | 0.000000 | 0.074887 | 0.084676 |  |
| Intercept | -0.440736 | 0.039910 | -11.043239 | 0.000000 | -0.522361 | -0.359111 |  |
| Treasury Yield |  |  |  |  |  |  |  |

RESIDUAL OUTPUT

| Observation |  | d Equity Risk F | Residuals | $\left(\mathrm{e}_{\mathrm{t}}-\mathrm{e}_{(t-1)}\right)^{2}$ | $\left(e_{t}\right)^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 0.0454116 | 0.015905067 |  |  |  |
|  | 2 | 0.04196651 | 0.002133486 | 0.00019 | 0.00000 |  |
|  | 3 | 0.04029539 | -0.001987057 | 0.00002 | 0.00000 |  |
|  | 4 | 0.04254314 | 0.00266519 | 0.00002 | 0.00001 |  |
|  | 5 | 0.04184164 | -0.000924972 | 0.00001 | 0.00000 |  |
|  | 6 | 0.04392412 | 0.000217551 | 0.00000 | 0.00000 |  |
|  | 7 | 0.0459919 | -0.001758569 | 0.00000 | 0.00000 |  |
|  | 8 | 0.05070043 | -0.002583764 | 0.00000 | 0.00001 |  |
|  | 9 | 0.04729942 | -0.007599419 | 0.00003 | 0.00006 |  |
|  | 10 | 0.04944066 | -0.002782328 | 0.00002 | 0.00001 |  |
|  | 11 | 0.05024868 | -0.00335701 | 0.00000 | 0.00001 |  |
|  | 12 | 0.05066738 | -0.002725709 | 0.00000 | 0.00001 |  |
|  | 13 | 0.05519594 | 0.005620729 | 0.00007 | 0.00003 |  |
|  | 14 | 0.05392882 | -0.004887155 | 0.00011 | 0.00002 |  |
|  | 15 | 0.05359092 | 0.001284076 | 0.00004 | 0.00000 |  |
|  | 16 | 0.05557056 | 0.000396103 | 0.00000 | 0.00000 |  |
|  | 17 | 0.0558497 | 0.001450304 | 0.00000 | 0.00000 |  |
|  | 18 | 0.05793217 | 0.002192827 | 0.00000 | 0.00000 |  |
|  | 19 | 0.05753918 | -0.00050585 | 0.00001 | 0.00000 |  |
|  | 20 | 0.0593058 | -0.000364134 | 0.00000 | 0.00000 |  |
|  | 21 | 0.05777792 | -0.004102916 | 0.00001 | 0.00002 |  |
|  | 22 | 0.05847575 | -0.003217414 | 0.00000 | 0.00001 |  |
|  | 23 | 0.06092183 | 0.000886501 | 0.00002 | 0.00000 |  |
|  | 24 | 0.06184738 | 0.002260956 | 0.00000 | 0.00001 |  |
|  | 25 | 0.06104671 | -0.001155041 | 0.00001 | 0.00000 |  |
|  | 26 | 0.06254521 | -0.000953543 | 0.00000 | 0.00000 |  |
|  | 27 | 0.0669085 | 0.003983172 | 0.00002 | 0.00002 |  |
|  | 28 | 0.06458361 | -0.001166946 | 0.00003 | 0.00000 |  |
|  | 29 | 0.06506108 | -0.000861077 | 0.00000 | 0.00000 |  |
|  | 30 | 0.06726108 | 0.000130583 | 0.00000 | 0.00000 |  |
|  | 31 | 0.06779364 | 0.00180636 | 0.00000 | 0.00000 |  |
|  |  |  |  | 0.00062 | 0.00023 |  |
|  |  |  | Durbin-Watson | 2.69423 |  |  |
|  |  |  | dL | 1.147 | 4-dL | 4-dU |
|  |  |  | dU | 1.274 | 2.853 | 2.726 |
|  |  |  | DW>2 | TRUE |  |  |
|  |  |  | DW<4-dU? | TRUE | No Autocorrelation |  |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.916176 |
| R Square | 0.839379 |
| Adjusted R Square | 0.833841 |
| Standard Error | 0.003777 |
| Observations | 31 |


|  | $d f$ | SS | MS | $F$ | Significance F |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regression | 1 | 0.002162 | 0.002162 | 151.549633 | 0.000000 |  |
| Residual | 29 | 0.000414 | 0.000014 |  |  |  |
| Total | 30 | 0.002575 |  |  |  |  |
|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 0.072374 | 0.002653 | 27.275585 | 0.000000 | 0.066947 | 0.077801 |
| Utility "A" Bond Yiel | -0.445377 | 0.036178 | -12.310550 | 0.000000 | -0.519370 | -0.371384 |

RESIDUAL OUTPUT

| Observation | $\lambda$ Equity Risk $F$ | Residuals | $\left(\mathrm{e}_{\mathrm{t}}-\mathrm{e}_{(\mathrm{t}-1)}\right)^{2}$ | $\left(\mathrm{e}_{\mathrm{t}}\right)^{2}$ |
| ---: | ---: | ---: | ---: | ---: | ---: |
| 1 | 0.02970688 | 0.013793119 |  |  |
| 2 | 0.02739092 | 0.001509079 | 0.00015 | 0.00000 |
| 3 | 0.02565395 | -0.00265395 | 0.00002 | 0.00001 |
| 4 | 0.02886067 | 0.003139335 | 0.00003 | 0.00001 |
| 5 | 0.02845983 | $-5.98258 \mathrm{E}-05$ | 0.00001 | 0.00000 |
| 6 | 0.03068671 | 0.001213289 | 0.00000 | 0.00000 |
| 7 | 0.03367074 | 0.000329263 | 0.00000 | 0.00000 |
| 8 | 0.03856988 | -0.000369884 | 0.00000 | 0.00000 |
| 9 | 0.03536317 | -0.00506317 | 0.00002 | 0.00003 |
| 10 | 0.03723375 | -0.000633753 | 0.00002 | 0.00000 |
| 11 | 0.03785728 | -0.001457281 | 0.00000 | 0.00000 |
| 12 | 0.03852535 | -0.000525347 | 0.00000 | 0.00000 |
| 13 | 0.04101946 | 0.005180542 | 0.00003 | 0.00003 |
| 14 | 0.03843627 | -0.006936271 | 0.00015 | 0.00005 |
| 15 | 0.03565638 | -0.003798043 | 0.00001 | 0.00001 |
| 16 | 0.03780161 | -0.004526609 | 0.00000 | 0.00002 |
| 17 | 0.03953858 | -0.001663579 | 0.00001 | 0.00000 |
| 18 | 0.04306448 | 0.000827186 | 0.00001 | 0.00000 |
| 19 | 0.0449384 | 0.000960762 | 0.00000 | 0.00000 |
| 20 | 0.04721391 | 0.001694423 | 0.00000 | 0.00000 |
| 21 | 0.04534704 | -0.002430372 | 0.00002 | 0.00001 |
| 22 | 0.04532477 | -0.002458103 | 0.00000 | 0.00001 |
| 23 | 0.0432983 | -0.003981637 | 0.00000 | 0.00002 |
| 24 | 0.04548776 | -0.001055128 | 0.00001 | 0.00000 |
| 25 | 0.04805082 | -0.00026338 | 0.00000 | 0.00000 |
| 26 | 0.04992204 | 0.000366821 | 0.00000 | 0.00000 |
| 27 | 0.05397643 | 0.004815707 | 0.00002 | 0.00002 |
| 28 | 0.05243845 | 0.000700483 | 0.00002 | 0.00000 |
| 29 | 0.0533234 | 0.001502504 | 0.00000 | 0.00000 |
| 30 | 0.05404497 | 0.000601063 | 0.00000 | 0.00000 |
| 31 | 0.05375724 | 0.001242759 | 0.00000 | 0.00000 |
|  |  |  | 0.00053 | 0.00022 |
|  |  | Durbin-Watson | 2.37384 |  |
|  |  | dL | 1.085 | $4-\mathrm{dL}$ |
|  |  | DW>2 |  |  |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.917057 |
| R Square | 0.840994 |
| Adjusted R Square | 0.829636 |
| Standard Error | 0.003785 |
| Observations | 31 |


| ANOVA | $d f$ |  | SS | MS | $F$ |
| :--- | ---: | :--- | :--- | :---: | ---: |
|  | 2 | 0.002121 | 0.001061 | 74.046865 | 0.000000 |
| Regression | 28 | 0.000401 | 0.000014 |  |  |
| Residual | 30 | 0.002522 |  |  |  |
| Total |  |  |  |  |  |


|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Intercept | 0.074097 | 0.003233 | 22.918543 | 0.000000 | 0.067474 | 0.080720 |
| Treasury Yield | -0.438638 | 0.036962 | -11.867392 | 0.000000 | -0.514351 | -0.362926 |
| Credit Spread | 0.402273 | 0.166607 | 2.414503 | 0.022540 | 0.060994 | 0.743552 |

RESIDUAL OUTPUT

| Observation |  | d Equity Risk F | Residuals | $\left(e_{t}-e_{(t-1)}\right)^{2}$ | $\left(e_{t}\right)^{2}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | 0.04705767 | 0.014258992 |  |  |  |
|  | 2 | 0.04257637 | 0.001523628 | 0.00016 | 0.00000 |  |
|  | 3 | 0.04095678 | -0.002648449 | 0.00002 | 0.00001 |  |
|  | 4 | 0.04234906 | 0.00285927 | 0.00003 | 0.00001 |  |
|  | 5 | 0.04137266 | -0.000455992 | 0.00001 | 0.00000 |  |
|  | 6 | 0.0433346 | 0.000807068 | 0.00000 | 0.00000 |  |
|  | 7 | 0.04458464 | -0.000351311 | 0.00000 | 0.00000 |  |
|  | 8 | 0.04914338 | -0.001026709 | 0.00000 | 0.00000 |  |
|  | 9 | 0.04555071 | -0.00585071 | 0.00002 | 0.00003 |  |
|  | 10 | 0.04794659 | -0.001288257 | 0.00002 | 0.00000 |  |
|  | 11 | 0.04892508 | -0.002033412 | 0.00000 | 0.00000 |  |
|  | 12 | 0.04912053 | -0.001178868 | 0.00000 | 0.00000 |  |
|  | 13 | 0.05550817 | 0.005308499 | 0.00004 | 0.00003 |  |
|  | 14 | 0.05542373 | -0.006382065 | 0.00014 | 0.00004 |  |
|  | 15 | 0.05728989 | -0.002414887 | 0.00002 | 0.00001 |  |
|  | 16 | 0.05912936 | -0.003162698 | 0.00000 | 0.00001 |  |
|  | 17 | 0.05809308 | -0.000793077 | 0.00001 | 0.00000 |  |
|  | 18 | 0.05888172 | 0.001243279 | 0.00000 | 0.00000 |  |
|  | 19 | 0.05643934 | 0.000593988 | 0.00000 | 0.00000 |  |
|  | 20 | 0.05775472 | 0.001186949 | 0.00000 | 0.00000 |  |
|  | 21 | 0.05652575 | -0.002850753 | 0.00002 | 0.00001 |  |
|  | 22 | 0.05787731 | -0.002618976 | 0.00000 | 0.00001 |  |
|  | 23 | 0.06437471 | -0.002566375 | 0.00000 | 0.00001 |  |
|  | 24 | 0.06416306 | -5.47269E-05 | 0.00001 | 0.00000 |  |
|  | 25 | 0.0603204 | -0.000428735 | 0.00000 | 0.00000 |  |
|  | 26 | 0.06148938 | 0.000102283 | 0.00000 | 0.00000 |  |
|  | 27 | 0.0661524 | 0.004739265 | 0.00002 | 0.00002 |  |
|  | 28 | 0.06310572 | 0.000310942 | 0.00002 | 0.00000 |  |
|  | 29 | 0.06321741 | 0.000982594 | 0.00000 | 0.00000 |  |
|  | 30 | 0.06676322 | 0.000628445 | 0.00000 | 0.00000 |  |
|  | 31 | 0.0680392 | 0.001560796 | 0.00000 | 0.00000 |  |
|  |  |  |  | 0.00054 | 0.00020 |  |
|  |  |  | Durbin-Watson | 2.73514 |  |  |
|  |  |  | dL | 1.147 | 4-dL | 4-dU |
|  |  |  | dU | 1.274 | 2.853 | 2.726 |
|  |  |  | DW>2 | TRUE |  |  |
|  |  |  | DW<4-dU | FALSE |  |  |
|  |  |  | $4-\mathrm{dU}<\mathrm{DW}<4$-dL | TRUE | clusive |  |

Forecasting 30 Year Treasury Yields: Regression Results Based on Data in Exhibit MPG-21

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.744743 |
| R Square | 0.554642 |
| Adjusted R Square | 0.546545 |
| Standard Error | 0.005857 |
| Observations | 57 |


|  | $d f$ | SS | MS | $F$ | Significance $F$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Regression | 1 | 0.002350 | 0.002350 | 68.496210 | 0.000000 |  |
| Residual | 55 | 0.001887 | 0.000034 |  |  |  |
| Total | 56 | 0.004236 |  |  |  |  |
|  | Coefficients | Standard Error | t Stat | $P$-value | Lower 95\% | Upper 95\% |
| Intercept | 0.006803 | 0.004302 | 1.581230 | 0.119560 | -0.001819 | 0.015424 |
| PRIOR QUARTER ACTUAL YIELD (X) | 0.783457 | 0.094663 | 8.276244 | 0.000000 | 0.593747 | 0.973166 |

## SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.905824 |
| R Square | 0.820516 |
| Adjusted R Square | 0.817253 |
| Standard Error | 0.003718 |
| Observations | 57 |


| ANOVA | $d f$ |  | SS | $M S$ | $F$ | Significance $F$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
|  |  | 1 | 0.003476 | 0.003476 | 251.434812 | 0.000000 |
| Regression | 55 | 0.000760 | 0.000014 |  |  |  |
| Residual | 56 | 0.004236 |  |  |  |  |
| Total |  |  |  |  |  |  |


|  | Coefficients | Standard Error | $t$ Stat | $P$-value | Lower 95\% | Upper 95\% |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Intercept | 0.055590 | 0.000998 | 55.697993 | 0.000000 | 0.053589 | 0.057590 |
| TREND | -0.000475 | 0.000030 | -15.856696 | 0.000000 | -0.000535 | -0.000415 |


| December 2018 Trend Variable | 105 |
| :--- | :--- |
| Implied Treasury Yield | $0.58 \%$ |

Source: Exhibit MPG-21

| Description | Retail Cost of Service Amount |  | S\&P Benchmark (Medial Volatility) |  |  | $\frac{\text { Reference }}{(5)}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Intermediate (2) | $\frac{\text { Significant }}{(3)}$ | Aggressive (4) |  |
| Rate Base |  | 32,536,116 |  |  |  | Schedule A-1. |
| Weighted Common Return |  | 4.17\% |  |  |  | Exhibit MPG-19, Page 3, Line 3, Col. 3. |
| Pre-Tax Rate of Return |  | 8.19\% |  |  |  | Exhibit MPG-19, Page 3, Line 7, Col. 4. |
| Income to Common |  | 1,358,228 |  |  |  | Line $1 \times$ Line 2. |
| EBIT |  | 2,663,715 |  |  |  | Line $1 \times$ Line 3 . |
| Depreciation \& Amortization |  | 1,665,925 |  |  |  | Schedule C-1 |
| Imputed Amortization |  | 52,057 |  |  |  | Exhibit MPG-19, Page 1, Line 7, Col. 1. |
| Deferred Income Taxes \& ITC |  | 598,846 |  |  |  | Schedule C-22 |
| Funds from Operations (FFO) |  | 3,675,056 |  |  |  | Sum of Line 4 and Lines 6 through 8. |
| Imputed Interest Expense |  | 40,363 |  |  |  | Exhibit MPG-19, Page 1, Line 10, Col. 1. |
| EBITDA |  | 4,422,060 |  |  |  | Sum of Lines 5 through 7 and Line 10. |
| Total Debt Ratio |  | 41\% |  |  |  | Exhibit MPG-19, Page 4, Line4, Col. 2. |
| Debt to EBITDA |  | 3.0x | $2.5 \mathrm{x}-3.5 \mathrm{x}$ | 3.5x-4.5x | 4.5x-5.5x | (Line $1 \times$ Line 12) / Line 11. |
| FFO to Total Debt |  | 27\% | 23\%-35\% | 13\%-23\% | 9\%-13\% | Line 9 / (Line $1 \times$ Line 12). |

Description

Rate Base
Weighted Common Return
Pre-Tax Rate of Return
Income to Common
EBIT
Depreciation \& Amortization
Imputed Amortization
Deferred Income Taxes \& ITC
Funds from Operations (FFO) Imputed Interest Expense EBITDA

Total Debt Ratio
Debt to EBITDA
FFO to Total Debt
scription
eturn

| $\$$ | $32,536,116$ |
| :--- | ---: |
|  | $2.96 \%$ |
|  | $6.20 \%$ |
| $\$$ | 961,772 |
| $\$$ | $2,017,397$ |
| $\$$ | $1,665,925$ |
| $\$$ | 52,057 |
| $\$$ | 598,846 |
| $\$$ | $3,278,600$ |
| $\$$ | 40,363 |
| $\$$ | $3,775,742$ |

## Reference

(5)

## Schedule A-1.

Exhibit MPG-19, Page 3, Line 3, Col. 3 set as 4\% Exhibit MPG-19, Page 3, Line 7, Col. 4 set as $4 \%$ Line $1 \times$ Line 2 .
Line $1 \times$ Line 3 .
Schedule C-1
CreditStats, www.globalcreditportal.com, June 30, 2016.
Schedule C-22
Sum of Line 4 and Lines 6 through 8.
CreditStats, www.globalcreditportal.com, June 30, 2016.
Sum of Lines 5 through 7 and Line 10.

Page 4, Line4, Col. 2.
(Line $1 \times$ Line 12) / Line 11.
Line 9 / (Line $1 \times$ Line 12).

| $41 \%$ |  |  |  |
| :---: | :---: | :---: | :---: |
| $3.5 x$ | $2.5 x-3.5 x$ | $3.5 x-4.5 x$ | $4.5 x-5.5 x$ |
| $25 \%$ | $23 \%-35 \%$ | $13 \%-23 \%$ | $9 \%-13 \%$ |

Exhibit MPG-19, Page 3, Line 3, Col. 3.
Exhibit MPG-19, Page 3, Line 7, Col. 4.
Line $1 \times$ Line 2.
Schedule C-1
Exhibit MPG-19, Page 1, Line 7, Col. 1. Schedule C-22

Exhibit MPG 19 Page 1 line 10 .
Sum of Lines 5 through 7 and Line 10.
(Line $1 \times$ Line 12) / Line 11
Line $9 /$ (Line $1 \times$ Line 12).

Description

Rate Base
Weighted Common Return
Pre-Tax Rate of Return
Income to Common
EBIT
Depreciation \& Amortization
Imputed Amortization
Deferred Income Taxes \& ITC
Funds from Operations (FFO)
Imputed Interest Expense
EBITDA
Total Debt Ratio
Debt to EBITDA
FFO to Total Debt

Retail

Source:
Exhibit MPG-19 (differences due to rounding)

Reference
(5)

Schedule A-1.
Exhibit MPG-19, Page 3, Line 3, Col. 3 set as $10.25 \%$ Exhibit MPG-19, Page 3, Line 7, Col. 4 set as 10.25\% Line $1 \times$ Line 2
Line $1 \times$ Line 3 .
Schedule C-1
CreditStats, www.globalcreditportal.com, June 30, 2016.
Schedule C-22
Sum of Line 4 and Lines 6 through 8.
CreditStats, www.globalcreditportal.com, June 30, 2016.
Sum of Lines 5 through 7 and Line 10.
Page 4, Line4, Col. 2.
(Line $1 \times$ Line 12) / Line 11
Line $9 /$ (Line $1 \times$ Line 12).

Frequency Distribution of Observed Market Risk Premia, 1926-2015


Sources: Morningstar, Inc., Ibbotson SBBI 2016 Appendix A, at 3-5, 21-23.

|  | Large Company Stocks Total Returns | Long-Term Government Bond Income Returns |  |
| :---: | :---: | :---: | :---: |
| Year | Jan-Dec* | Jan-Dec* | MRP |
| 1926 | 0.1162 | 0.0373 | 7.890 |
| 1927 | 0.3749 | 0.0341 | 34.080 |
| 1928 | 0.4361 | 0.0322 | 40.390 |
| 1929 | -0.0842 | 0.0347 | -11.890 |
| 1930 | -0.2490 | 0.0332 | -28.220 |
| 1931 | -0.4334 | 0.0333 | -46.670 |
| 1932 | -0.0819 | 0.0369 | -11.880 |
| 1933 | 0.5399 | 0.0312 | 50.870 |
| 1934 | -0.0144 | 0.0318 | -4.620 |
| 1935 | 0.4767 | 0.0281 | 44.860 |
| 1936 | 0.3392 | 0.0277 | 31.150 |
| 1937 | -0.3503 | 0.0266 | -37.690 |
| 1938 | 0.3112 | 0.0264 | 28.480 |
| 1939 | -0.0041 | 0.0240 | -2.810 |
| 1940 | -0.0978 | 0.0223 | -12.010 |
| 1941 | -0.1159 | 0.0194 | -13.530 |
| 1942 | 0.2034 | 0.0246 | 17.880 |
| 1943 | 0.2590 | 0.0244 | 23.460 |
| 1944 | 0.1975 | 0.0246 | 17.290 |
| 1945 | 0.3644 | 0.0234 | 34.100 |
| 1946 | -0.0807 | 0.0204 | -10.110 |
| 1947 | 0.0571 | 0.0213 | 3.580 |
| 1948 | 0.0550 | 0.0240 | 3.100 |
| 1949 | 0.1879 | 0.0225 | 16.540 |
| 1950 | 0.3171 | 0.0212 | 29.590 |
| 1951 | 0.2402 | 0.0238 | 21.640 |
| 1952 | 0.1837 | 0.0266 | 15.710 |
| 1953 | -0.0099 | 0.0284 | -3.830 |
| 1954 | 0.5262 | 0.0279 | 49.830 |
| 1955 | 0.3156 | 0.0275 | 28.810 |
| 1956 | 0.0656 | 0.0299 | 3.570 |
| 1957 | -0.1078 | 0.0344 | -14.220 |
| 1958 | 0.4336 | 0.0327 | 40.090 |

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Exhibit RBH-32, Page 2 of 2

| Bin |  | Frequency |
| ---: | ---: | ---: |
| $-50.00 \%$ | 0 | $0.000 \%$ |
| $-47.50 \%$ | 0 | $0.000 \%$ |
| $-45.00 \%$ | 1 | $1.111 \%$ |
| $-42.50 \%$ | 0 | $1.111 \%$ |
| $-40.00 \%$ | 1 | $2.222 \%$ |
| $-37.50 \%$ | 1 | $3.333 \%$ |
| $-53.00 \%$ | 0 | $3.333 \%$ |
| $-32.50 \%$ | 1 | $4.444 \%$ |
| $-3.00 \%$ | 0 | $4.444 \%$ |
| $-27.50 \%$ | 2 | $6.667 \%$ |
| $-25.00 \%$ | 0 | $6.667 \%$ |
| $-22.50 \%$ | 0 | $6.667 \%$ |
| $-20.00 \%$ | 1 | $7.778 \%$ |
| $-17.50 \%$ | 0 | $7.778 \%$ |
| $-15.00 \%$ | 3 | $11.111 \%$ |
| $-12.50 \%$ | 6 | $17.778 \%$ |
| $-10.00 \%$ | 5 | $23.333 \%$ |
| $-7.50 \%$ | 0 | $23.333 \%$ |
| $-5.00 \%$ | 2 | $25.556 \%$ |
| $-2.50 \%$ | 6 | $32.222 \%$ |
| $0.00 \%$ | 3 | $35.556 \%$ |
| $2.50 \%$ | 3 | $38.889 \%$ |
| $5.00 \%$ | 4 | $43.333 \%$ |
| $7.50 \%$ | 2 | $45.556 \%$ |
| $10.00 \%$ | 8 | $54.444 \%$ |
| $12.50 \%$ | 5 | $60.000 \%$ |
| $15.00 \%$ | 2 | $62.222 \%$ |
| $17.50 \%$ | 6 | $68.889 \%$ |
| $20.00 \%$ | 3 | $72.222 \%$ |
| $22.50 \%$ | 3 | $75.556 \%$ |
| $25.00 \%$ | 7 | $83.333 \%$ |
| $27.50 \%$ | 1 | $84.444 \%$ |
| $30.00 \%$ | 6 | $91.111 \%$ |
| $32.50 \%$ | 1 | $92.222 \%$ |
| $35.00 \%$ | 2 | $94.444 \%$ |
| $37.50 \%$ | 0 | $94.444 \%$ |
| $40.00 \%$ | 0 | $94.444 \%$ |
| $42.50 \%$ | 2 | $96.667 \%$ |
| $45.00 \%$ | 1 | $9.778 \%$ |
| $47.50 \%$ | 0 | $97.778 \%$ |
| $50.00 \%$ | 1 | $98.889 \%$ |
| $51.00 \%$ | 1 | $100.000 \%$ |
| Count | 90 |  |
|  |  |  |


| Average <br> MRP | Rank: |
| :---: | :---: |
| 10.68 | $55.90 \%$ |

## Alternative Bond Yield Plus Risk Premium Analysis

|  | [1] Constant | [2] <br> LN(30-Year Treasury) | [3] <br> Moody's Utility Baa Credit Spread | [4] VIX |
| :---: | :---: | :---: | :---: | :---: |
| Regression Coefficients | -0.026 | -0.025 | 0.215 | 0.00005 |
| Long Term Averages [5], [6] |  |  | 1.81\% | 22.36 |


|  | $30-$ Yr. Treasury | Risk Premium | Return on Equity |
| ---: | :---: | :---: | :---: |
|  | Yield [7] | $[8]$ | $[9]$ |
| Current 30-Year Treasury | $2.50 \%$ | $7.33 \%$ | $9.83 \%$ |
| Blue Chip Financial Forecast 2017 Projection | $3.40 \%$ | $6.55 \%$ | $9.95 \%$ |
| Blue Chip Financial Forecast 2020 Projection | $4.40 \%$ | $5.89 \%$ | $10.29 \%$ |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.820612 |
| R Square | 0.673404 |
| Adjusted R Square | 0.671829 |
| Standard Error | 0.005498 |
| Observations | 626 |

ANOVA

|  | $d f$ |  | SS | MS | $F$ |
| :--- | ---: | ---: | :--- | ---: | ---: |
| Regression | 3 | 0.038767 | 0.012922 | 427.497607 | Significance $F$ |
| Residual | 622 | 0.018802 | 0.000030 |  |  |
| Total | 625 | 0.057569 |  |  |  |


|  | Coefficients | Standard Error | $t$ Stat | P-value | Lower 95\% | Upper 95\% Lower 95.0\% | Upper 95.0\% |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Intercept | -0.025758 | 0.002491 | -10.340783 | 0.000000 | -0.030649 | -0.020866 | -0.030649 | -0.020866 |
| LN(30-Year Treasury) | -0.025474 | 0.000843 | -30.202755 | 0.000000 | -0.027131 | -0.023818 | -0.027131 | -0.023818 |
| Utility Baa Credit Spread | 0.214700 | 0.047428 | 4.526891 | 0.000007 | 0.121562 | 0.307838 | 0.121562 | 0.307838 |
| VIX | 0.000055 | 0.000034 | 1.618449 | 0.106073 | -0.000012 | 0.000122 | -0.000012 | 0.000122 |

Notes:
[1] Constant of regression equation (1992-2016)
[2] Equals Regression Coefficient of LN(30-year Treasury Yield variable)
[3] Equals Regression Coefficient of Credit Spread variable
[4] Equals Regression Coefficient of VIX variable
[5] Long-Term Historical Average of Baa Credit Spread
[6] Source: http://www.cboe.com/data/volatilityindexes/volatilityindexes.aspx; accessed July 27, 2016
[7] Source: Current = Bloomberg Professional,
Near-Term Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017.
Long-Term Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
[8] Equals [1] $+([2] \times$ LN[7] $)+([3] \times[5])+([4] \times[6])$
[9] Equals [7] + [8]
[10] Source: SNL Financial
[11] Source: SNL Financial
[12] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
[13] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
[14] Equals LN[12]
[15] Equals [13] - [12]
[16] Source: Bloomberg Professional, equals 200-trading day average (i.e. lag period)
[17] Equals [11] - [12]

| [10] | [11] | [12] | [13] [14]$[15]$ <br> Moody's Utility [16] [17] |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | 30-Year |  |  |  |  |  |
| Date of Electric Rate Case | Return on Equity | Treasury Yield | Moody's Utility Baa Yield | LN(30-Year Treasury) | Baa Credit Spread | VIX | Risk Premium |
| 1/10/1990 | 12.80\% | 8.24\% |  | -2.496477861 |  | 19.95 | 4.56\% |
| 1/11/1990 | 12.90\% | 8.23\% |  | -2.497024601 |  | 19.96 | 4.67\% |
| 1/17/1990 | 12.80\% | 8.22\% |  | -2.499113014 |  | 21.59 | 4.58\% |
| 1/26/1990 | 12.00\% | 8.19\% |  | -2.501942804 |  | 22.87 | 3.81\% |
| 2/9/1990 | 12.10\% | 8.17\% |  | -2.504801539 |  | 23.58 | 3.93\% |
| 2/24/1990 | 12.86\% | 8.15\% |  | -2.507522892 |  | 23.35 | 4.71\% |
| 3/30/1990 | 12.90\% | 8.16\% |  | -2.505906927 |  | 22.17 | 4.74\% |
| 4/4/1990 | 15.76\% | 8.17\% |  | -2.505240839 |  | 22.16 | 7.59\% |
| 4/12/1990 | 12.52\% | 8.18\% |  | -2.503520424 |  | 22.04 | 4.34\% |
| 4/19/1990 | 12.75\% | 8.20\% |  | -2.501412987 |  | 22.01 | 4.55\% |
| 5/21/1990 | 12.10\% | 8.28\% |  | -2.490818765 |  | 21.42 | 3.82\% |
| 5/29/1990 | 12.40\% | 8.30\% |  | -2.489147186 |  | 21.25 | 4.10\% |
| 5/31/1990 | 12.00\% | 8.30\% |  | -2.488692501 |  | 21.17 | 3.70\% |
| 6/4/1990 | 12.90\% | 8.30\% |  | -2.4883905 |  | 21.11 | 4.60\% |
| 6/6/1990 | 12.25\% | 8.31\% |  | -2.488115209 |  | 21.06 | 3.94\% |
| 6/15/1990 | 13.20\% | 8.32\% |  | -2.486948935 |  | 20.80 | 4.88\% |

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| 6/20/1990 | 12.92\% | 8.32\% | -2.486220477 | 20.68 | 4.60\% |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 6/27/1990 | 12.90\% | 8.33\% | -2.484996704 | 20.52 | 4.57\% |
| 6/29/1990 | 12.50\% | 8.34\% | -2.484701847 | 20.45 | 4.16\% |
| 7/6/1990 | 12.35\% | 8.34\% | -2.48420579 | 20.33 | 4.01\% |
| 7/6/1990 | 12.10\% | 8.34\% | -2.48420579 | 20.33 | 3.76\% |
| 8/10/1990 | 12.55\% | 8.41\% | -2.475736762 | 20.52 | 4.14\% |
| 8/16/1990 | 13.21\% | 8.43\% | -2.473575512 | 20.64 | 4.78\% |
| 8/22/1990 | 13.10\% | 8.45\% | -2.471018017 | 20.82 | 4.65\% |
| 8/24/1990 | 13.00\% | 8.46\% | -2.469496155 | 21.00 | 4.54\% |
| 9/26/1990 | 11.45\% | 8.59\% | -2.454201215 | 21.96 | 2.86\% |
| 10/2/1990 | 13.00\% | 8.61\% | -2.451809401 | 22.09 | 4.39\% |
| 10/5/1990 | 12.84\% | 8.63\% | -2.450337442 | 22.18 | 4.21\% |
| 10/19/1990 | 13.00\% | 8.67\% | -2.445512392 | 22.69 | 4.33\% |
| 10/25/1990 | 12.30\% | 8.68\% | -2.444370992 | 22.80 | 3.62\% |
| 11/21/1990 | 12.70\% | 8.69\% | -2.442615086 | 22.98 | 4.01\% |
| 12/13/1990 | 12.30\% | 8.67\% | -2.44490271 | 22.97 | 3.63\% |
| 12/17/1990 | 12.87\% | 8.67\% | -2.44545674 | 23.00 | 4.20\% |
| 12/18/1990 | 13.10\% | 8.67\% | -2.445757644 | 23.02 | 4.43\% |
| 12/19/1990 | 12.00\% | 8.66\% | -2.446009336 | 23.04 | 3.34\% |
| 12/20/1990 | 12.75\% | 8.66\% | -2.446187995 | 23.05 | 4.09\% |
| 12/21/1990 | 12.50\% | 8.66\% | -2.446334775 | 23.07 | 3.84\% |
| 12/27/1990 | 12.79\% | 8.66\% | -2.44671836 | 23.13 | 4.13\% |
| 1/2/1991 | 13.10\% | 8.66\% | -2.446942427 | 23.25 | 4.44\% |
| 1/4/1991 | 12.50\% | 8.65\% | -2.4473669 | 23.31 | 3.85\% |
| 1/15/1991 | 12.75\% | 8.65\% | -2.448168141 | 23.75 | 4.10\% |
| 1/25/1991 | 11.70\% | 8.63\% | -2.450247154 | 23.94 | 3.07\% |
| 2/4/1991 | 12.50\% | 8.60\% | -2.453128134 | 23.92 | 3.90\% |
| 2/7/1991 | 12.50\% | 8.59\% | -2.454862821 | 23.95 | 3.91\% |
| 2/12/1991 | 13.00\% | 8.57\% | -2.456475087 | 23.99 | 4.43\% |
| 2/14/1991 | 12.72\% | 8.56\% | -2.457500722 | 24.02 | 4.16\% |
| 2/22/1991 | 12.80\% | 8.55\% | -2.459800347 | 24.08 | 4.25\% |
| 3/6/1991 | 13.10\% | 8.53\% | -2.461874245 | 24.18 | 4.57\% |
| 3/8/1991 | 13.00\% | 8.52\% | -2.462251459 | 24.21 | 4.48\% |
| 3/8/1991 | 12.30\% | 8.52\% | -2.462251459 | 24.21 | 3.78\% |
| 4/22/1991 | 13.00\% | 8.49\% | -2.466242714 | 24.23 | 4.51\% |
| 5/7/1991 | 13.50\% | 8.47\% | -2.468214975 | 24.22 | 5.03\% |
| 5/13/1991 | 13.25\% | 8.47\% | -2.468668749 | 24.15 | 4.78\% |
| 5/30/1991 | 12.75\% | 8.43\% | -2.473033695 | 23.59 | 4.32\% |
| 6/12/1991 | 12.00\% | 8.41\% | -2.476341626 | 23.03 | 3.59\% |
| 6/25/1991 | 11.70\% | 8.38\% | -2.478854049 | 22.47 | 3.32\% |
| 6/28/1991 | 12.50\% | 8.38\% | -2.479875908 | 22.31 | 4.12\% |
| 7/1/1991 | 12.00\% | 8.37\% | -2.480289386 | 22.25 | 3.63\% |
| 7/3/1991 | 12.50\% | 8.36\% | -2.481170322 | 22.15 | 4.14\% |
| 7/19/1991 | 12.10\% | 8.34\% | -2.484421541 | 21.55 | 3.76\% |
| 8/1/1991 | 12.90\% | 8.32\% | -2.486808759 | 20.89 | 4.58\% |
| 8/16/1991 | 13.20\% | 8.29\% | -2.490493686 | 20.12 | 4.91\% |
| 9/27/1991 | 12.50\% | 8.23\% | -2.496936101 | 19.02 | 4.27\% |
| 9/30/1991 | 12.25\% | 8.23\% | -2.49722421 | 18.99 | 4.02\% |
| 10/17/1991 | 13.00\% | 8.20\% | -2.500713128 | 18.47 | 4.80\% |
| 10/23/1991 | 12.50\% | 8.20\% | -2.501422183 | 18.20 | 4.30\% |
| 10/23/1991 | 12.55\% | 8.20\% | -2.501422183 | 18.20 | 4.35\% |
| 10/31/1991 | 11.80\% | 8.19\% | -2.502275923 | 17.68 | 3.61\% |
| 11/1/1991 | 12.00\% | 8.19\% | -2.502450195 | 17.63 | 3.81\% |
| 11/5/1991 | 12.25\% | 8.19\% | -2.502725164 | 17.55 | 4.06\% |
| 11/12/1991 | 12.50\% | 8.18\% | -2.503292528 | 17.35 | 4.32\% |
| 11/12/1991 | 13.25\% | 8.18\% | -2.503292528 | 17.35 | 5.07\% |
| 11/25/1991 | 12.40\% | 8.18\% | -2.503712733 | 17.21 | 4.22\% |
| 11/26/1991 | 12.50\% | 8.18\% | -2.503769265 | 17.20 | 4.32\% |
| 11/26/1991 | 11.60\% | 8.18\% | -2.503769265 | 17.20 | 3.42\% |
| 11/27/1991 | 12.10\% | 8.18\% | -2.503814739 | 17.19 | 3.92\% |
| 12/18/1991 | 12.25\% | 8.15\% | -2.507331083 | 17.07 | 4.10\% |
| 12/19/1991 | 12.60\% | 8.15\% | -2.507721524 | 17.06 | 4.45\% |
| 12/19/1991 | 12.80\% | 8.15\% | -2.507721524 | 17.06 | 4.65\% |
| 12/20/1991 | 12.65\% | 8.14\% | -2.508180009 | 17.04 | 4.51\% |
| 1/9/1992 | 12.80\% | 8.09\% | -2.51476261 | 17.13 | 4.71\% |
| 1/16/1992 | 12.75\% | 8.07\% | -2.516799408 | 17.14 | 4.68\% |
| 1/21/1992 | 12.00\% | 8.06\% | -2.517809082 | 17.12 | 3.94\% |
| 1/22/1992 | 13.00\% | 8.06\% | -2.518107633 | 17.10 | 4.94\% |
| 1/27/1992 | 12.65\% | 8.05\% | -2.519087429 | 17.09 | 4.60\% |
| 1/31/1992 | 12.00\% | 8.04\% | -2.520318057 | 17.12 | 3.96\% |
| 2/11/1992 | 12.40\% | 8.03\% | -2.522191565 | 17.16 | 4.37\% |
| 2/25/1992 | 12.50\% | 8.01\% | -2.524420455 | 17.14 | 4.49\% |
| 3/16/1992 | 11.43\% | 7.98\% | -2.5279667 | 17.25 | 3.45\% |
| 3/18/1992 | 12.28\% | 7.98\% | -2.528600856 | 17.26 | 4.30\% |
| 4/2/1992 | 12.10\% | 7.95\% | -2.532341542 | 17.24 | 4.15\% |
| 4/9/1992 | 11.45\% | 7.93\% | -2.534038199 | 17.24 | 3.52\% |
| 4/10/1992 | 11.50\% | 7.93\% | -2.534424003 | 17.23 | 3.57\% |
| 4/14/1992 | 11.50\% | 7.92\% | -2.535249959 | 17.21 | 3.58\% |
| 5/5/1992 | 11.50\% | 7.89\% | -2.539367717 | 17.08 | 3.61\% |
| 5/12/1992 | 12.46\% | 7.88\% | -2.540491605 | 17.09 | 4.58\% |
| 5/12/1992 | 11.87\% | 7.88\% | -2.540491605 | 17.09 | 3.99\% |
| 6/1/1992 | 12.30\% | 7.86\% | -2.542849882 | 17.02 | 4.44\% |

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| 6/12/1992 | 10.90\% | 7.85\% |  | -2.544044864 |  | 16.97 | 3.05\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 6/26/1992 | 12.35\% | 7.85\% |  | -2.544922989 |  | 16.91 | 4.50\% |
| 6/29/1992 | 11.00\% | 7.85\% |  | -2.545003672 |  | 16.88 | 3.15\% |
| 6/30/1992 | 13.00\% | 7.85\% |  | -2.545063228 |  | 16.86 | 5.15\% |
| 7/13/1992 | 13.50\% | 7.84\% |  | -2.546223031 |  | 16.78 | 5.66\% |
| 7/13/1992 | 11.90\% | 7.84\% |  | -2.546223031 |  | 16.78 | 4.06\% |
| 7/22/1992 | 11.20\% | 7.83\% |  | -2.547220512 |  | 16.65 | 3.37\% |
| 8/3/1992 | 12.00\% | 7.81\% |  | -2.550005891 |  | 16.52 | 4.19\% |
| 8/6/1992 | 12.50\% | 7.80\% |  | -2.550979453 |  | 16.48 | 4.70\% |
| 9/22/1992 | 12.00\% | 7.71\% |  | -2.562150915 |  | 15.88 | 4.29\% |
| 9/28/1992 | 11.40\% | 7.71\% |  | -2.563005971 |  | 15.78 | 3.69\% |
| 9/30/1992 | 11.75\% | 7.71\% |  | -2.563248543 |  | 15.75 | 4.04\% |
| 10/2/1992 | 13.00\% | 7.70\% |  | -2.563503569 |  | 15.74 | 5.30\% |
| 10/12/1992 | 12.20\% | 7.70\% |  | -2.563555104 |  | 15.85 | 4.50\% |
| 10/16/1992 | 13.16\% | 7.71\% |  | -2.563267456 |  | 15.82 | 5.45\% |
| 10/30/1992 | 11.75\% | 7.71\% |  | -2.563084214 |  | 15.75 | 4.04\% |
| 11/3/1992 | 12.00\% | 7.71\% |  | -2.56315855 |  | 15.74 | 4.29\% |
| 12/3/1992 | 11.85\% | 7.68\% |  | -2.566695907 |  | 15.36 | 4.17\% |
| 12/15/1992 | 11.00\% | 7.66\% |  | -2.569018479 |  | 15.17 | 3.34\% |
| 12/16/1992 | 11.90\% | 7.66\% |  | -2.569326814 |  | 15.14 | 4.24\% |
| 12/16/1992 | 12.40\% | 7.66\% |  | -2.569326814 |  | 15.14 | 4.74\% |
| 12/17/1992 | 12.00\% | 7.66\% |  | -2.569679219 |  | 15.10 | 4.34\% |
| 12/22/1992 | 12.40\% | 7.65\% |  | -2.571003981 |  | 14.99 | 4.75\% |
| 12/22/1992 | 12.30\% | 7.65\% |  | -2.571003981 |  | 14.99 | 4.65\% |
| 12/29/1992 | 12.25\% | 7.63\% | 8.61\% | -2.573127127 | 0.98\% | 14.86 | 4.62\% |
| 12/30/1992 | 12.00\% | 7.63\% | 8.61\% | -2.573498663 | 0.98\% | 14.84 | 4.37\% |
| 12/31/1992 | 11.90\% | 7.62\% | 8.61\% | -2.573859792 | 0.99\% | 14.82 | 4.28\% |
| 1/12/1993 | 12.00\% | 7.61\% | 8.62\% | -2.5762929 | 1.01\% | 14.72 | 4.39\% |
| 1/21/1993 | 11.25\% | 7.59\% | 8.61\% | -2.578757112 | 1.02\% | 14.52 | 3.66\% |
| 2/2/1993 | 11.40\% | 7.56\% | 8.56\% | -2.582792324 | 1.01\% | 14.35 | 3.84\% |
| 2/15/1993 | 12.30\% | 7.52\% | 8.52\% | -2.587853331 | 1.00\% | 14.22 | 4.78\% |
| 2/24/1993 | 11.90\% | 7.49\% | 8.48\% | -2.591873816 | 0.99\% | 14.18 | 4.41\% |
| 2/26/1993 | 11.80\% | 7.48\% | 8.46\% | -2.593142317 | 0.98\% | 14.16 | 4.32\% |
| 2/26/1993 | 12.20\% | 7.48\% | 8.46\% | -2.593142317 | 0.98\% | 14.16 | 4.72\% |
| 4/23/1993 | 11.75\% | 7.29\% | 8.29\% | -2.619128589 | 1.00\% | 13.85 | 4.46\% |
| 5/11/1993 | 11.75\% | 7.24\% | 8.26\% | -2.62487387 | 1.02\% | 13.86 | 4.51\% |
| 5/14/1993 | 11.50\% | 7.24\% | 8.26\% | -2.625954403 | 1.02\% | 13.87 | 4.26\% |
| 5/25/1993 | 11.50\% | 7.22\% | 8.26\% | -2.627704331 | 1.04\% | 13.87 | 4.28\% |
| 5/28/1993 | 11.00\% | 7.22\% | 8.26\% | -2.628492033 | 1.04\% | 13.84 | 3.78\% |
| 6/3/1993 | 12.00\% | 7.21\% | 8.26\% | -2.629953568 | 1.05\% | 13.83 | 4.79\% |
| 6/16/1993 | 11.50\% | 7.19\% | 8.24\% | -2.633023609 | 1.06\% | 13.77 | 4.31\% |
| 6/18/1993 | 12.10\% | 7.18\% | 8.24\% | -2.633671358 | 1.06\% | 13.77 | 4.92\% |
| 6/25/1993 | 11.67\% | 7.17\% | 8.23\% | -2.635647271 | 1.06\% | 13.74 | 4.50\% |
| 7/21/1993 | 11.38\% | 7.10\% | 8.20\% | -2.64572959 | 1.10\% | 13.42 | 4.28\% |
| 7/23/1993 | 10.46\% | 7.09\% | 8.16\% | -2.646920829 | 1.08\% | 13.34 | 3.37\% |
| 8/24/1993 | 11.50\% | 6.95\% | 8.13\% | -2.665744765 | 1.18\% | 12.79 | 4.55\% |
| 9/21/1993 | 10.50\% | 6.80\% | 8.05\% | -2.687542088 | 1.25\% | 12.72 | 3.70\% |
| 9/29/1993 | 11.47\% | 6.76\% | 8.03\% | -2.693671658 | 1.27\% | 12.73 | 4.71\% |
| 9/30/1993 | 11.60\% | 6.76\% | 8.03\% | -2.694664066 | 1.27\% | 12.74 | 4.84\% |
| 11/2/1993 | 10.80\% | 6.60\% | 7.89\% | -2.718055616 | 1.29\% | 12.67 | 4.20\% |
| 11/12/1993 | 12.00\% | 6.56\% | 7.86\% | -2.723624369 | 1.30\% | 12.76 | 5.44\% |
| 11/26/1993 | 11.00\% | 6.52\% | 7.83\% | -2.730429154 | 1.31\% | 12.85 | 4.48\% |
| 12/14/1993 | 10.55\% | 6.48\% | 7.80\% | -2.736143407 | 1.32\% | 12.75 | 4.07\% |
| 12/16/1993 | 10.60\% | 6.48\% | 7.80\% | -2.736836716 | 1.32\% | 12.72 | 4.12\% |
| 12/21/1993 | 11.30\% | 6.47\% | 7.80\% | -2.738096605 | 1.33\% | 12.66 | 4.83\% |
| 1/4/1994 | 10.07\% | 6.44\% | 7.78\% | -2.742426307 | 1.34\% | 12.49 | 3.63\% |
| 1/13/1994 | 11.00\% | 6.42\% | 7.77\% | -2.746265671 | 1.35\% | 12.45 | 4.58\% |
| 1/21/1994 | 11.00\% | 6.40\% | 7.75\% | -2.748645306 | 1.35\% | 12.39 | 4.60\% |
| 1/28/1994 | 11.35\% | 6.39\% | 7.74\% | -2.750446141 | 1.35\% | 12.37 | 4.96\% |
| 2/3/1994 | 11.40\% | 6.38\% | 7.73\% | -2.75225574 | 1.35\% | 12.34 | 5.02\% |
| 2/17/1994 | 10.60\% | 6.36\% | 7.71\% | -2.755429452 | 1.35\% | 12.38 | 4.24\% |
| 2/25/1994 | 11.25\% | 6.35\% | 7.70\% | -2.756899777 | 1.36\% | 12.39 | 4.90\% |
| 2/25/1994 | 12.00\% | 6.35\% | 7.70\% | -2.756899777 | 1.36\% | 12.39 | 5.65\% |
| 3/1/1994 | 11.00\% | 6.35\% | 7.70\% | -2.757370833 | 1.36\% | 12.40 | 4.65\% |
| 3/4/1994 | 11.00\% | 6.34\% | 7.70\% | -2.757695555 | 1.36\% | 12.43 | 4.66\% |
| 4/25/1994 | 11.00\% | 6.40\% | 7.74\% | -2.74819011 | 1.33\% | 13.03 | 4.60\% |
| 5/10/1994 | 11.75\% | 6.44\% | 7.77\% | -2.741906094 | 1.32\% | 13.20 | 5.31\% |
| 5/13/1994 | 10.50\% | 6.46\% | 7.78\% | -2.739522199 | 1.32\% | 13.25 | 4.04\% |
| 6/3/1994 | 11.00\% | 6.54\% | 7.84\% | -2.727421288 | 1.30\% | 13.32 | 4.46\% |
| 6/27/1994 | 11.40\% | 6.65\% | 7.94\% | -2.710605473 | 1.29\% | 13.42 | 4.75\% |
| 8/5/1994 | 12.75\% | 6.88\% | 8.15\% | -2.676571985 | 1.27\% | 13.42 | 5.87\% |
| 10/31/1994 | 10.00\% | 7.33\% | 8.54\% | -2.613065108 | 1.21\% | 13.77 | 2.67\% |
| 11/9/1994 | 10.85\% | 7.40\% | 8.60\% | -2.604267563 | 1.20\% | 13.94 | 3.45\% |
| 11/9/1994 | 10.85\% | 7.40\% | 8.60\% | -2.604267563 | 1.20\% | 13.94 | 3.45\% |
| 11/18/1994 | 11.20\% | 7.46\% | 8.65\% | -2.59623401 | 1.20\% | 14.12 | 3.74\% |
| 11/22/1994 | 11.60\% | 7.47\% | 8.67\% | -2.594037077 | 1.20\% | 14.14 | 4.13\% |
| 11/28/1994 | 11.06\% | 7.50\% | 8.69\% | -2.590418601 | 1.20\% | 14.20 | 3.56\% |
| 12/8/1994 | 11.70\% | 7.55\% | 8.75\% | -2.584071324 | 1.21\% | 14.29 | 4.15\% |
| 12/8/1994 | 11.50\% | 7.55\% | 8.75\% | -2.584071324 | 1.21\% | 14.29 | 3.95\% |
| 12/14/1994 | 10.95\% | 7.57\% | 8.78\% | -2.581380139 | 1.21\% | 14.28 | 3.38\% |
| 12/15/1994 | 11.50\% | 7.57\% | 8.78\% | -2.580740162 | 1.21\% | 14.26 | 3.93\% |
| 12/19/1994 | 11.50\% | 7.58\% | 8.80\% | -2.579505183 | 1.21\% | 14.24 | 3.92\% |

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| 12/28/1994 | 12.15\% | 7.61\% | 8.83\% | -2.575147209 | 1.21\% | 14.14 | 4.54\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1/9/1995 | 12.28\% | 7.64\% | 8.87\% | -2.571310299 | 1.22\% | 14.14 | 4.64\% |
| 1/31/1995 | 11.00\% | 7.69\% | 8.93\% | -2.565244175 | 1.24\% | 13.71 | 3.31\% |
| 2/10/1995 | 12.60\% | 7.70\% | 8.95\% | -2.563744305 | 1.25\% | 13.56 | 4.90\% |
| 2/17/1995 | 11.90\% | 7.70\% | 8.96\% | -2.563497046 | 1.26\% | 13.49 | 4.20\% |
| 3/9/1995 | 11.50\% | 7.72\% | 8.98\% | -2.561774453 | 1.26\% | 13.37 | 3.78\% |
| 3/20/1995 | 12.00\% | 7.72\% | 8.98\% | -2.561279667 | 1.26\% | 13.35 | 4.28\% |
| 3/23/1995 | 12.81\% | 7.72\% | 8.99\% | -2.561193104 | 1.27\% | 13.32 | 5.09\% |
| 3/29/1995 | 11.60\% | 7.72\% | 8.99\% | -2.561390321 | 1.27\% | 13.31 | 3.88\% |
| 4/6/1995 | 11.10\% | 7.72\% | 8.99\% | -2.561975041 | 1.28\% | 13.30 | 3.38\% |
| 4/7/1995 | 11.00\% | 7.71\% | 8.99\% | -2.562117041 | 1.28\% | 13.28 | 3.29\% |
| 4/19/1995 | 11.00\% | 7.70\% | 8.99\% | -2.563551842 | 1.29\% | 13.20 | 3.30\% |
| 5/12/1995 | 11.63\% | 7.68\% | 8.97\% | -2.566903376 | 1.29\% | 13.21 | 3.95\% |
| 5/25/1995 | 11.20\% | 7.65\% | 8.95\% | -2.570704328 | 1.30\% | 13.22 | 3.55\% |
| 6/9/1995 | 11.25\% | 7.60\% | 8.91\% | -2.576999458 | 1.31\% | 13.26 | 3.65\% |
| 6/21/1995 | 12.25\% | 7.56\% | 8.88\% | -2.582523025 | 1.32\% | 13.24 | 4.69\% |
| 6/30/1995 | 11.10\% | 7.51\% | 8.85\% | -2.588289223 | 1.33\% | 13.20 | 3.59\% |
| 9/11/1995 | 11.30\% | 7.20\% | 8.58\% | -2.630863753 | 1.38\% | 12.48 | 4.10\% |
| 9/27/1995 | 11.50\% | 7.12\% | 8.50\% | -2.642117081 | 1.38\% | 12.24 | 4.38\% |
| 9/27/1995 | 11.75\% | 7.12\% | 8.50\% | -2.642117081 | 1.38\% | 12.24 | 4.63\% |
| 9/27/1995 | 11.30\% | 7.12\% | 8.50\% | -2.642117081 | 1.38\% | 12.24 | 4.18\% |
| 9/29/1995 | 11.00\% | 7.11\% | 8.49\% | -2.643930188 | 1.38\% | 12.24 | 3.89\% |
| 11/9/1995 | 12.36\% | 6.89\% | 8.30\% | -2.674546417 | 1.40\% | 12.47 | 5.47\% |
| 11/9/1995 | 11.38\% | 6.89\% | 8.30\% | -2.674546417 | 1.40\% | 12.47 | 4.49\% |
| 11/17/1995 | 11.00\% | 6.85\% | 8.26\% | -2.680612738 | 1.41\% | 12.51 | 4.15\% |
| 12/4/1995 | 11.35\% | 6.78\% | 8.21\% | -2.69155484 | 1.43\% | 12.52 | 4.57\% |
| 12/11/1995 | 11.40\% | 6.74\% | 8.18\% | -2.697079693 | 1.44\% | 12.52 | 4.66\% |
| 12/20/1995 | 11.60\% | 6.69\% | 8.13\% | -2.704042664 | 1.44\% | 12.50 | 4.91\% |
| 12/27/1995 | 12.00\% | 6.66\% | 8.11\% | -2.709184261 | 1.45\% | 12.48 | 5.34\% |
| 2/5/1996 | 12.25\% | 6.48\% | 7.97\% | -2.737087325 | 1.50\% | 12.63 | 5.77\% |
| 3/29/1996 | 10.67\% | 6.42\% | 7.92\% | -2.746308744 | 1.50\% | 13.49 | 4.25\% |
| 4/8/1996 | 11.00\% | 6.42\% | 7.92\% | -2.745813123 | 1.50\% | 13.63 | 4.58\% |
| 4/11/1996 | 12.59\% | 6.43\% | 7.93\% | -2.74496808 | 1.51\% | 13.74 | 6.16\% |
| 4/11/1996 | 12.59\% | 6.43\% | 7.93\% | -2.74496808 | 1.51\% | 13.74 | 6.16\% |
| 4/24/1996 | 11.25\% | 6.43\% | 7.95\% | -2.744033106 | 1.51\% | 13.93 | 4.82\% |
| 4/30/1996 | 11.00\% | 6.43\% | 7.95\% | -2.744203463 | 1.52\% | 13.99 | 4.57\% |
| 5/13/1996 | 11.00\% | 6.44\% | 7.97\% | -2.743373053 | 1.53\% | 14.15 | 4.56\% |
| 5/23/1996 | 11.25\% | 6.43\% | 7.98\% | -2.743837779 | 1.54\% | 14.24 | 4.82\% |
| 6/25/1996 | 11.25\% | 6.48\% | 8.01\% | -2.736832837 | 1.53\% | 14.73 | 4.77\% |
| 6/27/1996 | 11.20\% | 6.48\% | 8.01\% | -2.736140306 | 1.53\% | 14.77 | 4.72\% |
| 8/12/1996 | 10.40\% | 6.57\% | 8.09\% | -2.722275526 | 1.51\% | 15.35 | 3.83\% |
| 9/27/1996 | 11.00\% | 6.71\% | 8.19\% | -2.701473883 | 1.48\% | 15.98 | 4.29\% |
| 10/16/1996 | 12.25\% | 6.76\% | 8.22\% | -2.693650854 | 1.46\% | 16.22 | 5.49\% |
| 11/5/1996 | 11.00\% | 6.81\% | 8.25\% | -2.686455654 | 1.44\% | 16.44 | 4.19\% |
| 11/26/1996 | 11.30\% | 6.83\% | 8.27\% | -2.683157094 | 1.43\% | 16.58 | 4.47\% |
| 12/18/1996 | 11.75\% | 6.84\% | 8.27\% | -2.683065193 | 1.44\% | 16.80 | 4.91\% |
| 12/31/1996 | 11.50\% | 6.83\% | 8.27\% | -2.683536548 | 1.44\% | 16.84 | 4.67\% |
| 1/3/1997 | 10.70\% | 6.83\% | 8.27\% | -2.683469618 | 1.43\% | 16.85 | 3.87\% |
| 2/13/1997 | 11.80\% | 6.82\% | 8.24\% | -2.684796545 | 1.42\% | 17.23 | 4.98\% |
| 2/20/1997 | 11.80\% | 6.82\% | 8.23\% | -2.685897396 | 1.42\% | 17.29 | 4.98\% |
| 3/31/1997 | 10.02\% | 6.80\% | 8.21\% | -2.688051022 | 1.40\% | 17.83 | 3.22\% |
| 4/2/1997 | 11.65\% | 6.80\% | 8.20\% | -2.687962365 | 1.40\% | 17.86 | 4.85\% |
| 4/28/1997 | 11.50\% | 6.81\% | 8.20\% | -2.686810534 | 1.39\% | 18.20 | 4.69\% |
| 4/29/1997 | 11.70\% | 6.81\% | 8.20\% | -2.686853335 | 1.39\% | 18.20 | 4.89\% |
| 7/17/1997 | 12.00\% | 6.77\% | 8.14\% | -2.692346266 | 1.37\% | 19.04 | 5.23\% |
| 12/12/1997 | 11.00\% | 6.60\% | 7.96\% | -2.717610327 | 1.36\% | 22.58 | 4.40\% |
| 12/23/1997 | 11.12\% | 6.57\% | 7.88\% | -2.722946277 | 1.31\% | 22.85 | 4.55\% |
| 2/2/1998 | 12.75\% | 6.39\% | 7.80\% | -2.750652989 | 1.41\% | 23.45 | 6.36\% |
| 3/2/1998 | 11.25\% | 6.28\% | 7.71\% | -2.76702993 | 1.42\% | 23.41 | 4.97\% |
| 3/6/1998 | 10.75\% | 6.27\% | 7.69\% | -2.769940573 | 1.43\% | 23.39 | 4.48\% |
| 3/20/1998 | 10.50\% | 6.22\% | 7.64\% | -2.777213672 | 1.42\% | 23.36 | 4.28\% |
| 4/30/1998 | 12.20\% | 6.12\% | 7.54\% | -2.79337985 | 1.42\% | 23.68 | 6.08\% |
| 7/10/1998 | 11.40\% | 5.94\% | 7.39\% | -2.824188014 | 1.46\% | 23.14 | 5.46\% |
| 9/15/1998 | 11.90\% | 5.78\% | 7.30\% | -2.850769112 | 1.52\% | 23.80 | 6.12\% |
| 11/30/1998 | 12.60\% | 5.58\% | 7.26\% | -2.886003023 | 1.68\% | 26.06 | 7.02\% |
| 12/10/1998 | 12.20\% | 5.54\% | 7.25\% | -2.89315573 | 1.71\% | 26.34 | 6.66\% |
| 12/17/1998 | 12.10\% | 5.52\% | 7.25\% | -2.897314092 | 1.73\% | 26.58 | 6.58\% |
| 2/5/1999 | 10.30\% | 5.38\% | 7.24\% | -2.922553735 | 1.86\% | 27.54 | 4.92\% |
| 3/4/1999 | 10.50\% | 5.34\% | 7.25\% | -2.930709887 | 1.91\% | 28.19 | 5.16\% |
| 4/6/1999 | 10.94\% | 5.32\% | 7.28\% | -2.933623209 | 1.96\% | 28.47 | 5.62\% |
| 7/29/1999 | 10.75\% | 5.52\% | 7.54\% | -2.897188406 | 2.02\% | 25.77 | 5.23\% |
| 9/23/1999 | 10.75\% | 5.70\% | 7.72\% | -2.864128491 | 2.02\% | 24.95 | 5.05\% |
| 11/17/1999 | 11.10\% | 5.90\% | 7.90\% | -2.830538984 | 2.00\% | 24.31 | 5.20\% |
| 1/7/2000 | 11.50\% | 6.05\% | 8.03\% | -2.805234019 | 1.98\% | 23.49 | 5.45\% |
| 1/7/2000 | 11.50\% | 6.05\% | 8.03\% | -2.805234019 | 1.98\% | 23.49 | 5.45\% |
| 2/17/2000 | 10.60\% | 6.17\% | 8.15\% | -2.784697924 | 1.98\% | 23.35 | 4.43\% |
| 3/28/2000 | 11.25\% | 6.20\% | 8.23\% | -2.781387114 | 2.03\% | 22.96 | 5.05\% |
| 5/24/2000 | 11.00\% | 6.18\% | 8.34\% | -2.783420237 | 2.16\% | 23.84 | 4.82\% |
| 7/18/2000 | 12.20\% | 6.16\% | 8.40\% | -2.787689912 | 2.24\% | 23.36 | 6.04\% |
| 9/29/2000 | 11.16\% | 6.03\% | 8.42\% | -2.808572357 | 2.39\% | 22.44 | 5.13\% |
| 11/28/2000 | 12.90\% | 5.89\% | 8.40\% | -2.832402316 | 2.51\% | 22.97 | 7.01\% |
| 11/30/2000 | 12.10\% | 5.88\% | 8.40\% | -2.83326822 | 2.52\% | 23.03 | 6.22\% |

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| 1/23/2001 | 11.25\% | 5.79\% | 8.33\% | -2.848668238 | 2.54\% | 23.49 | 5.46\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/8/2001 | 11.50\% | 5.77\% | 8.31\% | -2.852595652 | 2.54\% | 23.15 | 5.73\% |
| 5/8/2001 | 10.75\% | 5.62\% | 8.12\% | -2.878885019 | 2.50\% | 24.39 | 5.13\% |
| 6/26/2001 | 11.00\% | 5.62\% | 8.08\% | -2.878717819 | 2.46\% | 24.93 | 5.38\% |
| 7/25/2001 | 11.02\% | 5.60\% | 8.06\% | -2.882979849 | 2.46\% | 25.07 | 5.42\% |
| 7/25/2001 | 11.02\% | 5.60\% | 8.06\% | -2.882979849 | 2.46\% | 25.07 | 5.42\% |
| 7/31/2001 | 11.00\% | 5.59\% | 8.05\% | -2.883621127 | 2.46\% | 24.96 | 5.41\% |
| 8/31/2001 | 10.50\% | 5.56\% | 8.01\% | -2.88991106 | 2.45\% | 24.49 | 4.94\% |
| 9/7/2001 | 10.75\% | 5.55\% | 8.01\% | -2.890944082 | 2.45\% | 24.53 | 5.20\% |
| 9/10/2001 | 11.00\% | 5.55\% | 8.00\% | -2.8911758 | 2.45\% | 24.55 | 5.45\% |
| 9/20/2001 | 10.00\% | 5.55\% | 8.00\% | -2.891508082 | 2.45\% | 24.84 | 4.45\% |
| 10/24/2001 | 10.30\% | 5.54\% | 8.00\% | -2.892931715 | 2.46\% | 25.69 | 4.76\% |
| 11/28/2001 | 10.60\% | 5.49\% | 8.01\% | -2.902140335 | 2.52\% | 26.17 | 5.11\% |
| 12/3/2001 | 12.88\% | 5.49\% | 8.01\% | -2.902751896 | 2.52\% | 26.22 | 7.39\% |
| 12/20/2001 | 12.50\% | 5.50\% | 8.03\% | -2.900883598 | 2.53\% | 26.14 | 7.00\% |
| 1/22/2002 | 10.00\% | 5.50\% | 8.06\% | -2.901113059 | 2.56\% | 25.49 | 4.50\% |
| 3/27/2002 | 10.10\% | 5.45\% | 8.10\% | -2.910256497 | 2.65\% | 24.65 | 4.65\% |
| 4/22/2002 | 11.80\% | 5.45\% | 8.12\% | -2.909549875 | 2.67\% | 24.49 | 6.35\% |
| 5/28/2002 | 10.17\% | 5.46\% | 8.15\% | -2.906892594 | 2.69\% | 24.29 | 4.71\% |
| 6/10/2002 | 12.00\% | 5.47\% | 8.17\% | -2.905117339 | 2.69\% | 24.33 | 6.53\% |
| 6/18/2002 | 11.16\% | 5.48\% | 8.17\% | -2.904826571 | 2.70\% | 24.42 | 5.68\% |
| 6/20/2002 | 11.00\% | 5.48\% | 8.18\% | -2.904761693 | 2.70\% | 24.46 | 5.52\% |
| 6/20/2002 | 12.30\% | 5.48\% | 8.18\% | -2.904761693 | 2.70\% | 24.46 | 6.82\% |
| 7/15/2002 | 11.00\% | 5.48\% | 8.19\% | -2.904867042 | 2.71\% | 24.08 | 5.52\% |
| 9/12/2002 | 12.30\% | 5.45\% | 8.14\% | -2.909336723 | 2.69\% | 25.15 | 6.85\% |
| 9/26/2002 | 10.45\% | 5.41\% | 8.12\% | -2.916605702 | 2.70\% | 25.82 | 5.04\% |
| 12/4/2002 | 11.55\% | 5.29\% | 8.04\% | -2.939312994 | 2.75\% | 28.03 | 6.26\% |
| 12/13/2002 | 11.75\% | 5.27\% | 8.02\% | -2.943691118 | 2.75\% | 28.29 | 6.48\% |
| 12/20/2002 | 11.40\% | 5.25\% | 8.01\% | -2.947529791 | 2.76\% | 28.48 | 6.15\% |
| 1/8/2003 | 11.10\% | 5.19\% | 7.96\% | -2.958831509 | 2.77\% | 28.93 | 5.91\% |
| 1/31/2003 | 12.45\% | 5.13\% | 7.89\% | -2.970990735 | 2.76\% | 29.66 | 7.32\% |
| 2/28/2003 | 12.30\% | 5.04\% | 7.79\% | -2.987360779 | 2.75\% | 30.74 | 7.26\% |
| 3/6/2003 | 10.75\% | 5.02\% | 7.76\% | -2.991151425 | 2.74\% | 30.99 | 5.73\% |
| 3/7/2003 | 9.96\% | 5.02\% | 7.75\% | -2.992064936 | 2.74\% | 31.04 | 4.94\% |
| 3/20/2003 | 12.00\% | 4.98\% | 7.70\% | -2.999369836 | 2.71\% | 31.54 | 7.02\% |
| 4/3/2003 | 12.00\% | 4.95\% | 7.63\% | -3.00477383 | 2.68\% | 31.74 | 7.05\% |
| 4/15/2003 | 11.15\% | 4.93\% | 7.59\% | -3.008823419 | 2.65\% | 31.70 | 6.22\% |
| 6/25/2003 | 10.75\% | 4.79\% | 7.24\% | -3.038054451 | 2.44\% | 28.27 | 5.96\% |
| 6/26/2003 | 10.75\% | 4.79\% | 7.23\% | -3.038241201 | 2.44\% | 28.19 | 5.96\% |
| 7/9/2003 | 9.75\% | 4.79\% | 7.18\% | -3.038725594 | 2.39\% | 27.44 | 4.96\% |
| 7/16/2003 | 9.75\% | 4.79\% | 7.16\% | -3.038182058 | 2.36\% | 26.97 | 4.96\% |
| 7/25/2003 | 9.50\% | 4.79\% | 7.12\% | -3.037864695 | 2.33\% | 26.27 | 4.71\% |
| 8/26/2003 | 10.50\% | 4.83\% | 7.02\% | -3.030347336 | 2.19\% | 24.78 | 5.67\% |
| 12/17/2003 | 9.85\% | 4.94\% | 6.75\% | -3.008547812 | 1.82\% | 20.47 | 4.91\% |
| 12/17/2003 | 10.70\% | 4.94\% | 6.75\% | -3.008547812 | 1.82\% | 20.47 | 5.76\% |
| 12/18/2003 | 11.50\% | 4.94\% | 6.75\% | -3.008306374 | 1.81\% | 20.40 | 6.56\% |
| 12/19/2003 | 12.00\% | 4.94\% | 6.75\% | -3.008139377 | 1.81\% | 20.31 | 7.06\% |
| 12/19/2003 | 12.00\% | 4.94\% | 6.75\% | -3.008139377 | 1.81\% | 20.31 | 7.06\% |
| 12/23/2003 | 10.50\% | 4.94\% | 6.74\% | -3.007905668 | 1.80\% | 20.15 | 5.56\% |
| 1/13/2004 | 12.00\% | 4.95\% | 6.71\% | -3.006044052 | 1.76\% | 19.31 | 7.05\% |
| 3/2/2004 | 10.75\% | 4.99\% | 6.63\% | -2.997661168 | 1.63\% | 18.17 | 5.76\% |
| 3/26/2004 | 10.25\% | 5.02\% | 6.60\% | -2.990888746 | 1.58\% | 17.96 | 5.23\% |
| 4/5/2004 | 11.25\% | 5.03\% | 6.60\% | -2.98876185 | 1.57\% | 17.85 | 6.22\% |
| 5/18/2004 | 10.50\% | 5.07\% | 6.61\% | -2.981503433 | 1.54\% | 17.43 | 5.43\% |
| 5/25/2004 | 10.25\% | 5.07\% | 6.60\% | -2.980961895 | 1.53\% | 17.36 | 5.18\% |
| 5/27/2004 | 10.25\% | 5.08\% | 6.60\% | -2.980817422 | 1.52\% | 17.33 | 5.17\% |
| 6/2/2004 | 11.22\% | 5.08\% | 6.59\% | -2.980403032 | 1.52\% | 17.30 | 6.14\% |
| 6/30/2004 | 10.50\% | 5.10\% | 6.57\% | -2.975822055 | 1.47\% | 16.96 | 5.40\% |
| 6/30/2004 | 10.50\% | 5.10\% | 6.57\% | -2.975822055 | 1.47\% | 16.96 | 5.40\% |
| 7/16/2004 | 11.60\% | 5.11\% | 6.56\% | -2.974028017 | 1.45\% | 16.69 | 6.49\% |
| 8/25/2004 | 10.25\% | 5.10\% | 6.53\% | -2.975274132 | 1.43\% | 16.53 | 5.15\% |
| 9/9/2004 | 10.40\% | 5.10\% | 6.51\% | -2.976412668 | 1.42\% | 16.35 | 5.30\% |
| 11/9/2004 | 10.50\% | 5.07\% | 6.43\% | -2.982694322 | 1.37\% | 15.94 | 5.43\% |
| 11/23/2004 | 11.00\% | 5.06\% | 6.42\% | -2.983091699 | 1.36\% | 15.75 | 5.94\% |
| 12/14/2004 | 10.97\% | 5.07\% | 6.42\% | -2.982380897 | 1.35\% | 15.59 | 5.90\% |
| 12/21/2004 | 11.25\% | 5.07\% | 6.41\% | -2.981810537 | 1.34\% | 15.51 | 6.18\% |
| 12/21/2004 | 11.50\% | 5.07\% | 6.41\% | -2.981810537 | 1.34\% | 15.51 | 6.43\% |
| 12/22/2004 | 10.70\% | 5.07\% | 6.41\% | -2.981683878 | 1.34\% | 15.47 | 5.63\% |
| 12/22/2004 | 11.50\% | 5.07\% | 6.41\% | -2.981683878 | 1.34\% | 15.47 | 6.43\% |
| 12/29/2004 | 9.85\% | 5.08\% | 6.41\% | -2.980600108 | 1.34\% | 15.30 | 4.77\% |
| 1/6/2005 | 10.70\% | 5.08\% | 6.41\% | -2.980446978 | 1.33\% | 15.12 | 5.62\% |
| 2/18/2005 | 10.30\% | 4.98\% | 6.33\% | -3.000646136 | 1.35\% | 14.59 | 5.32\% |
| 2/25/2005 | 10.50\% | 4.96\% | 6.31\% | -3.004643114 | 1.35\% | 14.46 | 5.54\% |
| 3/10/2005 | 11.00\% | 4.93\% | 6.27\% | -3.010737966 | 1.34\% | 14.18 | 6.07\% |
| 3/24/2005 | 10.30\% | 4.89\% | 6.23\% | -3.017006419 | 1.34\% | 14.05 | 5.41\% |
| 4/4/2005 | 10.00\% | 4.87\% | 6.21\% | -3.021138837 | 1.33\% | 14.02 | 5.13\% |
| 4/7/2005 | 10.25\% | 4.87\% | 6.19\% | -3.022686157 | 1.33\% | 14.00 | 5.38\% |
| 5/18/2005 | 10.25\% | 4.78\% | 6.08\% | -3.040911423 | 1.30\% | 13.89 | 5.47\% |
| 5/25/2005 | 10.75\% | 4.76\% | 6.06\% | -3.044157534 | 1.30\% | 13.75 | 5.99\% |
| 5/26/2005 | 9.75\% | 4.76\% | 6.06\% | -3.044786764 | 1.30\% | 13.71 | 4.99\% |
| 6/1/2005 | 9.75\% | 4.75\% | 6.05\% | -3.047722875 | 1.30\% | 13.64 | 5.00\% |
| 7/19/2005 | 11.50\% | 4.64\% | 5.95\% | -3.069666948 | 1.31\% | 13.17 | 6.86\% |

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| 8/5/2005 | 11.75\% | 4.62\% | 5.93\% | -3.074217217 | 1.31\% | 12.94 | 7.13\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8/15/2005 | 10.13\% | 4.61\% | 5.92\% | -3.076430355 | 1.31\% | 12.84 | 5.52\% |
| 9/28/2005 | 10.00\% | 4.54\% | 5.87\% | -3.091984314 | 1.32\% | 12.77 | 5.46\% |
| 10/4/2005 | 10.75\% | 4.53\% | 5.86\% | -3.093410813 | 1.33\% | 12.78 | 6.22\% |
| 12/12/2005 | 11.00\% | 4.55\% | 5.93\% | -3.090657422 | 1.38\% | 12.97 | 6.45\% |
| 12/13/2005 | 10.75\% | 4.55\% | 5.93\% | -3.090774901 | 1.38\% | 12.96 | 6.20\% |
| 12/21/2005 | 10.29\% | 4.54\% | 5.93\% | -3.091653062 | 1.39\% | 12.91 | 5.75\% |
| 12/21/2005 | 10.40\% | 4.54\% | 5.93\% | -3.091653062 | 1.39\% | 12.91 | 5.86\% |
| 12/22/2005 | 11.15\% | 4.54\% | 5.94\% | -3.091878642 | 1.39\% | 12.90 | 6.61\% |
| 12/22/2005 | 11.00\% | 4.54\% | 5.94\% | -3.091878642 | 1.39\% | 12.90 | 6.46\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.94\% | -3.092997227 | 1.40\% | 12.87 | 5.46\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.94\% | -3.092997227 | 1.40\% | 12.87 | 5.46\% |
| 1/5/2006 | 11.00\% | 4.53\% | 5.93\% | -3.094948 | 1.41\% | 12.82 | 6.47\% |
| 1/27/2006 | 9.75\% | 4.52\% | 5.94\% | -3.096670977 | 1.42\% | 12.72 | 5.23\% |
| 3/3/2006 | 10.39\% | 4.53\% | 5.96\% | -3.094156765 | 1.43\% | 12.39 | 5.86\% |
| 4/17/2006 | 10.20\% | 4.62\% | 6.05\% | -3.075605406 | 1.44\% | 12.34 | 5.58\% |
| 4/26/2006 | 10.60\% | 4.64\% | 6.08\% | -3.070230581 | 1.44\% | 12.34 | 5.96\% |
| 5/17/2006 | 11.60\% | 4.69\% | 6.14\% | -3.058721844 | 1.45\% | 12.47 | 6.91\% |
| 6/6/2006 | 10.00\% | 4.75\% | 6.19\% | -3.047813395 | 1.44\% | 12.72 | 5.25\% |
| 6/27/2006 | 10.75\% | 4.80\% | 6.25\% | -3.036302206 | 1.45\% | 13.07 | 5.95\% |
| 7/6/2006 | 10.20\% | 4.83\% | 6.28\% | -3.031062883 | 1.45\% | 13.12 | 5.37\% |
| 7/24/2006 | 9.60\% | 4.86\% | 6.32\% | -3.02480261 | 1.46\% | 13.29 | 4.74\% |
| 7/26/2006 | 10.50\% | 4.86\% | 6.33\% | -3.023940481 | 1.47\% | 13.29 | 5.64\% |
| 7/28/2006 | 10.05\% | 4.87\% | 6.33\% | -3.022998842 | 1.47\% | 13.27 | 5.18\% |
| 8/23/2006 | 9.55\% | 4.89\% | 6.36\% | -3.018275015 | 1.47\% | 13.20 | 4.66\% |
| 9/1/2006 | 10.54\% | 4.90\% | 6.36\% | -3.016566705 | 1.47\% | 13.19 | 5.64\% |
| 9/14/2006 | 10.00\% | 4.91\% | 6.37\% | -3.014511628 | 1.47\% | 13.25 | 5.09\% |
| 10/6/2006 | 9.67\% | 4.92\% | 6.37\% | -3.011845109 | 1.45\% | 13.30 | 4.75\% |
| 11/21/2006 | 10.08\% | 4.95\% | 6.39\% | -3.005242783 | 1.44\% | 13.12 | 5.13\% |
| 11/21/2006 | 10.08\% | 4.95\% | 6.39\% | -3.005242783 | 1.44\% | 13.12 | 5.13\% |
| 11/21/2006 | 10.12\% | 4.95\% | 6.39\% | -3.005242783 | 1.44\% | 13.12 | 5.17\% |
| 12/1/2006 | 10.50\% | 4.96\% | 6.38\% | -3.004548713 | 1.43\% | 13.07 | 5.54\% |
| 12/1/2006 | 10.25\% | 4.96\% | 6.38\% | -3.004548713 | 1.43\% | 13.07 | 5.29\% |
| 12/7/2006 | 10.75\% | 4.96\% | 6.38\% | -3.004570614 | 1.43\% | 13.06 | 5.79\% |
| 12/21/2006 | 10.90\% | 4.95\% | 6.38\% | -3.004971508 | 1.42\% | 12.98 | 5.95\% |
| 12/21/2006 | 11.25\% | 4.95\% | 6.38\% | -3.004971508 | 1.42\% | 12.98 | 6.30\% |
| 12/22/2006 | 10.25\% | 4.95\% | 6.38\% | -3.00491217 | 1.42\% | 12.98 | 5.30\% |
| 1/5/2007 | 10.00\% | 4.95\% | 6.37\% | -3.00518353 | 1.42\% | 12.98 | 5.05\% |
| 1/11/2007 | 10.10\% | 4.95\% | 6.37\% | -3.00597145 | 1.42\% | 12.98 | 5.15\% |
| 1/11/2007 | 10.10\% | 4.95\% | 6.37\% | -3.00597145 | 1.42\% | 12.98 | 5.15\% |
| 1/11/2007 | 10.90\% | 4.95\% | 6.37\% | -3.00597145 | 1.42\% | 12.98 | 5.95\% |
| 1/12/2007 | 10.10\% | 4.95\% | 6.37\% | -3.006139 | 1.42\% | 12.98 | 5.15\% |
| 1/13/2007 | 10.40\% | 4.95\% | 6.36\% | -3.006139 | 1.41\% | 12.98 | 5.45\% |
| 1/19/2007 | 10.80\% | 4.94\% | 6.36\% | -3.00724106 | 1.42\% | 12.96 | 5.86\% |
| 3/21/2007 | 11.35\% | 4.86\% | 6.26\% | -3.023136318 | 1.40\% | 12.81 | 6.49\% |
| 3/22/2007 | 9.75\% | 4.86\% | 6.26\% | -3.023543588 | 1.40\% | 12.78 | 4.89\% |
| 5/15/2007 | 10.00\% | 4.81\% | 6.18\% | -3.035131286 | 1.38\% | 12.22 | 5.19\% |
| 5/17/2007 | 10.25\% | 4.80\% | 6.18\% | -3.035523183 | 1.38\% | 12.21 | 5.45\% |
| 5/17/2007 | 10.25\% | 4.80\% | 6.18\% | -3.035523183 | 1.38\% | 12.21 | 5.45\% |
| 5/22/2007 | 10.20\% | 4.80\% | 6.18\% | -3.035813023 | 1.37\% | 12.19 | 5.40\% |
| 5/22/2007 | 10.50\% | 4.80\% | 6.18\% | -3.035813023 | 1.37\% | 12.19 | 5.70\% |
| 5/23/2007 | 10.70\% | 4.80\% | 6.18\% | -3.035807374 | 1.37\% | 12.18 | 5.90\% |
| 5/25/2007 | 9.67\% | 4.80\% | 6.18\% | -3.035748374 | 1.37\% | 12.16 | 4.87\% |
| 6/15/2007 | 9.90\% | 4.82\% | 6.18\% | -3.032185058 | 1.36\% | 12.27 | 5.08\% |
| 6/21/2007 | 10.20\% | 4.83\% | 6.19\% | -3.030757034 | 1.36\% | 12.30 | 5.37\% |
| 6/22/2007 | 10.50\% | 4.83\% | 6.19\% | -3.030419127 | 1.36\% | 12.31 | 5.67\% |
| 6/28/2007 | 10.75\% | 4.84\% | 6.19\% | -3.028770569 | 1.35\% | 12.38 | 5.91\% |
| 7/12/2007 | 9.67\% | 4.86\% | 6.21\% | -3.024328119 | 1.35\% | 12.56 | 4.81\% |
| 7/19/2007 | 10.00\% | 4.87\% | 6.21\% | -3.023067835 | 1.35\% | 12.65 | 5.13\% |
| 7/19/2007 | 10.00\% | 4.87\% | 6.21\% | -3.023067835 | 1.35\% | 12.65 | 5.13\% |
| 8/15/2007 | 10.40\% | 4.88\% | 6.24\% | -3.020041442 | 1.36\% | 13.76 | 5.52\% |
| 10/9/2007 | 10.00\% | 4.91\% | 6.32\% | -3.01403012 | 1.41\% | 15.94 | 5.09\% |
| 10/17/2007 | 9.10\% | 4.91\% | 6.32\% | -3.013249941 | 1.41\% | 16.15 | 4.19\% |
| 10/31/2007 | 9.96\% | 4.90\% | 6.33\% | -3.015111405 | 1.43\% | 16.62 | 5.06\% |
| 11/29/2007 | 10.90\% | 4.87\% | 6.34\% | -3.022447269 | 1.47\% | 18.14 | 6.03\% |
| 12/6/2007 | 10.75\% | 4.86\% | 6.35\% | -3.023872047 | 1.49\% | 18.45 | 5.89\% |
| 12/13/2007 | 9.96\% | 4.86\% | 6.36\% | -3.024379313 | 1.50\% | 18.60 | 5.10\% |
| 12/14/2007 | 10.70\% | 4.86\% | 6.37\% | -3.024419338 | 1.51\% | 18.62 | 5.84\% |
| 12/14/2007 | 10.80\% | 4.86\% | 6.37\% | -3.024419338 | 1.51\% | 18.62 | 5.94\% |
| 12/19/2007 | 10.20\% | 4.86\% | 6.37\% | -3.024925123 | 1.52\% | 18.74 | 5.34\% |
| 12/20/2007 | 10.20\% | 4.86\% | 6.37\% | -3.025146904 | 1.52\% | 18.77 | 5.34\% |
| 12/20/2007 | 11.00\% | 4.86\% | 6.37\% | -3.025146904 | 1.52\% | 18.77 | 6.14\% |
| 12/28/2007 | 10.25\% | 4.85\% | 6.39\% | -3.026113672 | 1.54\% | 18.84 | 5.40\% |
| 12/31/2007 | 11.25\% | 4.85\% | 6.39\% | -3.026472202 | 1.54\% | 18.88 | 6.40\% |
| 1/8/2008 | 10.75\% | 4.83\% | 6.39\% | -3.029431558 | 1.56\% | 19.16 | 5.92\% |
| 1/17/2008 | 10.75\% | 4.81\% | 6.40\% | -3.033564395 | 1.58\% | 19.51 | 5.94\% |
| 1/28/2008 | 9.40\% | 4.80\% | 6.40\% | -3.037591447 | 1.60\% | 19.99 | 4.60\% |
| 1/30/2008 | 10.00\% | 4.79\% | 6.40\% | -3.038613023 | 1.61\% | 20.14 | 5.21\% |
| 1/31/2008 | 10.71\% | 4.79\% | 6.40\% | -3.039198674 | 1.61\% | 20.21 | 5.92\% |
| 2/29/2008 | 10.25\% | 4.75\% | 6.44\% | -3.047449143 | 1.70\% | 21.45 | 5.50\% |
| 3/12/2008 | 10.25\% | 4.73\% | 6.46\% | -3.052209146 | 1.73\% | 21.99 | 5.52\% |
| 3/25/2008 | 9.10\% | 4.68\% | 6.47\% | -3.061558162 | 1.79\% | 22.55 | 4.42\% |

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| 4/22/2008 | 10.25\% | 4.60\% | 6.49\% | -3.078832624 | 1.89\% | 23.32 | 5.65\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/24/2008 | 10.10\% | 4.60\% | 6.50\% | -3.080067582 | 1.90\% | 23.35 | 5.50\% |
| 5/1/2008 | 10.70\% | 4.58\% | 6.50\% | -3.082615966 | 1.92\% | 23.46 | 6.12\% |
| 5/19/2008 | 11.00\% | 4.56\% | 6.52\% | -3.087540151 | 1.96\% | 23.32 | 6.44\% |
| 5/27/2008 | 10.00\% | 4.55\% | 6.53\% | -3.090159256 | 1.98\% | 23.18 | 5.45\% |
| 6/10/2008 | 10.70\% | 4.54\% | 6.55\% | -3.091971478 | 2.01\% | 22.89 | 6.16\% |
| 6/27/2008 | 11.04\% | 4.54\% | 6.58\% | -3.092903964 | 2.05\% | 22.73 | 6.50\% |
| 6/27/2008 | 10.50\% | 4.54\% | 6.58\% | -3.092903964 | 2.05\% | 22.73 | 5.96\% |
| 7/10/2008 | 10.43\% | 4.52\% | 6.60\% | -3.096262708 | 2.07\% | 22.88 | 5.91\% |
| 7/16/2008 | 9.40\% | 4.51\% | 6.60\% | -3.09785137 | 2.09\% | 23.08 | 4.89\% |
| 7/30/2008 | 10.80\% | 4.51\% | 6.64\% | -3.099343455 | 2.13\% | 23.33 | 6.29\% |
| 7/31/2008 | 10.70\% | 4.51\% | 6.64\% | -3.09948303 | 2.13\% | 23.34 | 6.19\% |
| 8/11/2008 | 10.25\% | 4.50\% | 6.67\% | -3.099990996 | 2.16\% | 23.37 | 5.75\% |
| 8/26/2008 | 10.18\% | 4.50\% | 6.70\% | -3.101220659 | 2.20\% | 23.23 | 5.68\% |
| 9/10/2008 | 10.30\% | 4.50\% | 6.73\% | -3.102089265 | 2.24\% | 23.01 | 5.80\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.77\% | -3.105445296 | 2.29\% | 23.46 | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.77\% | -3.105445296 | 2.29\% | 23.46 | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.77\% | -3.105445296 | 2.29\% | 23.46 | 6.17\% |
| 9/30/2008 | 10.20\% | 4.47\% | 6.79\% | -3.106880921 | 2.32\% | 23.77 | 5.73\% |
| 10/8/2008 | 10.15\% | 4.46\% | 6.83\% | -3.109380865 | 2.37\% | 24.61 | 5.69\% |
| 11/13/2008 | 10.55\% | 4.45\% | 7.14\% | -3.113307793 | 2.70\% | 29.58 | 6.10\% |
| 11/17/2008 | 10.20\% | 4.44\% | 7.17\% | -3.113801229 | 2.73\% | 29.98 | 5.76\% |
| 12/1/2008 | 10.25\% | 4.39\% | 7.27\% | -3.124869944 | 2.88\% | 31.79 | 5.86\% |
| 12/23/2008 | 11.00\% | 4.27\% | 7.40\% | -3.153518936 | 3.13\% | 34.13 | 6.73\% |
| 12/29/2008 | 10.00\% | 4.24\% | 7.41\% | -3.16118106 | 3.17\% | 34.34 | 5.76\% |
| 12/29/2008 | 10.20\% | 4.24\% | 7.41\% | -3.16118106 | 3.17\% | 34.34 | 5.96\% |
| 12/31/2008 | 10.75\% | 4.22\% | 7.42\% | -3.165299335 | 3.20\% | 34.47 | 6.53\% |
| 1/14/2009 | 10.50\% | 4.15\% | 7.48\% | -3.182081347 | 3.33\% | 35.25 | 6.35\% |
| 1/21/2009 | 10.50\% | 4.11\% | 7.50\% | -3.191026293 | 3.38\% | 35.81 | 6.39\% |
| 1/21/2009 | 10.50\% | 4.11\% | 7.50\% | -3.191026293 | 3.38\% | 35.81 | 6.39\% |
| 1/21/2009 | 10.50\% | 4.11\% | 7.50\% | -3.191026293 | 3.38\% | 35.81 | 6.39\% |
| 1/27/2009 | 10.76\% | 4.09\% | 7.52\% | -3.196810512 | 3.43\% | 36.26 | 6.67\% |
| 1/30/2009 | 10.50\% | 4.07\% | 7.54\% | -3.200583476 | 3.46\% | 36.58 | 6.43\% |
| 2/4/2009 | 8.75\% | 4.06\% | 7.55\% | -3.203900576 | 3.49\% | 36.94 | 4.69\% |
| 3/4/2009 | 10.50\% | 3.96\% | 7.64\% | -3.228968418 | 3.69\% | 39.59 | 6.54\% |
| 3/12/2009 | 11.50\% | 3.93\% | 7.68\% | -3.237197803 | 3.75\% | 40.42 | 7.57\% |
| 4/2/2009 | 11.10\% | 3.85\% | 7.77\% | -3.257597848 | 3.92\% | 42.04 | 7.25\% |
| 4/21/2009 | 10.61\% | 3.80\% | 7.83\% | -3.270969095 | 4.04\% | 42.91 | 6.81\% |
| 4/24/2009 | 10.00\% | 3.78\% | 7.85\% | -3.274149923 | 4.07\% | 43.10 | 6.22\% |
| 4/30/2009 | 11.25\% | 3.77\% | 7.87\% | -3.277842627 | 4.10\% | 43.29 | 7.48\% |
| 5/4/2009 | 10.74\% | 3.77\% | 7.88\% | -3.279318491 | 4.12\% | 43.40 | 6.97\% |
| 5/20/2009 | 10.25\% | 3.74\% | 7.92\% | -3.286204298 | 4.18\% | 43.96 | 6.51\% |
| 5/28/2009 | 10.50\% | 3.74\% | 7.94\% | -3.286261679 | 4.20\% | 44.24 | 6.76\% |
| 6/22/2009 | 10.00\% | 3.76\% | 7.98\% | -3.280184058 | 4.22\% | 45.01 | 6.24\% |
| 6/24/2009 | 10.80\% | 3.76\% | 7.98\% | -3.27948786 | 4.22\% | 45.06 | 7.04\% |
| 7/8/2009 | 10.63\% | 3.76\% | 7.98\% | -3.279556337 | 4.22\% | 44.95 | 6.87\% |
| 7/17/2009 | 10.50\% | 3.77\% | 7.96\% | -3.276804414 | 4.19\% | 44.55 | 6.73\% |
| 8/31/2009 | 10.25\% | 3.82\% | 7.63\% | -3.265340673 | 3.81\% | 38.96 | 6.43\% |
| 10/14/2009 | 10.70\% | 4.02\% | 7.28\% | $-3.214483475$ | 3.26\% | 33.90 | 6.68\% |
| 10/23/2009 | 10.88\% | 4.06\% | 7.22\% | -3.203174858 | 3.15\% | 33.22 | 6.82\% |
| 11/2/2009 | 10.70\% | 4.10\% | 7.17\% | -3.195312051 | 3.08\% | 32.57 | 6.60\% |
| 11/3/2009 | 10.70\% | 4.10\% | 7.16\% | -3.194201474 | 3.06\% | 32.48 | 6.60\% |
| 11/24/2009 | 10.25\% | 4.16\% | 7.04\% | -3.180528246 | 2.88\% | 30.89 | 6.09\% |
| 11/25/2009 | 10.75\% | 4.16\% | 7.03\% | -3.179847438 | 2.87\% | 30.79 | 6.59\% |
| 11/30/2009 | 10.35\% | 4.17\% | 7.02\% | -3.177361286 | 2.85\% | 30.58 | 6.18\% |
| 12/3/2009 | 10.50\% | 4.18\% | 6.99\% | -3.175090026 | 2.82\% | 30.18 | 6.32\% |
| 12/7/2009 | 10.70\% | 4.19\% | 6.98\% | -3.173207062 | 2.79\% | 29.90 | 6.51\% |
| 12/16/2009 | 11.00\% | 4.22\% | 6.93\% | -3.165967328 | 2.71\% | 28.98 | 6.78\% |
| 12/16/2009 | 10.90\% | 4.22\% | 6.93\% | -3.165967328 | 2.71\% | 28.98 | 6.68\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.91\% | -3.164249054 | 2.69\% | 28.70 | 6.18\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.91\% | -3.164249054 | 2.69\% | 28.70 | 6.18\% |
| 12/22/2009 | 10.20\% | 4.23\% | 6.90\% | -3.162096838 | 2.66\% | 28.46 | 5.97\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.90\% | -3.162096838 | 2.66\% | 28.46 | 6.17\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.90\% | -3.162096838 | 2.66\% | 28.46 | 6.17\% |
| 12/30/2009 | 10.00\% | 4.26\% | 6.85\% | -3.155121845 | 2.59\% | 27.91 | 5.74\% |
| 1/4/2010 | 10.80\% | 4.28\% | 6.84\% | -3.151395302 | 2.56\% | 27.67 | 6.52\% |
| 1/11/2010 | 11.00\% | 4.31\% | 6.79\% | -3.145305506 | 2.49\% | 27.09 | 6.69\% |
| 1/26/2010 | 10.13\% | 4.35\% | 6.69\% | -3.134367263 | 2.34\% | 26.08 | 5.78\% |
| 1/27/2010 | 10.40\% | 4.36\% | 6.68\% | -3.133477673 | 2.32\% | 26.01 | 6.04\% |
| 1/27/2010 | 10.40\% | 4.36\% | 6.68\% | -3.133477673 | 2.32\% | 26.01 | 6.04\% |
| 1/27/2010 | 10.70\% | 4.36\% | 6.68\% | -3.133477673 | 2.32\% | 26.01 | 6.34\% |
| 2/9/2010 | 9.80\% | 4.38\% | 6.60\% | -3.127793047 | 2.21\% | 25.43 | 5.42\% |
| 2/18/2010 | 10.60\% | 4.40\% | 6.55\% | -3.123777636 | 2.15\% | 25.05 | 6.20\% |
| 2/24/2010 | 10.18\% | 4.41\% | 6.52\% | -3.121686872 | 2.11\% | 24.80 | 5.77\% |
| 3/2/2010 | 9.63\% | 4.41\% | 6.49\% | -3.121269972 | 2.08\% | 24.54 | 5.22\% |
| 3/4/2010 | 10.50\% | 4.41\% | 6.47\% | -3.120908261 | 2.06\% | 24.43 | 6.09\% |
| 3/5/2010 | 10.50\% | 4.41\% | 6.46\% | -3.120784568 | 2.05\% | 24.37 | 6.09\% |
| 3/11/2010 | 11.90\% | 4.42\% | 6.44\% | -3.120123654 | 2.02\% | 24.10 | 7.48\% |
| 3/17/2010 | 10.00\% | 4.41\% | 6.40\% | -3.120488042 | 1.99\% | 23.85 | 5.59\% |
| 3/25/2010 | 10.15\% | 4.42\% | 6.36\% | -3.119876023 | 1.94\% | 23.47 | 5.73\% |
| 4/2/2010 | 10.10\% | 4.43\% | 6.33\% | -3.117231477 | 1.90\% | 23.15 | 5.67\% |
| 4/27/2010 | 10.00\% | 4.46\% | 6.26\% | -3.110636567 | 1.80\% | 22.16 | 5.54\% |

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| 4/29/2010 | 9.90\% | 4.46\% | 6.25\% | -3.110494299 | 1.79\% | 22.11 | 5.44\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 4/29/2010 | 10.06\% | 4.46\% | 6.25\% | -3.110494299 | 1.79\% | 22.11 | 5.60\% |
| 4/29/2010 | 10.26\% | 4.46\% | 6.25\% | -3.110494299 | 1.79\% | 22.11 | 5.80\% |
| 5/12/2010 | 10.30\% | 4.45\% | 6.21\% | -3.111299926 | 1.75\% | 22.26 | 5.85\% |
| 5/12/2010 | 10.30\% | 4.45\% | 6.21\% | -3.111299926 | 1.75\% | 22.26 | 5.85\% |
| 5/28/2010 | 10.20\% | 4.44\% | 6.17\% | -3.113932092 | 1.73\% | 22.81 | 5.76\% |
| 5/28/2010 | 10.10\% | 4.44\% | 6.17\% | -3.113932092 | 1.73\% | 22.81 | 5.66\% |
| 6/7/2010 | 10.30\% | 4.44\% | 6.17\% | -3.114055732 | 1.73\% | 23.00 | 5.86\% |
| 6/16/2010 | 10.00\% | 4.44\% | 6.17\% | -3.114597301 | 1.73\% | 23.16 | 5.56\% |
| 6/28/2010 | 10.50\% | 4.43\% | 6.17\% | -3.115717468 | 1.73\% | 23.19 | 6.07\% |
| 6/28/2010 | 9.67\% | 4.43\% | 6.17\% | -3.115717468 | 1.73\% | 23.19 | 5.24\% |
| 6/30/2010 | 9.40\% | 4.43\% | 6.17\% | -3.116340439 | 1.74\% | 23.30 | 4.97\% |
| 7/1/2010 | 10.25\% | 4.43\% | 6.17\% | -3.116562245 | 1.74\% | 23.34 | 5.82\% |
| 7/15/2010 | 10.70\% | 4.43\% | 6.17\% | -3.117118905 | 1.74\% | 23.43 | 6.27\% |
| 7/15/2010 | 10.53\% | 4.43\% | 6.17\% | -3.117118905 | 1.74\% | 23.43 | 6.10\% |
| 7/30/2010 | 10.70\% | 4.41\% | 6.16\% | -3.120221767 | 1.74\% | 23.39 | 6.29\% |
| 8/4/2010 | 10.50\% | 4.41\% | 6.15\% | -3.120995743 | 1.74\% | 23.40 | 6.09\% |
| 8/6/2010 | 9.83\% | 4.41\% | 6.15\% | -3.121498459 | 1.74\% | 23.41 | 5.42\% |
| 8/25/2010 | 9.90\% | 4.37\% | 6.10\% | -3.130131006 | 1.73\% | 23.38 | 5.53\% |
| 9/3/2010 | 10.60\% | 4.35\% | 6.07\% | -3.135016174 | 1.72\% | 23.44 | 6.25\% |
| 9/14/2010 | 10.70\% | 4.33\% | 6.06\% | -3.139529881 | 1.73\% | 23.46 | 6.37\% |
| 9/16/2010 | 10.00\% | 4.32\% | 6.05\% | -3.140935713 | 1.73\% | 23.44 | 5.68\% |
| 9/16/2010 | 10.00\% | 4.32\% | 6.05\% | -3.140935713 | 1.73\% | 23.44 | 5.68\% |
| 9/30/2010 | 9.75\% | 4.28\% | 6.02\% | -3.150230015 | 1.73\% | 23.47 | 5.47\% |
| 10/14/2010 | 10.35\% | 4.24\% | 5.98\% | -3.160773329 | 1.74\% | 23.50 | 6.11\% |
| 10/28/2010 | 10.70\% | 4.21\% | 5.95\% | -3.168341788 | 1.75\% | 23.55 | 6.49\% |
| 11/2/2010 | 10.38\% | 4.20\% | 5.95\% | -3.17043425 | 1.75\% | 23.60 | 6.18\% |
| 11/4/2010 | 10.70\% | 4.19\% | 5.94\% | -3.171543411 | 1.75\% | 23.54 | 6.51\% |
| 11/19/2010 | 10.20\% | 4.17\% | 5.93\% | -3.176070512 | 1.76\% | 23.28 | 6.03\% |
| 11/22/2010 | 10.00\% | 4.17\% | 5.93\% | -3.176584599 | 1.76\% | 23.24 | 5.83\% |
| 12/1/2010 | 10.13\% | 4.16\% | 5.92\% | -3.180510957 | 1.76\% | 23.21 | 5.97\% |
| 12/6/2010 | 9.86\% | 4.15\% | 5.91\% | -3.181566727 | 1.76\% | 23.18 | 5.71\% |
| 12/9/2010 | 10.25\% | 4.15\% | 5.91\% | -3.182246769 | 1.76\% | 23.14 | 6.10\% |
| 12/13/2010 | 10.70\% | 4.15\% | 5.91\% | -3.182883161 | 1.76\% | 23.13 | 6.55\% |
| 12/14/2010 | 10.13\% | 4.15\% | 5.91\% | -3.183079988 | 1.76\% | 23.12 | 5.98\% |
| 12/15/2010 | 10.44\% | 4.15\% | 5.91\% | -3.183167264 | 1.76\% | 23.12 | 6.29\% |
| 12/17/2010 | 10.00\% | 4.14\% | 5.90\% | -3.183507953 | 1.76\% | 23.11 | 5.86\% |
| 12/20/2010 | 10.60\% | 4.14\% | 5.90\% | -3.183684527 | 1.76\% | 23.10 | 6.46\% |
| 12/21/2010 | 10.30\% | 4.14\% | 5.90\% | -3.18386368 | 1.76\% | 23.09 | 6.16\% |
| 12/27/2010 | 9.90\% | 4.14\% | 5.90\% | -3.184538125 | 1.76\% | 23.07 | 5.76\% |
| 12/29/2010 | 11.15\% | 4.14\% | 5.90\% | -3.185177677 | 1.76\% | 23.07 | 7.01\% |
| 1/5/2011 | 10.15\% | 4.13\% | 5.89\% | -3.187112059 | 1.77\% | 23.08 | 6.02\% |
| 1/12/2011 | 10.30\% | 4.12\% | 5.89\% | -3.188930455 | 1.77\% | 23.07 | 6.18\% |
| 1/13/2011 | 10.30\% | 4.12\% | 5.89\% | -3.189224696 | 1.77\% | 23.06 | 6.18\% |
| 1/18/2011 | 10.00\% | 4.12\% | 5.88\% | -3.189817587 | 1.77\% | 23.05 | 5.88\% |
| 1/20/2011 | 9.30\% | 4.12\% | 5.88\% | -3.190121488 | 1.77\% | 23.06 | 5.18\% |
| 1/20/2011 | 10.13\% | 4.12\% | 5.88\% | -3.190121488 | 1.77\% | 23.06 | 6.01\% |
| 1/31/2011 | 9.60\% | 4.11\% | 5.88\% | -3.190920371 | 1.76\% | 23.12 | 5.49\% |
| 2/3/2011 | 10.00\% | 4.11\% | 5.88\% | -3.190715033 | 1.76\% | 23.13 | 5.89\% |
| 2/25/2011 | 10.00\% | 4.14\% | 5.88\% | -3.183839904 | 1.74\% | 22.58 | 5.86\% |
| 3/25/2011 | 9.80\% | 4.18\% | 5.87\% | -3.175519517 | 1.70\% | 21.29 | 5.62\% |
| 3/30/2011 | 10.00\% | 4.18\% | 5.87\% | -3.173985214 | 1.69\% | 21.16 | 5.82\% |
| 4/12/2011 | 10.00\% | 4.21\% | 5.86\% | -3.167347489 | 1.65\% | 20.69 | 5.79\% |
| 4/25/2011 | 10.74\% | 4.23\% | 5.86\% | -3.162361798 | 1.63\% | 20.17 | 6.51\% |
| 4/26/2011 | 9.67\% | 4.24\% | 5.86\% | -3.161766449 | 1.62\% | 20.13 | 5.43\% |
| 4/27/2011 | 10.40\% | 4.24\% | 5.86\% | -3.161170032 | 1.62\% | 20.08 | 6.16\% |
| 5/4/2011 | 10.00\% | 4.25\% | 5.85\% | -3.159264664 | 1.61\% | 19.84 | 5.75\% |
| 5/4/2011 | 10.00\% | 4.25\% | 5.85\% | -3.159264664 | 1.61\% | 19.84 | 5.75\% |
| 5/24/2011 | 10.50\% | 4.27\% | 5.85\% | -3.153484574 | 1.58\% | 19.44 | 6.23\% |
| 6/8/2011 | 10.75\% | 4.30\% | 5.86\% | -3.145562201 | 1.55\% | 19.02 | 6.45\% |
| 6/16/2011 | 9.20\% | 4.32\% | 5.86\% | -3.142525313 | 1.55\% | 18.83 | 4.88\% |
| 6/17/2011 | 9.95\% | 4.32\% | 5.86\% | -3.142110224 | 1.55\% | 18.83 | 5.63\% |
| 7/13/2011 | 10.20\% | 4.37\% | 5.88\% | -3.131313145 | 1.51\% | 18.48 | 5.83\% |
| 8/1/2011 | 9.20\% | 4.39\% | 5.89\% | -3.126053204 | 1.50\% | 18.46 | 4.81\% |
| 8/8/2011 | 10.00\% | 4.38\% | 5.88\% | -3.127241649 | 1.49\% | 18.77 | 5.62\% |
| 8/11/2011 | 10.00\% | 4.38\% | 5.87\% | -3.128765757 | 1.49\% | 19.05 | 5.62\% |
| 8/12/2011 | 10.35\% | 4.38\% | 5.87\% | -3.129218642 | 1.49\% | 19.13 | 5.97\% |
| 8/19/2011 | 10.25\% | 4.36\% | 5.85\% | -3.133372714 | 1.49\% | 19.53 | 5.89\% |
| 9/2/2011 | 12.88\% | 4.32\% | 5.82\% | -3.141667397 | 1.50\% | 20.31 | 8.56\% |
| 9/22/2011 | 10.00\% | 4.24\% | 5.76\% | -3.160554415 | 1.52\% | 21.34 | 5.76\% |
| 10/12/2011 | 10.30\% | 4.14\% | 5.70\% | -3.185236225 | 1.57\% | 22.82 | 6.16\% |
| 10/20/2011 | 10.50\% | 4.10\% | 5.68\% | -3.194899365 | 1.58\% | 23.27 | 6.40\% |
| 11/30/2011 | 10.90\% | 3.87\% | 5.54\% | -3.251672762 | 1.66\% | 25.28 | 7.03\% |
| 11/30/2011 | 10.90\% | 3.87\% | 5.54\% | -3.251672762 | 1.66\% | 25.28 | 7.03\% |
| 12/14/2011 | 10.00\% | 3.79\% | 5.49\% | -3.271703753 | 1.70\% | 25.67 | 6.21\% |
| 12/14/2011 | 10.30\% | 3.79\% | 5.49\% | -3.271703753 | 1.70\% | 25.67 | 6.51\% |
| 12/20/2011 | 10.20\% | 3.76\% | 5.47\% | -3.280231611 | 1.71\% | 25.76 | 6.44\% |
| 12/21/2011 | 10.20\% | 3.75\% | 5.46\% | -3.282150288 | 1.71\% | 25.76 | 6.45\% |
| 12/22/2011 | 9.90\% | 3.75\% | 5.46\% | -3.284074128 | 1.71\% | 25.77 | 6.15\% |
| 12/22/2011 | 10.40\% | 3.75\% | 5.46\% | -3.284074128 | 1.71\% | 25.77 | 6.65\% |
| 12/23/2011 | 10.19\% | 3.74\% | 5.45\% | -3.285945923 | 1.71\% | 25.76 | 6.45\% |
| 1/25/2012 | 10.50\% | 3.57\% | 5.36\% | -3.333877869 | 1.80\% | 25.89 | 6.93\% |

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| 1/27/2012 | 10.50\% | 3.55\% | 5.35\% | -3.33779292 | 1.80\% | 25.91 | 6.95\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2/15/2012 | 10.20\% | 3.47\% | 5.29\% | -3.361409425 | 1.82\% | 26.12 | 6.73\% |
| 2/23/2012 | 9.90\% | 3.43\% | 5.27\% | -3.371270593 | 1.84\% | 26.14 | 6.47\% |
| 2/27/2012 | 10.25\% | 3.42\% | 5.27\% | -3.374743262 | 1.84\% | 26.15 | 6.83\% |
| 2/29/2012 | 10.40\% | 3.41\% | 5.26\% | -3.378194589 | 1.85\% | 26.16 | 6.99\% |
| 3/29/2012 | 10.37\% | 3.31\% | 5.20\% | -3.407607481 | 1.89\% | 25.99 | 7.06\% |
| 4/4/2012 | 10.00\% | 3.29\% | 5.19\% | -3.413550962 | 1.90\% | 25.89 | 6.71\% |
| 4/26/2012 | 10.00\% | 3.20\% | 5.14\% | -3.441427686 | 1.94\% | 25.91 | 6.80\% |
| 5/2/2012 | 10.00\% | 3.18\% | 5.13\% | -3.448747519 | 1.95\% | 25.85 | 6.82\% |
| 5/7/2012 | 9.80\% | 3.16\% | 5.12\% | -3.453275485 | 1.95\% | 25.85 | 6.64\% |
| 5/15/2012 | 10.00\% | 3.14\% | 5.10\% | -3.460060701 | 1.95\% | 25.79 | 6.86\% |
| 5/29/2012 | 10.05\% | 3.11\% | 5.08\% | -3.4721097 | 1.98\% | 25.23 | 6.94\% |
| 6/7/2012 | 10.30\% | 3.07\% | 5.07\% | -3.482000441 | 2.00\% | 24.77 | 7.23\% |
| 6/14/2012 | 9.40\% | 3.06\% | 5.06\% | -3.486617828 | 2.00\% | 24.45 | 6.34\% |
| 6/15/2012 | 10.40\% | 3.06\% | 5.06\% | -3.487549095 | 2.01\% | 24.40 | 7.34\% |
| 6/18/2012 | 9.60\% | 3.05\% | 5.06\% | -3.488645419 | 2.01\% | 24.33 | 6.55\% |
| 6/19/2012 | 9.25\% | 3.05\% | 5.06\% | -3.489530491 | 2.01\% | 24.25 | 6.20\% |
| 6/26/2012 | 10.10\% | 3.04\% | 5.06\% | -3.493695579 | 2.02\% | 23.82 | 7.06\% |
| 6/29/2012 | 10.00\% | 3.04\% | 5.05\% | -3.494637933 | 2.02\% | 23.58 | 6.96\% |
| 7/9/2012 | 10.20\% | 3.03\% | 5.05\% | -3.497048482 | 2.02\% | 23.14 | 7.17\% |
| 7/16/2012 | 9.80\% | 3.02\% | 5.04\% | -3.500418657 | 2.02\% | 22.59 | 6.78\% |
| 7/20/2012 | 9.81\% | 3.01\% | 5.04\% | -3.504340258 | 2.03\% | 22.07 | 6.80\% |
| 7/20/2012 | 9.31\% | 3.01\% | 5.04\% | -3.504340258 | 2.03\% | 22.07 | 6.30\% |
| 9/13/2012 | 9.80\% | 2.94\% | 4.99\% | -3.527182873 | 2.05\% | 19.11 | 6.86\% |
| 9/19/2012 | 10.05\% | 2.94\% | 4.99\% | -3.526826754 | 2.05\% | 18.84 | 7.11\% |
| 9/19/2012 | 9.80\% | 2.94\% | 4.99\% | -3.526826754 | 2.05\% | 18.84 | 6.86\% |
| 9/26/2012 | 9.50\% | 2.94\% | 4.98\% | -3.527062671 | 2.04\% | 18.51 | 6.56\% |
| 10/12/2012 | 9.60\% | 2.93\% | 4.95\% | -3.52951591 | 2.02\% | 18.04 | 6.67\% |
| 10/23/2012 | 9.75\% | 2.93\% | 4.93\% | -3.529590812 | 2.00\% | 17.84 | 6.82\% |
| 10/24/2012 | 10.30\% | 2.93\% | 4.93\% | -3.529748862 | 2.00\% | 17.83 | 7.37\% |
| 11/9/2012 | 10.30\% | 2.92\% | 4.90\% | -3.533860924 | 1.98\% | 17.75 | 7.38\% |
| 11/28/2012 | 10.40\% | 2.90\% | 4.86\% | -3.542070693 | 1.97\% | 17.60 | 7.50\% |
| 11/29/2012 | 9.88\% | 2.89\% | 4.86\% | -3.542597759 | 1.97\% | 17.58 | 6.99\% |
| 11/29/2012 | 9.75\% | 2.89\% | 4.86\% | -3.542597759 | 1.97\% | 17.58 | 6.86\% |
| 12/5/2012 | 9.71\% | 2.89\% | 4.85\% | -3.544668433 | 1.96\% | 17.53 | 6.82\% |
| 12/5/2012 | 10.40\% | 2.89\% | 4.85\% | -3.544668433 | 1.96\% | 17.53 | 7.51\% |
| 12/12/2012 | 9.80\% | 2.88\% | 4.84\% | -3.547301552 | 1.96\% | 17.48 | 6.92\% |
| 12/13/2012 | 10.50\% | 2.88\% | 4.84\% | -3.547776921 | 1.96\% | 17.47 | 7.62\% |
| 12/13/2012 | 9.50\% | 2.88\% | 4.84\% | -3.547776921 | 1.96\% | 17.47 | 6.62\% |
| 12/14/2012 | 10.40\% | 2.88\% | 4.83\% | -3.548313291 | 1.96\% | 17.47 | 7.52\% |
| 12/19/2012 | 9.71\% | 2.87\% | 4.83\% | -3.55032707 | 1.96\% | 17.44 | 6.84\% |
| 12/19/2012 | 10.25\% | 2.87\% | 4.83\% | -3.55032707 | 1.96\% | 17.44 | 7.38\% |
| 12/20/2012 | 10.40\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 7.53\% |
| 12/20/2012 | 10.30\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 7.43\% |
| 12/20/2012 | 10.45\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 7.58\% |
| 12/20/2012 | 10.25\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 7.38\% |
| 12/20/2012 | 10.25\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 7.38\% |
| 12/20/2012 | 9.80\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 6.93\% |
| 12/20/2012 | 9.50\% | 2.87\% | 4.83\% | -3.551071791 | 1.96\% | 17.43 | 6.63\% |
| 12/21/2012 | 10.20\% | 2.87\% | 4.82\% | -3.552029679 | 1.96\% | 17.43 | 7.33\% |
| 12/26/2012 | 9.80\% | 2.86\% | 4.82\% | -3.554468047 | 1.96\% | 17.46 | 6.94\% |
| 1/9/2013 | 9.70\% | 2.84\% | 4.79\% | -3.560007089 | 1.95\% | 17.50 | 6.86\% |
| 1/9/2013 | 9.70\% | 2.84\% | 4.79\% | -3.560007089 | 1.95\% | 17.50 | 6.86\% |
| 1/9/2013 | 9.70\% | 2.84\% | 4.79\% | -3.560007089 | 1.95\% | 17.50 | 6.86\% |
| 1/16/2013 | 9.60\% | 2.84\% | 4.78\% | -3.561332869 | 1.94\% | 17.45 | 6.76\% |
| 1/16/2013 | 9.60\% | 2.84\% | 4.78\% | -3.561332869 | 1.94\% | 17.45 | 6.76\% |
| 2/13/2013 | 10.20\% | 2.84\% | 4.74\% | -3.560233115 | 1.90\% | 17.01 | 7.36\% |
| 2/22/2013 | 9.75\% | 2.85\% | 4.73\% | -3.556516105 | 1.88\% | 16.89 | 6.90\% |
| 2/27/2013 | 10.00\% | 2.86\% | 4.73\% | -3.555309947 | 1.87\% | 16.85 | 7.14\% |
| 3/14/2013 | 9.30\% | 2.88\% | 4.72\% | -3.546517094 | 1.83\% | 16.34 | 6.42\% |
| 3/27/2013 | 9.80\% | 2.90\% | 4.71\% | -3.539647787 | 1.80\% | 15.88 | 6.90\% |
| 5/1/2013 | 9.84\% | 2.94\% | 4.65\% | -3.526125487 | 1.71\% | 15.25 | 6.90\% |
| 5/15/2013 | 10.30\% | 2.96\% | 4.64\% | -3.519540807 | 1.68\% | 15.02 | 7.34\% |
| 5/30/2013 | 10.20\% | 2.98\% | 4.64\% | -3.513066975 | 1.66\% | 14.88 | 7.22\% |
| 5/31/2013 | 9.00\% | 2.98\% | 4.64\% | -3.512192166 | 1.65\% | 14.89 | 6.02\% |
| 6/11/2013 | 10.00\% | 3.00\% | 4.64\% | -3.505315119 | 1.63\% | 14.96 | 7.00\% |
| 6/21/2013 | 9.75\% | 3.02\% | 4.65\% | -3.498759074 | 1.62\% | 14.99 | 6.73\% |
| 6/25/2013 | 9.80\% | 3.03\% | 4.65\% | -3.49675999 | 1.62\% | 15.02 | 6.77\% |
| 7/12/2013 | 9.36\% | 3.08\% | 4.68\% | -3.481789788 | 1.60\% | 15.07 | 6.28\% |
| 8/8/2013 | 9.83\% | 3.14\% | 4.73\% | -3.45936077 | 1.59\% | 14.82 | 6.69\% |
| 8/14/2013 | 9.15\% | 3.16\% | 4.75\% | -3.453855638 | 1.58\% | 14.72 | 5.99\% |
| 9/11/2013 | 10.25\% | 3.27\% | 4.83\% | -3.421529571 | 1.57\% | 14.57 | 6.98\% |
| 9/11/2013 | 10.20\% | 3.27\% | 4.83\% | -3.421529571 | 1.57\% | 14.57 | 6.93\% |
| 9/24/2013 | 10.20\% | 3.31\% | 4.87\% | -3.409215674 | 1.57\% | 14.47 | 6.89\% |
| 10/3/2013 | 9.65\% | 3.33\% | 4.90\% | -3.401082413 | 1.56\% | 14.45 | 6.32\% |
| 11/6/2013 | 10.20\% | 3.41\% | 4.96\% | -3.379044872 | 1.55\% | 14.40 | 6.79\% |
| 11/21/2013 | 10.00\% | 3.44\% | 4.99\% | -3.368809925 | 1.54\% | 14.36 | 6.56\% |
| 11/26/2013 | 10.00\% | 3.45\% | 4.99\% | -3.366096324 | 1.54\% | 14.36 | 6.55\% |
| 12/3/2013 | 10.25\% | 3.47\% | 5.00\% | -3.360895981 | 1.53\% | 14.38 | 6.78\% |
| 12/4/2013 | 9.50\% | 3.47\% | 5.01\% | -3.359715842 | 1.53\% | 14.38 | 6.03\% |
| 12/5/2013 | 10.20\% | 3.48\% | 5.01\% | -3.35846819 | 1.53\% | 14.38 | 6.72\% |
| 12/9/2013 | 8.72\% | 3.49\% | 5.01\% | -3.356206097 | 1.53\% | 14.34 | 5.23\% |


| 12/9/2013 | 9.75\% | 3.49\% | 5.01\% | -3.356206097 | 1.53\% | 14.34 | 6.26\% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 12/13/2013 | 9.75\% | 3.50\% | 5.03\% | -3.352419421 | 1.53\% | 14.34 | 6.25\% |
| 12/16/2013 | 9.95\% | 3.50\% | 5.03\% | -3.351442572 | 1.53\% | 14.35 | 6.45\% |
| 12/16/2013 | 9.95\% | 3.50\% | 5.03\% | -3.351442572 | 1.53\% | 14.35 | 6.45\% |
| 12/16/2013 | 10.12\% | 3.50\% | 5.03\% | -3.351442572 | 1.53\% | 14.35 | 6.62\% |
| 12/17/2013 | 9.50\% | 3.51\% | 5.03\% | -3.350513821 | 1.52\% | 14.37 | 5.99\% |
| 12/17/2013 | 10.95\% | 3.51\% | 5.03\% | -3.350513821 | 1.52\% | 14.37 | 7.44\% |
| 12/18/2013 | 8.72\% | 3.51\% | 5.03\% | -3.349557441 | 1.52\% | 14.37 | 5.21\% |
| 12/18/2013 | 9.80\% | 3.51\% | 5.03\% | -3.349557441 | 1.52\% | 14.37 | 6.29\% |
| 12/19/2013 | 10.15\% | 3.51\% | 5.04\% | -3.348558925 | 1.52\% | 14.38 | 6.64\% |
| 12/30/2013 | 9.50\% | 3.54\% | 5.05\% | -3.341237101 | 1.51\% | 14.41 | 5.96\% |
| 2/20/2014 | 9.20\% | 3.69\% | 5.14\% | -3.300809253 | 1.46\% | 14.62 | 5.51\% |
| 2/26/2014 | 9.75\% | 3.70\% | 5.15\% | -3.298142577 | 1.46\% | 14.65 | 6.05\% |
| 3/17/2014 | 9.55\% | 3.72\% | 5.17\% | -3.291654434 | 1.45\% | 14.72 | 5.83\% |
| 3/26/2014 | 9.40\% | 3.73\% | 5.18\% | -3.289458707 | 1.45\% | 14.66 | 5.67\% |
| 3/26/2014 | 9.96\% | 3.73\% | 5.18\% | -3.289458707 | 1.45\% | 14.66 | 6.23\% |
| 4/2/2014 | 9.70\% | 3.73\% | 5.17\% | -3.289430531 | 1.45\% | 14.58 | 5.97\% |
| 5/16/2014 | 9.80\% | 3.70\% | 5.11\% | -3.296016163 | 1.40\% | 14.38 | 6.10\% |
| 5/30/2014 | 9.70\% | 3.68\% | 5.08\% | -3.30223463 | 1.40\% | 14.35 | 6.02\% |
| 6/6/2014 | 10.40\% | 3.67\% | 5.07\% | -3.304183446 | 1.40\% | 14.26 | 6.73\% |
| 6/30/2014 | 9.55\% | 3.64\% | 5.02\% | -3.312939972 | 1.38\% | 13.95 | 5.91\% |
| 7/2/2014 | 9.62\% | 3.64\% | 5.01\% | -3.313638177 | 1.38\% | 13.91 | 5.98\% |
| 7/10/2014 | 9.95\% | 3.63\% | 5.00\% | -3.316024339 | 1.37\% | 13.86 | 6.32\% |
| 7/23/2014 | 9.75\% | 3.61\% | 4.97\% | -3.321269779 | 1.36\% | 13.68 | 6.14\% |
| 7/29/2014 | 9.45\% | 3.60\% | 4.96\% | -3.323360677 | 1.35\% | 13.57 | 5.85\% |
| 7/31/2014 | 9.90\% | 3.60\% | 4.95\% | -3.324172133 | 1.35\% | 13.55 | 6.30\% |
| 8/20/2014 | 9.75\% | 3.56\% | 4.92\% | -3.334006414 | 1.36\% | 13.61 | 6.19\% |
| 8/25/2014 | 9.60\% | 3.56\% | 4.91\% | -3.336650742 | 1.36\% | 13.59 | 6.04\% |
| 8/29/2014 | 9.80\% | 3.54\% | 4.90\% | -3.340939413 | 1.36\% | 13.57 | 6.26\% |
| 9/11/2014 | 9.60\% | 3.51\% | 4.88\% | -3.349211325 | 1.37\% | 13.57 | 6.09\% |
| 9/15/2014 | 10.25\% | 3.51\% | 4.87\% | -3.35067505 | 1.37\% | 13.57 | 6.74\% |
| 10/9/2014 | 9.80\% | 3.44\% | 4.83\% | -3.368938807 | 1.39\% | 13.62 | 6.36\% |
| 11/6/2014 | 9.56\% | 3.37\% | 4.78\% | -3.390572121 | 1.41\% | 14.09 | 6.19\% |
| 11/6/2014 | 10.20\% | 3.37\% | 4.78\% | -3.390572121 | 1.41\% | 14.09 | 6.83\% |
| 11/14/2014 | 10.20\% | 3.35\% | 4.78\% | -3.395556187 | 1.42\% | 13.94 | 6.85\% |
| 11/26/2014 | 9.70\% | 3.32\% | 4.77\% | -3.403705802 | 1.44\% | 13.82 | 6.38\% |
| 11/26/2014 | 10.20\% | 3.32\% | 4.77\% | -3.403705802 | 1.44\% | 13.82 | 6.88\% |
| 12/4/2014 | 9.68\% | 3.30\% | 4.76\% | -3.409936411 | 1.45\% | 13.78 | 6.38\% |
| 12/10/2014 | 9.25\% | 3.29\% | 4.75\% | -3.414456607 | 1.46\% | 13.80 | 5.96\% |
| 12/10/2014 | 9.25\% | 3.29\% | 4.75\% | -3.414456607 | 1.46\% | 13.80 | 5.96\% |
| 12/11/2014 | 10.07\% | 3.28\% | 4.75\% | -3.415853404 | 1.47\% | 13.83 | 6.79\% |
| 12/12/2014 | 10.20\% | 3.28\% | 4.75\% | -3.417360316 | 1.47\% | 13.86 | 6.92\% |
| 12/17/2014 | 9.17\% | 3.27\% | 4.75\% | -3.421672047 | 1.48\% | 13.96 | 5.90\% |
| 12/18/2014 | 9.83\% | 3.26\% | 4.74\% | -3.422874511 | 1.48\% | 13.98 | 6.57\% |
| 1/23/2015 | 9.50\% | 3.14\% | 4.69\% | -3.461973582 | 1.55\% | 14.37 | 6.36\% |
| 2/24/2015 | 9.83\% | 3.04\% | 4.65\% | -3.494634623 | 1.62\% | 14.67 | 6.79\% |
| 3/18/2015 | 9.75\% | 2.98\% | 4.64\% | -3.514002626 | 1.66\% | 14.90 | 6.77\% |
| 3/25/2015 | 9.50\% | 2.95\% | 4.63\% | -3.521791091 | 1.67\% | 14.96 | 6.55\% |
| 3/26/2015 | 9.72\% | 2.95\% | 4.63\% | -3.52324442 | 1.68\% | 14.98 | 6.77\% |
| 4/23/2015 | 10.20\% | 2.87\% | 4.61\% | -3.551824778 | 1.74\% | 15.21 | 7.33\% |
| 4/29/2015 | 9.53\% | 2.86\% | 4.60\% | -3.556018437 | 1.75\% | 15.22 | 6.67\% |
| 5/1/2015 | 9.60\% | 2.85\% | 4.60\% | -3.55764862 | 1.75\% | 15.23 | 6.75\% |
| 5/26/2015 | 9.75\% | 2.83\% | 4.63\% | -3.565489209 | 1.80\% | 15.16 | 6.92\% |
| 6/17/2015 | 9.00\% | 2.82\% | 4.66\% | -3.569012071 | 1.84\% | 15.30 | 6.18\% |
| 6/17/2015 | 9.00\% | 2.82\% | 4.66\% | -3.569012071 | 1.84\% | 15.30 | 6.18\% |
| 9/2/2015 | 9.50\% | 2.79\% | 4.79\% | -3.579016567 | 2.00\% | 15.68 | 6.71\% |
| 9/10/2015 | 9.30\% | 2.79\% | 4.81\% | -3.579283498 | 2.02\% | 15.99 | 6.51\% |
| 10/15/2015 | 9.00\% | 2.81\% | 4.90\% | -3.571012447 | 2.09\% | 16.66 | 6.19\% |
| 11/19/2015 | 10.30\% | 2.88\% | 5.04\% | -3.547076162 | 2.16\% | 16.28 | 7.42\% |
| 11/19/2015 | 10.00\% | 2.88\% | 5.04\% | -3.547076162 | 2.16\% | 16.28 | 7.12\% |
| 12/3/2015 | 10.00\% | 2.90\% | 5.08\% | -3.541396988 | 2.19\% | 16.28 | 7.10\% |
| 12/9/2015 | 9.14\% | 2.90\% | 5.11\% | -3.539568146 | 2.20\% | 16.33 | 6.24\% |
| 12/9/2015 | 9.14\% | 2.90\% | 5.11\% | -3.539568146 | 2.20\% | 16.33 | 6.24\% |
| 12/11/2015 | 10.30\% | 2.90\% | 5.12\% | -3.53922282 | 2.21\% | 16.42 | 7.40\% |
| 12/15/2015 | 9.60\% | 2.91\% | 5.13\% | -3.538307892 | 2.22\% | 16.50 | 6.69\% |
| 12/17/2015 | 9.70\% | 2.91\% | 5.14\% | -3.537386373 | 2.23\% | 16.54 | 6.79\% |
| 12/18/2015 | 9.50\% | 2.91\% | 5.14\% | -3.536907801 | 2.23\% | 16.57 | 6.59\% |
| 12/30/2015 | 9.50\% | 2.93\% | 5.18\% | -3.530756888 | 2.25\% | 16.60 | 6.57\% |
| 1/6/2016 | 9.50\% | 2.94\% | 5.20\% | -3.526766416 | 2.26\% | 16.72 | 6.56\% |
| 2/23/2016 | 9.75\% | 2.94\% | 5.34\% | -3.528253531 | 2.40\% | 18.32 | 6.81\% |
| 3/16/2016 | 9.85\% | 2.91\% | 5.36\% | -3.537673349 | 2.45\% | 18.69 | 6.94\% |
| 4/29/2016 | 9.80\% | 2.83\% | 5.31\% | -3.563568465 | 2.47\% | 18.60 | 6.97\% |
| 6/3/2016 | 9.75\% | 2.80\% | 5.24\% | -3.573972869 | 2.43\% | 18.79 | 6.95\% |
| 6/8/2016 | 9.48\% | 2.80\% | 5.23\% | -3.576092552 | 2.43\% | 18.56 | 6.68\% |
| 6/15/2016 | 9.00\% | 2.79\% | 5.20\% | -3.580432911 | 2.42\% | 18.29 | 6.21\% |
| 6/15/2016 | 9.00\% | 2.79\% | 5.20\% | -3.580432911 | 2.42\% | 18.29 | 6.21\% |
|  |  |  |  | Average: | 1.81\% | 20 |  |
|  |  |  |  | Count: |  | 748 |  |

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Sponsored by Robert B. Hevert
Exhibit RBH-34, Page 1 of 1
Value Line Projected Sustainable Growth And Return On Common Equity

| Company | Value Line Return on Common Equity ("R") | Value Line Payout Ratio | Retention Ratio ("B") | B $\times$ R | Value Line Retained to Common Equity | Difference |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALE | 8.50\% | 63.00\% | 37.00\% | 3.15\% | 3.00\% | 0.15\% |
| LNT | 12.50\% | 61.00\% | 39.00\% | 4.88\% | 5.50\% | -0.63\% |
| AVA | 9.00\% | 63.00\% | 37.00\% | 3.33\% | 3.50\% | -0.17\% |
| ED | 8.50\% | 69.00\% | 31.00\% | 2.64\% | 2.50\% | 0.14\% |
| EIX | 11.50\% | 54.00\% | 46.00\% | 5.29\% | 5.50\% | -0.21\% |
| ES | 9.50\% | 58.00\% | 42.00\% | 3.99\% | 4.00\% | -0.01\% |
| IDA | 9.00\% | 60.00\% | 40.00\% | 3.60\% | 3.50\% | 0.10\% |
| NWE | 10.00\% | 59.00\% | 41.00\% | 4.10\% | 4.00\% | 0.10\% |
| OGE | 12.00\% | 70.00\% | 30.00\% | 3.60\% | 3.50\% | 0.10\% |
| POR | 9.00\% | 56.00\% | 44.00\% | 3.96\% | 4.00\% | -0.04\% |
| WEC | 11.00\% | 67.00\% | 33.00\% | 3.63\% | 3.50\% | 0.13\% |
| XEL | 10.50\% | 63.00\% | 37.00\% | 3.89\% | 4.00\% | -0.12\% |
| AVERAGE: | 10.08\% | 61.92\% | 38.08\% | 3.84\% | 3.88\% | -0.04\% |
| MEDIAN: | 9.75\% | 62.00\% | 38.00\% | 3.76\% | 3.75\% | 0.04\% |

Source: Value Line projections 2019-2021 period, as of June 30, 2016.
Note: Retention Ratio equals 1 - Payout Ratio

AS FILED:

| COMPANY | TICKER | Value Line DPS | Value Line EPS | Value Line B x R | Zacks | IBES |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ALLETE, Inc. | ALE | 3.50\% | 4.00\% | 3.00\% | 4.50\% | 3.00\% |
| Alliant Energy Corporation | LNT | 4.50\% | 6.00\% | 5.50\% | 6.10\% | 6.60\% |
| Avista Corporation | AVA | 4.00\% | 5.00\% | 3.50\% | 5.00\% | 5.00\% |
| Consolidated Edison, Inc. | ED | 3.00\% | 1.50\% | 2.50\% | 2.30\% | 1.89\% |
| Edison International | EIX | 9.00\% | 3.50\% | 5.50\% | 4.90\% | 2.45\% |
| Eversource Energy | ES | 6.00\% | 6.00\% | 4.00\% | 6.30\% | 6.01\% |
| IDACORP, Inc. | IDA | 7.50\% | 3.00\% | 3.50\% | 4.00\% | 4.00\% |
| NorthWestern Corp. | NWE | 5.50\% | 6.50\% | 4.00\% | 5.00\% | 5.00\% |
| OGE Energy | OGE | 9.50\% | 3.00\% | 3.50\% | 5.20\% | 4.30\% |
| Portland General Electric Company | POR | 6.00\% | 5.50\% | 4.00\% | 6.40\% | 6.57\% |
| WEC Energy | WEC | 7.00\% | 6.00\% | 3.50\% | 6.30\% | 6.77\% |
| Xcel Energy Inc. | XEL | 6.00\% | 5.50\% | 4.00\% | 5.30\% | 5.27\% |
|  |  | 5.96\% | 4.63\% | 3.88\% | 5.11\% | 4.74\% |
|  |  | 6.00\% | 5.25\% | 3.75\% | 5.10\% | 5.00\% |


| Method 1 | Value Line DPS | $\begin{gathered} \text { Value Line } \\ \text { EPS } \\ \hline \end{gathered}$ | Zacks | Thomson Financial | Average of All Growth Rates |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Dividend Yield | 3.44\% | 3.44\% | 3.44\% | 3.44\% | 3.44\% |
| Growth Rate | 5.96\% | 4.63\% | 5.11\% | 4.74\% | 5.11\% |
| Expected Div Yield | 3.54\% | 3.52\% | 3.53\% | 3.52\% | 3.53\% |
| DCF ROE | 9.50\% | 8.14\% | 8.64\% | 8.26\% | 8.64\% |
|  |  |  |  | Midpoint: | 8.82\% |
| Method 2 |  |  |  |  |  |
| Dividend Yield | 3.44\% | 3.44\% | 3.44\% | 3.44\% | 3.44\% |
| Growth Rate | 6.00\% | 5.25\% | 5.10\% | 5.00\% | 5.34\% |
| Expected Div Yield | 3.54\% | 3.53\% | 3.53\% | 3.53\% | 3.53\% |
| DCF ROE | 9.54\% | 8.78\% | 8.63\% | 8.53\% | 8.87\% |
|  |  |  |  | Midpoint: | 9.03\% |

SOURCE: EXHIBIT NO. $\qquad$ (RAB-7); differences due to rounding.


Notes:
Source: Exhibit No.__(RAB-6) and Exhibit No. (RAB-7)
Mean projected growth rate excludes Mr. Baudino's Sustainable Growth rate since that rate was not used in his DCF calculations

$$
\begin{aligned}
& D=\frac{\sum_{t=1}^{T} t \times \frac{C F_{t}}{(1+r)^{t}}}{P} \\
& \text { Where: } \quad \begin{array}{l}
\mathrm{t}=\text { time period (1 through 200) } \\
\mathrm{CF}=\text { Cash Flow (i.e. dividend) at time } \mathrm{t} \\
\mathrm{r}=\mathrm{ROE} \\
\mathrm{P}=\text { Current Stock Price }
\end{array}
\end{aligned}
$$

## Duration of Treasury Bonds at Current Interest Rates

| Start Date | $6 / 30 / 2016$ | $6 / 30 / 2016$ | $6 / 30 / 2016$ |
| :--- | ---: | ---: | ---: |
| Maturity Date | $6 / 30 / 2046$ | $6 / 30 / 2036$ | $6 / 30 / 2021$ |
| Term (years) | 30 | 20 | 5 |
| Par | 100 | 100 | 100 |
| Interest Rate | $2.50 \%$ | $2.07 \%$ | $1.22 \%$ (30-day average) |
| Excel Duration | 21.46 | 16.57 | 4.88 |

Manual calculation (check):

| $\frac{\text { Cash Flows }}{\text { Period }}$ | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 30year Treasury: | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 2.50 | 102.50 |
| 20year Treasury: | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 2.07 | 102.07 |  |  |  |  |  |  |  |  |  |  |
| 5year Treasury: | 1.22 | 1.22 | 1.22 | 1.22 | 101.22 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Discounted Value of Cash Flow |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| 30year Treasury: | 2.44 | 2.38 | 2.32 | 2.26 | 2.21 | 2.15 | 2.10 | 2.05 | 2.00 | 1.95 | 1.90 | 1.86 | 1.81 | 1.77 | 1.73 | 1.68 | 1.64 | 1.60 | 1.56 | 1.53 | 1.49 | 1.45 | 1.42 | 1.38 | 1.35 | 1.32 | 1.28 | 1.25 | 1.22 | 48.89 |
| 20year Treasury: | 2.03 | 1.99 | 1.95 | 1.91 | 1.87 | 1.83 | 1.80 | 1.76 | 1.72 | 1.69 | 1.65 | 1.62 | 1.59 | 1.56 | 1.52 | 1.49 | 1.46 | 1.43 | 1.40 | 67.71 |  |  |  |  |  |  |  |  |  |  |
| $5 y e a r$ Treasury: | 1.20 | 1.19 | 1.18 | 1.16 | 95.27 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Notes:
Interest rates based on 30-day average; Source: Bloomberg Professional
$D=\frac{\sum_{i=1}^{T} t \times \frac{C F_{t}}{(1+r)^{t}}}{P}$
Where: $t=$ time period
$C F=$ cash flow (i.e. coupon) at time $t$
$r=$ discount rate
$\mathrm{P}=$ current price (assumed par)

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Exhibit RBH-38, Page 1 of 1

| Perpetual Holding Period (200 years) | Ticker | Using Data As-Filed |  |  | Constant <br> Growth <br> DCF ROE | Solved ROE |  | $\begin{gathered} \text { Div } \\ 1 \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 2 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 3 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 4 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 5 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 6 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 7 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 8 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Div } \\ 9 \\ \hline \end{gathered}$ |  | $\begin{gathered} \text { Diviv } \\ 10 \\ \hline \end{gathered}$ |  | $\begin{array}{r} \text { Div } \\ 199 \\ \hline \end{array}$ |  | $\begin{aligned} & \text { Div } \\ & 20 \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company |  | 6-Month Average Price | Annual Dividend |  |  |  | Price |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALLETE | ALE | 53.33 | 2.08 | 3.75\% | 7.72\% | 7.72\% | (\$53.33) | \$ | 2.12 | \$ | 2.20 | \$ | 2.28 | \$ | 2.37 | \$ | 2.46 | \$ | 2.55 | \$ | 2.64 | \$ | 2.74 | \$ | 2.84 | \$ | 2.95 | \$ | 3,102.96 | \$ | 3,219.32 |
| Alliant Energy | LNT | 67.75 | 2.35 | 5.80\% | 9.37\% | 9.37\% | (\$67.75) | \$ | 2.42 | \$ | 2.56 | \$ | 2.71 | \$ | 2.87 | \$ | 3.03 | \$ | 3.21 | \$ | 3.39 | \$ | 3.59 | \$ | 3.80 | \$ | 4.02 | \$ | 170,614.09 | \$ | 180,509.71 |
| Avista Corp. | AVA | 38.11 | 1.37 | 4.75\% | 8.44\% | 8.43\% | (\$38.11) | \$ | 1.40 | \$ | 1.47 | \$ | 1.54 | \$ | 1.61 | \$ | 1.69 | \$ | 1.77 | \$ | 1.86 | \$ | 1.94 | \$ | 2.04 | \$ | 2.13 | \$ | 13,741.88 | \$ | 14,394.62 |
| Consolidated Edison | ED | 70.26 | 2.68 | 2.17\% | 6.03\% | 6.03\% | (\$70.26) | \$ | 2.71 | \$ | 2.77 | \$ | 2.83 | \$ | 2.89 | \$ | 2.95 | \$ | 3.02 | \$ | 3.08 | \$ | 3.15 | \$ | 3.22 | \$ | 3.29 | \$ | 190.97 | \$ | 195.12 |
| Edison International | EIX | 65.84 | 1.92 | 4.96\% | 7.95\% | 7.94\% | (\$65.84) | \$ | 1.97 | \$ | 2.07 | \$ | 2.17 | \$ | 2.28 | \$ | 2.39 | \$ | 2.51 | \$ | 2.63 | \$ | 2.76 | \$ | 2.90 | \$ | 3.04 | \$ | 28,754.81 | \$ | 30,181.77 |
| Eversource Energy | ES | 54.30 | 1.78 | 6.08\% | 9.46\% | 9.45\% | (\$54.30) | \$ | 1.83 | \$ | 1.95 | \$ | 2.06 | \$ | 2.19 | \$ | 2.32 | \$ | 2.46 | \$ | 2.61 | \$ | 2.77 | \$ | 2.94 | \$ | 3.12 | \$ | 217,184.69 | \$ | 230,384.09 |
| IDACORP | IDA | 70.54 | 2.04 | 4.63\% | 7.58\% | 7.57\% | (\$70.54) | \$ | 2.09 | \$ | 2.18 | \$ | 2.28 | \$ | 2.39 | \$ | 2.50 | \$ | 2.62 | \$ | 2.74 | \$ | 2.86 | \$ | 3.00 | \$ | 3.14 | \$ | 16,120.63 | \$ | 16,866.21 |
| Northwestern Corp. | NEW | 57.06 | 2.00 | 5.50\% | 9.10\% | 9.10\% | (\$57.06) | \$ | 2.06 | \$ | 2.17 | \$ | 2.29 | \$ | 2.41 | \$ | 2.55 | \$ | 2.69 | \$ | 2.83 | \$ | 2.99 | \$ | 3.15 | \$ | 3.33 | \$ | 82,565.54 | \$ | 87,106.65 |
| OGE Energy | OGE | 26.98 | 1.10 | 5.50\% | 9.69\% | 9.69\% | (\$26.98) | \$ | 1.13 | \$ | 1.19 | \$ | 1.26 | \$ | 1.33 | \$ | 1.40 | \$ | 1.48 | \$ | 1.56 | \$ | 1.64 | \$ | 1.73 | \$ | 1.83 | \$ | 45,411.05 | \$ | 47,908.66 |
| Portland General Electric | POR | 38.43 | 1.20 | 6.12\% | 9.34\% | 9.33\% | (\$38.43) | \$ | 1.24 | \$ | 1.31 | \$ | 1.39 | \$ | 1.48 | \$ | 1.57 | \$ | 1.66 | \$ | 1.77 | \$ | 1.87 | \$ | 1.99 | \$ | 2.11 | \$ | 157,795.31 | \$ | 167,448.44 |
| WEC Energy | WEC | 55.70 | 1.98 | 6.52\% | 10.19\% | 10.18\% | (\$55.70) | \$ | 2.04 | \$ | 2.18 | \$ | 2.32 | \$ | 2.47 | \$ | 2.63 | \$ | 2.80 | \$ | 2.99 | \$ | 3.18 | \$ | 3.39 | \$ | 3.61 | \$ | 549,468.87 | \$ | 585,280.51 |
| Xcel Energy | XEL | 38.62 | 1.36 | 5.52\% | 9.14\% | 9.13\% | (\$38.62) | \$ | 1.40 | \$ | 1.47 | \$ | 1.56 | \$ | 1.64 | \$ | 1.73 | \$ | 1.83 | \$ | 1.93 | \$ | 2.04 | \$ | 2.15 | \$ | 2.27 | \$ | 58,023.96 | \$ | 61,225.43 |
|  |  |  |  |  | Mean: | 8.66\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Median: | 9.11\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Twenty Year Holding Period |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 6-Month |  | Mean | Constant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Average | Annual | Projected | Growth | Solved |  |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |  | Div |
| Company | Ticker | Price | Dividend | Growth Rate | DCF ROE | ROE | Price |  | 1 |  | 2 |  | 3 |  | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  | 10 |  | 19 |  | 20 |
| ALLETE | ALE | 53.33 | 2.08 | 3.75\% | 7.72\% | 1.24\% | (\$53.33) | \$ | 2.12 | \$ | 2.20 | \$ | 2.28 | \$ | 2.37 | \$ | 2.46 | \$ | 2.55 | \$ | 2.64 | \$ | 2.74 | \$ | 2.84 | \$ | 2.95 | \$ | 4.11 | \$ | 4.26 |
| Alliant Energy | LNT | 67.75 | 2.35 | 5.80\% | 9.37\% | 2.12\% | (\$67.75) | \$ | 2.42 | \$ | 2.56 | \$ | 2.71 | \$ | 2.87 | \$ | 3.03 | \$ | 3.21 | \$ | 3.39 | \$ | 3.59 | \$ | 3.80 | \$ | 4.02 | \$ | 6.68 | \$ | 7.06 |
| Avista Corp. | AVA | 38.11 | 1.37 | 4.75\% | 8.44\% | 1.47\% | (\$38.11) | \$ | 1.40 | \$ | 1.47 | \$ | 1.54 | \$ | 1.61 | \$ | 1.69 | \$ | 1.77 | \$ | 1.86 | \$ | 1.94 | \$ | 2.04 | \$ | 2.13 | \$ | 3.24 | \$ | 3.39 |
| Consolidated Edison | ED | 70.26 | 2.68 | 2.17\% | 6.03\% | -0.42\% | (\$70.26) | \$ | 2.71 | \$ | 2.77 | \$ | 2.83 | \$ | 2.89 | \$ | 2.95 | \$ | 3.02 | \$ | 3.08 | \$ | 3.15 | \$ | 3.22 | \$ | 3.29 | \$ | 3.99 | \$ | 4.08 |
| Edison International | EIX | 65.84 | 1.92 | 4.96\% | 7.95\% | -0.13\% | (\$65.84) |  | 1.97 | \$ | 2.07 | \$ | 2.17 | \$ | 2.28 | \$ | 2.39 | \$ | 2.51 | \$ | 2.63 | \$ | 2.76 | \$ | 2.90 | + | 3.04 | \$ | 4.71 | \$ | 4.94 |
| Eversource Energy | ES | 54.30 | 1.78 | 6.08\% | 9.46\% | 1.88\% | (\$54.30) |  | 1.83 | \$ | 1.95 | \$ | 2.06 | \$ | 2.19 | \$ | 2.32 | \$ | 2.46 |  | 2.61 | \$ | 2.77 | \$ | 2.94 | \$ | 3.12 | \$ | 5.30 | \$ | 5.63 |
| IDACORP | IDA | 70.54 | 2.04 | 4.63\% | 7.58\% | -0.51\% | (\$70.54) | \$ | 2.09 | \$ | 2.18 | \$ | 2.28 | \$ | 2.39 | \$ | 2.50 | \$ | 2.62 | \$ | 2.74 | \$ | 2.86 | \$ | 3.00 | \$ | 3.14 | \$ | 4.71 | \$ | 4.93 |
| Northwestern Corp. | NEW | 57.06 | 2.00 | 5.50\% | 9.10\% | 1.92\% | (\$57.06) | \$ | 2.06 | \$ | 2.17 | \$ | 2.29 | \$ | 2.41 | \$ | 2.55 | \$ | 2.69 | \$ | 2.83 | \$ | 2.99 | \$ | 3.15 | \$ | 3.33 | \$ | 5.39 | \$ | 5.68 |
| OGE Energy | OGE | 26.98 | 1.10 | 5.50\% | 9.69\% | 3.28\% | (\$26.98) | \$ | 1.13 | \$ | 1.19 | \$ | 1.26 | \$ | 1.33 | \$ | 1.40 | \$ | 1.48 | \$ | 1.56 | \$ | 1.64 | \$ | 1.73 | \$ | 1.83 | \$ | 2.96 | \$ | 3.13 |
| Portland General Electric | POR | 38.43 | 1.20 | 6.12\% | 9.34\% | 1.50\% | (\$38.43) |  | 1.24 | \$ | 1.31 | , | 1.39 | \$ | 1.48 | \$ | 1.57 | , | 1.66 | \$ | 1.77 | \$ | 1.87 | \$ | 1.99 | , | 2.11 | \$ | 3.60 | \$ | 3.82 |
| WEC Energy | WEC | 55.70 | 1.98 | 6.52\% | 10.19\% | 2.99\% | (\$55.70) | , | 2.04 | \$ | 2.18 | \$ | 2.32 | \$ | 2.47 | \$ | 2.63 | \$ | 2.80 | + | 2.99 | + | 3.18 | \$ | 3.39 | \$ | 3.61 | \$ | 6.37 | \$ | 6.79 |
| Xcel Energy | XEL | 38.62 | 1.36 | 5.52\% | 9.14\% | 1.98\% | (\$38.62) | \$ | 1.40 | \$ | 1.47 | \$ | 1.56 | \$ | 1.64 | \$ | 1.73 | \$ | 1.83 | \$ | 1.93 | \$ | 2.04 | \$ | 2.15 | \$ | 2.27 | \$ | 3.67 | \$ | 3.88 |
|  |  |  |  |  | Mean: | 1.44\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Median: | 1.69\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Five Year Holding Period |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | 6-Month |  | Mean | Constant |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  | Average | Annual | Projected | Growth | Solved |  |  | Div |  | Div |  | Div |  | Div |  | Div |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Company | Ticker | Price | Dividend | Growth Rate | DCF ROE | ROE | Price |  | 1 |  | 2 |  | 3 |  | 4 |  | 5 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| ALLETE | ALE | 53.33 | 2.08 | 3.75\% | 7.72\% | -35.69\% | (\$53.33) | \$ | 2.12 | \$ | 2.20 | \$ | 2.28 | \$ | 2.37 | \$ | 2.46 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Alliant Energy | LNT | 67.75 | 2.35 | 5.80\% | 9.37\% | -36.50\% | (\$67.75) | \$ | 2.42 | \$ | 2.56 | \$ | 2.71 | \$ | 2.87 | \$ | 3.03 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Avista Corp. | AVA | 38.11 | 1.37 | 4.75\% | 8.44\% | -36.46\% | (\$38.11) | \$ | 1.40 | \$ | 1.47 | \$ | 1.54 | \$ | 1.61 | \$ | 1.69 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Consolidated Edison | ED | 70.26 | 2.68 | 2.17\% | 6.03\% | -36.90\% | (\$70.26) | - | 2.71 | \$ | 2.77 |  | 2.83 | \$ | 2.89 | \$ | 2.95 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Edison International | EIX | 65.84 | 1.92 | 4.96\% | 7.95\% | -39.66\% | (\$65.84) | \$ | 1.97 | \$ | 2.07 | \$ | 2.17 | \$ | 2.28 | \$ | 2.39 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Eversource Energy | ES | 54.30 | 1.78 | 6.08\% | 9.46\% | -37.28\% | (\$54.30) | \$ | 1.83 | \$ | 1.95 | \$ | 2.06 | \$ | 2.19 | \$ | 2.32 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| IDACORP | IDA | 70.54 | 2.04 | 4.63\% | 7.58\% | -39.96\% | (\$70.54) | \$ | 2.09 | \$ | 2.18 | \$ | 2.28 | \$ | 2.39 | \$ | 2.50 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Northwestern Corp. | NEW | 57.06 | 2.00 | 5.50\% | 9.10\% | -36.50\% | (\$57.06) | \$ | 2.06 | \$ | 2.17 | \$ | 2.29 | \$ | 2.41 | \$ | 2.55 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OGE Energy | OGE | 26.98 | 1.10 | 5.50\% | 9.69\% | -33.99\% | (\$26.98) | - | 1.13 | \$ | 1.19 | \$ | 1.26 | \$ | 1.33 | \$ | 1.40 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Portland General Electric | POR | 38.43 | 1.20 | 6.12\% | 9.34\% | -38.02\% | (\$38.43) | \$ | 1.24 | \$ | 1.31 | \$ | 1.39 | \$ | 1.48 | \$ | 1.57 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| WEC Energy | WEC | 55.70 | 1.98 | 6.52\% | 10.19\% | -35.74\% | (\$55.70) |  | 2.04 | \$ | 2.18 | \$ | 2.32 | \$ | 2.47 | \$ | 2.63 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Xcel Energy | XEL | 38.62 | 1.36 | 5.52\% | 9.14\% | -36.42\% | (\$38.62) | \$ | 1.40 | \$ | 1.47 | \$ | 1.56 | \$ | 1.64 | \$ | 1.73 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Mean: | -36.93\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  | Median: | -36.50\% |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Notes: |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Source: Exhibit No.__ (RAB-6) and Ex | No.__( |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Mean projected growth rate excludes M | audino's | tainable Gro | owth rate si | ince that rate w | was not used in | s DCF calc | ations |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

R-Squared of Beta Coefficient Regressions for Mr. Baudino's Proxy Group: Value Line Methodology

| Company | Ticker | R-Squared of <br> Beta Coefficient |
| :--- | :---: | :---: |
| ALLETE, Inc. | ALE | 0.2556 |
| Alliant Energy Corporation | LNT | 0.2146 |
| Avista Corporation | AVA | 0.2359 |
| Consolidated Edison, Inc. | ED | 0.0468 |
| Edison International | EIX | 0.1443 |
| Eversource Energy | IDA | 0.1868 |
| IDACORP, Inc. | NWE | 0.2941 |
| NorthWestern Corporation | OGE | 0.2257 |
| OGE Energy Corp. | POR | 0.2204 |
| Portland General Electric Company | WEC | 0.1147 |
| WEC Energy Group, Inc. | XEL | 0.1258 |
| Xcel Energy Inc. |  |  |
| Mean |  | 0.1923 |

Notes:
Source: Bloomberg Professional; Beta coefficients were calculated using Value Line's methodology which derives the Beta coefficient from a regression analysis of the relationship between weekly percentage changes in the price of a stock and weekly percentage changes in the NYSE Composite Index over a period of five years.

|  | [1] | [2] |  |  |  | 95\% Confidence Inte |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [3] | [4] | [5] | [6] | [7] |
|  |  |  |  |  |  | Lower | Upper |
|  |  |  | 30-Year |  |  | Bound | Bound |
|  |  |  | Treasury |  | Return on | Return on | Return on |
|  | Constant | Slope | Yield | Risk Premium | Equity | Equity | Equity |
| Current | -2.70\% | -2.78\% | 2.50\% | 7.53\% | 10.04\% | 9.47\% | 10.61\% |
| Blue Chip Financial Forecast 2017 Projection | -2.70\% | -2.78\% | 3.40\% | 6.68\% | 10.08\% | 9.54\% | 10.63\% |
| Blue Chip Financial Forecast 2020 Projection | -2.70\% | -2.78\% | 4.40\% | 5.97\% | 10.37\% | 9.85\% | 10.89\% |

SUMMARY OUTPUT

| Regression Statistics |  |
| :--- | ---: |
| Multiple R | 0.843796 |
| R Square | 0.711991 |
| Adjusted R Square | 0.711796 |
| Standard Error | 0.008539 |
| Observations | 1475 |


| ANOVA | df |  | SS | MS | $F$ |
| :--- | ---: | ---: | ---: | ---: | ---: |
| Regression | 1 | 0.265541 | 0.265541 | 3641.432302 | 0.000000 |
| Residual | 1473 | 0.107414 | 0.000073 |  |  |
| Total | 1474 | 0.372955 |  |  |  |


|  | Standard |  |  |  | Lower | Upper |
| :--- | ---: | :--- | :--- | :--- | :--- | :--- |
|  | Coefficients | Error | $t$ Stat | P-value | $95 \%$ | $95 \%$ |
| Intercept | -0.027000 | 0.001215 | -22.220102 | 0.000000 | -0.029384 | -0.024617 |
| X Variable 1 | -0.027751 | 0.000460 | -60.344281 | 0.000000 | -0.028654 | -0.026849 |

Notes:
[1] Constant of regression equation
[2] Slope of regression equation
[3] Source: Current = Bloomberg Professional,
Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 2. Forecast for Q3 2017.
Projected = Blue Chip Financial Forecasts, Vol. 35, No. 6, June 1, 2016, at 14.
[4] Equals [1] $+[2] \times \ln ([3])$
[5] Equals [3] + [4]
[6] Using 95\% confidence interval data reported in regression output: ( lower bound constant + LN( [3] ) x upper bound slope) + [3]
[7] Using 95\% confidence interval data reported in regression output: ( upper bound constant $+\mathrm{LN}([3]$ ) x lower bound slope ) + [3]


Source: RBH-12

| Date of <br> Electric Rate <br> Case | Average 30- <br> Year <br> Return on <br> Equity   Treasury <br> Yield Risk Premium <br> $1 / 1 / 1980$     $14.50 \%$ | $9.36 \%$ | $5.14 \%$ |
| :---: | :---: | :---: | :---: |
| $1 / 7 / 1980$ | $14.39 \%$ | $9.38 \%$ | $5.01 \%$ |
| $1 / 9 / 1980$ | $15.00 \%$ | $9.40 \%$ | $5.60 \%$ |
| $1 / 14 / 1980$ | $15.17 \%$ | $9.42 \%$ | $5.75 \%$ |
| $1 / 17 / 1980$ | $13.93 \%$ | $9.44 \%$ | $4.49 \%$ |
| $1 / 23 / 1980$ | $15.50 \%$ | $9.47 \%$ | $6.03 \%$ |
| $1 / 30 / 1980$ | $13.86 \%$ | $9.52 \%$ | $4.34 \%$ |
| $1 / 31 / 1980$ | $12.61 \%$ | $9.53 \%$ | $3.08 \%$ |
| $2 / 6 / 1980$ | $13.71 \%$ | $9.58 \%$ | $4.13 \%$ |
| $2 / 13 / 1980$ | $12.80 \%$ | $9.63 \%$ | $3.17 \%$ |
| $2 / 14 / 1980$ | $13.00 \%$ | $9.65 \%$ | $3.35 \%$ |
| $2 / 19 / 1980$ | $13.50 \%$ | $9.68 \%$ | $3.82 \%$ |
| $2 / 27 / 1980$ | $13.75 \%$ | $9.78 \%$ | $3.97 \%$ |


| 2/29/1980 | 13.75\% | 9.81\% | 3.94\% |
| :---: | :---: | :---: | :---: |
| 2/29/1980 | 14.00\% | 9.81\% | 4.19\% |
| 2/29/1980 | 14.77\% | 9.81\% | 4.96\% |
| 3/7/1980 | 12.70\% | 9.89\% | 2.81\% |
| 3/14/1980 | 13.50\% | 9.97\% | 3.53\% |
| 3/26/1980 | 14.16\% | 10.10\% | 4.06\% |
| 3/27/1980 | 14.24\% | 10.12\% | 4.12\% |
| 3/28/1980 | 14.50\% | 10.13\% | 4.37\% |
| 4/11/1980 | 12.75\% | 10.27\% | 2.48\% |
| 4/14/1980 | 13.85\% | 10.29\% | 3.56\% |
| 4/16/1980 | 15.50\% | 10.31\% | 5.19\% |
| 4/22/1980 | 13.25\% | 10.35\% | 2.90\% |
| 4/22/1980 | 13.90\% | 10.35\% | 3.55\% |
| 4/24/1980 | 16.80\% | 10.38\% | 6.43\% |
| 4/29/1980 | 15.50\% | 10.41\% | 5.09\% |
| 5/6/1980 | 13.70\% | 10.45\% | 3.25\% |
| 5/7/1980 | 15.00\% | 10.45\% | 4.55\% |
| 5/8/1980 | 13.75\% | 10.46\% | 3.29\% |
| 5/9/1980 | 14.35\% | 10.47\% | 3.88\% |
| 5/13/1980 | 13.60\% | 10.48\% | 3.12\% |
| 5/15/1980 | 13.25\% | 10.49\% | 2.76\% |
| 5/19/1980 | 13.75\% | 10.51\% | 3.24\% |
| 5/27/1980 | 13.62\% | 10.54\% | 3.08\% |
| 5/27/1980 | 14.60\% | 10.54\% | 4.06\% |
| 5/29/1980 | 16.00\% | 10.56\% | 5.44\% |
| 5/30/1980 | 13.80\% | 10.56\% | 3.24\% |
| 6/2/1980 | 15.63\% | 10.57\% | 5.06\% |
| 6/9/1980 | 15.90\% | 10.60\% | 5.30\% |
| 6/10/1980 | 13.78\% | 10.60\% | 3.18\% |
| 6/12/1980 | 14.25\% | 10.61\% | 3.64\% |
| 6/19/1980 | 13.40\% | 10.62\% | 2.78\% |
| 6/30/1980 | 13.00\% | 10.65\% | 2.35\% |
| 6/30/1980 | 13.40\% | 10.65\% | 2.75\% |
| 7/9/1980 | 14.75\% | 10.67\% | 4.08\% |
| 7/10/1980 | 15.00\% | 10.68\% | 4.32\% |
| 7/15/1980 | 15.80\% | 10.70\% | 5.10\% |
| 7/18/1980 | 13.80\% | 10.71\% | 3.09\% |
| 7/22/1980 | 14.10\% | 10.72\% | 3.38\% |
| 7/24/1980 | 15.00\% | 10.73\% | 4.27\% |
| 7/25/1980 | 13.48\% | 10.73\% | 2.75\% |
| 7/31/1980 | 14.58\% | 10.75\% | 3.83\% |
| 8/8/1980 | 13.50\% | 10.78\% | 2.72\% |
| 8/8/1980 | 14.00\% | 10.78\% | 3.22\% |
| 8/8/1980 | 15.45\% | 10.78\% | 4.67\% |
| 8/11/1980 | 14.85\% | 10.78\% | 4.07\% |
| 8/14/1980 | 14.00\% | 10.79\% | 3.21\% |
| 8/14/1980 | 16.25\% | 10.79\% | 5.46\% |
| 8/25/1980 | 13.75\% | 10.82\% | 2.93\% |
| 8/27/1980 | 13.80\% | 10.83\% | 2.97\% |
| 8/29/1980 | 12.50\% | 10.84\% | 1.66\% |
| 9/15/1980 | 13.50\% | 10.88\% | 2.62\% |
| 9/15/1980 | 13.93\% | 10.88\% | 3.05\% |
| 9/15/1980 | 15.80\% | 10.88\% | 4.92\% |
| 9/24/1980 | 12.50\% | 10.93\% | 1.57\% |
| 9/24/1980 | 15.00\% | 10.93\% | 4.07\% |
| 9/26/1980 | 13.75\% | 10.94\% | 2.81\% |
| 9/30/1980 | 14.10\% | 10.96\% | 3.14\% |
| 9/30/1980 | 14.20\% | 10.96\% | 3.24\% |
| 10/1/1980 | 13.90\% | 10.97\% | 2.93\% |
| 10/3/1980 | 15.50\% | 10.98\% | 4.52\% |
| 10/7/1980 | 12.50\% | 10.99\% | 1.51\% |
| 10/9/1980 | 13.25\% | 11.00\% | 2.25\% |
| 10/9/1980 | 14.50\% | 11.00\% | 3.50\% |
| 10/9/1980 | 14.50\% | 11.00\% | 3.50\% |
| 10/16/1980 | 16.10\% | 11.02\% | 5.08\% |
| 10/17/1980 | 14.50\% | 11.03\% | 3.47\% |
| 10/31/1980 | 13.75\% | 11.11\% | 2.64\% |
| 10/31/1980 | 14.25\% | 11.11\% | 3.14\% |
| 11/4/1980 | 15.00\% | 11.12\% | 3.88\% |
| 11/5/1980 | 13.75\% | 11.12\% | 2.63\% |
| 11/5/1980 | 14.00\% | 11.12\% | 2.88\% |
| 11/8/1980 | 13.75\% | 11.14\% | 2.61\% |
| 11/10/1980 | 14.85\% | 11.15\% | 3.70\% |
| 11/17/1980 | 14.00\% | 11.18\% | 2.82\% |
| 11/18/1980 | 14.00\% | 11.19\% | 2.81\% |
| 11/19/1980 | 13.00\% | 11.19\% | 1.81\% |
| 11/24/1980 | 14.00\% | 11.21\% | 2.79\% |
| 11/26/1980 | 14.00\% | 11.21\% | 2.79\% |
| 12/8/1980 | 14.15\% | 11.22\% | 2.93\% |
| 12/8/1980 | 15.10\% | 11.22\% | 3.88\% |
| 12/9/1980 | 15.35\% | 11.22\% | 4.13\% |
| 12/12/1980 | 15.45\% | 11.23\% | 4.22\% |
| 12/17/1980 | 13.25\% | 11.23\% | 2.02\% |

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| 12/18/1980 | 15.80\% | 11.23\% | 4.57\% |
| :---: | :---: | :---: | :---: |
| 12/19/1980 | 14.50\% | 11.23\% | 3.27\% |
| 12/19/1980 | 14.64\% | 11.23\% | 3.41\% |
| 12/22/1980 | 13.45\% | 11.23\% | 2.22\% |
| 12/22/1980 | 15.00\% | 11.23\% | 3.77\% |
| 12/30/1980 | 14.50\% | 11.22\% | 3.28\% |
| 12/30/1980 | 14.95\% | 11.22\% | 3.73\% |
| 12/31/1980 | 13.39\% | 11.22\% | 2.17\% |
| 1/2/1981 | 15.25\% | 11.22\% | 4.03\% |
| 1/7/1981 | 14.30\% | 11.21\% | 3.09\% |
| 1/19/1981 | 15.25\% | 11.20\% | 4.05\% |
| 1/23/1981 | 13.10\% | 11.20\% | 1.90\% |
| 1/23/1981 | 14.40\% | 11.20\% | 3.20\% |
| 1/26/1981 | 15.25\% | 11.20\% | 4.05\% |
| 1/27/1981 | 15.00\% | 11.21\% | 3.79\% |
| 1/31/1981 | 13.47\% | 11.22\% | 2.25\% |
| 2/3/1981 | 15.25\% | 11.23\% | 4.02\% |
| 2/5/1981 | 15.75\% | 11.25\% | 4.50\% |
| 2/11/1981 | 15.60\% | 11.28\% | 4.32\% |
| 2/20/1981 | 15.25\% | 11.33\% | 3.92\% |
| 3/11/1981 | 15.40\% | 11.49\% | 3.91\% |
| 3/12/1981 | 14.51\% | 11.50\% | 3.01\% |
| 3/12/1981 | 16.00\% | 11.50\% | 4.50\% |
| 3/13/1981 | 13.02\% | 11.52\% | 1.50\% |
| 3/18/1981 | 16.19\% | 11.55\% | 4.64\% |
| 3/19/1981 | 13.75\% | 11.56\% | 2.19\% |
| 3/23/1981 | 14.30\% | 11.58\% | 2.72\% |
| 3/25/1981 | 15.30\% | 11.60\% | 3.70\% |
| 4/1/1981 | 14.53\% | 11.68\% | 2.85\% |
| 4/3/1981 | 19.10\% | 11.71\% | 7.39\% |
| 4/9/1981 | 15.00\% | 11.78\% | 3.22\% |
| 4/9/1981 | 15.30\% | 11.78\% | 3.52\% |
| 4/9/1981 | 16.50\% | 11.78\% | 4.72\% |
| 4/9/1981 | 17.00\% | 11.78\% | 5.22\% |
| 4/10/1981 | 13.75\% | 11.80\% | 1.95\% |
| 4/13/1981 | 13.57\% | 11.82\% | 1.75\% |
| 4/15/1981 | 15.30\% | 11.85\% | 3.45\% |
| 4/16/1981 | 13.50\% | 11.87\% | 1.63\% |
| 4/17/1981 | 14.10\% | 11.87\% | 2.23\% |
| 4/21/1981 | 14.00\% | 11.90\% | 2.10\% |
| 4/21/1981 | 16.80\% | 11.90\% | 4.90\% |
| 4/24/1981 | 16.00\% | 11.95\% | 4.05\% |
| 4/27/1981 | 12.50\% | 11.97\% | 0.53\% |
| 4/27/1981 | 13.61\% | 11.97\% | 1.64\% |
| 4/29/1981 | 13.65\% | 12.00\% | 1.65\% |
| 4/30/1981 | 13.50\% | 12.02\% | 1.48\% |
| 5/4/1981 | 16.22\% | 12.05\% | 4.17\% |
| 5/5/1981 | 14.40\% | 12.07\% | 2.33\% |
| 5/7/1981 | 16.25\% | 12.11\% | 4.14\% |
| 5/7/1981 | 16.27\% | 12.11\% | 4.16\% |
| 5/8/1981 | 13.00\% | 12.13\% | 0.87\% |
| 5/8/1981 | 16.00\% | 12.13\% | 3.87\% |
| 5/12/1981 | 13.50\% | 12.16\% | 1.34\% |
| 5/15/1981 | 15.75\% | 12.22\% | 3.53\% |
| 5/18/1981 | 14.88\% | 12.23\% | 2.65\% |
| 5/20/1981 | 16.00\% | 12.26\% | 3.74\% |
| 5/21/1981 | 14.00\% | 12.27\% | 1.73\% |
| 5/26/1981 | 14.90\% | 12.30\% | 2.60\% |
| 5/27/1981 | 15.00\% | 12.31\% | 2.69\% |
| 5/29/1981 | 15.50\% | 12.34\% | 3.16\% |
| 6/1/1981 | 16.50\% | 12.35\% | 4.15\% |
| 6/3/1981 | 14.67\% | 12.37\% | 2.30\% |
| 6/5/1981 | 13.00\% | 12.39\% | 0.61\% |
| 6/10/1981 | 16.75\% | 12.42\% | 4.33\% |
| 6/17/1981 | 14.40\% | 12.46\% | 1.94\% |
| 6/18/1981 | 16.33\% | 12.47\% | 3.86\% |
| 6/25/1981 | 14.75\% | 12.51\% | 2.24\% |
| 6/26/1981 | 16.00\% | 12.52\% | 3.48\% |
| 6/30/1981 | 15.25\% | 12.54\% | 2.71\% |
| 7/1/1981 | 15.50\% | 12.56\% | 2.94\% |
| 7/1/1981 | 17.50\% | 12.56\% | 4.94\% |
| 7/10/1981 | 16.00\% | 12.62\% | 3.38\% |
| 7/14/1981 | 16.90\% | 12.64\% | 4.26\% |
| 7/15/1981 | 16.00\% | 12.65\% | 3.35\% |
| 7/17/1981 | 15.00\% | 12.67\% | 2.33\% |
| 7/20/1981 | 15.00\% | 12.68\% | 2.32\% |
| 7/21/1981 | 14.00\% | 12.69\% | 1.31\% |
| 7/28/1981 | 13.48\% | 12.74\% | 0.74\% |
| 7/31/1981 | 13.50\% | 12.78\% | 0.72\% |
| 7/31/1981 | 15.00\% | 12.78\% | 2.22\% |
| 7/31/1981 | 16.00\% | 12.78\% | 3.22\% |
| 8/5/1981 | 15.71\% | 12.83\% | 2.88\% |
| 8/10/1981 | 14.50\% | 12.87\% | 1.63\% |

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Sponsored by Robert B. Hevert

| 8/11/1981 | 15.00\% | 12.88\% | 2.12\% |
| :---: | :---: | :---: | :---: |
| 8/20/1981 | 13.50\% | 12.95\% | 0.55\% |
| 8/20/1981 | 16.50\% | 12.95\% | 3.55\% |
| 8/24/1981 | 15.00\% | 12.97\% | 2.03\% |
| 8/28/1981 | 15.00\% | 13.01\% | 1.99\% |
| 9/3/1981 | 14.50\% | 13.05\% | 1.45\% |
| 9/10/1981 | 14.50\% | 13.11\% | 1.39\% |
| 9/11/1981 | 16.00\% | 13.12\% | 2.88\% |
| 9/16/1981 | 16.00\% | 13.15\% | 2.85\% |
| 9/17/1981 | 16.50\% | 13.16\% | 3.34\% |
| 9/23/1981 | 15.85\% | 13.20\% | 2.65\% |
| 9/28/1981 | 15.50\% | 13.23\% | 2.27\% |
| 10/9/1981 | 15.75\% | 13.33\% | 2.42\% |
| 10/15/1981 | 16.25\% | 13.37\% | 2.88\% |
| 10/16/1981 | 15.50\% | 13.38\% | 2.12\% |
| 10/16/1981 | 16.50\% | 13.38\% | 3.12\% |
| 10/19/1981 | 14.25\% | 13.39\% | 0.86\% |
| 10/20/1981 | 15.25\% | 13.41\% | 1.84\% |
| 10/20/1981 | 17.00\% | 13.41\% | 3.59\% |
| 10/23/1981 | 16.00\% | 13.45\% | 2.55\% |
| 10/27/1981 | 10.00\% | 13.48\% | -3.48\% |
| 10/29/1981 | 14.75\% | 13.51\% | 1.24\% |
| 10/29/1981 | 16.50\% | 13.51\% | 2.99\% |
| 11/3/1981 | 15.17\% | 13.53\% | 1.64\% |
| 11/5/1981 | 16.60\% | 13.55\% | 3.05\% |
| 11/6/1981 | 15.17\% | 13.56\% | 1.61\% |
| 11/24/1981 | 15.50\% | 13.61\% | 1.89\% |
| 11/25/1981 | 15.25\% | 13.61\% | 1.64\% |
| 11/25/1981 | 15.35\% | 13.61\% | 1.74\% |
| 11/25/1981 | 16.10\% | 13.61\% | 2.49\% |
| 11/25/1981 | 16.10\% | 13.61\% | 2.49\% |
| 12/1/1981 | 15.70\% | 13.61\% | 2.09\% |
| 12/1/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/1/1981 | 16.49\% | 13.61\% | 2.88\% |
| 12/1/1981 | 16.50\% | 13.61\% | 2.89\% |
| 12/4/1981 | 16.00\% | 13.61\% | 2.39\% |
| 12/11/1981 | 16.25\% | 13.63\% | 2.62\% |
| 12/14/1981 | 14.00\% | 13.63\% | 0.37\% |
| 12/15/1981 | 15.81\% | 13.63\% | 2.18\% |
| 12/15/1981 | 16.00\% | 13.63\% | 2.37\% |
| 12/16/1981 | 15.25\% | 13.63\% | 1.62\% |
| 12/17/1981 | 16.50\% | 13.63\% | 2.87\% |
| 12/18/1981 | 15.45\% | 13.63\% | 1.82\% |
| 12/30/1981 | 14.25\% | 13.67\% | 0.58\% |
| 12/30/1981 | 16.00\% | 13.67\% | 2.33\% |
| 12/30/1981 | 16.25\% | 13.67\% | 2.58\% |
| 12/31/1981 | 16.15\% | 13.67\% | 2.48\% |
| 1/4/1982 | 15.50\% | 13.67\% | 1.83\% |
| 1/11/1982 | 14.50\% | 13.72\% | 0.78\% |
| 1/11/1982 | 17.00\% | 13.72\% | 3.28\% |
| 1/13/1982 | 14.75\% | 13.74\% | 1.01\% |
| 1/14/1982 | 15.75\% | 13.75\% | 2.00\% |
| 1/15/1982 | 15.00\% | 13.76\% | 1.24\% |
| 1/15/1982 | 16.50\% | 13.76\% | 2.74\% |
| 1/22/1982 | 16.25\% | 13.79\% | 2.46\% |
| 1/27/1982 | 16.84\% | 13.81\% | 3.03\% |
| 1/28/1982 | 13.00\% | 13.81\% | -0.81\% |
| 1/29/1982 | 15.50\% | 13.82\% | 1.68\% |
| 2/1/1982 | 15.85\% | 13.82\% | 2.03\% |
| 2/3/1982 | 16.44\% | 13.84\% | 2.60\% |
| 2/8/1982 | 15.50\% | 13.86\% | 1.64\% |
| 2/11/1982 | 16.00\% | 13.88\% | 2.12\% |
| 2/11/1982 | 16.20\% | 13.88\% | 2.32\% |
| 2/17/1982 | 15.00\% | 13.89\% | 1.11\% |
| 2/19/1982 | 15.17\% | 13.89\% | 1.28\% |
| 2/26/1982 | 15.25\% | 13.89\% | 1.36\% |
| 3/1/1982 | 15.03\% | 13.89\% | 1.14\% |
| 3/1/1982 | 16.00\% | 13.89\% | 2.11\% |
| 3/3/1982 | 15.00\% | 13.88\% | 1.12\% |
| 3/8/1982 | 17.10\% | 13.88\% | 3.22\% |
| 3/12/1982 | 16.25\% | 13.88\% | 2.37\% |
| 3/17/1982 | 17.30\% | 13.88\% | 3.42\% |
| 3/22/1982 | 15.10\% | 13.89\% | 1.21\% |
| 3/27/1982 | 15.40\% | 13.89\% | 1.51\% |
| 3/30/1982 | 15.50\% | 13.90\% | 1.60\% |
| 3/31/1982 | 17.00\% | 13.91\% | 3.09\% |
| 4/1/1982 | 14.70\% | 13.91\% | 0.79\% |
| 4/1/1982 | 16.50\% | 13.91\% | 2.59\% |
| 4/2/1982 | 15.50\% | 13.91\% | 1.59\% |
| 4/5/1982 | 15.50\% | 13.92\% | 1.58\% |
| 4/8/1982 | 16.40\% | 13.93\% | 2.47\% |
| 4/13/1982 | 14.50\% | 13.94\% | 0.56\% |
| 4/23/1982 | 15.75\% | 13.94\% | 1.81\% |

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| 4/27/1982 | 15.00\% | 13.94\% | 1.06\% |
| :---: | :---: | :---: | :---: |
| 4/28/1982 | 15.75\% | 13.94\% | 1.81\% |
| 4/30/1982 | 14.70\% | 13.94\% | 0.76\% |
| 4/30/1982 | 15.50\% | 13.94\% | 1.56\% |
| 5/3/1982 | 16.60\% | 13.94\% | 2.66\% |
| 5/4/1982 | 16.00\% | 13.94\% | 2.06\% |
| 5/14/1982 | 15.50\% | 13.92\% | 1.58\% |
| 5/18/1982 | 15.42\% | 13.92\% | 1.50\% |
| 5/19/1982 | 14.69\% | 13.92\% | 0.77\% |
| 5/20/1982 | 15.00\% | 13.91\% | 1.09\% |
| 5/20/1982 | 15.10\% | 13.91\% | 1.19\% |
| 5/20/1982 | 15.50\% | 13.91\% | 1.59\% |
| 5/20/1982 | 16.30\% | 13.91\% | 2.39\% |
| 5/21/1982 | 17.75\% | 13.91\% | 3.84\% |
| 5/27/1982 | 15.00\% | 13.89\% | 1.11\% |
| 5/28/1982 | 15.50\% | 13.89\% | 1.61\% |
| 5/28/1982 | 17.00\% | 13.89\% | 3.11\% |
| 6/1/1982 | 13.75\% | 13.89\% | -0.14\% |
| 6/1/1982 | 16.60\% | 13.89\% | 2.71\% |
| 6/9/1982 | 17.86\% | 13.88\% | 3.98\% |
| 6/14/1982 | 15.75\% | 13.88\% | 1.87\% |
| 6/15/1982 | 14.85\% | 13.88\% | 0.97\% |
| 6/18/1982 | 15.50\% | 13.87\% | 1.63\% |
| 6/21/1982 | 14.90\% | 13.87\% | 1.03\% |
| 6/23/1982 | 16.00\% | 13.86\% | 2.14\% |
| 6/23/1982 | 16.17\% | 13.86\% | 2.31\% |
| 6/24/1982 | 14.85\% | 13.86\% | 0.99\% |
| 6/25/1982 | 14.70\% | 13.86\% | 0.84\% |
| 7/1/1982 | 16.00\% | 13.84\% | 2.16\% |
| 7/2/1982 | 15.62\% | 13.84\% | 1.78\% |
| 7/2/1982 | 17.00\% | 13.84\% | 3.16\% |
| 7/13/1982 | 14.00\% | 13.82\% | 0.18\% |
| 7/13/1982 | 16.80\% | 13.82\% | 2.98\% |
| 7/14/1982 | 15.76\% | 13.82\% | 1.94\% |
| 7/14/1982 | 16.02\% | 13.82\% | 2.20\% |
| 7/19/1982 | 16.50\% | 13.80\% | 2.70\% |
| 7/22/1982 | 14.50\% | 13.77\% | 0.73\% |
| 7/22/1982 | 17.00\% | 13.77\% | 3.23\% |
| 7/27/1982 | 16.75\% | 13.75\% | 3.00\% |
| 7/29/1982 | 16.50\% | 13.74\% | 2.76\% |
| 8/11/1982 | 17.50\% | 13.68\% | 3.82\% |
| 8/18/1982 | 17.07\% | 13.63\% | 3.44\% |
| 8/20/1982 | 15.73\% | 13.60\% | 2.13\% |
| 8/25/1982 | 16.00\% | 13.57\% | 2.43\% |
| 8/26/1982 | 15.50\% | 13.56\% | 1.94\% |
| 8/30/1982 | 15.00\% | 13.55\% | 1.45\% |
| 9/3/1982 | 16.20\% | 13.53\% | 2.67\% |
| 9/8/1982 | 15.00\% | 13.52\% | 1.48\% |
| 9/15/1982 | 13.08\% | 13.50\% | -0.42\% |
| 9/15/1982 | 16.25\% | 13.50\% | 2.75\% |
| 9/16/1982 | 16.00\% | 13.50\% | 2.50\% |
| 9/17/1982 | 15.25\% | 13.50\% | 1.75\% |
| 9/23/1982 | 17.17\% | 13.47\% | 3.70\% |
| 9/24/1982 | 14.50\% | 13.46\% | 1.04\% |
| 9/27/1982 | 15.25\% | 13.46\% | 1.79\% |
| 10/1/1982 | 15.50\% | 13.42\% | 2.08\% |
| 10/15/1982 | 15.90\% | 13.32\% | 2.58\% |
| 10/22/1982 | 15.75\% | 13.24\% | 2.51\% |
| 10/22/1982 | 17.15\% | 13.24\% | 3.91\% |
| 10/29/1982 | 15.54\% | 13.16\% | 2.38\% |
| 11/1/1982 | 15.50\% | 13.15\% | 2.35\% |
| 11/3/1982 | 17.20\% | 13.13\% | 4.07\% |
| 11/4/1982 | 16.25\% | 13.11\% | 3.14\% |
| 11/5/1982 | 16.20\% | 13.09\% | 3.11\% |
| 11/9/1982 | 16.00\% | 13.05\% | 2.95\% |
| 11/23/1982 | 15.50\% | 12.89\% | 2.61\% |
| 11/23/1982 | 15.85\% | 12.89\% | 2.96\% |
| 11/30/1982 | 16.50\% | 12.81\% | 3.69\% |
| 12/1/1982 | 17.04\% | 12.79\% | 4.25\% |
| 12/6/1982 | 15.00\% | 12.73\% | 2.27\% |
| 12/6/1982 | 16.35\% | 12.73\% | 3.62\% |
| 12/10/1982 | 15.50\% | 12.66\% | 2.84\% |
| 12/13/1982 | 16.00\% | 12.65\% | 3.35\% |
| 12/14/1982 | 15.30\% | 12.63\% | 2.67\% |
| 12/14/1982 | 16.40\% | 12.63\% | 3.77\% |
| 12/20/1982 | 16.00\% | 12.57\% | 3.43\% |
| 12/21/1982 | 14.75\% | 12.56\% | 2.19\% |
| 12/21/1982 | 15.85\% | 12.56\% | 3.29\% |
| 12/22/1982 | 16.25\% | 12.54\% | 3.71\% |
| 12/22/1982 | 16.58\% | 12.54\% | 4.04\% |
| 12/22/1982 | 16.75\% | 12.54\% | 4.21\% |
| 12/29/1982 | 14.90\% | 12.48\% | 2.42\% |
| 12/29/1982 | 16.25\% | 12.48\% | 3.77\% |

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Sponsored by Robert B. Hevert

| 12/30/1982 | 16.00\% | 12.47\% | 3.53\% |
| :---: | :---: | :---: | :---: |
| 12/30/1982 | 16.35\% | 12.47\% | 3.88\% |
| 12/30/1982 | 16.77\% | 12.47\% | 4.30\% |
| 1/5/1983 | 17.33\% | 12.40\% | 4.93\% |
| 1/11/1983 | 15.90\% | 12.34\% | 3.56\% |
| 1/12/1983 | 14.63\% | 12.33\% | 2.30\% |
| 1/12/1983 | 15.50\% | 12.33\% | 3.17\% |
| 1/20/1983 | 17.75\% | 12.24\% | 5.51\% |
| 1/21/1983 | 15.00\% | 12.22\% | 2.78\% |
| 1/24/1983 | 14.50\% | 12.21\% | 2.29\% |
| 1/24/1983 | 15.50\% | 12.21\% | 3.29\% |
| 1/25/1983 | 15.85\% | 12.19\% | 3.66\% |
| 1/27/1983 | 16.14\% | 12.17\% | 3.97\% |
| 2/1/1983 | 18.50\% | 12.13\% | 6.37\% |
| 2/4/1983 | 14.00\% | 12.10\% | 1.90\% |
| 2/10/1983 | 15.00\% | 12.06\% | 2.94\% |
| 2/21/1983 | 15.50\% | 11.98\% | 3.52\% |
| 2/22/1983 | 15.50\% | 11.97\% | 3.53\% |
| 2/23/1983 | 15.10\% | 11.96\% | 3.14\% |
| 2/23/1983 | 16.00\% | 11.96\% | 4.04\% |
| 3/2/1983 | 15.25\% | 11.89\% | 3.36\% |
| 3/9/1983 | 15.20\% | 11.82\% | 3.38\% |
| 3/15/1983 | 13.00\% | 11.77\% | 1.23\% |
| 3/18/1983 | 15.25\% | 11.73\% | 3.52\% |
| 3/23/1983 | 15.40\% | 11.69\% | 3.71\% |
| 3/24/1983 | 15.00\% | 11.67\% | 3.33\% |
| 3/29/1983 | 15.50\% | 11.63\% | 3.87\% |
| 3/30/1983 | 16.71\% | 11.61\% | 5.10\% |
| 3/31/1983 | 15.00\% | 11.59\% | 3.41\% |
| 4/4/1983 | 15.20\% | 11.58\% | 3.62\% |
| 4/8/1983 | 15.50\% | 11.51\% | 3.99\% |
| 4/11/1983 | 14.81\% | 11.49\% | 3.32\% |
| 4/19/1983 | 14.50\% | 11.38\% | 3.12\% |
| 4/20/1983 | 16.00\% | 11.36\% | 4.64\% |
| 4/29/1983 | 16.00\% | 11.24\% | 4.76\% |
| 5/1/1983 | 14.50\% | 11.24\% | 3.26\% |
| 5/9/1983 | 15.50\% | 11.15\% | 4.35\% |
| 5/11/1983 | 16.46\% | 11.12\% | 5.34\% |
| 5/12/1983 | 14.14\% | 11.11\% | 3.03\% |
| 5/18/1983 | 15.00\% | 11.05\% | 3.95\% |
| 5/23/1983 | 14.90\% | 11.01\% | 3.89\% |
| 5/23/1983 | 15.50\% | 11.01\% | 4.49\% |
| 5/25/1983 | 15.50\% | 10.98\% | 4.52\% |
| 5/27/1983 | 15.00\% | 10.96\% | 4.04\% |
| 5/31/1983 | 14.00\% | 10.95\% | 3.05\% |
| 5/31/1983 | 15.50\% | 10.95\% | 4.55\% |
| 6/2/1983 | 14.50\% | 10.93\% | 3.57\% |
| 6/17/1983 | 15.03\% | 10.84\% | 4.19\% |
| 7/1/1983 | 14.80\% | 10.78\% | 4.02\% |
| 7/1/1983 | 14.90\% | 10.78\% | 4.12\% |
| 7/8/1983 | 16.25\% | 10.76\% | 5.49\% |
| 7/13/1983 | 13.20\% | 10.75\% | 2.45\% |
| 7/19/1983 | 15.00\% | 10.74\% | 4.26\% |
| 7/19/1983 | 15.10\% | 10.74\% | 4.36\% |
| 7/25/1983 | 16.25\% | 10.73\% | 5.52\% |
| 7/28/1983 | 15.90\% | 10.74\% | 5.16\% |
| 8/3/1983 | 16.34\% | 10.75\% | 5.59\% |
| 8/3/1983 | 16.50\% | 10.75\% | 5.75\% |
| 8/19/1983 | 15.00\% | 10.80\% | 4.20\% |
| 8/22/1983 | 15.50\% | 10.80\% | 4.70\% |
| 8/22/1983 | 16.40\% | 10.80\% | 5.60\% |
| 8/31/1983 | 14.75\% | 10.84\% | 3.91\% |
| 9/7/1983 | 15.00\% | 10.86\% | 4.14\% |
| 9/14/1983 | 15.78\% | 10.89\% | 4.89\% |
| 9/16/1983 | 15.00\% | 10.90\% | 4.10\% |
| 9/19/1983 | 14.50\% | 10.91\% | 3.59\% |
| 9/20/1983 | 16.50\% | 10.91\% | 5.59\% |
| 9/28/1983 | 14.50\% | 10.94\% | 3.56\% |
| 9/29/1983 | 15.50\% | 10.95\% | 4.55\% |
| 9/30/1983 | 15.25\% | 10.95\% | 4.30\% |
| 9/30/1983 | 16.15\% | 10.95\% | 5.20\% |
| 10/4/1983 | 14.80\% | 10.96\% | 3.84\% |
| 10/7/1983 | 16.00\% | 10.97\% | 5.03\% |
| 10/13/1983 | 15.52\% | 10.99\% | 4.53\% |
| 10/17/1983 | 15.50\% | 11.00\% | 4.50\% |
| 10/18/1983 | 14.50\% | 11.00\% | 3.50\% |
| 10/19/1983 | 16.25\% | 11.01\% | 5.24\% |
| 10/19/1983 | 16.50\% | 11.01\% | 5.49\% |
| 10/26/1983 | 15.00\% | 11.04\% | 3.96\% |
| 10/27/1983 | 15.20\% | 11.04\% | 4.16\% |
| 11/1/1983 | 16.00\% | 11.06\% | 4.94\% |
| 11/9/1983 | 14.90\% | 11.09\% | 3.81\% |
| 11/10/1983 | 14.35\% | 11.10\% | 3.25\% |

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Sponsored by Robert B. Hevert

| 11/23/1983 | 16.00\% | 11.13\% | 4.87\% |
| :---: | :---: | :---: | :---: |
| 11/23/1983 | 16.15\% | 11.13\% | 5.02\% |
| 11/30/1983 | 15.00\% | 11.14\% | 3.86\% |
| 12/5/1983 | 15.25\% | 11.15\% | 4.10\% |
| 12/6/1983 | 15.07\% | 11.15\% | 3.92\% |
| 12/8/1983 | 15.90\% | 11.16\% | 4.74\% |
| 12/9/1983 | 14.75\% | 11.17\% | 3.58\% |
| 12/12/1983 | 14.50\% | 11.17\% | 3.33\% |
| 12/15/1983 | 15.56\% | 11.19\% | 4.37\% |
| 12/19/1983 | 14.80\% | 11.21\% | 3.59\% |
| 12/20/1983 | 14.69\% | 11.22\% | 3.47\% |
| 12/20/1983 | 16.00\% | 11.22\% | 4.78\% |
| 12/20/1983 | 16.25\% | 11.22\% | 5.03\% |
| 12/22/1983 | 14.75\% | 11.23\% | 3.52\% |
| 12/22/1983 | 15.75\% | 11.23\% | 4.52\% |
| 1/3/1984 | 14.75\% | 11.27\% | 3.48\% |
| 1/10/1984 | 15.90\% | 11.30\% | 4.60\% |
| 1/12/1984 | 15.60\% | 11.31\% | 4.29\% |
| 1/18/1984 | 13.75\% | 11.33\% | 2.42\% |
| 1/19/1984 | 15.90\% | 11.33\% | 4.57\% |
| 1/30/1984 | 16.10\% | 11.37\% | 4.73\% |
| 1/31/1984 | 15.25\% | 11.37\% | 3.88\% |
| 2/1/1984 | 14.80\% | 11.38\% | 3.42\% |
| 2/6/1984 | 13.75\% | 11.40\% | 2.35\% |
| 2/6/1984 | 14.75\% | 11.40\% | 3.35\% |
| 2/9/1984 | 15.25\% | 11.42\% | 3.83\% |
| 2/15/1984 | 15.70\% | 11.44\% | 4.26\% |
| 2/20/1984 | 15.00\% | 11.46\% | 3.54\% |
| 2/20/1984 | 15.00\% | 11.46\% | 3.54\% |
| 2/22/1984 | 14.75\% | 11.47\% | 3.28\% |
| 2/28/1984 | 14.50\% | 11.51\% | 2.99\% |
| 3/2/1984 | 14.25\% | 11.54\% | 2.71\% |
| 3/20/1984 | 16.00\% | 11.64\% | 4.36\% |
| 3/23/1984 | 15.50\% | 11.67\% | 3.83\% |
| 3/26/1984 | 14.71\% | 11.68\% | 3.03\% |
| 4/2/1984 | 15.50\% | 11.71\% | 3.79\% |
| 4/6/1984 | 14.74\% | 11.75\% | 2.99\% |
| 4/11/1984 | 15.72\% | 11.78\% | 3.94\% |
| 4/17/1984 | 15.00\% | 11.81\% | 3.19\% |
| 4/18/1984 | 16.20\% | 11.82\% | 4.38\% |
| 4/25/1984 | 14.64\% | 11.85\% | 2.79\% |
| 4/30/1984 | 14.40\% | 11.87\% | 2.53\% |
| 5/16/1984 | 14.69\% | 11.98\% | 2.71\% |
| 5/16/1984 | 15.00\% | 11.98\% | 3.02\% |
| 5/22/1984 | 14.40\% | 12.02\% | 2.38\% |
| 5/29/1984 | 15.10\% | 12.06\% | 3.04\% |
| 6/13/1984 | 15.25\% | 12.15\% | 3.10\% |
| 6/15/1984 | 15.60\% | 12.17\% | 3.43\% |
| 6/22/1984 | 16.25\% | 12.21\% | 4.04\% |
| 6/29/1984 | 15.25\% | 12.26\% | 2.99\% |
| 7/2/1984 | 13.35\% | 12.27\% | 1.08\% |
| 7/10/1984 | 16.00\% | 12.31\% | 3.69\% |
| 7/12/1984 | 16.50\% | 12.32\% | 4.18\% |
| 7/13/1984 | 16.25\% | 12.33\% | 3.92\% |
| 7/17/1984 | 14.14\% | 12.35\% | 1.79\% |
| 7/18/1984 | 15.30\% | 12.36\% | 2.94\% |
| 7/18/1984 | 15.50\% | 12.36\% | 3.14\% |
| 7/19/1984 | 14.30\% | 12.37\% | 1.93\% |
| 7/24/1984 | 16.79\% | 12.39\% | 4.40\% |
| 7/31/1984 | 16.00\% | 12.43\% | 3.57\% |
| 8/3/1984 | 14.25\% | 12.44\% | 1.81\% |
| 8/17/1984 | 14.30\% | 12.49\% | 1.81\% |
| 8/20/1984 | 15.00\% | 12.49\% | 2.51\% |
| 8/27/1984 | 16.30\% | 12.51\% | 3.79\% |
| 8/31/1984 | 15.55\% | 12.52\% | 3.03\% |
| 9/6/1984 | 16.00\% | 12.53\% | 3.47\% |
| 9/10/1984 | 14.75\% | 12.54\% | 2.21\% |
| 9/13/1984 | 15.00\% | 12.55\% | 2.45\% |
| 9/17/1984 | 17.38\% | 12.56\% | 4.82\% |
| 9/26/1984 | 14.50\% | 12.57\% | 1.93\% |
| 9/28/1984 | 15.00\% | 12.57\% | 2.43\% |
| 9/28/1984 | 16.25\% | 12.57\% | 3.68\% |
| 10/9/1984 | 14.75\% | 12.58\% | 2.17\% |
| 10/12/1984 | 15.60\% | 12.59\% | 3.01\% |
| 10/22/1984 | 15.00\% | 12.59\% | 2.41\% |
| 10/26/1984 | 16.40\% | 12.58\% | 3.82\% |
| 10/31/1984 | 16.25\% | 12.58\% | 3.67\% |
| 11/7/1984 | 15.60\% | 12.58\% | 3.02\% |
| 11/9/1984 | 16.00\% | 12.58\% | 3.42\% |
| 11/14/1984 | 15.75\% | 12.58\% | 3.17\% |
| 11/20/1984 | 15.25\% | 12.58\% | 2.67\% |
| 11/20/1984 | 15.92\% | 12.58\% | 3.34\% |
| 11/23/1984 | 15.00\% | 12.58\% | 2.42\% |

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| 11/28/1984 | 16.15\% | 12.57\% | 3.58\% |
| :---: | :---: | :---: | :---: |
| 12/3/1984 | 15.80\% | 12.56\% | 3.24\% |
| 12/4/1984 | 16.50\% | 12.56\% | 3.94\% |
| 12/18/1984 | 16.40\% | 12.53\% | 3.87\% |
| 12/19/1984 | 14.75\% | 12.53\% | 2.22\% |
| 12/19/1984 | 15.00\% | 12.53\% | 2.47\% |
| 12/20/1984 | 16.00\% | 12.53\% | 3.47\% |
| 12/28/1984 | 16.00\% | 12.50\% | 3.50\% |
| 1/3/1985 | 14.75\% | 12.49\% | 2.26\% |
| 1/10/1985 | 15.75\% | 12.47\% | 3.28\% |
| 1/11/1985 | 16.30\% | 12.46\% | 3.84\% |
| 1/23/1985 | 15.80\% | 12.43\% | 3.37\% |
| 1/24/1985 | 15.82\% | 12.43\% | 3.39\% |
| 1/25/1985 | 16.75\% | 12.42\% | 4.33\% |
| 1/30/1985 | 14.90\% | 12.40\% | 2.50\% |
| 1/31/1985 | 14.75\% | 12.39\% | 2.36\% |
| 2/8/1985 | 14.47\% | 12.35\% | 2.12\% |
| 3/1/1985 | 13.84\% | 12.31\% | 1.53\% |
| 3/8/1985 | 16.85\% | 12.28\% | 4.57\% |
| 3/14/1985 | 15.50\% | 12.25\% | 3.25\% |
| 3/15/1985 | 15.62\% | 12.25\% | 3.37\% |
| 3/29/1985 | 15.62\% | 12.17\% | 3.45\% |
| 4/3/1985 | 14.60\% | 12.14\% | 2.46\% |
| 4/9/1985 | 15.50\% | 12.11\% | 3.39\% |
| 4/16/1985 | 15.70\% | 12.06\% | 3.64\% |
| 4/22/1985 | 14.00\% | 12.02\% | 1.98\% |
| 4/26/1985 | 15.50\% | 11.98\% | 3.52\% |
| 4/29/1985 | 15.00\% | 11.97\% | 3.03\% |
| 5/2/1985 | 14.68\% | 11.94\% | 2.74\% |
| 5/8/1985 | 15.62\% | 11.89\% | 3.73\% |
| 5/10/1985 | 16.50\% | 11.87\% | 4.63\% |
| 5/29/1985 | 14.61\% | 11.73\% | 2.88\% |
| 5/31/1985 | 16.00\% | 11.71\% | 4.29\% |
| 6/14/1985 | 15.50\% | 11.61\% | 3.89\% |
| 7/9/1985 | 15.00\% | 11.45\% | 3.55\% |
| 7/16/1985 | 14.50\% | 11.39\% | 3.11\% |
| 7/26/1985 | 14.50\% | 11.33\% | 3.17\% |
| 8/2/1985 | 14.80\% | 11.29\% | 3.51\% |
| 8/7/1985 | 15.00\% | 11.27\% | 3.73\% |
| 8/28/1985 | 14.25\% | 11.15\% | 3.10\% |
| 8/28/1985 | 15.50\% | 11.15\% | 4.35\% |
| 8/29/1985 | 14.50\% | 11.15\% | 3.35\% |
| 9/9/1985 | 14.60\% | 11.11\% | 3.49\% |
| 9/9/1985 | 14.90\% | 11.11\% | 3.79\% |
| 9/17/1985 | 14.90\% | 11.08\% | 3.82\% |
| 9/23/1985 | 15.00\% | 11.06\% | 3.94\% |
| 9/27/1985 | 15.50\% | 11.05\% | 4.45\% |
| 9/27/1985 | 15.80\% | 11.05\% | 4.75\% |
| 10/2/1985 | 14.00\% | 11.03\% | 2.97\% |
| 10/2/1985 | 14.75\% | 11.03\% | 3.72\% |
| 10/3/1985 | 15.25\% | 11.03\% | 4.22\% |
| 10/24/1985 | 15.40\% | 10.96\% | 4.44\% |
| 10/24/1985 | 15.82\% | 10.96\% | 4.86\% |
| 10/24/1985 | 15.85\% | 10.96\% | 4.89\% |
| 10/28/1985 | 16.00\% | 10.95\% | 5.05\% |
| 10/29/1985 | 16.65\% | 10.94\% | 5.71\% |
| 10/31/1985 | 15.06\% | 10.93\% | 4.13\% |
| 11/4/1985 | 14.50\% | 10.92\% | 3.58\% |
| 11/7/1985 | 15.50\% | 10.90\% | 4.60\% |
| 11/8/1985 | 14.30\% | 10.89\% | 3.41\% |
| 12/12/1985 | 14.75\% | 10.73\% | 4.02\% |
| 12/18/1985 | 15.00\% | 10.69\% | 4.31\% |
| 12/20/1985 | 14.50\% | 10.67\% | 3.83\% |
| 12/20/1985 | 14.50\% | 10.67\% | 3.83\% |
| 12/20/1985 | 15.00\% | 10.67\% | 4.33\% |
| 1/24/1986 | 15.40\% | 10.41\% | 4.99\% |
| 1/31/1986 | 15.00\% | 10.35\% | 4.65\% |
| 2/5/1986 | 15.00\% | 10.32\% | 4.68\% |
| 2/5/1986 | 15.75\% | 10.32\% | 5.43\% |
| 2/10/1986 | 13.30\% | 10.29\% | 3.01\% |
| 2/11/1986 | 12.50\% | 10.28\% | 2.22\% |
| 2/14/1986 | 14.40\% | 10.24\% | 4.16\% |
| 2/18/1986 | 16.00\% | 10.23\% | 5.77\% |
| 2/24/1986 | 14.50\% | 10.18\% | 4.32\% |
| 2/26/1986 | 14.00\% | 10.15\% | 3.85\% |
| 3/5/1986 | 14.90\% | 10.08\% | 4.82\% |
| 3/11/1986 | 14.50\% | 10.02\% | 4.48\% |
| 3/12/1986 | 13.50\% | 10.00\% | 3.50\% |
| 3/27/1986 | 14.10\% | 9.86\% | 4.24\% |
| 3/31/1986 | 13.50\% | 9.84\% | 3.66\% |
| 4/1/1986 | 14.00\% | 9.83\% | 4.17\% |
| 4/2/1986 | 15.50\% | 9.81\% | 5.69\% |
| 4/4/1986 | 15.00\% | 9.78\% | 5.22\% |

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| 4/14/1986 | 13.40\% | 9.69\% | 3.71\% |
| :---: | :---: | :---: | :---: |
| 4/23/1986 | 15.00\% | 9.57\% | 5.43\% |
| 5/16/1986 | 14.50\% | 9.32\% | 5.18\% |
| 5/16/1986 | 14.50\% | 9.32\% | 5.18\% |
| 5/29/1986 | 13.90\% | 9.19\% | 4.71\% |
| 5/30/1986 | 15.10\% | 9.18\% | 5.92\% |
| 6/2/1986 | 12.81\% | 9.17\% | 3.64\% |
| 6/11/1986 | 14.00\% | 9.07\% | 4.93\% |
| 6/24/1986 | 16.63\% | 8.94\% | 7.69\% |
| 6/26/1986 | 12.00\% | 8.91\% | 3.09\% |
| 6/26/1986 | 14.75\% | 8.91\% | 5.84\% |
| 6/30/1986 | 13.00\% | 8.87\% | 4.13\% |
| 7/10/1986 | 14.34\% | 8.75\% | 5.59\% |
| 7/11/1986 | 12.75\% | 8.73\% | 4.02\% |
| 7/14/1986 | 12.60\% | 8.71\% | 3.89\% |
| 7/17/1986 | 12.40\% | 8.66\% | 3.74\% |
| 7/25/1986 | 14.25\% | 8.57\% | 5.68\% |
| 8/6/1986 | 13.50\% | 8.44\% | 5.06\% |
| 8/14/1986 | 13.50\% | 8.35\% | 5.15\% |
| 9/16/1986 | 12.75\% | 8.06\% | 4.69\% |
| 9/19/1986 | 13.25\% | 8.03\% | 5.22\% |
| 10/1/1986 | 14.00\% | 7.95\% | 6.05\% |
| 10/3/1986 | 13.40\% | 7.93\% | 5.47\% |
| 10/31/1986 | 13.50\% | 7.77\% | 5.73\% |
| 11/5/1986 | 13.00\% | 7.75\% | 5.25\% |
| 12/3/1986 | 12.90\% | 7.58\% | 5.32\% |
| 12/4/1986 | 14.44\% | 7.58\% | 6.86\% |
| 12/16/1986 | 13.60\% | 7.52\% | 6.08\% |
| 12/22/1986 | 13.80\% | 7.51\% | 6.29\% |
| 12/30/1986 | 13.00\% | 7.49\% | 5.51\% |
| 1/2/1987 | 13.00\% | 7.49\% | 5.51\% |
| 1/12/1987 | 12.40\% | 7.47\% | 4.93\% |
| 1/27/1987 | 12.71\% | 7.46\% | 5.25\% |
| 3/2/1987 | 12.47\% | 7.47\% | 5.00\% |
| 3/3/1987 | 13.60\% | 7.47\% | 6.13\% |
| 3/4/1987 | 12.38\% | 7.47\% | 4.91\% |
| 3/10/1987 | 13.50\% | 7.47\% | 6.03\% |
| 3/13/1987 | 13.00\% | 7.47\% | 5.53\% |
| 3/31/1987 | 13.00\% | 7.46\% | 5.54\% |
| 4/6/1987 | 13.00\% | 7.47\% | 5.53\% |
| 4/14/1987 | 12.50\% | 7.49\% | 5.01\% |
| 4/16/1987 | 14.50\% | 7.50\% | 7.00\% |
| 4/27/1987 | 12.00\% | 7.54\% | 4.46\% |
| 5/5/1987 | 12.85\% | 7.58\% | 5.27\% |
| 5/12/1987 | 12.65\% | 7.62\% | 5.03\% |
| 5/28/1987 | 13.50\% | 7.70\% | 5.80\% |
| 6/15/1987 | 13.20\% | 7.78\% | 5.42\% |
| 6/29/1987 | 15.00\% | 7.83\% | 7.17\% |
| 6/30/1987 | 12.50\% | 7.84\% | 4.66\% |
| 7/8/1987 | 12.00\% | 7.86\% | 4.14\% |
| 7/10/1987 | 12.90\% | 7.86\% | 5.04\% |
| 7/15/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/16/1987 | 13.50\% | 7.88\% | 5.62\% |
| 7/16/1987 | 15.00\% | 7.88\% | 7.12\% |
| 7/27/1987 | 13.00\% | 7.92\% | 5.08\% |
| 7/27/1987 | 13.40\% | 7.92\% | 5.48\% |
| 7/27/1987 | 13.50\% | 7.92\% | 5.58\% |
| 7/31/1987 | 12.98\% | 7.95\% | 5.03\% |
| 8/26/1987 | 12.63\% | 8.06\% | 4.57\% |
| 8/26/1987 | 12.75\% | 8.06\% | 4.69\% |
| 8/27/1987 | 13.25\% | 8.06\% | 5.19\% |
| 9/9/1987 | 13.00\% | 8.14\% | 4.86\% |
| 9/30/1987 | 12.75\% | 8.31\% | 4.44\% |
| 9/30/1987 | 13.00\% | 8.31\% | 4.69\% |
| 10/2/1987 | 11.50\% | 8.33\% | 3.17\% |
| 10/15/1987 | 13.00\% | 8.43\% | 4.57\% |
| 11/2/1987 | 13.00\% | 8.55\% | 4.45\% |
| 11/19/1987 | 13.00\% | 8.64\% | 4.36\% |
| 11/30/1987 | 12.00\% | 8.68\% | 3.32\% |
| 12/3/1987 | 14.20\% | 8.70\% | 5.50\% |
| 12/15/1987 | 13.25\% | 8.77\% | 4.48\% |
| 12/16/1987 | 13.50\% | 8.78\% | 4.72\% |
| 12/16/1987 | 13.72\% | 8.78\% | 4.94\% |
| 12/17/1987 | 11.75\% | 8.79\% | 2.96\% |
| 12/18/1987 | 13.50\% | 8.80\% | 4.70\% |
| 12/21/1987 | 12.01\% | 8.81\% | 3.20\% |
| 12/22/1987 | 12.00\% | 8.81\% | 3.19\% |
| 12/22/1987 | 12.00\% | 8.81\% | 3.19\% |
| 12/22/1987 | 12.75\% | 8.81\% | 3.94\% |
| 12/22/1987 | 13.00\% | 8.81\% | 4.19\% |
| 1/20/1988 | 13.80\% | 8.94\% | 4.86\% |
| 1/26/1988 | 13.90\% | 8.95\% | 4.95\% |
| 1/29/1988 | 13.20\% | 8.96\% | 4.24\% |

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Sponsored by Robert B. Hevert

| 2/4/1988 | 12.60\% | 8.96\% | 3.64\% |
| :---: | :---: | :---: | :---: |
| 3/1/1988 | 11.56\% | 8.94\% | 2.62\% |
| 3/23/1988 | 12.87\% | 8.92\% | 3.95\% |
| 3/24/1988 | 11.24\% | 8.92\% | 2.32\% |
| 3/30/1988 | 12.72\% | 8.92\% | 3.80\% |
| 4/1/1988 | 12.50\% | 8.92\% | 3.58\% |
| 4/7/1988 | 13.25\% | 8.93\% | 4.32\% |
| 4/25/1988 | 10.96\% | 8.96\% | 2.00\% |
| 5/3/1988 | 12.91\% | 8.97\% | 3.94\% |
| 5/11/1988 | 13.50\% | 8.99\% | 4.51\% |
| 5/16/1988 | 13.00\% | 8.99\% | 4.01\% |
| 6/30/1988 | 12.75\% | 9.00\% | 3.75\% |
| 7/1/1988 | 12.75\% | 8.99\% | 3.76\% |
| 7/20/1988 | 13.40\% | 8.96\% | 4.44\% |
| 8/5/1988 | 12.75\% | 8.92\% | 3.83\% |
| 8/23/1988 | 11.70\% | 8.93\% | 2.77\% |
| 8/29/1988 | 12.75\% | 8.94\% | 3.81\% |
| 8/30/1988 | 13.50\% | 8.94\% | 4.56\% |
| 9/8/1988 | 12.60\% | 8.95\% | 3.65\% |
| 10/13/1988 | 13.10\% | 8.93\% | 4.17\% |
| 12/19/1988 | 13.00\% | 9.02\% | 3.98\% |
| 12/20/1988 | 12.25\% | 9.02\% | 3.23\% |
| 12/20/1988 | 13.00\% | 9.02\% | 3.98\% |
| 12/21/1988 | 12.90\% | 9.02\% | 3.88\% |
| 12/27/1988 | 13.00\% | 9.03\% | 3.97\% |
| 12/28/1988 | 13.10\% | 9.03\% | 4.07\% |
| 12/30/1988 | 13.40\% | 9.04\% | 4.36\% |
| 1/27/1989 | 13.00\% | 9.05\% | 3.95\% |
| 1/31/1989 | 13.00\% | 9.05\% | 3.95\% |
| 2/17/1989 | 13.00\% | 9.05\% | 3.95\% |
| 2/20/1989 | 12.40\% | 9.05\% | 3.35\% |
| 3/1/1989 | 12.76\% | 9.05\% | 3.71\% |
| 3/8/1989 | 13.00\% | 9.05\% | 3.95\% |
| 3/30/1989 | 14.00\% | 9.05\% | 4.95\% |
| 4/5/1989 | 14.20\% | 9.05\% | 5.15\% |
| 4/18/1989 | 13.00\% | 9.05\% | 3.95\% |
| 5/5/1989 | 12.40\% | 9.05\% | 3.35\% |
| 6/2/1989 | 13.20\% | 9.00\% | 4.20\% |
| 6/8/1989 | 13.50\% | 8.98\% | 4.52\% |
| 6/27/1989 | 13.25\% | 8.91\% | 4.34\% |
| 6/30/1989 | 13.00\% | 8.90\% | 4.10\% |
| 8/14/1989 | 12.50\% | 8.77\% | 3.73\% |
| 9/28/1989 | 12.25\% | 8.63\% | 3.62\% |
| 10/24/1989 | 12.50\% | 8.54\% | 3.96\% |
| 11/9/1989 | 13.00\% | 8.49\% | 4.51\% |
| 12/15/1989 | 13.00\% | 8.34\% | 4.66\% |
| 12/20/1989 | 12.90\% | 8.32\% | 4.58\% |
| 12/21/1989 | 12.90\% | 8.31\% | 4.59\% |
| 12/27/1989 | 12.50\% | 8.29\% | 4.21\% |
| 12/27/1989 | 13.00\% | 8.29\% | 4.71\% |
| 1/10/1990 | 12.80\% | 8.24\% | 4.56\% |
| 1/11/1990 | 12.90\% | 8.24\% | 4.66\% |
| 1/17/1990 | 12.80\% | 8.22\% | 4.58\% |
| 1/26/1990 | 12.00\% | 8.20\% | 3.80\% |
| 2/9/1990 | 12.10\% | 8.17\% | 3.93\% |
| 2/24/1990 | 12.86\% | 8.15\% | 4.71\% |
| 3/30/1990 | 12.90\% | 8.16\% | 4.74\% |
| 4/4/1990 | 15.76\% | 8.17\% | 7.59\% |
| 4/12/1990 | 12.52\% | 8.18\% | 4.34\% |
| 4/19/1990 | 12.75\% | 8.20\% | 4.55\% |
| 5/21/1990 | 12.10\% | 8.28\% | 3.82\% |
| 5/29/1990 | 12.40\% | 8.30\% | 4.10\% |
| 5/31/1990 | 12.00\% | 8.30\% | 3.70\% |
| 6/4/1990 | 12.90\% | 8.30\% | 4.60\% |
| 6/6/1990 | 12.25\% | 8.31\% | 3.94\% |
| 6/15/1990 | 13.20\% | 8.32\% | 4.88\% |
| 6/20/1990 | 12.92\% | 8.32\% | 4.60\% |
| 6/27/1990 | 12.90\% | 8.33\% | 4.57\% |
| 6/29/1990 | 12.50\% | 8.33\% | 4.17\% |
| 7/6/1990 | 12.10\% | 8.34\% | 3.76\% |
| 7/6/1990 | 12.35\% | 8.34\% | 4.01\% |
| 8/10/1990 | 12.55\% | 8.41\% | 4.14\% |
| 8/16/1990 | 13.21\% | 8.43\% | 4.78\% |
| 8/22/1990 | 13.10\% | 8.45\% | 4.65\% |
| 8/24/1990 | 13.00\% | 8.46\% | 4.54\% |
| 9/26/1990 | 11.45\% | 8.59\% | 2.86\% |
| 10/2/1990 | 13.00\% | 8.61\% | 4.39\% |
| 10/5/1990 | 12.84\% | 8.62\% | 4.22\% |
| 10/19/1990 | 13.00\% | 8.67\% | 4.33\% |
| 10/25/1990 | 12.30\% | 8.68\% | 3.62\% |
| 11/21/1990 | 12.70\% | 8.69\% | 4.01\% |
| 12/13/1990 | 12.30\% | 8.67\% | 3.63\% |
| 12/17/1990 | 12.87\% | 8.67\% | 4.20\% |

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| 12/18/1990 | 13.10\% | 8.67\% | 4.43\% |
| :---: | :---: | :---: | :---: |
| 12/19/1990 | 12.00\% | 8.66\% | 3.34\% |
| 12/20/1990 | 12.75\% | 8.66\% | 4.09\% |
| 12/21/1990 | 12.50\% | 8.66\% | 3.84\% |
| 12/27/1990 | 12.79\% | 8.66\% | 4.13\% |
| 1/2/1991 | 13.10\% | 8.65\% | 4.45\% |
| 1/4/1991 | 12.50\% | 8.65\% | 3.85\% |
| 1/15/1991 | 12.75\% | 8.64\% | 4.11\% |
| 1/25/1991 | 11.70\% | 8.63\% | 3.07\% |
| 2/4/1991 | 12.50\% | 8.60\% | 3.90\% |
| 2/7/1991 | 12.50\% | 8.59\% | 3.91\% |
| 2/12/1991 | 13.00\% | 8.58\% | 4.43\% |
| 2/14/1991 | 12.72\% | 8.57\% | 4.15\% |
| 2/22/1991 | 12.80\% | 8.55\% | 4.25\% |
| 3/6/1991 | 13.10\% | 8.53\% | 4.57\% |
| 3/8/1991 | 12.30\% | 8.52\% | 3.78\% |
| 3/8/1991 | 13.00\% | 8.52\% | 4.48\% |
| 4/22/1991 | 13.00\% | 8.49\% | 4.51\% |
| 5/7/1991 | 13.50\% | 8.47\% | 5.03\% |
| 5/13/1991 | 13.25\% | 8.47\% | 4.78\% |
| 5/30/1991 | 12.75\% | 8.44\% | 4.31\% |
| 6/12/1991 | 12.00\% | 8.41\% | 3.59\% |
| 6/25/1991 | 11.70\% | 8.39\% | 3.31\% |
| 6/28/1991 | 12.50\% | 8.38\% | 4.12\% |
| 7/1/1991 | 12.00\% | 8.38\% | 3.62\% |
| 7/3/1991 | 12.50\% | 8.37\% | 4.13\% |
| 7/19/1991 | 12.10\% | 8.34\% | 3.76\% |
| 8/1/1991 | 12.90\% | 8.32\% | 4.58\% |
| 8/16/1991 | 13.20\% | 8.29\% | 4.91\% |
| 9/27/1991 | 12.50\% | 8.23\% | 4.27\% |
| 9/30/1991 | 12.25\% | 8.23\% | 4.02\% |
| 10/17/1991 | 13.00\% | 8.20\% | 4.80\% |
| 10/23/1991 | 12.50\% | 8.20\% | 4.30\% |
| 10/23/1991 | 12.55\% | 8.20\% | 4.35\% |
| 10/31/1991 | 11.80\% | 8.19\% | 3.61\% |
| 11/1/1991 | 12.00\% | 8.19\% | 3.81\% |
| 11/5/1991 | 12.25\% | 8.19\% | 4.06\% |
| 11/12/1991 | 12.50\% | 8.18\% | 4.32\% |
| 11/12/1991 | 13.25\% | 8.18\% | 5.07\% |
| 11/25/1991 | 12.40\% | 8.18\% | 4.22\% |
| 11/26/1991 | 11.60\% | 8.18\% | 3.42\% |
| 11/26/1991 | 12.50\% | 8.18\% | 4.32\% |
| 11/27/1991 | 12.10\% | 8.18\% | 3.92\% |
| 12/18/1991 | 12.25\% | 8.15\% | 4.10\% |
| 12/19/1991 | 12.60\% | 8.15\% | 4.45\% |
| 12/19/1991 | 12.80\% | 8.15\% | 4.65\% |
| 12/20/1991 | 12.65\% | 8.14\% | 4.51\% |
| 1/9/1992 | 12.80\% | 8.09\% | 4.71\% |
| 1/16/1992 | 12.75\% | 8.07\% | 4.68\% |
| 1/21/1992 | 12.00\% | 8.06\% | 3.94\% |
| 1/22/1992 | 13.00\% | 8.06\% | 4.94\% |
| 1/27/1992 | 12.65\% | 8.05\% | 4.60\% |
| 1/31/1992 | 12.00\% | 8.04\% | 3.96\% |
| 2/11/1992 | 12.40\% | 8.03\% | 4.37\% |
| 2/25/1992 | 12.50\% | 8.01\% | 4.49\% |
| 3/16/1992 | 11.43\% | 7.98\% | 3.45\% |
| 3/18/1992 | 12.28\% | 7.98\% | 4.30\% |
| 4/2/1992 | 12.10\% | 7.95\% | 4.15\% |
| 4/9/1992 | 11.45\% | 7.94\% | 3.51\% |
| 4/10/1992 | 11.50\% | 7.93\% | 3.57\% |
| 4/14/1992 | 11.50\% | 7.93\% | 3.57\% |
| 5/5/1992 | 11.50\% | 7.89\% | 3.61\% |
| 5/12/1992 | 11.87\% | 7.88\% | 3.99\% |
| 5/12/1992 | 12.46\% | 7.88\% | 4.58\% |
| 6/1/1992 | 12.30\% | 7.87\% | 4.43\% |
| 6/12/1992 | 10.90\% | 7.86\% | 3.04\% |
| 6/26/1992 | 12.35\% | 7.85\% | 4.50\% |
| 6/29/1992 | 11.00\% | 7.85\% | 3.15\% |
| 6/30/1992 | 13.00\% | 7.85\% | 5.15\% |
| 7/13/1992 | 11.90\% | 7.84\% | 4.06\% |
| 7/13/1992 | 13.50\% | 7.84\% | 5.66\% |
| 7/22/1992 | 11.20\% | 7.83\% | 3.37\% |
| 8/3/1992 | 12.00\% | 7.81\% | 4.19\% |
| 8/6/1992 | 12.50\% | 7.80\% | 4.70\% |
| 9/22/1992 | 12.00\% | 7.71\% | 4.29\% |
| 9/28/1992 | 11.40\% | 7.71\% | 3.69\% |
| 9/30/1992 | 11.75\% | 7.70\% | 4.05\% |
| 10/2/1992 | 13.00\% | 7.70\% | 5.30\% |
| 10/12/1992 | 12.20\% | 7.70\% | 4.50\% |
| 10/16/1992 | 13.16\% | 7.70\% | 5.46\% |
| 10/30/1992 | 11.75\% | 7.71\% | 4.04\% |
| 11/3/1992 | 12.00\% | 7.71\% | 4.29\% |
| 12/3/1992 | 11.85\% | 7.68\% | 4.17\% |

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| 12/15/1992 | 11.00\% | 7.66\% | 3.34\% |
| :---: | :---: | :---: | :---: |
| 12/16/1992 | 11.90\% | 7.66\% | 4.24\% |
| 12/16/1992 | 12.40\% | 7.66\% | 4.74\% |
| 12/17/1992 | 12.00\% | 7.66\% | 4.34\% |
| 12/22/1992 | 12.30\% | 7.65\% | 4.65\% |
| 12/22/1992 | 12.40\% | 7.65\% | 4.75\% |
| 12/29/1992 | 12.25\% | 7.63\% | 4.62\% |
| 12/30/1992 | 12.00\% | 7.63\% | 4.37\% |
| 12/31/1992 | 11.90\% | 7.63\% | 4.27\% |
| 1/12/1993 | 12.00\% | 7.61\% | 4.39\% |
| 1/21/1993 | 11.25\% | 7.59\% | 3.66\% |
| 2/2/1993 | 11.40\% | 7.56\% | 3.84\% |
| 2/15/1993 | 12.30\% | 7.52\% | 4.78\% |
| 2/24/1993 | 11.90\% | 7.49\% | 4.41\% |
| 2/26/1993 | 11.80\% | 7.48\% | 4.32\% |
| 2/26/1993 | 12.20\% | 7.48\% | 4.72\% |
| 4/23/1993 | 11.75\% | 7.29\% | 4.46\% |
| 5/11/1993 | 11.75\% | 7.25\% | 4.50\% |
| 5/14/1993 | 11.50\% | 7.24\% | 4.26\% |
| 5/25/1993 | 11.50\% | 7.23\% | 4.27\% |
| 5/28/1993 | 11.00\% | 7.22\% | 3.78\% |
| 6/3/1993 | 12.00\% | 7.21\% | 4.79\% |
| 6/16/1993 | 11.50\% | 7.19\% | 4.31\% |
| 6/18/1993 | 12.10\% | 7.18\% | 4.92\% |
| 6/25/1993 | 11.67\% | 7.17\% | 4.50\% |
| 7/21/1993 | 11.38\% | 7.10\% | 4.28\% |
| 7/23/1993 | 10.46\% | 7.09\% | 3.37\% |
| 8/24/1993 | 11.50\% | 6.96\% | 4.54\% |
| 9/21/1993 | 10.50\% | 6.81\% | 3.69\% |
| 9/29/1993 | 11.47\% | 6.77\% | 4.70\% |
| 9/30/1993 | 11.60\% | 6.76\% | 4.84\% |
| 11/2/1993 | 10.80\% | 6.60\% | 4.20\% |
| 11/12/1993 | 12.00\% | 6.57\% | 5.43\% |
| 11/26/1993 | 11.00\% | 6.52\% | 4.48\% |
| 12/14/1993 | 10.55\% | 6.48\% | 4.07\% |
| 12/16/1993 | 10.60\% | 6.48\% | 4.12\% |
| 12/21/1993 | 11.30\% | 6.47\% | 4.83\% |
| 1/4/1994 | 10.07\% | 6.44\% | 3.63\% |
| 1/13/1994 | 11.00\% | 6.42\% | 4.58\% |
| 1/21/1994 | 11.00\% | 6.40\% | 4.60\% |
| 1/28/1994 | 11.35\% | 6.39\% | 4.96\% |
| 2/3/1994 | 11.40\% | 6.38\% | 5.02\% |
| 2/17/1994 | 10.60\% | 6.36\% | 4.24\% |
| 2/25/1994 | 11.25\% | 6.35\% | 4.90\% |
| 2/25/1994 | 12.00\% | 6.35\% | 5.65\% |
| 3/1/1994 | 11.00\% | 6.35\% | 4.65\% |
| 3/4/1994 | 11.00\% | 6.35\% | 4.65\% |
| 4/25/1994 | 11.00\% | 6.41\% | 4.59\% |
| 5/10/1994 | 11.75\% | 6.45\% | 5.30\% |
| 5/13/1994 | 10.50\% | 6.46\% | 4.04\% |
| 6/3/1994 | 11.00\% | 6.54\% | 4.46\% |
| 6/27/1994 | 11.40\% | 6.65\% | 4.75\% |
| 8/5/1994 | 12.75\% | 6.88\% | 5.87\% |
| 10/31/1994 | 10.00\% | 7.33\% | 2.67\% |
| 11/9/1994 | 10.85\% | 7.39\% | 3.46\% |
| 11/9/1994 | 10.85\% | 7.39\% | 3.46\% |
| 11/18/1994 | 11.20\% | 7.45\% | 3.75\% |
| 11/22/1994 | 11.60\% | 7.47\% | 4.13\% |
| 11/28/1994 | 11.06\% | 7.49\% | 3.57\% |
| 12/8/1994 | 11.50\% | 7.54\% | 3.96\% |
| 12/8/1994 | 11.70\% | 7.54\% | 4.16\% |
| 12/14/1994 | 10.95\% | 7.56\% | 3.39\% |
| 12/15/1994 | 11.50\% | 7.57\% | 3.93\% |
| 12/19/1994 | 11.50\% | 7.58\% | 3.92\% |
| 12/28/1994 | 12.15\% | 7.61\% | 4.54\% |
| 1/9/1995 | 12.28\% | 7.64\% | 4.64\% |
| 1/31/1995 | 11.00\% | 7.69\% | 3.31\% |
| 2/10/1995 | 12.60\% | 7.70\% | 4.90\% |
| 2/17/1995 | 11.90\% | 7.70\% | 4.20\% |
| 3/9/1995 | 11.50\% | 7.71\% | 3.79\% |
| 3/20/1995 | 12.00\% | 7.72\% | 4.28\% |
| 3/23/1995 | 12.81\% | 7.72\% | 5.09\% |
| 3/29/1995 | 11.60\% | 7.72\% | 3.88\% |
| 4/6/1995 | 11.10\% | 7.71\% | 3.39\% |
| 4/7/1995 | 11.00\% | 7.71\% | 3.29\% |
| 4/19/1995 | 11.00\% | 7.70\% | 3.30\% |
| 5/12/1995 | 11.63\% | 7.68\% | 3.95\% |
| 5/25/1995 | 11.20\% | 7.65\% | 3.55\% |
| 6/9/1995 | 11.25\% | 7.60\% | 3.65\% |
| 6/21/1995 | 12.25\% | 7.56\% | 4.69\% |
| 6/30/1995 | 11.10\% | 7.52\% | 3.58\% |
| 9/11/1995 | 11.30\% | 7.20\% | 4.10\% |
| 9/27/1995 | 11.30\% | 7.12\% | 4.18\% |

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| 9/27/1995 | 11.50\% | 7.12\% | 4.38\% |
| :---: | :---: | :---: | :---: |
| 9/27/1995 | 11.75\% | 7.12\% | 4.63\% |
| 9/29/1995 | 11.00\% | 7.11\% | 3.89\% |
| 11/9/1995 | 11.38\% | 6.90\% | 4.48\% |
| 11/9/1995 | 12.36\% | 6.90\% | 5.46\% |
| 11/17/1995 | 11.00\% | 6.86\% | 4.14\% |
| 12/4/1995 | 11.35\% | 6.78\% | 4.57\% |
| 12/11/1995 | 11.40\% | 6.74\% | 4.66\% |
| 12/20/1995 | 11.60\% | 6.70\% | 4.90\% |
| 12/27/1995 | 12.00\% | 6.66\% | 5.34\% |
| 2/5/1996 | 12.25\% | 6.48\% | 5.77\% |
| 3/29/1996 | 10.67\% | 6.42\% | 4.25\% |
| 4/8/1996 | 11.00\% | 6.42\% | 4.58\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/11/1996 | 12.59\% | 6.43\% | 6.16\% |
| 4/24/1996 | 11.25\% | 6.43\% | 4.82\% |
| 4/30/1996 | 11.00\% | 6.43\% | 4.57\% |
| 5/13/1996 | 11.00\% | 6.44\% | 4.56\% |
| 5/23/1996 | 11.25\% | 6.43\% | 4.82\% |
| 6/25/1996 | 11.25\% | 6.48\% | 4.77\% |
| 6/27/1996 | 11.20\% | 6.48\% | 4.72\% |
| 8/12/1996 | 10.40\% | 6.57\% | 3.83\% |
| 9/27/1996 | 11.00\% | 6.71\% | 4.29\% |
| 10/16/1996 | 12.25\% | 6.76\% | 5.49\% |
| 11/5/1996 | 11.00\% | 6.81\% | 4.19\% |
| 11/26/1996 | 11.30\% | 6.83\% | 4.47\% |
| 12/18/1996 | 11.75\% | 6.83\% | 4.92\% |
| 12/31/1996 | 11.50\% | 6.83\% | 4.67\% |
| 1/3/1997 | 10.70\% | 6.83\% | 3.87\% |
| 2/13/1997 | 11.80\% | 6.82\% | 4.98\% |
| 2/20/1997 | 11.80\% | 6.82\% | 4.98\% |
| 3/31/1997 | 10.02\% | 6.80\% | 3.22\% |
| 4/2/1997 | 11.65\% | 6.80\% | 4.85\% |
| 4/28/1997 | 11.50\% | 6.81\% | 4.69\% |
| 4/29/1997 | 11.70\% | 6.81\% | 4.89\% |
| 7/17/1997 | 12.00\% | 6.77\% | 5.23\% |
| 12/12/1997 | 11.00\% | 6.60\% | 4.40\% |
| 12/23/1997 | 11.12\% | 6.57\% | 4.55\% |
| 2/2/1998 | 12.75\% | 6.39\% | 6.36\% |
| 3/2/1998 | 11.25\% | 6.29\% | 4.96\% |
| 3/6/1998 | 10.75\% | 6.27\% | 4.48\% |
| 3/20/1998 | 10.50\% | 6.22\% | 4.28\% |
| 4/30/1998 | 12.20\% | 6.12\% | 6.08\% |
| 7/10/1998 | 11.40\% | 5.94\% | 5.46\% |
| 9/15/1998 | 11.90\% | 5.78\% | 6.12\% |
| 11/30/1998 | 12.60\% | 5.58\% | 7.02\% |
| 12/10/1998 | 12.20\% | 5.54\% | 6.66\% |
| 12/17/1998 | 12.10\% | 5.52\% | 6.58\% |
| 2/5/1999 | 10.30\% | 5.38\% | 4.92\% |
| 3/4/1999 | 10.50\% | 5.34\% | 5.16\% |
| 4/6/1999 | 10.94\% | 5.32\% | 5.62\% |
| 7/29/1999 | 10.75\% | 5.52\% | 5.23\% |
| 9/23/1999 | 10.75\% | 5.70\% | 5.05\% |
| 11/17/1999 | 11.10\% | 5.90\% | 5.20\% |
| 1/7/2000 | 11.50\% | 6.05\% | 5.45\% |
| 1/7/2000 | 11.50\% | 6.05\% | 5.45\% |
| 2/17/2000 | 10.60\% | 6.17\% | 4.43\% |
| 3/28/2000 | 11.25\% | 6.20\% | 5.05\% |
| 5/24/2000 | 11.00\% | 6.18\% | 4.82\% |
| 7/18/2000 | 12.20\% | 6.16\% | 6.04\% |
| 9/29/2000 | 11.16\% | 6.03\% | 5.13\% |
| 11/28/2000 | 12.90\% | 5.89\% | 7.01\% |
| 11/30/2000 | 12.10\% | 5.88\% | 6.22\% |
| 1/23/2001 | 11.25\% | 5.79\% | 5.46\% |
| 2/8/2001 | 11.50\% | 5.77\% | 5.73\% |
| 5/8/2001 | 10.75\% | 5.62\% | 5.13\% |
| 6/26/2001 | 11.00\% | 5.62\% | 5.38\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/25/2001 | 11.02\% | 5.60\% | 5.42\% |
| 7/31/2001 | 11.00\% | 5.59\% | 5.41\% |
| 8/31/2001 | 10.50\% | 5.56\% | 4.94\% |
| 9/7/2001 | 10.75\% | 5.55\% | 5.20\% |
| 9/10/2001 | 11.00\% | 5.55\% | 5.45\% |
| 9/20/2001 | 10.00\% | 5.55\% | 4.45\% |
| 10/24/2001 | 10.30\% | 5.54\% | 4.76\% |
| 11/28/2001 | 10.60\% | 5.49\% | 5.11\% |
| 12/3/2001 | 12.88\% | 5.49\% | 7.39\% |
| 12/20/2001 | 12.50\% | 5.50\% | 7.00\% |
| 1/22/2002 | 10.00\% | 5.50\% | 4.50\% |
| 3/27/2002 | 10.10\% | 5.45\% | 4.65\% |
| 4/22/2002 | 11.80\% | 5.45\% | 6.35\% |
| 5/28/2002 | 10.17\% | 5.46\% | 4.71\% |
| 6/10/2002 | 12.00\% | 5.47\% | 6.53\% |

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| 6/18/2002 | 11.16\% | 5.48\% | 5.68\% |
| :---: | :---: | :---: | :---: |
| 6/20/2002 | 11.00\% | 5.48\% | 5.52\% |
| 6/20/2002 | 12.30\% | 5.48\% | 6.82\% |
| 7/15/2002 | 11.00\% | 5.48\% | 5.52\% |
| 9/12/2002 | 12.30\% | 5.45\% | 6.85\% |
| 9/26/2002 | 10.45\% | 5.41\% | 5.04\% |
| 12/4/2002 | 11.55\% | 5.29\% | 6.26\% |
| 12/13/2002 | 11.75\% | 5.27\% | 6.48\% |
| 12/20/2002 | 11.40\% | 5.25\% | 6.15\% |
| 1/8/2003 | 11.10\% | 5.19\% | 5.91\% |
| 1/31/2003 | 12.45\% | 5.13\% | 7.32\% |
| 2/28/2003 | 12.30\% | 5.05\% | 7.25\% |
| 3/6/2003 | 10.75\% | 5.03\% | 5.72\% |
| 3/7/2003 | 9.96\% | 5.02\% | 4.94\% |
| 3/20/2003 | 12.00\% | 4.98\% | 7.02\% |
| 4/3/2003 | 12.00\% | 4.96\% | 7.04\% |
| 4/15/2003 | 11.15\% | 4.94\% | 6.21\% |
| 6/25/2003 | 10.75\% | 4.79\% | 5.96\% |
| 6/26/2003 | 10.75\% | 4.79\% | 5.96\% |
| 7/9/2003 | 9.75\% | 4.79\% | 4.96\% |
| 7/16/2003 | 9.75\% | 4.79\% | 4.96\% |
| 7/25/2003 | 9.50\% | 4.80\% | 4.70\% |
| 8/26/2003 | 10.50\% | 4.83\% | 5.67\% |
| 12/17/2003 | 9.85\% | 4.94\% | 4.91\% |
| 12/17/2003 | 10.70\% | 4.94\% | 5.76\% |
| 12/18/2003 | 11.50\% | 4.94\% | 6.56\% |
| 12/19/2003 | 12.00\% | 4.94\% | 7.06\% |
| 12/19/2003 | 12.00\% | 4.94\% | 7.06\% |
| 12/23/2003 | 10.50\% | 4.94\% | 5.56\% |
| 1/13/2004 | 12.00\% | 4.95\% | 7.05\% |
| 3/2/2004 | 10.75\% | 4.99\% | 5.76\% |
| 3/26/2004 | 10.25\% | 5.02\% | 5.23\% |
| 4/5/2004 | 11.25\% | 5.03\% | 6.22\% |
| 5/18/2004 | 10.50\% | 5.07\% | 5.43\% |
| 5/25/2004 | 10.25\% | 5.08\% | 5.17\% |
| 5/27/2004 | 10.25\% | 5.08\% | 5.17\% |
| 6/2/2004 | 11.22\% | 5.08\% | 6.14\% |
| 6/30/2004 | 10.50\% | 5.10\% | 5.40\% |
| 6/30/2004 | 10.50\% | 5.10\% | 5.40\% |
| 7/16/2004 | 11.60\% | 5.11\% | 6.49\% |
| 8/25/2004 | 10.25\% | 5.10\% | 5.15\% |
| 9/9/2004 | 10.40\% | 5.10\% | 5.30\% |
| 11/9/2004 | 10.50\% | 5.07\% | 5.43\% |
| 11/23/2004 | 11.00\% | 5.06\% | 5.94\% |
| 12/14/2004 | 10.97\% | 5.07\% | 5.90\% |
| 12/21/2004 | 11.25\% | 5.07\% | 6.18\% |
| 12/21/2004 | 11.50\% | 5.07\% | 6.43\% |
| 12/22/2004 | 10.70\% | 5.07\% | 5.63\% |
| 12/22/2004 | 11.50\% | 5.07\% | 6.43\% |
| 12/29/2004 | 9.85\% | 5.07\% | 4.78\% |
| 1/6/2005 | 10.70\% | 5.08\% | 5.62\% |
| 2/18/2005 | 10.30\% | 4.98\% | 5.32\% |
| 2/25/2005 | 10.50\% | 4.96\% | 5.54\% |
| 3/10/2005 | 11.00\% | 4.93\% | 6.07\% |
| 3/24/2005 | 10.30\% | 4.90\% | 5.40\% |
| 4/4/2005 | 10.00\% | 4.88\% | 5.12\% |
| 4/7/2005 | 10.25\% | 4.87\% | 5.38\% |
| 5/18/2005 | 10.25\% | 4.78\% | 5.47\% |
| 5/25/2005 | 10.75\% | 4.76\% | 5.99\% |
| 5/26/2005 | 9.75\% | 4.76\% | 4.99\% |
| 6/1/2005 | 9.75\% | 4.75\% | 5.00\% |
| 7/19/2005 | 11.50\% | 4.64\% | 6.86\% |
| 8/5/2005 | 11.75\% | 4.62\% | 7.13\% |
| 8/15/2005 | 10.13\% | 4.61\% | 5.52\% |
| 9/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 10/4/2005 | 10.75\% | 4.54\% | 6.21\% |
| 12/12/2005 | 11.00\% | 4.55\% | 6.45\% |
| 12/13/2005 | 10.75\% | 4.55\% | 6.20\% |
| 12/21/2005 | 10.29\% | 4.54\% | 5.75\% |
| 12/21/2005 | 10.40\% | 4.54\% | 5.86\% |
| 12/22/2005 | 11.00\% | 4.54\% | 6.46\% |
| 12/22/2005 | 11.15\% | 4.54\% | 6.61\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 12/28/2005 | 10.00\% | 4.54\% | 5.46\% |
| 1/5/2006 | 11.00\% | 4.53\% | 6.47\% |
| 1/27/2006 | 9.75\% | 4.52\% | 5.23\% |
| 3/3/2006 | 10.39\% | 4.53\% | 5.86\% |
| 4/17/2006 | 10.20\% | 4.61\% | 5.59\% |
| 4/26/2006 | 10.60\% | 4.64\% | 5.96\% |
| 5/17/2006 | 11.60\% | 4.69\% | 6.91\% |
| 6/6/2006 | 10.00\% | 4.74\% | 5.26\% |
| 6/27/2006 | 10.75\% | 4.80\% | 5.95\% |
| 7/6/2006 | 10.20\% | 4.83\% | 5.37\% |

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| 7/24/2006 | 9.60\% | 4.86\% | 4.74\% |
| :---: | :---: | :---: | :---: |
| 7/26/2006 | 10.50\% | 4.86\% | 5.64\% |
| 7/28/2006 | 10.05\% | 4.86\% | 5.19\% |
| 8/23/2006 | 9.55\% | 4.89\% | 4.66\% |
| 9/1/2006 | 10.54\% | 4.90\% | 5.64\% |
| 9/14/2006 | 10.00\% | 4.91\% | 5.09\% |
| 10/6/2006 | 9.67\% | 4.92\% | 4.75\% |
| 11/21/2006 | 10.08\% | 4.95\% | 5.13\% |
| 11/21/2006 | 10.08\% | 4.95\% | 5.13\% |
| 11/21/2006 | 10.12\% | 4.95\% | 5.17\% |
| 12/1/2006 | 10.25\% | 4.95\% | 5.30\% |
| 12/1/2006 | 10.50\% | 4.95\% | 5.55\% |
| 12/7/2006 | 10.75\% | 4.95\% | 5.80\% |
| 12/21/2006 | 10.90\% | 4.95\% | 5.95\% |
| 12/21/2006 | 11.25\% | 4.95\% | 6.30\% |
| 12/22/2006 | 10.25\% | 4.95\% | 5.30\% |
| 1/5/2007 | 10.00\% | 4.95\% | 5.05\% |
| 1/11/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/11/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/11/2007 | 10.90\% | 4.95\% | 5.95\% |
| 1/12/2007 | 10.10\% | 4.95\% | 5.15\% |
| 1/13/2007 | 10.40\% | 4.95\% | 5.45\% |
| 1/19/2007 | 10.80\% | 4.94\% | 5.86\% |
| 3/21/2007 | 11.35\% | 4.87\% | 6.48\% |
| 3/22/2007 | 9.75\% | 4.86\% | 4.89\% |
| 5/15/2007 | 10.00\% | 4.81\% | 5.19\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.44\% |
| 5/17/2007 | 10.25\% | 4.81\% | 5.44\% |
| 5/22/2007 | 10.20\% | 4.80\% | 5.40\% |
| 5/22/2007 | 10.50\% | 4.80\% | 5.70\% |
| 5/23/2007 | 10.70\% | 4.80\% | 5.90\% |
| 5/25/2007 | 9.67\% | 4.80\% | 4.87\% |
| 6/15/2007 | 9.90\% | 4.82\% | 5.08\% |
| 6/21/2007 | 10.20\% | 4.83\% | 5.37\% |
| 6/22/2007 | 10.50\% | 4.83\% | 5.67\% |
| 6/28/2007 | 10.75\% | 4.84\% | 5.91\% |
| 7/12/2007 | 9.67\% | 4.86\% | 4.81\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.13\% |
| 7/19/2007 | 10.00\% | 4.87\% | 5.13\% |
| 8/15/2007 | 10.40\% | 4.88\% | 5.52\% |
| 10/9/2007 | 10.00\% | 4.91\% | 5.09\% |
| 10/17/2007 | 9.10\% | 4.91\% | 4.19\% |
| 10/31/2007 | 9.96\% | 4.90\% | 5.06\% |
| 11/29/2007 | 10.90\% | 4.87\% | 6.03\% |
| 12/6/2007 | 10.75\% | 4.86\% | 5.89\% |
| 12/13/2007 | 9.96\% | 4.86\% | 5.10\% |
| 12/14/2007 | 10.70\% | 4.86\% | 5.84\% |
| 12/14/2007 | 10.80\% | 4.86\% | 5.94\% |
| 12/19/2007 | 10.20\% | 4.86\% | 5.34\% |
| 12/20/2007 | 10.20\% | 4.85\% | 5.35\% |
| 12/20/2007 | 11.00\% | 4.85\% | 6.15\% |
| 12/28/2007 | 10.25\% | 4.85\% | 5.40\% |
| 12/31/2007 | 11.25\% | 4.85\% | 6.40\% |
| 1/8/2008 | 10.75\% | 4.83\% | 5.92\% |
| 1/17/2008 | 10.75\% | 4.81\% | 5.94\% |
| 1/28/2008 | 9.40\% | 4.80\% | 4.60\% |
| 1/30/2008 | 10.00\% | 4.79\% | 5.21\% |
| 1/31/2008 | 10.71\% | 4.79\% | 5.92\% |
| 2/29/2008 | 10.25\% | 4.75\% | 5.50\% |
| 3/12/2008 | 10.25\% | 4.73\% | 5.52\% |
| 3/25/2008 | 9.10\% | 4.68\% | 4.42\% |
| 4/22/2008 | 10.25\% | 4.60\% | 5.65\% |
| 4/24/2008 | 10.10\% | 4.60\% | 5.50\% |
| 5/1/2008 | 10.70\% | 4.59\% | 6.11\% |
| 5/19/2008 | 11.00\% | 4.56\% | 6.44\% |
| 5/27/2008 | 10.00\% | 4.55\% | 5.45\% |
| 6/10/2008 | 10.70\% | 4.54\% | 6.16\% |
| 6/27/2008 | 10.50\% | 4.54\% | 5.96\% |
| 6/27/2008 | 11.04\% | 4.54\% | 6.50\% |
| 7/10/2008 | 10.43\% | 4.52\% | 5.91\% |
| 7/16/2008 | 9.40\% | 4.52\% | 4.88\% |
| 7/30/2008 | 10.80\% | 4.51\% | 6.29\% |
| 7/31/2008 | 10.70\% | 4.51\% | 6.19\% |
| 8/11/2008 | 10.25\% | 4.51\% | 5.74\% |
| 8/26/2008 | 10.18\% | 4.50\% | 5.68\% |
| 9/10/2008 | 10.30\% | 4.50\% | 5.80\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.17\% |
| 9/24/2008 | 10.65\% | 4.48\% | 6.17\% |
| 9/30/2008 | 10.20\% | 4.48\% | 5.72\% |
| 10/8/2008 | 10.15\% | 4.46\% | 5.69\% |
| 11/13/2008 | 10.55\% | 4.45\% | 6.10\% |
| 11/17/2008 | 10.20\% | 4.44\% | 5.76\% |

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| 12/1/2008 | 10.25\% | 4.40\% | 5.85\% |
| :---: | :---: | :---: | :---: |
| 12/23/2008 | 11.00\% | 4.27\% | 6.73\% |
| 12/29/2008 | 10.00\% | 4.24\% | 5.76\% |
| 12/29/2008 | 10.20\% | 4.24\% | 5.96\% |
| 12/31/2008 | 10.75\% | 4.22\% | 6.53\% |
| 1/14/2009 | 10.50\% | 4.15\% | 6.35\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.38\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.38\% |
| 1/21/2009 | 10.50\% | 4.12\% | 6.38\% |
| 1/27/2009 | 10.76\% | 4.09\% | 6.67\% |
| 1/30/2009 | 10.50\% | 4.08\% | 6.42\% |
| 2/4/2009 | 8.75\% | 4.06\% | 4.69\% |
| 3/4/2009 | 10.50\% | 3.96\% | 6.54\% |
| 3/12/2009 | 11.50\% | 3.93\% | 7.57\% |
| 4/2/2009 | 11.10\% | 3.85\% | 7.25\% |
| 4/21/2009 | 10.61\% | 3.80\% | 6.81\% |
| 4/24/2009 | 10.00\% | 3.79\% | 6.21\% |
| 4/30/2009 | 11.25\% | 3.78\% | 7.47\% |
| 5/4/2009 | 10.74\% | 3.77\% | 6.97\% |
| 5/20/2009 | 10.25\% | 3.74\% | 6.51\% |
| 5/28/2009 | 10.50\% | 3.74\% | 6.76\% |
| 6/22/2009 | 10.00\% | 3.76\% | 6.24\% |
| 6/24/2009 | 10.80\% | 3.77\% | 7.03\% |
| 7/8/2009 | 10.63\% | 3.77\% | 6.86\% |
| 7/17/2009 | 10.50\% | 3.78\% | 6.72\% |
| 8/31/2009 | 10.25\% | 3.82\% | 6.43\% |
| 10/14/2009 | 10.70\% | 4.01\% | 6.69\% |
| 10/23/2009 | 10.88\% | 4.06\% | 6.82\% |
| 11/2/2009 | 10.70\% | 4.09\% | 6.61\% |
| 11/3/2009 | 10.70\% | 4.10\% | 6.60\% |
| 11/24/2009 | 10.25\% | 4.15\% | 6.10\% |
| 11/25/2009 | 10.75\% | 4.16\% | 6.59\% |
| 11/30/2009 | 10.35\% | 4.17\% | 6.18\% |
| 12/3/2009 | 10.50\% | 4.18\% | 6.32\% |
| 12/7/2009 | 10.70\% | 4.18\% | 6.52\% |
| 12/16/2009 | 10.90\% | 4.21\% | 6.69\% |
| 12/16/2009 | 11.00\% | 4.21\% | 6.79\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.18\% |
| 12/18/2009 | 10.40\% | 4.22\% | 6.18\% |
| 12/22/2009 | 10.20\% | 4.23\% | 5.97\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.17\% |
| 12/22/2009 | 10.40\% | 4.23\% | 6.17\% |
| 12/30/2009 | 10.00\% | 4.26\% | 5.74\% |
| 1/4/2010 | 10.80\% | 4.28\% | 6.52\% |
| 1/11/2010 | 11.00\% | 4.30\% | 6.70\% |
| 1/26/2010 | 10.13\% | 4.35\% | 5.78\% |
| 1/27/2010 | 10.40\% | 4.35\% | 6.05\% |
| 1/27/2010 | 10.40\% | 4.35\% | 6.05\% |
| 1/27/2010 | 10.70\% | 4.35\% | 6.35\% |
| 2/9/2010 | 9.80\% | 4.38\% | 5.42\% |
| 2/18/2010 | 10.60\% | 4.40\% | 6.20\% |
| 2/24/2010 | 10.18\% | 4.41\% | 5.77\% |
| 3/2/2010 | 9.63\% | 4.41\% | 5.22\% |
| 3/4/2010 | 10.50\% | 4.41\% | 6.09\% |
| 3/5/2010 | 10.50\% | 4.41\% | 6.09\% |
| 3/11/2010 | 11.90\% | 4.42\% | 7.48\% |
| 3/17/2010 | 10.00\% | 4.41\% | 5.59\% |
| 3/25/2010 | 10.15\% | 4.42\% | 5.73\% |
| 4/2/2010 | 10.10\% | 4.43\% | 5.67\% |
| 4/27/2010 | 10.00\% | 4.46\% | 5.54\% |
| 4/29/2010 | 9.90\% | 4.46\% | 5.44\% |
| 4/29/2010 | 10.06\% | 4.46\% | 5.60\% |
| 4/29/2010 | 10.26\% | 4.46\% | 5.80\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.85\% |
| 5/12/2010 | 10.30\% | 4.45\% | 5.85\% |
| 5/28/2010 | 10.10\% | 4.44\% | 5.66\% |
| 5/28/2010 | 10.20\% | 4.44\% | 5.76\% |
| 6/7/2010 | 10.30\% | 4.44\% | 5.86\% |
| 6/16/2010 | 10.00\% | 4.44\% | 5.56\% |
| 6/28/2010 | 9.67\% | 4.43\% | 5.24\% |
| 6/28/2010 | 10.50\% | 4.43\% | 6.07\% |
| 6/30/2010 | 9.40\% | 4.43\% | 4.97\% |
| 7/1/2010 | 10.25\% | 4.43\% | 5.82\% |
| 7/15/2010 | 10.53\% | 4.43\% | 6.10\% |
| 7/15/2010 | 10.70\% | 4.43\% | 6.27\% |
| 7/30/2010 | 10.70\% | 4.41\% | 6.29\% |
| 8/4/2010 | 10.50\% | 4.41\% | 6.09\% |
| 8/6/2010 | 9.83\% | 4.41\% | 5.42\% |
| 8/25/2010 | 9.90\% | 4.37\% | 5.53\% |
| 9/3/2010 | 10.60\% | 4.35\% | 6.25\% |
| 9/14/2010 | 10.70\% | 4.33\% | 6.37\% |
| 9/16/2010 | 10.00\% | 4.33\% | 5.67\% |
| 9/16/2010 | 10.00\% | 4.33\% | 5.67\% |

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| 9/30/2010 | 9.75\% | 4.29\% | 5.46\% |
| :---: | :---: | :---: | :---: |
| 10/14/2010 | 10.35\% | 4.24\% | 6.11\% |
| 10/28/2010 | 10.70\% | 4.21\% | 6.49\% |
| 11/2/2010 | 10.38\% | 4.20\% | 6.18\% |
| 11/4/2010 | 10.70\% | 4.20\% | 6.50\% |
| 11/19/2010 | 10.20\% | 4.18\% | 6.02\% |
| 11/22/2010 | 10.00\% | 4.18\% | 5.82\% |
| 12/1/2010 | 10.13\% | 4.16\% | 5.97\% |
| 12/6/2010 | 9.86\% | 4.15\% | 5.71\% |
| 12/9/2010 | 10.25\% | 4.15\% | 6.10\% |
| 12/13/2010 | 10.70\% | 4.15\% | 6.55\% |
| 12/14/2010 | 10.13\% | 4.15\% | 5.98\% |
| 12/15/2010 | 10.44\% | 4.15\% | 6.29\% |
| 12/17/2010 | 10.00\% | 4.15\% | 5.85\% |
| 12/20/2010 | 10.60\% | 4.15\% | 6.45\% |
| 12/21/2010 | 10.30\% | 4.14\% | 6.16\% |
| 12/27/2010 | 9.90\% | 4.14\% | 5.76\% |
| 12/29/2010 | 11.15\% | 4.14\% | 7.01\% |
| 1/5/2011 | 10.15\% | 4.13\% | 6.02\% |
| 1/12/2011 | 10.30\% | 4.12\% | 6.18\% |
| 1/13/2011 | 10.30\% | 4.12\% | 6.18\% |
| 1/18/2011 | 10.00\% | 4.12\% | 5.88\% |
| 1/20/2011 | 9.30\% | 4.12\% | 5.18\% |
| 1/20/2011 | 10.13\% | 4.12\% | 6.01\% |
| 1/31/2011 | 9.60\% | 4.12\% | 5.48\% |
| 2/3/2011 | 10.00\% | 4.12\% | 5.88\% |
| 2/25/2011 | 10.00\% | 4.14\% | 5.86\% |
| 3/25/2011 | 9.80\% | 4.18\% | 5.62\% |
| 3/30/2011 | 10.00\% | 4.18\% | 5.82\% |
| 4/12/2011 | 10.00\% | 4.21\% | 5.79\% |
| 4/25/2011 | 10.74\% | 4.23\% | 6.51\% |
| 4/26/2011 | 9.67\% | 4.23\% | 5.44\% |
| 4/27/2011 | 10.40\% | 4.24\% | 6.16\% |
| 5/4/2011 | 10.00\% | 4.24\% | 5.76\% |
| 5/4/2011 | 10.00\% | 4.24\% | 5.76\% |
| 5/24/2011 | 10.50\% | 4.27\% | 6.23\% |
| 6/8/2011 | 10.75\% | 4.30\% | 6.45\% |
| 6/16/2011 | 9.20\% | 4.32\% | 4.88\% |
| 6/17/2011 | 9.95\% | 4.32\% | 5.63\% |
| 7/13/2011 | 10.20\% | 4.36\% | 5.84\% |
| 8/1/2011 | 9.20\% | 4.39\% | 4.81\% |
| 8/8/2011 | 10.00\% | 4.38\% | 5.62\% |
| 8/11/2011 | 10.00\% | 4.38\% | 5.62\% |
| 8/12/2011 | 10.35\% | 4.37\% | 5.98\% |
| 8/19/2011 | 10.25\% | 4.36\% | 5.89\% |
| 9/2/2011 | 12.88\% | 4.32\% | 8.56\% |
| 9/22/2011 | 10.00\% | 4.24\% | 5.76\% |
| 10/12/2011 | 10.30\% | 4.14\% | 6.16\% |
| 10/20/2011 | 10.50\% | 4.10\% | 6.40\% |
| 11/30/2011 | 10.90\% | 3.87\% | 7.03\% |
| 11/30/2011 | 10.90\% | 3.87\% | 7.03\% |
| 12/14/2011 | 10.00\% | 3.80\% | 6.20\% |
| 12/14/2011 | 10.30\% | 3.80\% | 6.50\% |
| 12/20/2011 | 10.20\% | 3.76\% | 6.44\% |
| 12/21/2011 | 10.20\% | 3.76\% | 6.44\% |
| 12/22/2011 | 9.90\% | 3.75\% | 6.15\% |
| 12/22/2011 | 10.40\% | 3.75\% | 6.65\% |
| 12/23/2011 | 10.19\% | 3.74\% | 6.45\% |
| 1/25/2012 | 10.50\% | 3.57\% | 6.93\% |
| 1/27/2012 | 10.50\% | 3.56\% | 6.94\% |
| 2/15/2012 | 10.20\% | 3.47\% | 6.73\% |
| 2/23/2012 | 9.90\% | 3.44\% | 6.46\% |
| 2/27/2012 | 10.25\% | 3.43\% | 6.82\% |
| 2/29/2012 | 10.40\% | 3.41\% | 6.99\% |
| 3/29/2012 | 10.37\% | 3.32\% | 7.05\% |
| 4/4/2012 | 10.00\% | 3.30\% | 6.70\% |
| 4/26/2012 | 10.00\% | 3.21\% | 6.79\% |
| 5/2/2012 | 10.00\% | 3.18\% | 6.82\% |
| 5/7/2012 | 9.80\% | 3.17\% | 6.63\% |
| 5/15/2012 | 10.00\% | 3.14\% | 6.86\% |
| 5/29/2012 | 10.05\% | 3.11\% | 6.94\% |
| 6/7/2012 | 10.30\% | 3.08\% | 7.22\% |
| 6/14/2012 | 9.40\% | 3.06\% | 6.34\% |
| 6/15/2012 | 10.40\% | 3.06\% | 7.34\% |
| 6/18/2012 | 9.60\% | 3.06\% | 6.54\% |
| 6/19/2012 | 9.25\% | 3.05\% | 6.20\% |
| 6/26/2012 | 10.10\% | 3.04\% | 7.06\% |
| 6/29/2012 | 10.00\% | 3.04\% | 6.96\% |
| 7/9/2012 | 10.20\% | 3.03\% | 7.17\% |
| 7/16/2012 | 9.80\% | 3.02\% | 6.78\% |
| 7/20/2012 | 9.31\% | 3.01\% | 6.30\% |
| 7/20/2012 | 9.81\% | 3.01\% | 6.80\% |
| 9/13/2012 | 9.80\% | 2.94\% | 6.86\% |

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| 9/19/2012 | 9.80\% | 2.94\% | 6.86\% |
| :---: | :---: | :---: | :---: |
| 9/19/2012 | 10.05\% | 2.94\% | 7.11\% |
| 9/26/2012 | 9.50\% | 2.94\% | 6.56\% |
| 10/12/2012 | 9.60\% | 2.93\% | 6.67\% |
| 10/23/2012 | 9.75\% | 2.93\% | 6.82\% |
| 10/24/2012 | 10.30\% | 2.93\% | 7.37\% |
| 11/9/2012 | 10.30\% | 2.92\% | 7.38\% |
| 11/28/2012 | 10.40\% | 2.90\% | 7.50\% |
| 11/29/2012 | 9.75\% | 2.89\% | 6.86\% |
| 11/29/2012 | 9.88\% | 2.89\% | 6.99\% |
| 12/5/2012 | 9.71\% | 2.89\% | 6.82\% |
| 12/5/2012 | 10.40\% | 2.89\% | 7.51\% |
| 12/12/2012 | 9.80\% | 2.88\% | 6.92\% |
| 12/13/2012 | 9.50\% | 2.88\% | 6.62\% |
| 12/13/2012 | 10.50\% | 2.88\% | 7.62\% |
| 12/14/2012 | 10.40\% | 2.88\% | 7.52\% |
| 12/19/2012 | 9.71\% | 2.87\% | 6.84\% |
| 12/19/2012 | 10.25\% | 2.87\% | 7.38\% |
| 12/20/2012 | 9.50\% | 2.87\% | 6.63\% |
| 12/20/2012 | 9.80\% | 2.87\% | 6.93\% |
| 12/20/2012 | 10.25\% | 2.87\% | 7.38\% |
| 12/20/2012 | 10.25\% | 2.87\% | 7.38\% |
| 12/20/2012 | 10.30\% | 2.87\% | 7.43\% |
| 12/20/2012 | 10.40\% | 2.87\% | 7.53\% |
| 12/20/2012 | 10.45\% | 2.87\% | 7.58\% |
| 12/21/2012 | 10.20\% | 2.87\% | 7.33\% |
| 12/26/2012 | 9.80\% | 2.86\% | 6.94\% |
| 1/9/2013 | 9.70\% | 2.85\% | 6.85\% |
| 1/9/2013 | 9.70\% | 2.85\% | 6.85\% |
| 1/9/2013 | 9.70\% | 2.85\% | 6.85\% |
| 1/16/2013 | 9.60\% | 2.84\% | 6.76\% |
| 1/16/2013 | 9.60\% | 2.84\% | 6.76\% |
| 2/13/2013 | 10.20\% | 2.84\% | 7.36\% |
| 2/22/2013 | 9.75\% | 2.85\% | 6.90\% |
| 2/27/2013 | 10.00\% | 2.86\% | 7.14\% |
| 3/14/2013 | 9.30\% | 2.88\% | 6.42\% |
| 3/27/2013 | 9.80\% | 2.90\% | 6.90\% |
| 5/1/2013 | 9.84\% | 2.94\% | 6.90\% |
| 5/15/2013 | 10.30\% | 2.96\% | 7.34\% |
| 5/30/2013 | 10.20\% | 2.98\% | 7.22\% |
| 5/31/2013 | 9.00\% | 2.98\% | 6.02\% |
| 6/11/2013 | 10.00\% | 3.00\% | 7.00\% |
| 6/21/2013 | 9.75\% | 3.02\% | 6.73\% |
| 6/25/2013 | 9.80\% | 3.03\% | 6.77\% |
| 7/12/2013 | 9.36\% | 3.07\% | 6.29\% |
| 8/8/2013 | 9.83\% | 3.14\% | 6.69\% |
| 8/14/2013 | 9.15\% | 3.16\% | 5.99\% |
| 9/11/2013 | 10.20\% | 3.26\% | 6.94\% |
| 9/11/2013 | 10.25\% | 3.26\% | 6.99\% |
| 9/24/2013 | 10.20\% | 3.31\% | 6.89\% |
| 10/3/2013 | 9.65\% | 3.33\% | 6.32\% |
| 11/6/2013 | 10.20\% | 3.41\% | 6.79\% |
| 11/21/2013 | 10.00\% | 3.44\% | 6.56\% |
| 11/26/2013 | 10.00\% | 3.45\% | 6.55\% |
| 12/3/2013 | 10.25\% | 3.47\% | 6.78\% |
| 12/4/2013 | 9.50\% | 3.47\% | 6.03\% |
| 12/5/2013 | 10.20\% | 3.48\% | 6.72\% |
| 12/9/2013 | 8.72\% | 3.48\% | 5.24\% |
| 12/9/2013 | 9.75\% | 3.48\% | 6.27\% |
| 12/13/2013 | 9.75\% | 3.50\% | 6.25\% |
| 12/16/2013 | 9.95\% | 3.50\% | 6.45\% |
| 12/16/2013 | 9.95\% | 3.50\% | 6.45\% |
| 12/16/2013 | 10.12\% | 3.50\% | 6.62\% |
| 12/17/2013 | 9.50\% | 3.51\% | 5.99\% |
| 12/17/2013 | 10.95\% | 3.51\% | 7.44\% |
| 12/18/2013 | 8.72\% | 3.51\% | 5.21\% |
| 12/18/2013 | 9.80\% | 3.51\% | 6.29\% |
| 12/19/2013 | 10.15\% | 3.51\% | 6.64\% |
| 12/30/2013 | 9.50\% | 3.54\% | 5.96\% |
| 2/20/2014 | 9.20\% | 3.68\% | 5.52\% |
| 2/26/2014 | 9.75\% | 3.69\% | 6.06\% |
| 3/17/2014 | 9.55\% | 3.72\% | 5.83\% |
| 3/26/2014 | 9.40\% | 3.73\% | 5.67\% |
| 3/26/2014 | 9.96\% | 3.73\% | 6.23\% |
| 4/2/2014 | 9.70\% | 3.73\% | 5.97\% |
| 5/16/2014 | 9.80\% | 3.70\% | 6.10\% |
| 5/30/2014 | 9.70\% | 3.68\% | 6.02\% |
| 6/6/2014 | 10.40\% | 3.67\% | 6.73\% |
| 6/30/2014 | 9.55\% | 3.64\% | 5.91\% |
| 7/2/2014 | 9.62\% | 3.64\% | 5.98\% |
| 7/10/2014 | 9.95\% | 3.63\% | 6.32\% |
| 7/23/2014 | 9.75\% | 3.61\% | 6.14\% |
| 7/29/2014 | 9.45\% | 3.60\% | 5.85\% |

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|  |  |  |  |
| ---: | :---: | :---: | :---: |
| $7 / 31 / 2014$ | $9.90 \%$ | $3.60 \%$ | $6.30 \%$ |
| $8 / 20 / 2014$ | $9.75 \%$ | $3.57 \%$ | $6.18 \%$ |
| $8 / 25 / 2014$ | $9.60 \%$ | $3.56 \%$ | $6.04 \%$ |
| $8 / 29 / 2014$ | $9.80 \%$ | $3.54 \%$ | $6.26 \%$ |
| $9 / 11 / 2014$ | $9.60 \%$ | $3.51 \%$ | $6.09 \%$ |
| $9 / 15 / 2014$ | $10.25 \%$ | $3.51 \%$ | $6.74 \%$ |
| $10 / 9 / 2014$ | $9.80 \%$ | $3.45 \%$ | $6.35 \%$ |
| $11 / 6 / 2014$ | $9.56 \%$ | $3.37 \%$ | $6.19 \%$ |
| $11 / 6 / 2014$ | $10.20 \%$ | $3.37 \%$ | $6.83 \%$ |
| $11 / 14 / 2014$ | $10.20 \%$ | $3.35 \%$ | $6.85 \%$ |
| $11 / 26 / 2014$ | $9.70 \%$ | $3.33 \%$ | $6.37 \%$ |
| $11 / 26 / 2014$ | $10.20 \%$ | $3.33 \%$ | $6.87 \%$ |
| $12 / 4 / 2014$ | $9.68 \%$ | $3.31 \%$ | $6.37 \%$ |
| $12 / 10 / 2014$ | $9.25 \%$ | $3.29 \%$ | $5.96 \%$ |
| $12 / 10 / 2014$ | $9.25 \%$ | $3.29 \%$ | $5.96 \%$ |
| $12 / 11 / 2014$ | $10.07 \%$ | $3.29 \%$ | $6.78 \%$ |
| $12 / 12 / 2014$ | $10.20 \%$ | $3.28 \%$ | $6.92 \%$ |
| $12 / 17 / 2014$ | $9.17 \%$ | $3.27 \%$ | $5.90 \%$ |
| $12 / 18 / 2014$ | $9.83 \%$ | $3.26 \%$ | $6.57 \%$ |
| $1 / 23 / 2015$ | $9.50 \%$ | $3.14 \%$ | $6.36 \%$ |
| $2 / 24 / 2015$ | $9.83 \%$ | $3.04 \%$ | $6.79 \%$ |
| $3 / 18 / 2015$ | $9.75 \%$ | $2.98 \%$ | $6.77 \%$ |
| $3 / 25 / 2015$ | $9.50 \%$ | $2.96 \%$ | $6.54 \%$ |
| $3 / 26 / 2015$ | $9.72 \%$ | $2.95 \%$ | $6.77 \%$ |
| $4 / 23 / 2015$ | $10.20 \%$ | $2.87 \%$ | $7.33 \%$ |
| $4 / 29 / 2015$ | $9.53 \%$ | $2.86 \%$ | $6.67 \%$ |
| $5 / 1 / 2015$ | $9.60 \%$ | $2.85 \%$ | $6.75 \%$ |
| $5 / 26 / 2015$ | $9.75 \%$ | $2.83 \%$ | $6.92 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.82 \%$ | $6.18 \%$ |
| $6 / 17 / 2015$ | $9.00 \%$ | $2.82 \%$ | $6.18 \%$ |
| $9 / 2 / 2015$ | $9.50 \%$ | $2.79 \%$ | $6.71 \%$ |
| $9 / 10 / 2015$ | $9.30 \%$ | $2.79 \%$ | $6.51 \%$ |
| $10 / 15 / 2015$ | $9.00 \%$ | $2.81 \%$ | $6.19 \%$ |
| $11 / 19 / 2015$ | $10.00 \%$ | $2.88 \%$ | $7.12 \%$ |
| $11 / 19 / 2015$ | $10.30 \%$ | $2.88 \%$ | $7.42 \%$ |
| $12 / 3 / 2015$ | $10.00 \%$ | $2.90 \%$ | $7.10 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 9 / 2015$ | $9.14 \%$ | $2.90 \%$ | $6.24 \%$ |
| $12 / 11 / 2015$ | $10.30 \%$ | $2.90 \%$ | $7.40 \%$ |
| $12 / 15 / 2015$ | $9.60 \%$ | $2.91 \%$ | $6.69 \%$ |
| $12 / 17 / 2015$ | $9.70 \%$ | $2.91 \%$ | $6.79 \%$ |
| $12 / 18 / 2015$ | $9.50 \%$ | $2.91 \%$ | $6.59 \%$ |
| $12 / 30 / 2015$ | $9.50 \%$ | $2.93 \%$ | $6.57 \%$ |
| $1 / 6 / 2016$ | $9.50 \%$ | $2.94 \%$ | $6.56 \%$ |
| $2 / 23 / 2016$ | $9.75 \%$ | $2.94 \%$ | $6.81 \%$ |
| $3 / 16 / 2016$ | $9.85 \%$ | $2.91 \%$ | $6.94 \%$ |
| $4 / 29 / 2016$ | $9.80 \%$ | $2.83 \%$ | $6.97 \%$ |
| $6 / 3 / 2016$ | $9.75 \%$ | $2.80 \%$ | $6.95 \%$ |
| $6 / 8 / 2016$ | $9.48 \%$ | $2.80 \%$ | $6.68 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.79 \%$ | $6.21 \%$ |
| $6 / 15 / 2016$ | $9.00 \%$ | $2.79 \%$ | $6.21 \%$ |
|  |  |  |  |
|  |  | Count: |  |

Business Risk Profile (scale from 1 to 6)

| "Excellent" Business Risk (score = 1) | 79 |
| ---: | :---: |
| Total | 107 |
| \% Total | $73.83 \%$ |


| U.S. Regulated Electric Utilities Company | Designation | Business Risk Profile | Corp. Credit Rating |
| :---: | :---: | :---: | :---: |
| AEP Texas Central Co. | Electric | 1 | BBB |
| AEP Texas North Co. | Electric | 2 | BBB |
| Alabama Power Co. | Electric | 1 | A |
| Ameren Illinois Co. | Electric | 2 | BBB+ |
| Appalachian Power Co. | Electric | 1 | BBB |
| Arizona Public Service Co. | Electric | 1 | A- |
| Atlantic City Electric Co. | Electric | 1 | BBB+ |
| Baltimore Gas \& Electric Co. | Electric | 1 | A- |
| Black Hills Power Inc. | Electric | 1 | BBB |
| CenterPoint Energy Houston Electric LLC | Electric | 1 | A- |
| Central Hudson Gas \& Electric Corp. | Electric | 1 | A |
| Central Maine Power Co. | Electric | 1 | BBB+ |
| Cleco Power LLC | Electric | 2 | BBB+ |
| Cleveland Electric Illuminating Co. | Electric | 1 | BBB- |
| Commonwealth Edison Co. | Electric | 2 | BBB |
| Connecticut Light \& Power Co. | Electric | 1 | A- |
| Consolidated Edison Co. of New York Inc. | Electric | 1 | A- |
| Consumers Energy Co. | Electric | 1 | BBB+ |
| Dayton Power \& Light Co. | Electric | 2 | BB |
| Delmarva Power \& Light Co. | Electric | 1 | BBB+ |
| DTE Electric Co. | Electric | 1 | BBB+ |
| Duke Energy Carolinas LLC | Electric | 1 | BBB+ |
| Duke Energy Florida Inc. | Electric | 1 | BBB+ |
| Duke Energy Indiana Inc. | Electric | 1 | BBB+ |
| Duke Energy Kentucky Inc. | Electric | 2 | BBB+ |
| Duke Energy Ohio Inc. | Electric | 2 | BBB+ |
| Duke Energy Progress Inc. | Electric | 1 | BBB+ |
| Duquesne Light Co. | Electric | 1 | BBB |
| El Paso Electric Co. | Electric | 2 | BBB |
| Empire District Electric Co. | Electric | 2 | BBB |
| Entergy Arkansas Inc. | Electric | 1 | BBB |
| Entergy Gulf States Louisiana LLC | Electric | 1 | BBB |
| Entergy Louisiana LLC | Electric | 1 | BBB |
| Entergy Mississippi Inc. | Electric | 1 | BBB |
| Entergy New Orleans Inc. | Electric | 2 | BBB |
| Entergy Texas Inc. | Electric | 2 | BBB |
| Florida Power \& Light Co. | Electric | 1 | A- |
| Georgia Power Co. | Electric | 1 | A |
| Green Mountain Power Corp. | Electric | 1 | BBB+ |
| Gulf Power Co. | Electric | 1 | A |
| Hawaiian Electric Co. Inc. | Electric | 2 | BBB- |
| Idaho Power Co. | Electric | 2 | BBB |
| Indiana Michigan Power Co. | Electric | 1 | BBB |
| Indianapolis Power \& Light Co. | Electric | 1 | BB+ |
| Interstate Power \& Light Co. | Electric | 1 | A- |
| Jersey Central Power \& Light Co. | Electric | 2 | BBB- |
| Kansas City Power \& Light Co. | Electric | 1 | BBB+ |
| Kansas Gas \& Electric Co. | Electric | 1 | BBB+ |
| KCP\&L Greater Missouri Operations Co. | Electric | 2 | BBB+ |


| Kentucky Power Co. | Electric | 2 | BBB |
| :---: | :---: | :---: | :---: |
| Kentucky Utilities Co. | Electric | 1 | BBB |
| LG\&E and KU Energy LLC | Electric | 1 | BBB |
| Louisville Gas \& Electric Co. | Electric | 1 | BBB |
| Madison Gas \& Electric Co. | Electric | 1 | AA- |
| Metropolitan Edison Co. | Electric | 1 | BBB- |
| MidAmerican Energy Co. | Electric | 1 | A- |
| Mississippi Power Co. | Electric | 2 | A |
| Monongahela Power Co. | Electric | 2 | BBB- |
| Nevada Power Co. | Electric | 2 | BBB+ |
| New York State Electric \& Gas Corp. | Electric | 1 | BBB+ |
| Niagara Mohawk Power Corp. | Electric | 1 | A- |
| Northern Indiana Public Service Co. | Electric | 2 | BBB- |
| Northern States Power Co. | Electric | 1 | A- |
| Northern States Power Wisconsin | Electric | 1 | A- |
| NSTAR Electric Co. | Electric | 1 | A- |
| Ohio Edison Co. | Electric | 1 | BBB- |
| Ohio Power Co. | Electric | 1 | BBB |
| Oklahoma Gas \& Electric Co. | Electric | 1 | A- |
| Oncor Electric Delivery Co. LLC | Electric | 1 | BBB+ |
| Orange and Rockland Utilities Inc. | Electric | 1 | A- |
| Otter Tail Power Co. | Electric | 2 | BBB |
| Pacific Gas \& Electric Co. | Electric | 1 | BBB |
| PacifiCorp | Electric | 1 | A- |
| PECO Energy Co. | Electric | 1 | BBB |
| Pennsylvania Electric Co. | Electric | 1 | BBB- |
| Pennsylvania Power Co. | Electric | 1 | BBB- |
| Portland General Electric Co. | Electric | 2 | BBB |
| Potomac Edison Co. | Electric | 2 | BBB- |
| Potomac Electric Power Co. | Electric | 1 | BBB+ |
| PPL Electric Utilities Corp. | Electric | 1 | BBB |
| Public Service Co. of Colorado | Electric | 1 | A- |
| Public Service Co. of New Hampshire | Electric | 1 | A- |
| Public Service Co. of New Mexico | Electric | 2 | BBB |
| Public Service Co. of Oklahoma | Electric | 2 | BBB |
| Public Service Electric \& Gas Co. | Electric | 1 | BBB+ |
| Puget Sound Energy Inc. | Electric | 2 | BBB |
| Rochester Gas \& Electric Corp. | Electric | 1 | BBB+ |
| San Diego Gas \& Electric Co. | Electric | 1 | A |
| Sierra Pacific Power Co. | Electric | 2 | BBB+ |
| South Carolina Electric \& Gas Co. | Electric | 1 | BBB+ |
| Southern California Edison Co. | Electric | 1 | BBB + |
| Southern Indiana Gas \& Electric Co. | Electric | 1 | A- |
| Southwestern Electric Power Co. | Electric | 1 | BBB |
| Southwestern Public Service Co. | Electric | 1 | A- |
| Tampa Electric Co. | Electric | 1 | BBB+ |
| Texas-New Mexico Power Co. | Electric | 1 | BBB |
| Toledo Edison Co. | Electric | 1 | BBB- |
| Tucson Electric Power Co. | Electric | 2 | BBB+ |
| UIL Holdings Corp. | Electric | 1 | BBB |
| Union Electric Co. d/b/a Ameren Missouri | Electric | 1 | BBB+ |
| United Illuminating Co. (The) | Electric | 1 | BBB |
| Virginia Electric \& Power Co. | Electric | 1 | A- |
| West Penn Power Co. | Electric | 1 | BBB- |
| Western Massachusetts Electric Co. | Electric | 1 | A- |
| Wisconsin Electric Power Co. | Electric | 1 | A- |
| Wisconsin Power \& Light Co. | Electric | 1 | A |
| Wisconsin Public Service Corp. | Electric | 1 | A- |


| State | Company | Case Identification | Service | Case Type | Recently Authorized ROEs |  |  |  |  | All Cases |  |  | Vertically Integrated |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  | DateReturn on <br> Equity <br> (\%) |  | Vertically Integrated | Distribution | RRA Rank |  |  |  |  |  |  |
|  |  |  |  |  |  |  | Above Average |  |  | Average | $\begin{gathered} \text { Below } \\ \text { Average } \\ \hline \end{gathered}$ | $\begin{array}{\|c\|} \hline \text { Above } \\ \text { Average } \\ \hline \end{array}$ | $\frac{\text { Average }}{9.70}$ | Below Average |
| Missouri | Kansas City Power \& Light | C-ER-2012-0174 | Electric | Vertically Integrated | 1/9/2013 | 9.70 |  | 9.70 |  | Average / 2 |  |  |  | 9.70 |  |  |
| Missouri | KCP\&L Greater Missouri Op Co | C-ER-2012-0175 (MPS) | Electric | Vertically Integrated | 1/9/2013 | 9.70 | 9.70 |  | Average / 2 |  | 9.70 |  |  | 9.70 |  |
| Missouri | KCP\&L Greater Missouri Op Co | C-ER-2012-0175 (L\&P) | Electric | Vertically Integrated | 1/9/2013 | 9.70 | 9.70 |  | Average / 2 |  | 9.70 |  |  | 9.70 |  |
| Indiana | Indiana Michigan Power Co. | Ca-44075 | Electric | Vertically Integrated | 2/13/2013 | 10.20 | 10.20 |  | Above Average / 3 | 10.20 |  |  | 10.20 |  |  |
| Maryland | Baltimore Gas and Electric Co. | C-9299 (elec) | Electric | Distribution | 2/22/2013 | 9.75 |  | 9.75 | Below Average / 2 |  |  | 9.75 |  |  |  |
| Louisiana | Southwestern Electric Power Co | D-U-32220 | Electric | Vertically Integrated | 2/27/2013 | 10.00 | 10.00 |  | Average / 1 |  | 10.00 |  |  | 10.00 |  |
| New York | Niagara Mohawk Power Corp. | D-12-E-0201 | Electric | Distribution | 3/14/2013 | 9.30 |  | 9.30 | Average / 2 |  | 9.30 |  |  |  |  |
| Idaho | Avista Corp. | C-AVU-E-12-08 | Electric | Vertically Integrated | 3/27/2013 | 9.80 | 9.80 |  | Average / 2 |  | 9.80 |  |  | 9.80 |  |
| Ohio | Duke Energy Ohio Inc. | C-12-1682-EL-AIR | Electric | Distribution | 5/1/2013 | 9.84 |  | 9.84 | Average / 2 |  | 9.84 |  |  |  |  |
| Michigan | Consumers Energy Co. | C-U-17087 | Electric | Vertically Integrated | 5/15/2013 | 10.30 | 10.30 |  | Average / 1 |  | 10.30 |  |  | 10.30 |  |
| North Carolina | Duke Energy Progress LLC | D-E-2, Sub 1023 | Electric | Vertically Integrated | 5/30/2013 | 10.20 | 10.20 |  | Average / 1 |  | 10.20 |  |  | 10.20 |  |
| Hawaii | Maui Electric Company Ltd | D-2011-0092 | Electric | Vertically Integrated | 5/31/2013 | 9.00 | 9.00 |  | Average / 1 |  | 9.00 |  |  | 9.00 |  |
| Arizona | Tucson Electric Power Co. | D-E-01933A-12-0291 | Electric | Vertically Integrated | 6/11/2013 | 10.00 | 10.00 |  | Average / 3 |  | 10.00 |  |  | 10.00 |  |
| New Jersey | Atlantic City Electric Co. | D-ER-12121071 | Electric | Distribution | 6/21/2013 | 9.75 |  | 9.75 | Average / 3 |  | 9.75 |  |  |  |  |
| Washington | Puget Sound Energy Inc. | D-UE-130137 | Electric | Vertically Integrated | 6/25/2013 | 9.80 | 9.80 |  | Average / 3 |  | 9.80 |  |  | 9.80 |  |
| Maryland | Potomac Electric Power Co. | C-9311 | Electric | Distribution | 7/12/2013 | 9.36 |  | 9.36 | Below Average / 2 |  |  | 9.36 |  |  |  |
| Minnesota | Northern States Power Co. - MN | D-E-002/GR-12-961 | Electric | Vertically Integrated | 8/8/2013 | 9.83 | 9.83 |  | Average / 2 |  | 9.83 |  |  | 9.83 |  |
| Connecticut | United Illuminating Co . | D-13-01-19 | Electric | Distribution | 8/14/2013 | 9.15 |  | 9.15 | Below Average / 2 |  |  | 9.15 |  |  |  |
| South Carolina | Duke Energy Carolinas LLC | D-2013-59-E | Electric | Vertically Integrated | 9/11/2013 | 10.20 | 10.20 |  | Average / 1 |  | 10.20 |  |  | 10.20 |  |
| Florida | Tampa Electric Co. | D-130040-EI | Electric | Vertically Integrated | 9/11/2013 | 10.25 | 10.25 |  | Above Average / 3 | 10.25 |  |  | 10.25 |  |  |
| North Carolina | Duke Energy Carolinas LLC | D-E-7, Sub 1026 | Electric | Vertically Integrated | 9/24/2013 | 10.20 | 10.20 |  | Average / 1 |  | 10.20 |  |  | 10.20 |  |
| Texas | Southwestern Electric Power Co | D-40443 | Electric | Vertically Integrated | 10/3/2013 | 9.65 | 9.65 |  | Below Average / 1 |  |  | 9.65 |  |  | 9.65 |
| Wisconsin | Wisconsin Public Service Corp. | D-6690-UR-122 (Elec) | Electric | Vertically Integrated | 11/6/2013 | 10.20 | 10.20 |  | Above Average/2 | 10.20 |  |  | 10.20 |  |  |
| Kansas | Westar Energy Inc. | D-13-WSEE-629-RTS | Electric | Vertically Integrated | 11/21/2013 | 10.00 | 10.00 |  | Average / 2 |  | 10.00 |  |  | 10.00 |  |
| Virginia | Virginia Electric \& Power Co. | C-PUE-2013-00020 | Electric | Vertically Integrated | 11/26/2013 | 10.00 | 10.00 |  | Above Average / 2 | 10.00 |  |  | 10.00 |  |  |
| Florida | Gulf Power Co. | D-130140-EI | Electric | Vertically Integrated | 12/3/2013 | 10.25 | 10.25 |  | Above Average / 3 | 10.25 |  |  | 10.25 |  |  |
| Washington | PacifiCorp | D-UE-130043 | Electric | Vertically Integrated | 12/4/2013 | 9.50 | 9.50 |  | Average / 3 |  | 9.50 |  |  | 9.50 |  |
| Wisconsin | Northern States Power Co - WI | D-4220-UR-119 (Elec) | Electric | Vertically Integrated | 12/5/2013 | 10.20 | 10.20 |  | Above Average / 2 | 10.20 |  |  | 10.20 |  |  |
| Illinois | Ameren Illinois | D-13-0301 | Electric | Distribution | 12/9/2013 | 8.72 |  | 8.72 | Below Average / 1 |  |  | 8.72 |  |  |  |
| Oregon | Portland General Electric Co. | D-UE-262 | Electric | Vertically Integrated | 12/9/2013 | 9.75 | 9.75 |  | Average / 3 |  | 9.75 |  |  | 9.75 |  |
| Maryland | Baltimore Gas and Electric Co. | C-9326 (elec) | Electric | Distribution | 12/13/2013 | 9.75 |  | 9.75 | Below Average / 2 |  |  | 9.75 |  |  |  |
| Louisiana | Entergy Gulf States LA LLC | D-U-32707 | Electric | Vertically Integrated | 12/16/2013 | 9.95 | 9.95 |  | Average / 1 |  | 9.95 |  |  | 9.95 |  |
| Louisiana | Entergy Louisiana LLC | D-U-32708 | Electric | Vertically Integrated | 12/16/2013 | 9.95 | 9.95 |  | Average / 1 |  | 9.95 |  |  | 9.95 |  |
| Nevada | Sierra Pacific Power Co. | D-13-06002 | Electric | Vertically Integrated | 12/16/2013 | 10.12 | 10.12 |  | Average / 2 |  | 10.12 |  |  | 10.12 |  |
| Arizona | UNS Electric Inc. | D-E-04204A-12-0504 | Electric | Vertically Integrated | 12/17/2013 | 9.50 | 9.50 |  | Average / 3 |  | 9.50 |  |  | 9.50 |  |
| Georgia | Georgia Power Co. | D-36989 | Electric | Vertically Integrated | 12/17/2013 | 10.95 | 10.95 |  | Above Average / 3 | 10.95 |  |  | 10.95 |  |  |
| Illinois | Commonwealth Edison Co. | D-13-0318 | Electric | Distribution | 12/18/2013 | 8.72 |  | 8.72 | Below Average / 1 |  |  | 8.72 |  |  |  |
| Oregon | PacifiCorp | D-UE-263 | Electric | Vertically Integrated | 12/18/2013 | 9.80 | 9.80 |  | Average / 3 |  | 9.80 |  |  | 9.80 |  |
| Michigan | Upper Peninsula Power Co. | C-U-17274 | Electric | Vertically Integrated | 12/19/2013 | 10.15 | 10.15 |  | Average / 1 |  | 10.15 |  |  | 10.15 |  |
| Arkansas | Entergy Arkansas Inc. | D-13-028-U | Electric | Vertically Integrated | 12/30/2013 | 9.50 | 9.50 |  | Average / 2 |  | 9.50 |  |  | 9.50 |  |
| New York | Consolidated Edison Co. of NY | C-13-E-0030 | Electric | Distribution | 2/20/2014 | 9.20 |  | 9.20 | Average / 2 |  | 9.20 |  |  |  |  |
| North Dakota | Northern States Power Co. - MN | C-PU-12-813 | Electric | Vertically Integrated | 2/26/2014 | 9.75 | 9.75 |  | Average / 1 |  | 9.75 |  |  | 9.75 |  |
| New Hampshire | Liberty Utilities Granite St | D-DE-13-063 | Electric | Distribution | 3/17/2014 | 9.55 |  | 9.55 | Average / 3 |  | 9.55 |  |  |  |  |
| District of Columbia | Potomac Electric Power Co. | FC-1103-2013-E | Electric | Distribution | 3/26/2014 | 9.40 |  | 9.40 | Below Average / 1 |  |  | 9.40 |  |  |  |
| New Mexico | Southwestern Public Service Co | C-12-00350-UT | Electric | Vertically Integrated | 3/26/2014 | 9.96 | 9.96 |  | Below Average / 1 |  |  | 9.96 |  |  | 9.96 |
| Delaware | Delmarva Power \& Light Co. | D-13-115 | Electric | Distribution | 4/2/2014 | 9.70 |  | 9.70 | Average / 3 |  | 9.70 |  |  |  |  |
| Texas | Entergy Texas Inc. | D-41791 | Electric | Vertically Integrated | 5/16/2014 | 9.80 | 9.80 |  | Below Average / 1 |  |  | 9.80 |  |  | 9.80 |
| Massachusetts | Fitchburg Gas \& Electric Light | DPU 13-90 | Electric | Distribution | 5/30/2014 | 9.70 |  | 9.70 | Average / 3 |  | 9.70 |  |  |  |  |
| Wisconsin | Wisconsin Power and Light Co | D-6680-UR-119 (Elec) | Electric | Vertically Integrated | 6/6/2014 | 10.40 | 10.40 |  | Above Average/2 | 10.40 |  |  | 10.40 |  |  |
| Maine | Emera Maine | D-2013-00443 | Electric | Distribution | 6/30/2014 | 9.55 |  | 9.55 | Average/2 |  | 9.55 |  |  |  |  |
| Maryland | Potomac Electric Power Co. | C-9336 | Electric | Distribution | 7/2/2014 | 9.62 |  | 9.62 | Below Average / 2 |  |  | 9.62 |  |  |  |
| Louisiana | Entergy Louisiana LLC | D-UD-13-01 | Electric | Vertically Integrated | 7/10/2014 | 9.95 | 9.95 |  | Average / 1 |  | 9.95 |  |  | 9.95 |  |
| New Jersey | Rockland Electric Company | D-ER-13111135 | Electric | Distribution | 7/23/2014 | 9.75 |  | 9.75 | Average / 3 |  | 9.75 |  |  |  |  |
| Maine | Central Maine Power Co. | D-2013-00168 | Electric | Distribution | 7/29/2014 | 9.45 |  | 9.45 | Average $/ 2$ |  | 9.45 |  |  |  |  |
| Wyoming | Cheyenne Light Fuel Power Co. | D-20003-132-ER-13 | Electric | Vertically Integrated | 7/31/2014 | 9.90 | 9.90 |  | Average / 2 |  | 9.90 |  |  | 9.90 |  |
| New Jersey | Atlantic City Electric Co. | D-ER-14030245 | Electric | Distribution | 8/20/2014 | 9.75 |  | 9.75 | Average / 3 |  | 9.75 |  |  |  |  |
| Vermont | Green Mountain Power Corp | D-8190, 8191 | Electric | Vertically Integrated | 8/25/2014 | 9.60 | 9.60 |  | Average / 3 |  | 9.60 |  |  | 9.60 |  |
| Utah | PacifiCorp | D-13-035-184 | Electric | Vertically Integrated | 8/29/2014 | 9.80 | 9.80 |  | Average / 2 |  | 9.80 |  |  | 9.80 |  |
| Florida | Florida Public Utilities Co. | D-140025-EI | Electric | Vertically Integrated | 9/15/2014 | 10.25 | 10.25 |  | Above Average / 3 | 10.25 |  |  | 10.25 |  |  |
| Nevada | Nevada Power Co. | D-14-05004 | Electric | Vertically Integrated | 10/9/2014 | 9.80 | 9.80 |  | Average / 2 |  | 9.80 |  |  | 9.80 |  |
| Illinois | MidAmerican Energy Co. | D-14-0066 | Electric | Vertically Integrated | 11/6/2014 | 9.56 | 9.56 |  | Below Average / 1 |  |  | 9.56 |  |  | 9.56 |
| Wisconsin | Wisconsin Public Service Corp. | D-6690-UR-123 (Elec) | Electric | Vertically Integrated | 11/6/2014 | 10.20 | 10.20 |  | Above Average/2 | 10.20 |  |  | 10.20 |  |  |
| Wisconsin | Wisconsin Electric Power Co. | D-05-UR-107 (WEP-Elec) | Electric | Vertically Integrated | 11/14/2014 | 10.20 | 10.20 |  | Above Average / 2 | 10.20 |  |  | 10.20 |  |  |
| Virginia | Appalachian Power Co. | C-PUE-2014-00026 | Electric | Vertically Integrated | 11/26/2014 | 9.70 | 9.70 |  | Above Average/2 | 9.70 |  |  | 9.70 |  |  |
| Wisconsin | Madison Gas and Electric Co. | D-3270-UR-120 (Elec) | Electric | Vertically Integrated | 11/26/2014 | 10.20 | 10.20 |  | Above Average / 2 | 10.20 |  |  | 10.20 |  |  |
| Oregon | Portland General Electric Co. | D-UE-283 | Electric | Vertically Integrated | 12/4/2014 | 9.68 | 9.68 |  | Average / 3 |  | 9.68 |  |  | 9.68 |  |



Summary of Adjustment Clauses \& Alternative Regulation/Incentive Plans

|  |  |  | Adjustment Clauses |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Parent | State | Fuel/ Purchased Power | $\begin{gathered} \text { Decoupling } \\ \text { (F/P) [1] } \\ \hline \end{gathered}$ | New Capital Investment [2] | Energy Efficiency [3] | $\begin{gathered} \text { Renewables \& } \\ \text { RPS [4] } \\ \hline \end{gathered}$ | Environmental $[5]$ | Other [6] |
| Ameren Illinois Company | AEE | Illinois |  |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Union Electric Company | AEE | Missouri | $\checkmark$ | P |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Southwestern Electric Power Company | AEP | Arkansas | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Indiana Michigan Power Company | AEP | Indiana | $\checkmark$ | P |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Kentucky Power Company | AEP | Kentucky | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Southwestern Electric Power Company | AEP | Louisiana | $\checkmark$ | P |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Indiana Michigan Power Company | AEP | Michigan | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |
| Ohio Power Company | AEP | Ohio |  | P | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Public Service Company of Oklahoma | AEP | Oklahoma | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Kingsport Power Company | AEP | Tennessee | $\checkmark$ |  |  |  |  |  |  |
| AEP Texas Central Company | AEP | Texas |  |  | $\checkmark$ | $\checkmark$ |  |  |  |
| AEP Texas North Company | AEP | Texas |  |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Southwestern Electric Power Company | AEP | Texas | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Appalachian Power Company | AEP | Virginia | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Appalachian Power Company | AEP | West Virginia | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Wheeling Power Company | AEP | West Virginia | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| ALLETE (Minnesota Power) | ALE | Minnesota | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Alaska Electric Light and Power Company | AVA | Alaska | $\checkmark$ |  |  |  |  |  |  |
| Avista Corporation - Electric | AVA | Idaho | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
| Avista Corporation - Electric | AVA | Washington | $\checkmark$ | F |  |  |  |  |  |
| Consumers Energy Company | CMS | Michigan | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |
| DTE Electric Company | DTE | Michigan | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| El Paso Electric | EE | New Mexico | $\checkmark$ |  |  | $\checkmark$ |  |  | $\checkmark$ |
| El Paso Electric | EE | Texas | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Connecticut Light \& Power | ES | Connecticut | $\checkmark$ | F |  | $\checkmark$ |  |  | $\checkmark$ |
| NSTAR Electric | ES | Massachusetts |  |  |  | $\checkmark$ |  |  | $\checkmark$ |
| Western Massachusetts Electric | ES | Massachusetts |  | F | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Public Service Co. of New Hampshire | ES | New Hampshire | $\checkmark$ |  | $\checkmark$ |  |  |  | $\checkmark$ |
| Entergy Arkansas | ETR | Arkansas | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Entergy New Orleans - Electric | ETR | Louisiana | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Entergy Louisiana - Electric | ETR | Louisiana | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Entergy Mississippi | ETR | Mississippi | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Entergy Texas | ETR | Texas | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Potomac Edison Company | FE | Maryland |  |  |  | $\checkmark$ |  |  | $\checkmark$ |
| Jersey Central Power \& Light Company | FE | New Jersey |  |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Cleveland Electric Illuminating Company | FE | Ohio |  | P | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Ohio Edison Company | FE | Ohio |  | P | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Toledo Edison Company | FE | Ohio |  | P | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Metropolitan Edison Company | FE | Pennsylvania |  |  |  | $\checkmark$ |  |  | $\checkmark$ |
| Pennsylvania Electric Company | FE | Pennsylvania |  |  |  | $\checkmark$ |  |  | $\checkmark$ |
| Pennsylvania Power Company | FE | Pennsylvania |  |  |  | $\checkmark$ |  |  | $\checkmark$ |
| West Penn Power Company | FE | Pennsylvania |  |  |  | $\checkmark$ |  |  | $\checkmark$ |
| Monongahela Power Company | FE | West Virginia | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Potomac Edison Company | FE | West Virginia | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Idaho Power Co. | IDA | Idaho | $\checkmark$ | P |  | $\checkmark$ |  |  |  |
| Idaho Power Co. | IDA | Oregon | $\checkmark$ |  |  |  | $\checkmark$ |  |  |
| Interstate Power and Light Company | LNT | lowa | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Wisconsin Power and Light Company | LNT | Wisconsin | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Madison Gas \& Electric - Electric | MGEE | Wisconsin | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Madison Gas \& Electric - Gas | MGEE | Wisconsin | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| NorthWestern Corp | NWE | Montana | $\checkmark$ | P |  | $\checkmark$ |  |  | $\checkmark$ |
| NorthWestern Corp. | NWE | South Dakota | $\checkmark$ |  |  | $\checkmark$ |  |  |  |
| Oklahoma Gas and Electric Company | OGE | Arkansas | $\checkmark$ | P | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Oklahoma Gas and Electric Company | OGE | Oklahoma | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Otter Tail Power Company | OTTR | Minnesota | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Otter Tail Power Company | OTTR | North Dakota | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Public Service Co. of New Mexico | PNM | New Mexico | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Texas-New Mexico Power | PNM | Texas |  |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Arizona Public Service Company | PNW | Arizona | $\checkmark$ | P | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Portland General Electric Company | POR | Oregon | $\checkmark$ | P |  |  | $\checkmark$ |  |  |
| South Carolina Electric \& Gas Co. | SCG | South Carolina | $\checkmark$ |  | $\checkmark$ |  |  | $\checkmark$ |  |
| Wisconsin Electric Power | WEC | Michigan | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |  |
| Wisconsin Electric Power | WEC | Wisconsin | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Wisconsin Public Service | WEC | Wisconsin | $\checkmark$ |  |  |  |  |  | $\checkmark$ |
| Public Service Company of Colorado | XEL | Colorado | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Northern States Power Company - MN | XEL | Minnesota | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Southwestern Public Service Company | XEL | New Mexico | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |
| Northern States Power Company - MN | XEL | North Dakota | $\checkmark$ |  | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |
| Northern States Power Company - MN | XEL | South Dakota | $\checkmark$ | P | $\checkmark$ | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |
| Southwestern Public Service Company | XEL | Texas | $\checkmark$ |  | $\checkmark$ | $\checkmark$ |  |  | $\checkmark$ |
| Northern States Power Company - WI | XEL | Wisconsin | $\checkmark$ |  |  |  |  |  | $\checkmark$ |

Summary of Adjustment Clauses \& Alternative Regulation/Incentive Plans

|  |  |  | Alternative Regulation / Incentive Plans |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Company | Parent | State | FormulaBased Rates | Price Freeze/ Cap | Earnings Sharing | FormulaBased ROE | Service Quality/ Performance | Merger Savings |
| Ameren Illinois Company | AEE | Illinois | $\checkmark$ |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Union Electric Company | AEE | Missouri |  |  |  |  |  |  |
| Southwestern Electric Power Company | AEP | Arkansas |  |  |  |  |  |  |
| Indiana Michigan Power Company | AEP | Indiana |  |  |  |  |  |  |
| Kentucky Power Company | AEP | Kentucky |  |  |  |  |  |  |
| Southwestern Electric Power Company | AEP | Louisiana | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |  |  |
| Indiana Michigan Power Company | AEP | Michigan |  |  |  |  |  |  |
| Ohio Power Company | AEP | Ohio |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Public Service Company of Oklahoma | AEP | Oklahoma |  |  |  |  |  |  |
| Kingsport Power Company | AEP | Tennessee |  |  |  |  |  |  |
| AEP Texas Central Company | AEP | Texas |  |  |  |  |  |  |
| AEP Texas North Company | AEP | Texas |  |  |  |  |  |  |
| Southwestern Electric Power Company | AEP | Texas |  |  |  |  |  |  |
| Appalachian Power Company | AEP | Virginia |  |  | $\checkmark$ | $\checkmark$ | $\checkmark$ |  |
| Appalachian Power Company | AEP | West Virginia |  |  |  |  |  |  |
| Wheeling Power Company | AEP | West Virginia |  |  |  |  |  |  |
| ALLETE (Minnesota Power) | ALE | Minnesota |  |  |  |  |  |  |
| Alaska Electric Light and Power Company | AVA | Alaska |  |  |  |  |  |  |
| Avista Corporation - Electric | AVA | Idaho |  | $\checkmark$ |  |  |  |  |
| Avista Corporation - Electric | AVA | Washington |  | $\checkmark$ |  |  |  |  |
| Consumers Energy Company | CMS | Michigan |  |  |  |  |  |  |
| DTE Electric Company | DTE | Michigan |  |  |  |  |  |  |
| El Paso Electric | EE | New Mexico |  |  |  |  |  |  |
| El Paso Electric | EE | Texas |  |  |  |  |  |  |
| Connecticut Light \& Power | ES | Connecticut |  | $\checkmark$ | $\checkmark$ |  |  |  |
| NSTAR Electric | ES | Massachusetts |  | $\checkmark$ |  |  | $\checkmark$ |  |
| Western Massachusetts Electric | ES | Massachusetts |  | $\checkmark$ |  |  |  |  |
| Public Service Co. of New Hampshire | ES | New Hampshire |  | $\checkmark$ | $\checkmark$ |  | $\checkmark$ |  |
| Entergy Arkansas | ETR | Arkansas |  |  |  |  |  |  |
| Entergy New Orleans - Electric | ETR | Louisiana |  |  |  |  |  |  |
| Entergy Louisiana - Electric | ETR | Louisiana |  |  |  |  |  |  |
| Entergy Mississippi | ETR | Mississippi | $\checkmark$ |  |  | $\checkmark$ | $\checkmark$ |  |
| Entergy Texas | ETR | Texas |  |  |  |  |  |  |
| Potomac Edison Company | FE | Maryland |  |  |  |  |  |  |
| Jersey Central Power \& Light Company | FE | New Jersey |  |  |  |  |  |  |
| Cleveland Electric Illuminating Company | FE | Ohio |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Ohio Edison Company | FE | Ohio |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Toledo Edison Company | FE | Ohio |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Metropolitan Edison Company | FE | Pennsylvania |  |  |  |  |  |  |
| Pennsylvania Electric Company | FE | Pennsylvania |  |  |  |  |  |  |
| Pennsylvania Power Company | FE | Pennsylvania |  |  |  |  |  |  |
| West Penn Power Company | FE | Pennsylvania |  |  |  |  |  |  |
| Monongahela Power Company | FE | West Virginia |  |  |  |  |  |  |
| Potomac Edison Company | FE | West Virginia |  |  |  |  |  |  |
| Idaho Power Co. | IDA | Idaho |  |  | $\checkmark$ |  |  |  |
| Idaho Power Co. | IDA | Oregon |  |  |  |  |  |  |
| Interstate Power and Light Company | LNT | lowa |  | $\checkmark$ |  |  |  |  |
| Wisconsin Power and Light Company | LNT | Wisconsin |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Madison Gas \& Electric - Electric | MGEE | Wisconsin |  | $\checkmark$ |  |  |  |  |
| Madison Gas \& Electric - Gas | MGEE | Wisconsin |  | $\checkmark$ |  |  |  |  |
| NorthWestern Corp | NWE | Montana |  |  |  |  |  |  |
| NorthWestern Corp. | NWE | South Dakota |  |  |  |  |  |  |
| Oklahoma Gas and Electric Company | OGE | Arkansas |  |  |  |  |  |  |
| Oklahoma Gas and Electric Company | OGE | Oklahoma |  |  |  |  |  |  |
| Otter Tail Power Company | OTTR | Minnesota |  |  |  |  |  |  |
| Otter Tail Power Company | OTTR | North Dakota |  |  |  |  |  |  |
| Public Service Co. of New Mexico | PNM | New Mexico |  |  |  |  |  |  |
| Texas-New Mexico Power | PNM | Texas |  |  |  |  |  |  |
| Arizona Public Service Company | PNW | Arizona |  | $\checkmark$ |  |  |  |  |
| Portland General Electric Company | POR | Oregon |  |  |  |  |  |  |
| South Carolina Electric \& Gas Co. | SCG | South Carolina |  | $\checkmark$ |  |  |  |  |
| Wisconsin Electric Power | WEC | Michigan |  |  |  |  |  |  |
| Wisconsin Electric Power | WEC | Wisconsin |  | $\checkmark$ |  |  |  |  |
| Wisconsin Public Service | WEC | Wisconsin |  |  |  |  |  |  |
| Public Service Company of Colorado | XEL | Colorado |  | $\checkmark$ | $\checkmark$ |  |  |  |
| Northern States Power Company - MN | XEL | Minnesota |  |  |  |  |  |  |
| Southwestern Public Service Company | XEL | New Mexico |  | $\checkmark$ |  |  |  |  |
| Northern States Power Company - MN | XEL | North Dakota |  |  |  |  |  |  |
| Northern States Power Company - MN | XEL | South Dakota |  | $\checkmark$ |  |  |  |  |
| Southwestern Public Service Company | XEL | Texas |  | $\checkmark$ |  |  |  |  |
| Northern States Power Company - WI | XEL | Wisconsin |  |  |  |  |  |  |

## Notes

A mechanism may cover one or more cost categories; therefore, designations may not indicate separate mechanisms for each category.
[1] Full or partial decoupling (such as Straight-Fixed Variable rate design, weather normalization clauses, and recovery of lost revenues as a result of Energy Efficiency programs).
[2] Includes recovery of costs related to targeted new generation projects, infrastructure replacement, system integrity/hardening, Smart Grid, AMI metering, and other capital expenditures
[3] Utility-sponsored conservation, energy efficiency, load control, or other demand side management programs
[4] Recovers costs associated with renewable energy projects, Distributed Energy Resources, REC purchases, net metering, RPS expense, and renewable PPAs.
[5] EPA upgrade costs, emissions control \& allowance purchase costs, nuclear decommissioning, and other costs to comply with state and federal environmental mandates.
[6] Pension expenses, bad debt costs, storm costs, vegetation management, RTO/Transmission Expense, capacity costs, transmission costs, government \& franchise fees and taxes, economic development, and low

Sources: Regulatory Research Associates, Alternative Regulation/Incentive Plans: A State-by-State Overview, November 19, 2013; Regulatory Research Associates, Adjustment Clauses: A State-by-State Overview, October 2, 2015.

Mr. Lawton's Financial Integrity Analysis Replicated, as Filed (Exhibit _ (DJL-5))

|  | A | B | C | D | E |
| :--- | ---: | ---: | ---: | ---: | ---: |
| REQUESTED CAPITAL STRUCTURE, COST RATES, AND RETURN |  |  |  |  |  |
| DESCRIPTION | CAPITAL | RATIO | COST RATE | WEIGHTED COST | RETURN |
| LONG TERM DEBT | $\$ 9,358,417$ | $28.76 \%$ | $4.620 \%$ | $1.33 \%$ | $\$ 432,359$ |
| CUSTOMER DEPOSITS | $\$ 407,328$ | $1.25 \%$ | $2.050 \%$ | $0.03 \%$ | $\$ 8,350$ |
| COMMON EQUITY | $\$ 14,682,574$ | $45.13 \%$ | $11.500 \%$ | $5.19 \%$ | $\$ 1,688,496$ |
| SHORT TERM DEBT | $\$ 612,939$ | $1.88 \%$ | $1.850 \%$ | $0.03 \%$ | $\$ 11,339$ |
| DEFERRED INCOME TAX | $\$ 7,368,582$ | $22.65 \%$ | $0.000 \%$ | $0.00 \%$ | $\$ 0$ |
| INVESTMENT TAX CREDITS | $\$ 106,275$ | $0.33 \%$ | $8.820 \%$ | $0.03 \%$ | $\$ 9,373$ |
| TOTAL CAPITAL | $\$ 32,536,115$ | $100.00 \%$ |  | $6.61 \%$ | $\$ 2,149,918$ |
| RATE BASE |  |  | $\$ 32,536,115$ |  |  |
| PER COMPANY SCHEDULES B-1 |  |  |  |  |  |


| ALTERNATIVE CAPITAL STRUCTURE, COST RATES, AND RETURN ON EQUITY @ 8.75\% |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| DESCRIPTION | CAPITAL | RATIO | COST RATE | WEIGHTED COST | RETURN |
| LONG TERM DEBT | \$11,636,598 | 35.56\% | 4.620\% | 1.643\% | \$537,611 |
| CUSTOMER DEPOSITS | \$409,700 | 1.25\% | 2.050\% | 0.026\% | \$8,399 |
| COMMON EQUITY | \$12,398,749 | 37.89\% | 8.750\% | 3.315\% | \$1,084,891 |
| SHORT TERM DEBT | \$762,151 | 2.33\% | 1.850\% | 0.043\% | \$14,100 |
| DEFERRED INCOME TAX | \$7,411,492 | 22.65\% | 0.000\% | 0.000\% | \$0 |
| INVESTMENT TAX CREDITS | \$106,894 | 0.33\% | 6.750\% | 0.022\% | \$7,215 |
| TOTAL CAPITAL | \$32,725,584 | 100.00\% |  | 5.049\% | \$1,652,215 |
| RATE BASE |  |  | \$32,725,584 |  | $(\$ 497,703)$ |



|  | A | B | C | D | E |
| :---: | :---: | :---: | :---: | :---: | :---: |
| REQUESTED CAPITAL STRUCTURE, COST RATES, AND RETURN ON EQUITY ADJUSTED TO 0.00\% |  |  |  |  |  |
| DESCRIPTION | CAPITAL | RATIO | COST RATE | WEIGHTED COST | RETURN |
| LONG TERM DEBT | \$9,358,417 | 28.76\% | 4.620\% | 1.33\% | \$432,359 |
| CUSTOMER DEPOSITS | \$407,328 | 1.25\% | 2.050\% | 0.03\% | \$8,350 |
| COMMON EQUITY | \$14,682,574 | 45.13\% | 0.000\% | 0.00\% | \$0 |
| SHORT TERM DEBT | \$612,939 | 1.88\% | 1.850\% | 0.03\% | \$11,339 |
| DEFERRED INCOME TAX | \$7,368,582 | 22.65\% | 0.000\% | 0.00\% | \$0 |
| INVESTMENT TAX CREDITS | \$106,275 | 0.33\% | 8.820\% | 0.03\% | \$9,373 |
| TOTAL CAPITAL | \$32,536,115 | 100.00\% |  | 1.42\% | \$461,422 |
| RATE BASE |  |  | \$32,536,115 |  |  |


| OPC ALTERNATIVE CAPITAL STRUCTURE, COST RATES, AND EQUITY RATIO ADJUSTED TO 34.99\% |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| DESCRIPTION | CAPITAL | RATIO | COST RATE | WEIGHTED COST | RETURN |
| LONG TERM DEBT | $\$ 11,636,598$ | $35.56 \%$ | $4.620 \%$ | $1.643 \%$ | $\$ 537,611$ |
| CUSTOMER DEPOSITS | $\$ 409,700$ | $1.25 \%$ | $2.050 \%$ | $0.026 \%$ | $\$ 8,399$ |
| COMMON EQUITY | $\$ 12,398,749$ | $37.89 \%$ | $\mathbf{6 . 2 4 9 \%}$ | $2.368 \%$ | $\$ 774,809$ |
| SHORT TERM DEBT | $\$ 762,151$ | $2.33 \%$ | $1.850 \%$ | $0.043 \%$ | $\$ 14,100$ |
| DEFERRED INCOME TAX | $\$ 7,411,492$ | $22.65 \%$ | $0.000 \%$ | $0.000 \%$ | $\$ 0$ |
| INVESTMENT TAX CREDITS | $\$ 106,894$ | $0.33 \%$ | $6.750 \%$ | $0.022 \%$ | $\$ 7,215$ |
| TOTAL CAPITAL | $\$ 32,725,584$ | $100.00 \%$ |  | $4.101 \%$ | $\$ 1,342,134$ |
| RATE BASE |  |  | $\$ 32,725,584$ |  | $\$ 880,712$ |




[^0]:    Direct Testimony of J. Randall Woolridge, at 63.

[^1]:    See, Direct Testimony of Robert B. Hevert, at 27-28; and Jing Liu, Doron Nissim, and Jacob Thomas, Is Cash Flow King in Valuations?, Financial Analysts Journal, Volume 63, Number 2, 2007.

[^2]:    Ibid., at 61; Exhibit JRW-11, at 1, 5-6.
    Ibid., at 88. [Clarification added]
    Ibid., at 84 .
    Ibid., at 85.
    Ibid., at 88.
    Ibid.

[^3]:    Source: Morningstar, Inc., 2016 SBBI Appendix A, at 3-5, 21-23; http://www.cfosurvey.org (1year return estimates as of fourth quarter of the previous year).
    Graham, John R. and Harvey, Campbell R, The Equity Risk Premium in 2015 (June 25, 2015), at 8, http://papers.ssrn.com/sol3/papers.cfm?abstract_id=2611793. At page 9, the authors note that hurdle rates are "used for actual investment decisions."
    Duke/CFO Magazine Global Business Outlook survey - U.S., Second Quarter 2012 at 139, 159.

[^4]:    Q. What are the principal areas in which you disagree with Mr. Baudino's ROE analyses?
    A. The principal areas in which I disagree with Mr. Baudino include: (1) the composition and selection of the proxy group companies; (2) his reliance on the Constant Growth DCF model to determine the Company's Cost of Equity; (3) the growth rates applied in the Constant Growth DCF model; (4) the risk-free rate and Market Risk Premium used in the CAPM; (5) whether the Bond Yield Plus Risk Premium analysis provides reasonable estimates of the Company's Cost of Equity; (6) the recovery of flotation costs; (7) our respective assessments of the Company's level of business and financial risk; and (8) the reasonableness of the Company's capital structure.

[^5]:    Multi-Stage DCF Notes:
    [1] Source: Bloomberg; based on 30-, 90-, and 180-day historical average as of June 30, 2016
    [2] Source: Zacks
    [3] Source: Yahoo! Finance
    [4] Source: Value Line
    [5] Equals indicated value (average, minimum, maximum) of Columns [2], [3], [4]
    [6] Source: Federal Reserve, Bureau of Economic Analysis
    [7] Source: Value Line
    [8] Source: Value Line
    [9] Source: Bloomberg Professional
    [10] Equals Column [1] + Column [62]
    [11] Equals result of Excel Solver function; goal: Column [10] equals $\$ 0.00$
    [12] Equals Column [61] / Column [30]
    [13] Equals Column [12] / (Column [6] x 100)
    [14] Source: Value Line
    [15] Equals Column [14] x (1 + Column [5])
    [16] Equals Column [15] x (1 + Column [5])
    [17] Equals Column [16] x (1 + Column [5])
    [18] Equals Column [17] $\times(1+$ Column [5])
    [19] Equals Column [18] $\times(1+$ Column [5] $)$
    [20] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026-2021 + 1)) $\times(2021-2020)))) \times$ Column [19]
    [21] Equals (1 + (Column [5] + (((Column [6] - Column [5]) / (2026-2021 + 1)) x (2022-2020)))) x Column [20]
    [22] Equals $(1+($ Column [5] $+((($ Column [6] - Column [5]) $/(2026-2021+1)) \times(2023-2020)))) \times$ Column [21]
    [23] Equals $(1+($ Column [5] $+((($ Column [6]-Column [5]) $/(2026-2021+1)) \times(2024-2020)))) \times$ Column [22]
    [24] Equals $(1+($ Column [5] $+((($ Column [6] - Column [5] $) /(2026-2021+1)) \times(2025-2020)))) \times$ Column [23]
    [25] Equals Column [24] x (1 + Column [6])
    [26] Equals Column [25] $\times(1+$ Column [6] $)$
    [27] Equals Column [26] $\times(1+$ Column [6] $)$
    [28] Equals Column [27] x (1 + Column [6])
    [29] Equals Column [28] x (1 + Column [6])
    [30] Equals Column [29] x (1 + Column [6])
    [31] Equals Column [7]
    [32] Equals Column [31] + ((Column [35] - Column [31]) / 4)
    [33] Equals Column [32] + ((Column [35] - Column [31]) / 4)
    [34] Equals Column [33] + ((Column [35] - Column [31]) / 4)
    [35] Equals Column [8]
    [36] Equals Column [35] + ((Column [42]-Column [35]) / 6)
    [37] Equals Column [36] + ((Column [42] - Column [35]) / 6)
    [38] Equals Column [37] + ((Column [42]-Column [35]) / 6)
    [39] Equals Column [38] + ((Column [42]-Column [35]) / 6)
    [40] Equals Column [39] + ((Column [42] - Column [35]) / 6)
    [41] Equals Column [9]
    [42] Equals Column [9]
    [43] Equals Column [9]
    [44] Equals Column [9]
    [45] Equals Column [9]
    [46] Equals Column [9]
    [47] Equals Column [15] x Column [31]
    [48] Equals Column [16] x Column [32]
    [49] Equals Column [17] x Column [33]
    [50] Equals Column [18] x Column [34]
    [51] Equals Column [19] $\times$ Column [35]
    [52] Equals Column [20] x Column [36]
    [53] Equals Column [21] x Column [37]
    [54] Equals Column [22] x Column [38]
    [55] Equals Column [23] $\times$ Column [39]
    [56] Equals Column [24] x Column [40]
    [57] Equals Column [25] x Column [41]
    [58] Equals Column [26] x Column [42]
    [59] Equals Column [27] $\times$ Column [43]
    [60] Equals Column [28] x Column [44]
    [61] Equals Column [29] x Column [45]
    [62] Equals Column [30] x Column [46]
    [63] Equals (Column [62] $\times(1+$ Column [6]) $) /($ Column [11]- Column [6])
    [64] Equals negative net present value; discount rate equals Column [11], cash flows equal Column [65] through Column [81]
    [65] Equals \$0.00
    [66] Equals Column [47] $\times(12 / 31 / 2016-6 / 30 / 2016) / 365$
    [67] Equals Column [47] + (0.5 x Column [5])
    [68] Equals Column [49]
    [69] Equals Column [50]
    [70] Equals Column [51]
    [71] Equals Column [52]
    [72] Equals Column [53]
    [73] Equals Column [54]
    [74] Equals Column [55]
    [75] Equals Column [56]
    [76] Equals Column [57]
    [77] Equals Column [58]
    [78] Equals Column [59]
    [79] Equals Column [60]
    [80] Equals Column [61]
    [81] Equals Column [62] + [63]

[^6]:    Source: SNL Financial

[^7]:    Source: Exhibit MPG-13

[^8]:    Source: Exhibit MPG-14

