Exhibit No.:

Issues: Cost of Capital Witness: Samuel C. Hadaway

Sponsoring Party: Aquila Networks-L&P Case No.: HR-2005-0450

# Before the Public Service Commission of the State of Missouri

Rebuttal Testimony

of

Samuel C. Hadaway

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# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI REBUTTAL TESTIMONY OF SAMUEL C. HADAWAY ON BEHALF OF AQUILA, INC. D/B/A AQUILA NETWORKS-L&P CASE NO. HR-2005-0450

1	Q.	Please state your name and business address.
2	A.	My name is Samuel C. Hadaway. My business address is FINANCO, Inc., 3520
3		Executive Center Drive, Austin, Texas 78731.
4	Q.	What is the purpose of your rebuttal testimony?
5	A.	The purpose of my rebuttal testimony is to respond to the return on equity
6		("ROE") and capital structure recommendations of Commission Staff witness
7		David Murray, Office of Public Counsel ("OPC") witness Ben Johnson, and
8		Federal Executive Agencies/Sedalia Industrial Energy Users' Association/St. Joe
9		Industrial Group ("FEA") witness Michael Gorman. I also update my equity cost
10		estimates.
11	Q.	Please describe the L&P steam operations.
12	A.	The steam operations of L&P flow steam generated as a by-product from L&P's
13		power production plants to steam customers through a system built specifically to
14		handle its distribution. Since electric power and steam are produced
15		simultaneously by L&P's power generating facilities, there should be no
16		differentiation in the cost of capital or capital structure between Aquila's electric
17		business and its steam business.

- Q. Is your rebuttal testimony for L&P's steam operations essentially the same as your rebuttal testimony for Aquila's MPS and L&P electric utility operations?
- 4 A. Yes, it is. Because the products of steam and electricity for L&P are sourced 5 from the same investment in electrical generation made by the Company, I 6 recommended the same allowed return and capital structure for both in my direct 7 testimony and I am offering the same rebuttal testimony for both. In support of 8 my rebuttal testimony for the steam operations, I am adopting the same analysis, 9 conclusions and testimony as I filed in my rebuttal testimony for the L&P electric 10 operations. My Rebuttal Schedule SCH-2A has been included to illustrate the 11 "stand-alone" credit metrics for the L&P steam operations with the same 12 sensitivities to Staff ROE and capital structure as illustrated in Rebuttal Schedule 13 SCH-2 of my electric rebuttal testimony. Neither Dr. Johnson nor Mr. Gorman 14 offer separate stand alone ROE and capital structure recommendations for the steam operations. 15

# **RECOMMENDATIONS OF THE PARTIES**

17 Q. What are the ROE recommendations of the various parties in this case?

16

- A. The Company is requesting an ROE of 11.5 percent. Staff witness Murray offers
  an ROE range of 8.5 percent to 9.5 percent. OPC witness Johnson recommends
  an ROE of 9.95 percent. FEA witness Gorman recommends an ROE of 9.8
  percent.
- 22 Q. What are the capital structure recommendations of the parties?

1 A. The Company is requesting a capital structure that consists of 51.8 percent debt 2 and 48.2 percent equity. The requested capital structure is based on the average 3 capital structure percentage for the reference company group used to estimate 4 ROE. Staff witness Murray recommends a capital structure consisting of 57.53 5 percent debt and 42.47 percent equity. Mr. Murray's recommended capital 6 structure is based on the Company's actual June 30, 2005 updated capital structure percentages. OPC witness Johnson recommends a capital structure 7 8 consisting of 67.3 percent debt and 32.7 percent equity, which was the 9 consolidated capital structure for Aquila at December 31, 2004. FEA witness 10 Gorman recommends a capital structure consisting of 55 percent debt and 45 11 percent equity, based on his comparable group average capital structure taken 12 from the September 2005 C.A. Turner Utility Report (now AUS Utility Reports). 13 Although we use the same proxy groups to estimate capital structure and ROE. 14 Mr. Gorman's capital structure differs from mine because the C.A. Turner 15 publication that he relied on includes short-term debt in its capital structure 16 amounts, while my source for the same data, Value Line, does not. I will explain 17 why Mr. Gorman's use of the C.A. Turner data is incorrect later in this testimony. 18 Q. How do Mr. Murray's. Dr. Johnson's, and Mr. Gorman's ROE 19 recommendations compare with the appropriate returns for electric utilities 20 being determined throughout the United States?

<sup>&</sup>lt;sup>1</sup> Mr. Murray's capital structure percentages as stated in his direct testimony were 63.84 percent debt and 36.16 percent equity. Based on his further evaluation of the Company's actual June 30, 2005 data, I understand that Mr. Murray will recommend a 42.47 percent equity ratio in his rebuttal testimony.

1 A. I have prepared as Rebuttal Schedule SCH-1 a summary of electric utility ROEs 2 allowed by state commissions during the past two years. The average allowed 3 ROE in during 2004 was 10.73 percent. For the first three quarters of 2005, the 4 average ROE was 10.41 percent. For the third quarter of 2005, the average 5 allowed ROE was 10.84 percent. These results show that the ROEs 6 recommended by Mr. Murray, Dr. Johnson, and Mr. Gorman are well below the 7 mainstream of recent ROEs allowed by other regulatory commissions around the 8 country. 9 Q. How has this Commission stated that it would use evidence of the ROEs 10 allowed by other state regulators in determining authorized ROEs for 11 Missouri electric utilities? 12 A. The Commission has indicated generally that, while it will not set ROEs in 13 Missouri based on returns authorized by other commissions, it will consider the 14 reasonableness of an ROE recommendation in light of the findings and decisions 15 of other regulators. In this regard, it is my understanding that the Commission has 16 also said that the national average ROE is an indicator of the capital market in 17 which Missouri utilities will have to compete for necessary capital. The 18 Commission noted in the recent Empire District Electric Company rate case (Case 19 No. ER-2004-0570) that the 11.0 percent ROE authorized for Empire District was 20 in the mainstream of national ROE decisions for that same period. As indicated 21 above, the national average electric utility ROE granted in 2004 leading up to the 22 Empire District decision was 10.73 percent. Such a reasonableness check in this 23 proceeding is particularly important, given the very low ROE recommendations

1		of the other parties and the extensive upcoming capital requirements faced by
2		MPS/L&P. MPS/L&P will need to compete against other electric utilities to raise
3		the capital needed to meet these capital requirements.
4	Q.	Did other parties give any weight to such comparisons to modify their low
5		ROE recommendations?
6	A.	No. Although Mr. Murray discusses the returns allowed by other commissions on
7		pages 39 and 40 of his testimony, and he admits that the top end of his
8		recommended range in the Empire District case was 170 basis points below the
9		ROE ultimately set by the Commission after it gave consideration to those
10		returns, he continues to give no consideration to the large differences between his
11		current ROE recommendation and the returns recently granted by other
12		commissions. Dr. Johnson gives no consideration to contemporaneous returns
13		allowed by other commissions at all in any of his ROE analyses. Mr. Gorman
14		includes state commission "authorized electric returns" in his equity risk premium
15		analysis, but his use of the data is not complete, as I will discuss later in this
16		testimony.
17	<u>s</u>	STANDARDS FOR JUDGING THE ADEQUACY OF EQUITY RETURNS
18	Q.	What standards do you propose to apply in determining which ROE
19		recommendations to accept?
20	A.	I would turn back to the standards from the Hope and Bluefield decisions that I
21		cited in my direct testimony. Looking to those standards, I ask (1) whether the
22		returns to MPS/L&P would be commensurate with returns on investments in other
23		enterprises having corresponding risks and (2) whether the returns to MPS/L&P

would be sufficient to ensure confidence in the financial integrity of the enterprise, so as to maintain its credit and to attract capital. I would not consider an ROE or overall rate of return recommendation to be adequate unless it met both of those standards.

## How have the other parties addressed these two standards?

Q.

A.

All three witnesses have presented analyses that they claim respond to the first standard – whether their recommended ROE would be commensurate with returns on investments in other enterprises having corresponding risks. As to whether the second required standard is met—that is, whether their recommended ROEs would be sufficient to ensure confidence in the financial integrity of the enterprise, so as to maintain its credit and to attract capital—only Mr. Gorman attempted to address this issue. As I will point out, had the other parties performed a financial integrity analysis, they would have found that their recommendations are inadequate.

Particularly the results from Dr. Johnson's recommendations, based on the parent company's historical capital structure, fall well below the financial metrics required for an investment grade bond rating. Similarly, even with an updated capital structure containing 42.47 percent equity, Mr. Murray's extremely low ROE range would barely touch the low end of the financial metrics required for triple-B in two categories and would fail to meet requirements altogether for a third. Mr. Gorman's analysis shows mostly weak triple-B indicators, with one metric in the double-B range for L&P. In this light, the parties' ROE

1 recommendations plainly are not consistent with and in fact are too low for 2 MPS/L&P to attain a strong investment grade bond rating. 3 THE COMPARABLE RETURN STANDARD 4 Q. The first standard you cite is whether the recommended ROE would be 5 commensurate with returns on investments in other enterprises having corresponding risks. Why are the conclusions of the witnesses so far apart 6 7 with respect to this standard? 8 A. The main disagreements relate to (1) the growth rates in our respective discounted 9 cash flow ("DCF") models and (2) the role that higher projected interest rates 10 should play in estimating ROE. In their DCF models, the other witnesses use 11 growth rates that produce unreasonably low DCF estimates. They respectively 12 rely on analysts' low near-term forecasts (Murray, Gorman) or on historical 13 growth rates that have been diminished by the electric industry's recent turmoil 14 and restructuring (Johnson), which likely bear no relationship to investors long-15 term expectations for the future. 16 Please continue. 0. 17 My higher DCF estimates result from more reasonable estimates of investors' A. 18 expected long-term growth. In my initial testimony, I supported a DCF range for 19 my reference group of 10.6 percent to 11.1 percent. I also included forecasted 20 interest rates from Standard & Poor's ("S&P") and provided a bond-vield-plus-21 risk premium analysis based on those interest rates, which confirmed my DCF 22 results. My risk premium analysis indicated an ROE of 11.0 percent, with the results from other more aggressive risk premium methods ranging from 11.2 23

percent to 11.8 percent. As I will demonstrate in more detail below, had the other witnesses more reasonably considered longer-term growth rates and had they considered consensus forecasts for much higher interest rates during the coming year, they would have seen that their ROE estimates are too low.

# Q. Why are the parties' growth rate estimates so far apart?

A.

Our growth rates are far apart because Mr. Murray, Dr. Johnson, and Mr. Gorman gave no weight to overall economic growth or to any other long-term growth rate forecasts. This oversight is particularly problematic since their DCF analyses are based strictly on the constant growth version of the DCF model. In that model a basic assumption is that the growth term "g" must equal investors' expectations for the very long-term future. Rather than attempt to meet this requirement, however, Mr. Murray and Mr. Gorman use only 3-to-5-year analysts' earnings projections and, worse, Dr. Johnson relies entirely on historical growth rates that are negatively influenced by electric utility industry events. Under current market conditions, these methods produce incorrect estimates of long-term growth.

The other parties low growth rates also stem, in part, from recent market conditions that typically have had a large negative effect on utility industry. Expected rising interest rates and recently high utility stock prices have caused utility analysts to become extremely pessimistic. As I will demonstrate later, analysts' 3-to-5-year growth forecasts are now 150 to 200 basis points (1.5% to 2.0%) lower than they were five years ago. While it is true that recent inflation and interest rates have been historically low, these near-term market conditions

1		should not be extrapolated to long-term utility growth rates as Mr. Murray, Dr.
2		Johnson, and Mr. Gorman have done.
3	Q.	Are the DCF growth rate estimates usually this far apart?
4	A.	No. Although it is typical for ROE witnesses to argue about DCF growth rates, I
5		think the other witnesses are missing a key point: <u>long-term</u> growth expectations
6		as required in the DCF model should not change greatly from year to year. Short
7		of a fundamental change in the nature of utility services, there is no reason to
8		believe that average utility growth rates expected into perpetuity will fluctuate
9		widely in projections obtained on a year-to-year basis. The other witnesses seem
10		to have missed this point because they have imputed data from the recent low
11		inflation environment and the very large drop in analysts' three-to-five-year
12		growth estimates directly into their longer-term DCF perpetual growth rates.
13		If they employed a more reasonable assumption that long-term growth
14		rates will be more stable than the short-term growth projections, they would
15		derive a significantly higher ROE than they have recommended. The stability of
16		long-term growth rates recognizes that absent major structural changes in the
17		electric utility industry, major changes in long-term (as opposed to short-term)
18		electric utility growth rates should not be expected.
19		THE ATTRACTION OF CAPITAL AND MAINTENANCE
20		OF CREDIT STANDARD
21	Q.	The second required standard you cite is whether the recommended ROE
22		would be sufficient to ensure confidence in the financial integrity of the
23		enterprise, so as to maintain its credit and to attract capital. How does this

1		standard apply to the ROE recommendations of Mr. Murray, Dr, Johnson,
2		and Mr. Gorman?
3	A.	Regardless of the technical merits of the various ROE analyses, Mr. Murray's 8.5
4		percent to 9.5 percent ROE range, Dr. Johnson's 9.95 percent ROE, and Mr.
5		Gorman's 9.8 percent ROE, if adopted, would weaken rather than support the
6		financial condition of Aquila's MPS and L&P operating divisions. Such adverse
7		consequences would be particularly inappropriate given the Company's efforts to
8		pay down debt and restore its' financial condition. Sound financial condition is
9		essential if Aquila is to finance its large construction commitments on reasonable
10		financial terms.
11	Q.	Has the Commission dealt with the maintenance of financial integrity recently
12		in another case?
13	A.	Yes. It is my understanding that in the Stipulation and Agreement entered into
14		among Kansas City Power & Light Company ("KCPL") and the intervening
15		parties regarding KCPL's "Experimental Regulatory Plan" (Case No. EO-2005-
16		0329), the Commission approved the collection of an "additional amortization
17		amount" by KCPL as necessary to preserve two out of three S&P credit ratios at a
18		level no lower than the "lower level of the top third" of the BBB targets as set by
19		S&P. This was done in recognition of KCPL's commitment to a heavy
20		construction program over the course of the upcoming five year period.
21		Clearly, with MPS/L&P also committed to a heavy construction program
22		over the next five years, as expressed in Mr. Empson's direct testimony, allowing
23		for the attainment of credit metrics at least in the mid-BBB range is of paramount

1		importance for Aquila to be able to raise capital on terms comparable to that of its
2		peer companies.
3	Q.	If the financial ratios stated by Standard & Poor's are calculated with Mr.
4		Murray's 8.5 percent to 9.5 percent ROEs, would that analysis demonstrate
5		results consistent with the stated metrics for a "BBB" rating?
6	A.	No. In the following table (and in Rebuttal Schedule SCH-2A), I set forth the
7		stated metrics for a "BBB" rating, along with the metrics for the steam operations
8		produced by the upper end of Mr. Murray's recommended 8.5 percent to 9.5
9		percent ROE range.
10		Financial Metrics (Steam) Resulting from Mr. Murray's Recommendations
11 12 13 14 15 16 17		Business Requirement 9.5% ROE  Position 6 for BBB 42.47% Equity Target Met  FFO/Interest: 3.0x – 4.2x 3.3x BBB-  FFO/Total Debt: 18% – 28% 16.5% BB+  Debt/Capitalization: 48% – 58% 57.5% BBB-  As this table shows, with Mr. Murray's proposed capital structure and even the upper end of his ROE range, only two of the required financial metrics can barely be met. Such results are not adequate to demonstrate that there is reasonable
19		support for the financial integrity of L&P's Missouri steam operations.
20		REBUTTAL TO THE ANALYSIS AND RECOMMENDATIONS OF
21		STAFF WITNESS DAVID MURRAY
22	Q.	Please begin by briefly summarizing Mr. Murray's analysis and
23		recommendations.
24	A.	Mr. Murray presents his final recommendations in a table on page 46 of his
25		testimony. In that table his DCF range is between 8.5 percent and 9.5 percent.

His table also shows "historical" CAPM results of 6.18 percent to 9.41 percent and "forward-looking" CAPM results of 6.31 percent to 7.45 percent. Based on these results he recommends that an ROE range of 8.5 percent to 9.5 percent should be applied to Aquila's June 30, 2005 consolidated capital structure containing an equity ratio of only 36.16 percent. Given the similarity of the ranges, it appears that Mr. Murray's ROE recommendation is based solely on his constant growth DCF results.

# 8 Q. How is Mr. Murray's DCF analysis structured?

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9 He applies the single-stage, constant growth DCF model to a sample of six A. 10 integrated electric utilities, which he apparently deems to be comparable to 11 MPS/L&P. His selection criteria are summarized in his Schedule 11. To be 12 included in Mr. Murray's group, companies were required to be part of the S&P 13 vertically integrated electric utility group and to be publicly traded with at least 14 ten years of available data published in the Value Line Investment Survey. 15 Companies were also required to have at least an investment grade credit rating 16 (bond rating of BBB minus or higher) and to have projected growth rates 17 published by at least two sources. The final six-company sample is listed in 18 Schedule 12. It seems highly questionable that Mr. Murray began his analysis 19 with a universe of only the eleven electric utilities contained in the S&P industry 20 group. There are at least 59 investment grade electric utilities that would have 21 been available for filtering and analysis had he simply begun with all the major 22 electric utilities followed by the Value Line Investment Survey.

# Q. How does Mr. Murray estimate the DCF model growth rate "g"?

1	A.	He reviews several growth rate indications for his six-company sample. In the
2		three pages of Schedule 13, he summarizes historical 5- and 10-year compound
3		average growth rates for per share dividends ("DPS"), earnings ("EPS"), and book
4		value ("BVPS"). His averages generally range between -2.92 percent for 5-year
5		EPS growth to a maximum of +2.33 percent for 10-year DPS growth. Although
6		the difference is immaterial in the present case, Mr. Murray's compound
7		averaging approach is incorrect because it systematically understates the expected
8		value of data and, therefore, further understates expected future growth rates. At
9		page 27, Mr. Murray says that he then averages the historical growth rates
10		(virtually zero) with an average projected growth rate of 4.16 percent to produce a
11		combined average of historical and projected growth of 2.29 percent. He also
12		says, however, that "[a]ll the growth rates were then analyzed to arrive at a
13		growth rate range for the comparables of 3.90 percent to 4.90 percent." (Murray at
14		27, lines 12-13.)
15	Q.	What is the source of Mr. Murray's 3.90 percent to 4.90 percent growth rate
16		range?
17	A.	In Schedule 14, Mr. Murray summarizes 3-to-5-year projected EPS growth
18		estimates from IBES, S&P, and Value Line. The averages of those estimates for
19		Mr. Murray's six-company sample range from 3.73 percent for IBES to 4.92
20		percent for Value Line. From these data, it appears that Mr. Murray's 3.90
21		percent to 4.90 percent growth rate range is based on his subjective rounding of
22		the projected 3-to-5-year EPS growth rate range.

1	Q.	Does Mr. Murray give any consideration to other more broadly based
2		sources for estimating investors' long-term growth rate expectations?
3	A.	No.
4	Q.	Does Mr. Murray provide any analysis to show whether analysts' growth
5		rate projections for EPS are stable over time or that such growth rate
6		projections are indicative of investors' very long-term expectations as
7		required in the constant growth DCF model?
8	A.	No.
9	Q.	Does Mr. Murray offer any alternative versions of the DCF model, such as
10		those that apply a multi-stage growth approach to capture the possibility of
11		higher expected growth rates further into the future?
12	A.	No.
13	Q.	How do you characterize Mr. Murray's sole reliance on the constant growth
14		version of the DCF model with growth rates based only on 3-to-5-year
15		analysts' EPS growth estimates for estimating ROE?
16	A.	His approach is not adequate.
17	Q.	Why is Mr. Murray's approach not adequate?
18	A.	In additional to the concerns noted about Mr. Murray's small sample size, his
19		constant growth DCF approach with growth based only on 3-to-5-year analysts'
20		EPS growth projections is not adequate because such near-term growth
21		projections are not good estimates of investors' long-term growth rate
22		expectations. This fact is supported by sound academic research as well as
23		simple, common sense observation of available economic data.

### 1 O. Please describe the academic research that you are referring to. 2 A. For long time periods, such as those required in the constant growth DCF model, the general growth rate in the U.S. economy as measure by nominal growth in 3 gross domestic product ("GDP") has averaged between 6 percent and 8 percent 4 5 per year. From this observation, Professors Brigham, Gapenski, and Ehrhardt 6 offer the following observation concerning the appropriate long-term growth rate 7 in the DCF Model: 8 Expected growth rates vary from company to company, but 9 dividend growth on average is expected to continue in the 10 foreseeable future at about the same rate as that of the nominal gross domestic product (real GDP plus inflation). On this basis, 11 one might expect the dividend of an average, or "normal," 12 13 company to grow at a rate of 6 to 8 percent a year. (Brigham, 14 Gapenski, and Ehrhardt, Financial Management, 9th Ed., page 15 335.) 16 Other academic research on corporate growth rates offers similar conclusions 17 about GDP growth as well as concerns about the long-term adequacy of analysts' 18 forecasts: 19 Our estimated median growth rate is reasonable when compared to 20 the overall economy's growth rate. On average over the sample 21 period, the median growth rate over 10 years for income before 22 extraordinary items is about 10 percent for all firms. ... After 23 deducting the dividend yield (the median yield is 2.5 percent per 24 year), as well as inflation (which averages 4 percent per year over 25 the sample period), the growth in real income before extraordinary 26 items is roughly 3.5 percent per year. This is consistent with the historical growth rate in real gross domestic product, which has 27 28 averaged about 3.4 percent per year over the period 1950-1998. 29 (Louis K. C. Chan, Jason Karceski, and Josef Lakonishok, "The Level and Persistence of Growth Rates," The Journal of Finance, 30 31 April 2003, p. 649) 32 IBES long-term growth estimates are associated with realized 33 growth in the immediate short-term future. Over long horizons, 34 however, there is little forecastablility in earnings, and analysts' 35 estimates tend to be overly optimistic. ... On the whole, the

1 absence of predictability in growth fits in with the economic 2 intuition that competitive pressures ultimately work to correct 3 excessively high or excessively low profitability growth. 4 page 683) 5 These findings support the notion that long-term growth expectations are more 6 closely predicted by broader measures of economic growth than by near-term 7 analysts' estimates. Especially for the very long-term growth rate requirements of 8 the DCF model, the growth in nominal GDP should be considered an important 9 input. 10 How have analysts' three-to-five year growth projections changed in recent Q. 11 years? 12 A. Current analysts' growth projections are much lower than they were just four 13 years ago. In Rebuttal Schedule SCH-4, I compare analysts' current growth 14 projections for the 27-companies in my updated comparable group to growth rates 15 that were projected for those same companies in 2001. In its editions covering 16 electric utilities during 2001, Value Line projected three-to-five year earnings per 17 share growth of 6.8 percent per year. In the 2005 editions, Value Line projects 18 three-to-five year earnings growth of only 4.3 percent per year. Results are 19 similar for the sustainable growth "b" times "r" estimation method where the 20 average growth rate in 2001 was 5.6 percent as compared to 3.7 percent in 2005. 21 Such dramatic changes in growth rates seem unlikely in estimates that might be 22 used to measure the long-term growth rate as required in the DCF model. These 23 results strongly support using more general long-term economic growth rates, 24 such as GDP, in the DCF model.

1	Q.	would it have been difficult for Mr. Murray to consider a broader based
2		estimate of longer-term investor growth rate expectations?
3	A.	No. Long-term growth rate data are readily available as I pointed out in my direct
4		testimony.
5	Q.	How did you estimate the expected long-run GDP growth rate?
6	A.	I developed my long-term GDP growth forecast from nominal GDP data
7		contained in the St. Louis Federal Reserve Bank data base. That data for the
8		period 1947 through 2004 is summarized in my Rebuttal Schedule SCH-5. As
9		shown at the bottom of that exhibit, the average growth rate for the entire period
10		was 7.1 percent. The data also show, however, that in the more recent years since
11		1980, lower inflation has resulted in lower overall GDP growth. For this reason I
12		gave more weight to the more recent years in my GDP forecast. This approach is
13		consistent with the concept that more recent data should have a greater effect on
14		expectations and with generally lower near- and intermediate-term growth rate
15		forecasts that presently exist. Based on this approach, my overall forecast for
16		long-term GDP growth is 6.6 percent.
17	Q.	If Mr. Murray had used a 6.6 percent growth rate in his DCF analysis, what
18		would his results have been?
19	A.	In Rebuttal Schedule SCH-6, I have reproduced Mr. Murray's summary DCF
20		exhibit (Murray Schedule 16) with the 6.6 percent growth rate substituted for his
21		growth rate range. With an average dividend yield of 4.6 percent for Mr.
22		Murray's comparable group, the estimated ROE is 11.2 percent (4.6% dividend
23		yield plus 6.6% growth = 11.2% ROE).

1 2	-	REBUTTAL TO THE ANALYSIS AND RECOMMENDATIONS OF OPC WITNESS BEN JOHNSON
3	Q.	Please summarize the ROE and capital structure recommendations of Dr.
4		Johnson.
5	A.	Dr. Johnson recommends using the Aquila consolidated capital structure at
6		December 31, 2004 which consists of 67.3 percent debt and 32.7 percent equity.
7		He accepts the debt cost rates as proposed by the Company. He performs two
8		ROE analyses: The first is a Comparable Earnings Analysis which produces a
9		recommended ROE range of 10.0 percent to 11.5; the second is a Market
10		Approach which yields a recommended ROE range of 8.4 percent to 9.9 percent.
11		He averages the two midpoints from these ranges, 10.75 percent and 9.15 percent,
12		to arrive at his final ROE recommendation of 9.95 percent.
13	Q.	What comments do you have concerning the capital structure
14		recommendation of Dr. Johnson?
15	A.	I disagree with Dr. Johnson's capital structure recommendation for a number of
16		reasons. First, his capital structure recommendation effectively ignores all of the
17		progress that the Company has made to improve its equity ratio in 2005. His
18		recommended capital structure based on Aquila consolidated data from December
19		31, 2004 includes only 32.7% equity. This contrasts sharply with the direction
20		that the Company has taken in the recent months to improve its equity position. It
21		has sold assets and used the proceeds to retire debt. At June 30, 2005, the actual
22		Aquila consolidated capital structure consisted of 42.47 percent equity. At
23		September 30, 2005, the equity ratio was 42.03 percent. As provided in its
24		response to Data Request No. MPSC-0449, the Company is projecting a capital

structure at year end 2006 with 50.3 percent equity. Dr. Johnson's recommendation is not reasonable given this tangible improvement that the Company has made in shoring up its financial condition.

Furthermore, his capital structure recommendation is not consistent with his ROE analysis. In his Market Analysis ROE approach, he used the same comparable group of electric utilities that I used. The average equity ratio for this group is 48.2% for year-end 2004 and 52.8% when projected for the next three to five years by Value Line. By using an ROE from his comparable group, but then recommending an equity ratio which is dramatically below the group's average, he has created a mismatch which further reduces the credibility of his recommendation. The capital structure recommendation must be consistent with the comparable group ROE analysis or a risk adjustment is necessary. That is, if the recommended equity level is drastically below that of the proxy group, the ROE from the group must be adjusted upward to account for this additional financial risk. Since Dr. Johnson did not make such a risk adjustment, his analysis understates the cost of capital.

# Q. What comments do you have concerning Dr. Johnson's ROE

## recommendation?

A.

While I generally do not support the comparable earnings approach as a primary ROE estimation method, the result of Dr. Johnson's Comparable Earnings

Analysis, an ROE range of 10.0 percent to 11.5 percent, is not entirely unreasonable. Comparable earnings methodologies are suspect because there is no guarantee that book returns equal market required returns and book returns are

very sensitive to accounting adjustments. Furthermore, the approach taken by Dr. Johnson borders on the arbitrary and subjective. First, he studied the return on average common equity earned by unregulated firms. Specifically, he analyzed the earned returns for the Federal Trade Commission's "All Manufacturers" group and for a range of industries (over 900 firms) monitored by *Business Week*. From this data, he comes up with an ROE range of 11.5 percent to 13.0 percent for a typical unregulated firm. From this, he jumps to the conclusion that the typical electric utility has an ROE in the range of 9.75 percent to 10.75 percent and then makes another leap to the conclusion that the appropriate ROE for Aquila's MPS and L&P operating divisions is 10.0 percent to 11.5 percent. All of these presumptions are based primarily on subjective and non-quantified risk factors. The final result ends up based mostly Dr. Johnson's opinion and judgment with little numeric support.

Dr. Johnson's other ROE methodology, the Market Analysis approach, produces results which are below the range of reasonableness. Technically, his Market Analysis consists of two parts: : 1) an observation of historical market returns earned by equity investors and 2) a DCF analysis. He goes to great lengths to analyze historic market returns from data provided by Ibbotson Associates and does ultimately conclude that, over long periods of time, equity investors in the average large unregulated company require a return in the neighborhood of 12.5 percent. However, this data point is only used by Dr. Johnson to somewhat arbitrarily expand his much lower DCF results from a range

of 8.0 percent to 9.0 percent to a range of 8.0 percent to 9.5 percent with no further discussion.

For the most part, Dr. Johnson's Market Analysis consists of his DCF analysis. Here he develops a dividend yield range of 5.0 percent to 5.5 percent and adds growth of 3.0 percent to 3.5 percent to generate an ROE range of 8.0 percent to 9.0 percent. After consideration of the Ibbotson data discussed earlier and a flotation cost factor of 0.4 percent, Dr. Johnson's final DCF range for ROE is 8.4 percent to 9.9 percent.

# Q. Are there deficiencies in Dr. Johnson's DCF analysis?

A.

Yes. Dr. Johnson's DCF analysis is deficient in a number of important areas. First, he considers only historical growth rates in his DCF analysis. While he readily admits that "it is investor *expectations* about the future, not past results, that are most relevant in developing a DCF analysis" (Johnson at 35), he relies exclusively on past results in deriving his DCF growth rates. The historical time period that he relies on in his analysis, 1995-2004, is a period beset by gigantic upheaval in the electric utility industry. Unprecedented turmoil caused by deregulation, restructuring, and enhanced competition has negatively impacted the growth rates during the very time periods used by Dr. Johnson. It is not appropriate for him to extrapolate growth rates derived from this period into perpetuity, as required by the DCF model.

Q. If Dr. Johnson had used your GDP-based growth forecast of 6.6 percent growth rate in his DCF analysis, what would his results have been?

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Q. Please summarize the ROE and capital structure recommendations of Mr.

2	Gorman

and ROE.

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3 A. Mr. Gorman recommends a capital structure for Aquila that consists of 45 percent 4 equity and 55 percent debt. He proposes an ROE of 9.8 percent for the Company. 5 Q. Is anything wrong with Mr. Gorman's capital structure recommendation? 6 A. Yes. Mr. Gorman and I take similar approaches in our capital structure analysis 7 in that we derive our capital structure recommendation from the same comparable 8 group that we use to determine ROE. As Mr. Gorman states, this ensures the 9 "proxy group's capital structure is consistent with the financial and operating risk 10 reflected in my return on equity for Aquila and applied to that same capital 11 structure" (Gorman at 15). As discussed earlier, Mr. Murray, and especially Dr. 12 Johnson, miss this point that there must be a match between the capital structure

The problem with Mr. Gorman's analysis, however, is that he overstates the debt portion of the capital structure by including short-term debt. Short-term debt is not part of Aquila's permanent capital base and should not be reflected in its capital structure percentages for ratemaking purposes. By improperly including short-term debt, Mr. Gorman's approach unfairly shifts lower short-term debt costs to capital which rightfully should be allowed to earn the cost of equity, and virtually guarantees that the Company will not be able to earn its authorized rate of return. If short-term debt is removed from his data, his capital structure recommendation would be the same as mine.

1 Q. Mr. Gorman implies that his capital structure will better match Aquila's 2 capital structure during the time that rates from this case will be in effect. 3 Do you agree? 4 No. Mr. Gorman states (at page 12) that his "proposed capital structure is a better A. 5 projection of Aquila's actual capital structure during the period rates determined 6 in this proceeding will be in effect." He goes on to say (at page 13) that his 7 "proposed capital structure is more in line with Value Line's projected capital 8 structure for Aquila during the next three to five years." I dispute these 9 statements for two reasons. One, according to the Company's response to Data 10 Request No. MPSC-0449, by year-end 2006 which falls directly during the time 11 that rates from this case will be in effect, the Company's consolidated capital 12 structure will consist of 50.3 percent equity and 49.7 percent debt. Second, Value 13 Line's proposed capital structure for Aquila during the next three to five years 14 includes 49.5 percent equity and 50.5 percent debt. Mr. Gorman's recommended 15 capital structure includes only 45 percent equity. Clearly, my proposal which 16 reflects 48.2 percent equity, is much more in line with the Company's capital 17 structure as it will exist during the time that rates from this proceeding are in 18 place. 19 Do you have disagreements with Mr. Gorman's ROE analysis and 0. 20 recommendation? 21 A. Yes. First, I find it interesting that Mr. Gorman's ROE recommendation in this 22 case, at 9.8 percent, is exactly the same recommendation that he is making for 23 PacifiCorp's Washington utility in testimony he filed recently before the

Washington Utilities and Transportation Commission in Docket Nos. UE-050684/UE-050412. PacifiCorp is essentially a single-A rated utility while Aquila is a single-B rated utility, although its credit standing is improving and rates are being set for its regulated operations using a triple-B target.

Nonetheless, it seems that Mr. Gorman should have recognized some level of ROE differential between these two cases, but for some reason, he did not.

Mr. Gorman performs three underlying analyses before reaching his final ROE recommendation. From his constant growth DCF analysis, he derives an 8.6 percent ROE. On its face, this result is below the range of reasonableness. With triple-B interest rates expected to reach 6.65 percent over the next year, his constant growth result implies an equity risk premium of only 1.95 percent (8.6%-6.65%=1.95%). This result is below any reasonable equity risk premium level. I believe he should have rejected such low constant growth results out of hand.

# Q. Why are his DCF results so low?

A.

The primary reason that Mr. Gorman achieved such low DCF results can be traced to his sole reliance on analysts' estimates in determining the growth rate component of the DCF model. He gave no weight to overall economic growth or to any other long-term growth rate forecasts. As I stated earlier, this oversight is particularly problematic since his DCF analyses is entirely restricted to the constant growth version of the DCF model. In that model a basic assumption is that the growth term "g" must equal investors' expectations for the very long-term future. Rather than attempt to meet this requirement, however, Mr. Gorman uses only 3-to-5-year analysts' earnings projections. Under current market conditions,

1		these methods produce incorrect estimates of long-term growth. Again, as stated
2		previously, rising interest rates and recently high utility stock prices have caused
3		utility analysts to become extremely pessimistic. These near-term market
4		conditions should not be extrapolated to long-term utility growth rates as Mr.
5		Gorman has done.
6	Q.	If Mr. Gorman had used your GDP-based growth forecast of 6.6 percent
7		growth rate in his DCF analysis, what would his results have been?
8	A.	In Rebuttal Schedule SCH-8, I have reproduced Mr. Gorman's summary DCF
9		exhibit (Schedule MPG-5) with the 6.6 percent growth rate substituted for his
10		growth rate range. With an average dividend yield of 4.6 percent for Mr.
11		Gorman's comparable group, the estimated ROE is 11.2 percent (4.56% dividend
12		yield plus 6.6% growth = 11.16% ROE).
13	Q.	Please comment on Mr. Gorman's risk premium ROE analysis.
14	A.	His risk premium analysis contains serious inconsistencies that, when corrected,
15		produces higher results.
16	Q.	Please elaborate.
17	A.	Mr. Gorman's risk premium analysis consists of two parts. In one approach he
18		adds an equity risk premium range of 4.4 percent to 5.7 percent to a projected 20-
19		year Treasury bond yield of 5.2%. This results in a risk premium estimate of 9.6
20		percent to 10.9 percent, with a midpoint estimate at 10.3 percent. In his second
21		approach, he adds a risk premium range of 3.0 percent to 4.0 percent to a current
22		single-A utility bond yield of 5.79 percent. This produces an equity return
23		estimate in the range of 8.8 percent to 9.8 percent, with a midpoint of 9.3 percent.

1		The first inconsistency in Mr. Gorman's risk premium analysis is obvious.
2		He uses projected rates in one part, and current rates in the other. That his 20-
3		year Treasury bond yield of 5.2 percent is relatively close to his single-A utility
4		bond yield of 5.79 percent, when the spread between very low risk Treasury
5		bonds and higher risk utility bonds is typically at least 1.0 percent, highlights the
6		mismatch in his analysis. In addition, he should have used triple-B utility bonds
7		as his starting point, rather than single-A, to better match Aquila's specific
8		circumstance. Finally, he does not explain why his spread over utility bond rates
9		is now 3.0 percent to 4.0 percent when in the PacifiCorp Washington case
10		mentioned earlier he used a range of 3.0 percent to 4.5 percent.
11	Q.	What results do you obtain when you correct the inconsistencies in Mr.
12		Gorman's risk premium analysis?
13	A.	To match his projected Treasury bond rate, I have redone his risk premium
14		analysis using projected utility bond rates. In my risk premium analysis, I used
15		projected triple-B utility bond rates of 6.65 percent. Combining this rate with his
16		PacifiCorp Washington risk premium of 3.0 percent to 4.5 percent yields a cost of
17		equity range of 9.65 percent to 11.15 percent, with a midpoint of 10.4 percent.
18		His overall range now becomes 10.4 percent to 10.3 percent (from the Treasury
19		bond risk premium analysis discussed above), with a midpoint ROE of 10.35
20		percent.
21	Q.	In his risk premium analysis, Mr. Gorman fails to make an adjustment to
22		account for the inverse relationship between equity risk premiums and
23		interest rate levels. How do you respond?

1	A.	I am surprised that Mr. Gorman's did not make this adjustment because he has		
2		recognized the validity of such an adjustment in previous cases in which he has		
3		testified. On page 15, lines 10-13 of Public Utility of Commission of Texas		
4		Docket No. 14965 Mr. Gorman states:		
5 6 7 8		The results of my study indicate an inverse relationship between a bond's real return and the equity risk premium. This result is consistent with the findings of published studies which indicate equity risk premiums move inversely with interest rates.		
9		Had Mr. Gorman made a similar adjustment in this case, his risk premium results		
10		would have indicated much higher ROEs than what he obtained.		
11	Q.	Mr. Gorman criticizes you for using projected interest rate data in your		
12		analyses. How do you respond?		
13	A.	I find Mr. Gorman's criticisms on this point to be questionable. He, of course,		
14		also used projected interest rate data in his risk premium analysis. I think we both		
15		recognize that interest rates are projected to increase over the time that rates from		
16		this case will be in effect and that this important trend should be factored into our		
17		ROE analyses.		
18	Q.	Please summarize the adjustments that you have made to Mr. Gorman's		
19		ROE analyses.		
20	A.	The following table, like the one presented by Mr. Gorman on page 28 of his		
21		direct testimony summarizes my adjustments to his ROE analyses.		

1		Table 2 (Revised)				
2		Return on Common Equity Summary				
2 3						
4		Description	Percent			
5		Constant Growth DCF	11.2%			
6		Risk Premium	10.35%			
7		CAPM	10.3%			
8		ROE Range	10.3%-11.2%			
9		Midpoint	<u>10.75%</u>			
10		ROE UPDATE				
11	Q.	Has your ROE recommendation changed s	ince the original filing of this			
12		case?				
13	A.	No. In Rebuttal Schedules SCH-8 through SC	CH-10, I present an update to the			
14		DCF and risk premium analyses that I first presented in my prefiled testimony in				
15		this case. These schedules confirm that my original ROE recommendation of				
16		11.0 percent, plus a 50 basis point risk adder,	for a final recommendation of 11.5			
17		percent is still appropriate for Aquila at the pr	resent time.			
18	Q.	Does this conclude your rebuttal testimony	?			
19	A.	Yes, it does.				

# Aquila Missouri Authorized Electric Utility Equity Returns

	2004	2005
1st Quarter	11.00%	10.44%
2nd Quarter	10.50%	10.06%
3rd Quarter	10.33%	10.84%
4th Quarter	10.91%	
Full Year	10.73%	10.41%

Source: Regulatory Focus, Regulatory Research Associates, Inc., Major Rate Case Decisions, July 6, 2005; October, 2005.

(\$ unless otherwise noted)

Staff Case 1: 42.47% Equity Ratio, 8.5% ROE

	SJLP Retail	MPS Retail	Steam
Revenue Requirement	Jurisdictional	Jurisdictional	Jurisdictional (1)
Rate Base	166,730,120	811,021,117	6,402,518
ROE	8.50%	8.50%	8.50%
Equity Ratio	42.47%	42.47%	42.47%
Debt Ratio	57.53%	57.53%	57.53%
Cost of Debt	7.281%	7.281%	7.281%
Income Tax Rate	38.39%	38.39%	38.39%
WACC	7.80%	7.80%	7.80%
Funds from Operations (FFO)/Total Debt			
Net Income Requested	6,018,874	29,277,457	231,128
Regulatory Disallowances (after-tax)	0	0	0
Depreciation & Amortization	10,590,868	45,093,321	353,427
Deferred Taxes & ITC	(1,185,836)	663,424	(4,003)
Funds from Operations (FFO)	15,423,906	75,034,202	580,552
Long-Term Debt	95,919,838	466,580,449	3,683,369
FFO/Total Debt	16.08%	16.08%	15.76%
Implied S&P Bond Rating (Business Position: 6)	ВВ	ВВ	ВВ
Funds from Operations (FFO) Interest Coverage			
Funds from Operations (FFO)	15,423,906	75,034,202	580,552
Interest Expense	6,983,923	33,971,722	268,186
FFO Interest Coverage	3.21	3.21	3.16
Implied S&P Bond Rating (Business Position: 6)	BBB	BBB	BBB
Total Debt/Total Capital			
Total Debt/Total Capital	57.53%	57.53%	57.53%
Implied S&P Bond Rating (Business Position: 6)	BBB	BBB	BBB

<sup>(1)</sup> Per MPSC EMS Run as of 11/15/05

(\$ unless otherwise noted)

Staff Case 2: 42.47% Equity Ratio, 9.0% ROE

	SJLP Retail	MPS Retail	Steam
Revenue Requirement	Jurisdictional	Jurisdictional	Jurisdictional (1)
Rate Base	166,730,120	811,021,117	6,402,518
ROE	9.00%	9.00%	9.00%
Equity Ratio	42.47%	42.47%	42.47%
Debt Ratio	57.53%	57.53%	57.53%
Cost of Debt	7.281%	7.281%	7.281%
Income Tax Rate	38.39%	38.39%	38.39%
WACC	8.01%	8.01%	8.01%
Funds from Operations (FFO)/Total Debt			
Net Income Requested	6,372,925	30,999,660	244,723
Regulatory Disallowances (after-tax)	0	0	0
Depreciation & Amortization	10,590,868	45,093,321	353,427
Deferred Taxes & ITC	(1,185,836)	663,424	(4,003)
Funds from Operations (FFO)	15,777,957	76,756,405	594,147
Long-Term Debt	95,919,838	466,580,449	3,683,369
FFO/Total Debt	16.45%	16.45%	16.13%
Implied S&P Bond Rating (Business Position: 6)	ВВ	ВВ	BB
Funds from Operations (FFO) Interest Coverage			
Funds from Operations (FFO)	15,777,957	76,756,405	594,147
Interest Expense	6,983,923	33,971,722	268,186
FFO Interest Coverage	3.26	3.26	3.22
Implied S&P Bond Rating (Business Position: 6)	ВВВ	BBB	BBB
Total Debt/Total Capital	_		
Total Debt/Total Capital	57.53%	57.53%	57.53%
Implied S&P Bond Rating (Business Position: 6)	BBB	BBB	BBB

<sup>(1)</sup> Per MPSC EMS Run as of 11/15/05

(\$ unless otherwise noted)

Staff Case 3: 42.47% Equity Ratio, 9.5% ROE

	SJLP Retail	MPS Retail	Steam
Revenue Requirement	Jurisdictional	Jurisdictional	Jurisdictional (1)
Rate Base	166,730,120	811,021,117	6,402,518
ROE	9.50%	9.50%	9.50%
Equity Ratio	42.47%	42.47%	42.47%
Debt Ratio	57.53%	57.53%	57.53%
Cost of Debt	7.281%	7.281%	7.281%
Income Tax Rate	38.39%	38.39%	38.39%
WACC	8.22%	8.22%	8.22%
Funds from Operations (FFO)/Total Debt			
Net Income Requested	6,726,977	32,721,863	258,319
Regulatory Disallowances (after-tax)	0	0	0
Depreciation & Amortization	10,590,868	45,093,321	353,427
Deferred Taxes & ITC	(1,185,836)	663,424	(4,003)
Funds from Operations (FFO)	16,132,009	78,478,608	607,743
Long-Term Debt	95,919,838	466,580,449	3,683,369
FFO/Total Debt	16.82%	16.82%	16.50%
Implied S&P Bond Rating (Business Position: 6)	ВВ	ВВ	ВВ
Funds from Operations (FFO) Interest Coverage			
Funds from Operations (FFO)	16,132,009	78,478,608	607,743
Interest Expense	6,983,923	33,971,722	268,186
FFO Interest Coverage	3.31	3.31	3.27
Implied S&P Bond Rating (Business Position: 6)	BBB	BBB	BBB
Total Debt/Total Capital			
Total Debt/Total Capital	57.53%	57.53%	57.53%
Implied S&P Bond Rating (Business Position: 6)	BBB	BBB	BBB

<sup>(1)</sup> Per MPSC EMS Run as of 11/15/05

(\$ unless otherwise noted)

OPC Case: 32.69% Equity Ratio, 9.95% ROE

	SJLP Retail	MPS Retail
Revenue Requirement	<b>Jurisdictional</b>	Jurisdictional
Rate Base	184,923,562	787,042,122
ROE	9.95%	9.95%
Equity Ratio	32.69%	32.69%
Debt Ratio	67.31%	67.31%
Cost of Debt	7.963%	6.700%
Income Tax Rate	38.39%	38.39%
WACC	8.61%	7.76%
Funds from Operations (FFO)/Total Debt		
Net Income Requested	6,014,925	25,599,765
Regulatory Disallowances (after-tax)	0	0
Depreciation & Amortization	11,696,560	49,700,285
Deferred Taxes & ITC	(745,986)	(789,138)
Funds from Operations (FFO)	16,965,499	74,510,912
Long-Term Debt	124,472,050	529,758,052
FFO/Total Debt	13.63%	14.07%
Implied S&P Bond Rating (Business Position: 6)	BB	ВВ
Funds from Operations (FFO) Interest Coverage		
Funds from Operations (FFO)	16,965,499	74,510,912
Interest Expense	9,911,709	35,493,790
FFO Interest Coverage	2.71	3.10
Implied S&P Bond Rating (Business Position: 6)	ВВ	BBB
Total Debt/Total Capital		
Total Debt/Total Capital	67.31%	67.31%
Implied S&P Bond Rating (Business Position: 6)	В	В

**Aquila Missouri** 

Comparison of Comparable Group Projected Growth Rates 2001 to 2005

% Points 3.4% 3.1% 3.0% 3.4% 3.1% 5.4% 4.2% 2.1% 3.9% 2.0% 7.0% 3.8% 1.4% 4.6% 5.7% 4.7% 3.0% 3.8% 2.6% 3.3% 4.6% 4.1% 3.4% Value Line "br" 3.7% 6.1% 6.9% 5.1% 5.9% 5.3% 7.3% 8.2% 3.6% 6.4% 8.1% 7.6% 5.4% 4.2% 8.1% 6.5% 80.9 6.6% 2.4% 4.6% 3.8% 7.0% 2.6% 3.1% 4.0% ₹ American Elec. Pwr. Cent. Vermont P.S CH Energy Group Cleco Corporation Green Mtn. Power Puget Energy, Inc. Energy East Corp. Alliant Energy Co. MGE Energy, Inc. Hawaiian Electric Progress Energy DTE Energy Co. **Duquesne Light** FPL Group, Inc. Xcel Energy Inc **Empire District** Pinnacle West Westar Energy SCANA Corp. NiSource Inc. Vectren Corp. Southern Co. Con. Edison FirstEnergy CINERGY No. Company Ameren NSTAR Average 2 5 9 7 <u>∞</u> <u>o</u> 24 4 % Points Decline 2.4% 10.0% 0.5% 1.5% 8.5% 3.0% 5.0% 4.5% 7.5% 3.5% 4.5% 2.0% 4.0% 2.5% 6.0% 2.5% 2.5% 3.5% 5.5% 4.5% /alue Line Earnings 4.0% 4.0% ₹ 18.0% 16.0% 5.0% 80.9 8.0% 2.5% 8.5% -1.5% 15.5% 5.0% 3.5% 4.5% 5.0% 6.5% 2.0% 4.0% 8.0% 5.5% 6.5% 80.9 8.9% ₹ ₹ ₹ American Elec. Pwr. Cent. Vermont P.S. Cleco Corporation CH Energy Group Puget Energy, Inc. Alliant Energy Co. Energy East Corp. Green Mtn. Power MGE Energy, Inc. Hawaiian Electric Progress Energy FPL Group, Inc. DTE Energy Co. **Duquesne Light** Xcel Energy Inc. **Empire District** Pinnacle West Westar Energy SCANA Corp. Vectren Corp. NiSource Inc. Con. Edison Southern Co. FirstEnergy CINERGY No. Company Ameren **NSTAR** Average  $\infty$ <u>ග</u>

Data Sources:

Electric: Value Line Investment Survey, Electric Utility (East), Sep 2, 2005 & Sep 7, 2001;

Decline 2.0%

(Central), Sep 30, 2005 & Oct 5, 2001; (West), Nov 11, 2005 & Nov 16, 2001.

### Aquila Missouri Long-Term GDP Growth

1947   250.0   15.8   22.5   1948   271.6   8.7%   16.5   4.6%   24.1   7.0%   1949   268.6   -1.1%   16.3   -1.3%   23.8   -1.3%   1950   307.3   14.4%   16.9   3.6%   24.2   1.9%   1951   344.9   12.3%   17.8   5.5%   26.1   7.6%   1952   365.1   5.9%   18.1   1.7%   26.6   2.0%   1953   378.6   3.7%   18.3   1.1%   26.8   0.8%   1954   387.2   2.3%   18.5   0.9%   26.9   0.2%   1955   421.2   8.8%   18.9   2.3%   26.8   -0.2%   1955   421.2   8.8%   18.9   2.3%   26.8   -0.2%   1956   444.7   5.6%   19.6   3.6%   27.3   1.7%   1957   460.3   3.5%   20.2   3.0%   28.2   3.4%   1958   477.6   3.8%   20.6   2.1%   28.9   2.5%   1959   514.5   7.7%   20.8   1.1%   29.2   1.0%   1960   526.6   2.4%   21.1   1.4%   29.6   1.5%   1961   556.7   5.7%   21.4   1.2%   29.9   0.9%   1962   592.2   6.4%   21.1   1.2%   29.9   0.9%   1962   592.2   6.4%   21.6   1.2%   30.3   1.3%   1964   675.2   7.2%   22.2   1.6%   31.1   1.3%   1965   737.9   9.3%   22.7   1.9%   31.6   1.7%   1965   737.9   9.3%   22.7   1.9%   31.6   1.7%   1966   799.6   8.4%   23.4   3.1%   32.6   3.1%   1967   848.1   6.1%   24.1   3.2%   33.5   2.7%   1969   998.7   7.4%   26.5   5.2%   39.9   5.6%   1971   150.2   8.6%   29.2   4.9%   40.6   4.1%   1972   1274.5   10.8%   30.5   4.2%   41.9   3.3%   1974   150.2   8.6%   29.2   4.9%   40.6   4.1%   1975   1689.0   10.3%   36.6   8.2%   54.1   3.3%   1977   203.6   11.6%   43.4   6.5%   61.0   6.6%   1975   1689.0   10.3%   36.6   8.2%   54.1   3.3%   1984   4010.7   10.1%   68.2   3.7%   104.2   4.3%   1985   304.1   4.5%   60.0%   73.7   2.8%   11.0   6.8%   29.2   4.9%   40.6   4.1%   1976   1880   30.2   11.9%   30.5   1.2%   1977   203.6   11.6%   43.4   6.5%   61.0   6.6%   6.8%   1978   4.8%   4.8%   4.9		Nominal GDP	% Change	GDP Price Deflator	% Change	СРІ	% Change
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1967       848.1       6.1%       24.1       3.2%       33.5       2.7%         1968       998.7       7.4%       26.5       5.2%       36.9       5.6%         1970       1058.8       6.0%       27.9       5.2%       39.0       5.8%         1971       1150.2       8.6%       29.2       4.9%       40.6       4.1%         1972       1274.5       10.8%       30.5       4.2%       41.9       3.3%         1973       1410.6       10.7%       32.4       6.4%       44.8       6.8%         1974       1530.7       8.5%       35.6       9.9%       49.8       11.2%         1975       1687.0       10.3%       38.6       8.2%       54.1       8.7%         1975       1687.0       10.5%       40.8       5.7%       57.2       5.7%         1976       1867.0       10.5%       40.8       5.7%       57.2       5.7%         1977       2083.6       11.6%       43.4       6.5%       61.0       6.6%         1978       2373.3       13.9%       46.6       7.3%       65.7       7.8%         1979       2628.5       10.8%       50.8							
1968       930.2       9.7%       25.2       4.5%       34.9       4.3%         1969       998.7       7.4%       26.5       5.2%       36.9       5.6%         1970       1058.8       6.0%       27.9       5.2%       39.0       5.8%         1971       1150.2       8.6%       29.2       4.9%       40.6       4.1%         1972       1274.5       10.8%       30.5       4.2%       41.9       3.3%         1973       1410.6       10.7%       32.4       6.4%       44.8       6.8%         1974       1530.7       8.5%       35.6       9.9%       49.8       11.2%         1975       1689.0       10.3%       38.6       8.2%       54.1       8.7%         1976       1867.0       10.5%       40.8       5.7%       57.2       5.7%         1977       2083.6       11.6%       43.4       6.5%       61.0       6.6%         1977       2083.5       10.8%       50.6       8.7%       73.4       11.6%         1980       2373.3       13.9%       46.6       7.3%       65.7       7.8%         1978       23304.1       4.5%       63.4	1967	848.1	6.1%				
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1971 1150.2 8.6% 29.2 4.9% 40.6 4.1% 1972 1274.5 10.8% 30.5 4.2% 41.9 3.3% 1973 1410.6 10.7% 32.4 6.4% 44.8 6.8% 1974 1530.7 8.5% 35.6 9.9% 49.8 11.2% 1975 1689.0 10.3% 38.6 8.2% 54.1 8.7% 1976 1867.0 10.5% 40.8 5.7% 57.2 5.7% 1977 2083.6 11.6% 43.4 6.5% 61.0 6.6% 1978 2373.3 13.9% 46.6 7.3% 65.7 7.8% 1979 2628.5 10.8% 50.6 8.7% 73.4 11.6% 1980 2871.4 9.2% 55.4 9.4% 83.2 13.3% 1981 3162.0 10.1% 60.1 8.6% 91.5 10.1% 1982 3304.1 4.5% 63.4 5.5% 96.8 5.8% 1983 3643.4 10.3% 65.8 3.7% 99.9 3.2% 1984 4010.7 10.1% 68.2 3.7% 104.2 4.3% 1985 4286.8 6.9% 70.1 2.7% 108.0 3.6% 1986 4519.9 5.4% 71.7 2.3% 109.8 1.7% 1987 4824.0 6.7% 73.7 2.8% 114.0 3.8% 1988 5207.6 8.0% 76.4 3.7% 118.7 4.1% 1989 5571.7 7.0% 79.3 3.7% 124.5 4.9% 1991 6073.0 3.9% 85.0 3.1% 136.5 4.0% 1991 6073.0 3.9% 85.0 3.1% 136.5 4.0% 1992 6424.4 5.8% 86.9 2.3% 140.7 3.1% 1993 6749.5 5.1% 88.8 2.3% 144.8 2.9% 1991 6073.0 3.9% 85.0 3.1% 136.5 4.0% 1992 6424.4 5.8% 86.9 2.3% 140.7 3.1% 1993 6749.5 5.1% 88.8 2.3% 140.7 3.1% 1995 7479.1 4.3% 92.6 2.0% 152.7 2.8% 1996 7939.3 6.2% 94.3 1.9% 157.3 3.0% 1997 8422.6 6.1% 95.7 1.5% 160.7 2.2% 1998 8867.0 5.3% 96.8 1.2% 163.2 1.6% 1999 9409.1 6.1% 98.4 1.6% 167.0 2.3% 1999 150.5 5.4% 100.5 2.2% 172.7 3.4% 2000 9915.0 5.4% 100.5 2.2% 172.7 3.4% 2000 10205.9 2.9% 102.9 2.4% 177.2 2.6% 2002 10565.5 3.5% 104.7 1.7% 180.2 1.7% 2.00 1156.5 5.6% 2004 11919.7 6.8% 109.8 2.8% 189.3 2.8% 10.9% 2.5% 2004 11919.7 6.8% 109.8 2.8% 189.3 2.8% 10.9% 2.5% 2004 11919.7 6.8% 109.8 2.8% 189.3 2.8% 20.9% 20.9% 20.9% 20.9% 102.9 2.4% 177.2 2.6% 20.0% 2							
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1974       1530.7       8.5%       35.6       9.9%       49.8       11.2%         1975       1689.0       10.3%       38.6       8.2%       54.1       8.7%         1976       1867.0       10.5%       40.8       5.7%       57.2       5.7%         1977       2083.6       11.6%       43.4       6.5%       61.0       6.6%         1978       2373.3       13.9%       46.6       7.3%       65.7       7.8%         1979       2628.5       10.8%       50.6       8.7%       73.4       11.6%         1980       2871.4       9.2%       55.4       9.4%       83.2       13.3%         1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       104.2       4.3%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1975       1689.0       10.3%       38.6       8.2%       54.1       8.7%         1976       1867.0       10.5%       40.8       5.7%       57.2       5.7%         1977       2083.6       11.6%       43.4       6.5%       61.0       6.6%         1978       2373.3       13.9%       46.6       7.3%       65.7       7.8%         1979       2628.5       10.8%       50.6       8.7%       73.4       11.6%         1980       2871.4       9.2%       55.4       9.4%       83.2       13.3%         1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       104.2       4.3%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1976       1867.0       10.5%       40.8       5.7%       57.2       5.7%         1977       2083.6       11.6%       43.4       6.5%       61.0       6.6%         1978       2373.3       13.9%       46.6       7.3%       65.7       7.8%         1979       2628.5       10.8%       50.6       8.7%       73.4       11.6%         1980       2871.4       9.2%       55.4       9.4%       83.2       13.3%         1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       99.9       3.2%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1977       2083.6       11.6%       43.4       6.5%       61.0       6.6%         1978       2373.3       13.9%       46.6       7.3%       65.7       7.8%         1979       2628.5       10.8%       50.6       8.7%       73.4       11.6%         1980       2871.4       9.2%       55.4       9.4%       83.2       13.3%         1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       194.2       4.3%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       70.1       2.7%       108.0       3.6%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1979       2628.5       10.8%       50.6       8.7%       73.4       11.6%         1980       2871.4       9.2%       55.4       9.4%       83.2       13.3%         1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       104.2       4.3%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0 </td <td>1977</td> <td>2083.6</td> <td>11.6%</td> <td></td> <td></td> <td>61.0</td> <td></td>	1977	2083.6	11.6%			61.0	
1980       2871.4       9.2%       55.4       9.4%       83.2       13.3%         1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       99.9       3.2%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>7.8%</td>							7.8%
1981       3162.0       10.1%       60.1       8.6%       91.5       10.1%         1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       99.9       3.2%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1992       6424.4       5.8%       86.9 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1982       3304.1       4.5%       63.4       5.5%       96.8       5.8%         1983       3643.4       10.3%       65.8       3.7%       99.9       3.2%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7							
1983       3643.4       10.3%       65.8       3.7%       99.9       3.2%         1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1984       4010.7       10.1%       68.2       3.7%       104.2       4.3%         1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1985       4286.8       6.9%       70.1       2.7%       108.0       3.6%         1986       4519.9       5.4%       71.7       2.3%       109.8       1.7%         1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       140.7       3.1%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7							
1987       4824.0       6.7%       73.7       2.8%       114.0       3.8%         1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8667.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4	1985	4286.8		70.1			
1988       5207.6       8.0%       76.4       3.7%       118.7       4.1%         1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2001       10205.9       2.9%       102.9 <td></td> <td></td> <td></td> <td>71.7</td> <td>2.3%</td> <td>109.8</td> <td>1.7%</td>				71.7	2.3%	109.8	1.7%
1989       5571.7       7.0%       79.3       3.7%       124.5       4.9%         1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
1990       5846.0       4.9%       82.4       4.0%       131.3       5.5%         1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7							
1991       6073.0       3.9%       85.0       3.1%       136.5       4.0%         1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106							
1992       6424.4       5.8%       86.9       2.3%       140.7       3.1%         1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         20-Year Average       5.2%       1.9%							
1993       6749.5       5.1%       88.8       2.3%       144.8       2.9%         1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.6%       1.9%							
1994       7169.1       6.2%       90.7       2.1%       148.6       2.6%         1995       7479.1       4.3%       92.6       2.0%       152.7       2.8%         1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.6%       1.9%       2.5%         20-Year Average       5.6%       2.4%       3.0%         30-Y		6749.5					
1996       7939.3       6.2%       94.3       1.9%       157.3       3.0%         1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.2%       1.9%       2.5%         20-Year Average       5.6%       1.9%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0% <td></td> <td></td> <td></td> <td>90.7</td> <td>2.1%</td> <td></td> <td></td>				90.7	2.1%		
1997       8422.6       6.1%       95.7       1.5%       160.7       2.2%         1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.2%       1.9%       2.5%         20-Year Average       5.6%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%							
1998       8867.0       5.3%       96.8       1.2%       163.2       1.6%         1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.2%       1.9%       2.5%         20-Year Average       5.6%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.5%       3.8%         57-Year Average       7.1%       3.5%       3.8%							
1999       9409.1       6.1%       98.4       1.6%       167.0       2.3%         2000       9915.0       5.4%       100.5       2.2%       172.7       3.4%         2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.2%       1.9%       2.5%         20-Year Average       5.6%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%							
2000     9915.0     5.4%     100.5     2.2%     172.7     3.4%       2001     10205.9     2.9%     102.9     2.4%     177.2     2.6%       2002     10565.5     3.5%     104.7     1.7%     180.2     1.7%       2003     11156.3     5.6%     106.9     2.0%     184.3     2.2%       2004     11919.7     6.8%     109.8     2.8%     189.3     2.8%       10-Year Average     5.2%     1.9%     2.5%       20-Year Average     5.6%     2.4%     3.0%       30-Year Average     7.1%     3.8%     4.6%       40-Year Average     7.5%     4.1%     4.7%       50-Year Average     7.1%     3.7%     4.0%       57-Year Average     7.1%     3.5%     3.8%							
2001       10205.9       2.9%       102.9       2.4%       177.2       2.6%         2002       10565.5       3.5%       104.7       1.7%       180.2       1.7%         2003       11156.3       5.6%       106.9       2.0%       184.3       2.2%         2004       11919.7       6.8%       109.8       2.8%       189.3       2.8%         10-Year Average       5.2%       1.9%       2.5%         20-Year Average       5.6%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%							
2002     10565.5     3.5%     104.7     1.7%     180.2     1.7%       2003     11156.3     5.6%     106.9     2.0%     184.3     2.2%       2004     11919.7     6.8%     109.8     2.8%     189.3     2.8%       10-Year Average     5.2%     1.9%     2.5%       20-Year Average     5.6%     2.4%     3.0%       30-Year Average     7.1%     3.8%     4.6%       40-Year Average     7.5%     4.1%     4.7%       50-Year Average     7.1%     3.7%     4.0%       57-Year Average     7.1%     3.5%     3.8%							
2003         11156.3         5.6%         106.9         2.0%         184.3         2.2%           2004         11919.7         6.8%         109.8         2.8%         189.3         2.8%           10-Year Average         5.2%         1.9%         2.5%           20-Year Average         5.6%         2.4%         3.0%           30-Year Average         7.1%         3.8%         4.6%           40-Year Average         7.5%         4.1%         4.7%           50-Year Average         7.1%         3.7%         4.0%           57-Year Average         7.1%         3.5%         3.8%							
10-Year Average       5.2%       1.9%       2.5%         20-Year Average       5.6%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%	2003	11156.3	5.6%		2.0%		
20-Year Average       5.6%       2.4%       3.0%         30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%				109.8		189.3	
30-Year Average       7.1%       3.8%       4.6%         40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%		-					
40-Year Average       7.5%       4.1%       4.7%         50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%		•					
50-Year Average       7.1%       3.7%       4.0%         57-Year Average       7.1%       3.5%       3.8%		-					
57-Year Average 7.1% 3.5% 3.8%							

Source: St. Louis Federal Reserve Bank, Economic Data - FRED II (www.research.stlouisfed.org).

# Aquila Missouri Updated Murray DCF Analysis

		Average			<b>Estimated</b>
	Expected	High/Low	Projected	Long-Term	Cost of
	Annual	Stock	Dividend	GDP	Common
Company Name	Dividend	Price	Yield	Growth	Equity
Empire District Electric Company	1.28	23.513	5.44%	6.60%	12.04%
Hawaiian Electric Industries, Inc.	1.24	26.533	4.67%	6.60%	11.27%
IDACORP, Inc.	1.20	29.589	4.06%	6.60%	10.66%
Pinnacle West Capital	1.98	44.329	4.47%	6.60%	11.07%
Puget Energy, Inc.	1.00	22.935	4.36%	6.60%	10.96%
Southern Co.	1.51	34.376	4.39%	6.60%	10.99%
Average			4.57%	6.60%	11.17%
		Proposed Div	ridand Viold		4.000/

Proposed Dividend Yield 4.60%

Proposed Growth Rate 6.60%

Estimated Cost of Common Equity 11.20%

# Aquila Missouri Updated Johnson ROE Analysis

Updated DCF Analysis	Low	High
Dividend Yield	5.00%	5.50%
Long-Term Growth	6.60%	6.60%
<b>Estimated DCF Cost of Common Equity</b>	11.60%	12.10%
Midpoint DCF Analysis		11.85%
Comparable Earnings Analysis	10.00%	11.50%
Midpoint Comparable Earnings Analysis		10.75%
Midpoint Overall ROE Analysis		11.30%

## Aquila Missouri Updated Gorman DCF Analysis

	13-Week AVC		Annual	Adjusted	Constant
Line Electric Utility	Stock Price	Growth	Dividend	Yield	Growth DCF
1 Alliant Energy Co.	29.17	6.60%	1.05	3.84%	10.44%
2 Ameren	55.13	6.60%	2.54	4.91%	11.51%
3 American Elec. Pwr		6.60%	1.40	3.94%	10.54%
4 CH Energy Group	47.78	6.60%	2.16	4.82%	11.42%
5 Cent. Vermont P.S.	18.83	6.60%	0.92	5.21%	11.81%
6 CINERGY	44.03	6.60%	1.92	4.65%	11.25%
7 Cleco Corporation	22.53	6.60%	0.90	4.26%	10.86%
8 Con. Edison	47.56	6.60%	2.28	5.11%	11.71%
<ol><li>9 DTE Energy Co.</li></ol>	46.46	6.60%	2.06	4.73%	11.33%
10 Duquesne Light	18.46	6.60%	1.00	5.77%	12.37%
11 Empire District	23.72	6.60%	1.28	5.75%	12.35%
12 Energy East Corp.	27.14	6.60%	1.10	4.32%	10.92%
13 Entergy Corp.	75.88	6.60%	2.16	3.03%	9.63%
14 Exelon Corp.	53.06	6.60%	1.60	3.21%	9.81%
15 FPL Group, Inc.	43.33	6.60%	1.42	3.49%	10.09%
16 FirstEnergy	50.11	6.60%	1.65	3.51%	10.11%
17 Green Mtn. Power	30.06	6.60%	1.00	3.55%	10.15%
18 Hawaiian Electric	27.16	6.60%	1.24	4.87%	11.47%
19 MGE Energy, Inc.	36.69	6.60%	1.37	3.98%	10.58%
20 NiSource Inc.	24.14	6.60%	0.92	4.06%	10.66%
21 NSTAR	30.00	6.60%	1.16	4.12%	10.72%
22 Pinnacle West	44.99	6.60%	1.90	4.50%	11.10%
23 Progress Energy	44.12	6.60%	2.36	5.70%	12.30%
24 Puget Energy, Inc.	23.19	6.60%	1.00	4.60%	11.20%
25 SCANA Corp.	42.13	6.60%	1.56	3.95%	10.55%
26 Southern Co.	34.89	6.60%	1.49	4.55%	11.15%
27 Vectren Corp.	28.27	6.60%	1.18	4.45%	11.05%
28 Westar Energy	24.01	6.60%	0.92	4.08%	10.68%
29 Xcel Energy Inc.	19.30	6.60%	0.86	4.75%	11.35%
30 Average	36.21	6.60%	1.46	4.56%	11.16%
		Proposed Divi	dend Yield		4.60%
		Proposed Gro	wth Rate		6.60%
		Estimated Cos	st of Common E	quity _	11.20%

# Aquila Missouri Discounted Cash Flow Analysis Summary Of DCF Model Results

Company	Traditional Constant Growth DCF Model	Constant Growth DCF Model Long-Term GDP Growth	Low Near-Term Growth Two-Stage Growth DCF Model
1 Alliant Energy Co.	%8.8	10.4%	, c
2 Ameren	%8.8	77.7	10.2%
3 American Elec. Pwr.	%6:2		10.5%
4 CH Energy Group	9.3%	11.2%	
	9.3%	11.7%	% o. C1
6 CINERGY	9.1%	11.2%	10.6%
	7.6%	10.6%	%6.6 6
	8.2%	11.5%	10.8%
	11.2%	11.2%	10.5%
10 Duquesne Light	10.2%	12.2%	11.3%
	10.1%	12.3%	11.3%
	9.2%	11.1%	11.0%
	9.5%	10.0%	10.0%
	10.1%	10.0%	%6.6
	8.4%	10.0%	10.0%
	8.4%	11.2%	10.4%
	%6.6	10.5%	%6.6
	8.5%	10.7%	10.4%
	8.6%	10.8%	10.5%
	%0.6	11.2%	11.0%
	10.0%	12.2%	11.4%
	9.5%	11.0%	10.7%
	9.1%	10.6%	10.4%
24 Southern Co.	9.2%	11.0%	10.7%
25 Vectren Corp.	9.1%	11.1%	10.7%
26 Westar Energy	8.9%	10.7%	10.4%
27 Xcel Energy Inc.	%6.6	11.2%	11.1%
GROUP AVERAGE	9.2%	11.0%	10.6%
GROUP MEDIAN	9.1%	11.1%	10 5%

Sources: Value Line Investment Survey, Electric Utility (East), Sep 2, 2005; (Central), Sep 30, 2005; (West), Nov 11, 2005.

# Aquila Missouri Discounted Cash Flow Analysis Traditional Constant Growth DCF Model

44	(14)	ļ	ROE K=Div Yld±G	(Cols 3+13)		8.8%	8.8%	7.9%	9.3%	9.3%	9.1%	7.6%	8.2%	11.2%	10.2%	10.1%	%2 6	9.5%	10.1%	8.4%	8 4%	% 5 5	8 5%	8.6%	%0.6	10.0%	6 5%	6 7%	%0.6	2,5	- 6 - 0	% 0 0 0		9.2%	0 10%
(43)	(61)		Average Growth K=D	' `		4.99%	4.08%	4.16%	4.72%	4.18%	4.52%	3.63%	3.34%	6.68%	4.59%	4.49%	4.68%	6.10%	6.64%	4.94%	3.89%	8.00.9	4.42%	4.42%	4.34%	4.42%	5.04%	2.09%	4.79%	4.66%	4.82%	5.33%		4.78%	
(49)	(2.)	-	GDP	(Col		6.60%	8.60%									%09.9	%09:9	%09.9	%09.9	%09.9	8.60%	8.60%	%09.9	%09.9			%09.9	%09.9	8.60%					.  %09.9	
(11)			Value	Line Gr														7.50% 6.	10.00% 6.										4.00% 6.	4.00% 6.	5.50% 6.			4.35% 6.	
(10)		ınaıysıs		Zacks	,000	4.00%	4.90%	3.00%	₹ <b>2</b>			4.00%							•			Ϋ́								4.60%	4.00%	4.20%		4.42%	
6)	4 Dote	ni Nate	B*R	Growth	2 250/	0,00,0	6.50% 0.50%	0.00%	0.0.0	0.00	0.00%	0.40%	1.90%	7.05% 0.05%	3.76%	1.35%	3.13%	4.59%	2.67%	4.73%	2.96%	5.40%	4.19%	3.77%	2.08%	2.55%	3.27%	4.58%	4.08%	3.44%	3.19%	3.00%	200	3.00%	
(8)	l de la	Rate Calculation		ROE (R)	α 10%	00%	9.0270	0.01%	ο. το ο. 2000	10.60%	0.00	0.00	40.40%	12.12%	13.15%	9.23%	9.64%	11.99%	11.35%	10.25%	10.14%	13.10%	9.30%	11.59%	8.37%	9.65%	9.09%	11.02%	13.50%	11.17%	8.74%	10.00%	40 220/	10.33%	
E	Project	th Rate (		NBV	26.55	35.30	27.75	34.75	17.25	27.35	17.50	2000	11.05	4	0.02	0.43	20.75	24.60	35.25	23.90	17.25	18.70	21.50	17.25	3/.05 50.75	35.25	19.25	29.50	18.15	17.45	19.45	15.00	24 33	27:02	
(9)		Year 2009 "BR" Growth Rate Calculation	Retention	Rate (B)	41 40%	24 18%	46.67%	32.31%	42.50%	28 28%	40.00%	21 33%	58.00%	20.00%	44.6707	14.07%	32.50%	38.31%	20.00%	46.12%	29.14%	41.22%	45.00%	32.50%	24.64%	26.00%	30.00%	41.54%	30.20%	30.7%	36.47%	30.00%	35 15%	200	
(2)		ear 2009		EPS	2.15	3.35	300	3.25	1.60	2.90	1.50	00 8	200	5 5	5 5	9 6	9 9	2.82	9.4 0.4	2.43	 	2.43 0.43	9.6	9.6	٠ د د د	5. t	 	0.70	7.4 0.4	S	5.5	 0	2 49		
(4)				DPS	1.26											·			•		47.	- + - + - + - +	2	. c	2.52	5.5			- · · ·	ડે. ડે	5 5 6	0	1.59		
(3)			Year's Dividend	Yield	3.83%	4.72%	3.78%	4.59%	5.13%	4.59%	3.97%	4.87%	4.56%	5 65%	5,00%	4 52%	2 4 4 6	0,44%	3.4270	2.45%	4.00%	0.00	200.4	4.50%	5.64%	4 4 1%	7 00 7	4 4 1 %	0/ - 1. 1	4.40%	200.4	4.00%	4.41%	4.46%	
(2)		Next	Year's	OIV(DT)	1.11	2.54	1.44	2.16	0.92	1.96	0.90	2.30	2.06	100	200			2. 5	7	2.6	7. T	9 9	5 5	2.5	2 44	; <del>-</del>	. 6	53.		3.0	0 0	9.0	1.47		
(1)			Recent Price(DO)	rice(PU)	28.98	53.76	38.14	47.11	17.92	42.72	22.69	47.25	45.19	17.71	22.65	25.64	44.20	50.36	25.50	27.19	35.62	23.02	28.38	43.98	43.47	22.67	41 28	34 69	27.60	23.67	10.02	2.5	33.61		
			Company	Company	1 Alliant Energy Co.	2 Ameren	3 American Elec. Pwr.	4 CH Energy Group			7 Cleco Corporation	8 Con. Edison	9 DTE Energy Co.	10 Duquesne Light	11 Empire District	12 Energy East Corp	13 FPL Group Inc				17 MGE Energy Inc	18 NiSource Inc	19 NSTAR	20 Pinnacle West	21 Progress Energy	22 Puget Energy, Inc.	23 SCANA Corp.	24 Southern Co.	25 Vectren Corn	26 Westar Energy	27 Xcel Energy Inc		GROUP AVERAGE	GROUP MEDIAN	

Sources: Value Line Investment Survey, Electric Utility (East), Sep 2, 2005; (Central), Sep 30, 2005; (West), Nov 11, 2005.

# Aquila Missouri Discounted Cash Flow Analysis Constant Growth DCF Model Long-Term GDP Growth

GDP K=Div X GDP K=Div X GOWth (Cols 1) G. 60% G. 60		(15)	(16)	(17)	(18)		(19)
Recent Year's Dividend GDP K=Dividend American Elec. Pwr.   28.98   1.11   3.83%   6.60%   6.60%   3.76   2.54   4.72%   6.60%   6.6			Next				l G
Alliant Energy Co. 28.98 1.11 3.83% 6.60% Ameren American Elec. Pwr. 23.76 2.54 4.72% 6.60% Collect Vermont P.S. 23.76 2.54 4.72% 6.60% 6.60% Cont. Vermont P.S. 22.69 0.90 3.97% 6.60% 6.60% 0.00 Elect Corporation Con. Edison Ar.25 2.30 4.87% 6.60% 6.60% 0.00 Energy East Corp. FirstEnergy Loc. NSTAR Progress Energy, Inc. NSTAR Progress Energy Inc. SCANA Corp. SCANA Corp. School Energy Inc. School Energy Inc. 23.66 0.96 4.06% 6.60	Company	Recent Price/P0)	Year's	Dividend	GDP		Yetc
Alliant Energy Co. 28.98 1.11 3.83% 6.60%  American Elec. Pwr. 38.14 1.44 3.78% 6.60%  CH Energy Group  Con. Edison  On. Ediso			1000		DI ONILI	Sion)	1/+18
American Elec. Pwr. 38.76 2.54 4.72% 6.60% CH Energy Group Cent. Vermont P.S. 17.92 0.92 5.13% 6.60% CINERGY Con. Edison DTE Energy Co. Edison DTE Energy Inc. Edis	-	28.98		3.83%	9.60%		10.4%
American Elec. Pwr. 38.14 1.44 3.78% 6.60% CH Energy Group Cont. Vermont P.S. CINERGY Cont. Vermont P.S. CINERGY Cont. Vermont P.S. CINERGY Cont. Electron Con. Edison A7.25 2.30 4.87% 6.60% 6.60% Con. Energy East Corp. FirstEnergy Energy, Inc. 22.65 1.28 5.65% 6.60% 6.60% Green Mtn. Power FirstEnergy Green Mtn. Power A4.20 1.52 3.44% 6.60% 6.60% Green Mtn. Power A4.20 1.24 4.56% 6.60% 6.60% Green Mtn. Power A4.39 2.03 4.62% 6.60% 6.60% Green Corp. 2.60 1.60 4.41% 6.60% 6.60% Green Corp. 2.60 1.23 4.46% 6.60% 6.60% Green Gr	-	53.76		4.72%	809.9		11.3%
CH Energy Group  CH Energy Group  Cent. Vermont P.S.  Closed Corporation  Con. Edison  One dison  O	-	38.14		3.78%	6.60%		10.4%
Cent. Vermont P.S. 17:92 0.92 5.13% 6.60% CINERGY 22.69 0.90 3.97% 6.60% Con. Edison 47.25 2.30 4.87% 6.60% Duquesne Light 22.69 0.90 3.97% 6.60% 6.60% Empire District 22.65 1.28 5.65% 6.60% 6.60% Empire District 22.65 1.28 5.65% 6.60% 6.60% Green Mtn. Power FIrstEnergy Green Mtn. Power NiSource Inc. NSTAR Progress Energy, Inc. NSTAR Progress Energy, Inc. SCANA Corp. Southern Co. SCANA Corp. Southern Co. Vectren Corp.	_	47.11	2.16	4.59%	6.60%		11.2%
CINERGY CINERGY CINERGY CINERGY Cleco Corporation Con. Edison DTE Energy Co. Duquesne Light Empire District Empire District Empire District Empire District Energy East Corp. FirstEnergy Green Mtn. Power NiSource Inc. NSTAR Progress Energy, Inc. SCANA Corp. Southern Co. SCANA Corp. Southern Co. Vectren Corp. Vestar Energy Inc. SCANA Corp. Southern Co. Vectren Corp. Vestar Energy Inc. SCANA MEDIAN  GROUP AVERAGE Green Corp. Green Marian Electric Scana Corp. Southern Co. SCANA Corp. Southern Co. SCANA Corp. Southern Co. SCANA Gorp. Southern Co. SCANA Corp. Southern Co. SCANA Corp. Southern Co. SCANA Corp. Southern Co. SCANA Gorp. Southern Co	_	17.92	0.92	5.13%	6.60%		11.7%
Cleco Corporation 22.69 0.90 3.97% 6.60% Con. Edison 47.25 2.30 4.87% 6.60% DTE Energy Co. 45.19 2.06 4.56% 6.60% Empire District 22.65 1.28 5.65% 6.60% FPL Group, Inc. 44.20 1.52 3.42% 6.60% FristEnergy Green Mtn. Power 31.34 1.08 3.45% 6.60% MGE Energy, Inc. 23.66 0.96 4.06% 6.60% NSTAR 23.86 2.03 4.62% 6.60% NSTAR 23.87 1.21 4.20% 6.60% NSTAR 43.98 2.03 4.62% 6.60% Progress Energy Inc. 22.67 1.00 4.41% 6.60% SCANA Corp. SCANA Corp. 34.69 1.53 4.41% 6.60% Westar Energy Inc. 23.67 0.96 4.06% 6.60% Xcel Energy Inc. 23.67 0.96 4.06% 6.60% Xcel Energy Inc. 33.61 1.47 4.41% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% GROUP MEDIAN 4.44%		42.72	1.96	4.59%	6.60%		11.2%
Con. Edison  47.25  Con. Edison  DTE Energy Co.  45.19  2.06  4.56%  6.60%  Duquesne Light  17.71  1.00  5.65%  6.60%  Empire District  22.65  1.28  5.65%  6.60%  FirstEnergy  Green Mtn. Power  Hawaiian Electric  NSTAR  NSOurce Inc.  NSTAR  Progress Energy, Inc.  23.66  NSTAR  Progress Energy, Inc.  22.67  1.00  4.41%  6.60%  4.128  1.24  4.56%  6.60%  1.27  1.24  4.56%  6.60%  1.26  1.27  1.24  4.56%  6.60%  1.27  1.24  4.56%  6.60%  1.29  1.24  1.24  1.24  1.26  1.29  1.24  1.29  1.24  1.29  1.24  1.29  1.20		22.69	0.30	3.97%	6.60%		10.6%
D1E Energy Co. 45.19 2.06 4.56% 6.60% Empire District 22.65 1.28 5.65% 6.60% Empire District 22.65 1.28 5.65% 6.60% Empire District 22.65 1.28 5.65% 6.60% Energy East Corp. 55.64 1.16 4.52% 6.60% FPL Group, Inc. 50.36 1.72 3.42% 6.60% Green Mtn. Power 31.34 1.08 3.45% 6.60% Green Mtn. Power 31.34 1.08 3.45% 6.60% Inc. 27.19 1.24 4.56% 6.60% Inc. 23.66 0.96 4.06% 6.60% Inc. SCANA Corp. Scale Energy, Inc. SCANA Corp. Southern Co. Scale Energy Inc. 22.67 1.00 4.41% 6.60% Inc. Scale Energy Inc. 23.66 0.96 4.06% 6.60% Inc. Scale Energy Inc. 22.67 1.00 4.41% 6.60% Inc. Scale Energy Inc. 23.67 0.96 4.06% 6.60% Inc. 23.69 Inc.		47.25	2.30	4.87%	9.60%		11.5%
Empire District 22.65  Empire District 22.65  Energy East Corp. 25.64  Energy East Corp. 25.64  Energy East Corp. 25.64  1.16  4.52%  6.60%  44.20  1.52  3.44%  6.60%  FirstEnergy Green Mtn. Power 31.34  1.08  3.45%  6.60%  3.134  1.08  3.45%  6.60%  1.27  1.24  4.56%  6.60%  1.27  1.24  4.56%  6.60%  1.27  1.24  4.56%  6.60%  1.27  1.24  1.24  1.26  1.26  1.27  1.24  1.26  1.26  1.26  1.27  1.29  1.24  1.26  1.20  1.24  1.26  1.20  1.24  1.26  1.20  1.24  1.26  1.20  1.24  1.26  1.20  1.24  1.26  1.27  1.29  1.29  1.21  1.29  1.20  1.38  1.37  1.41%  1.60		45.19	2.06	4.56%	9.60%		11.2%
Empire District 22.65 1.28 5.65% 6.60% Energy East Corp. 25.64 1.16 4.52% 6.60% FPL Group, Inc. 44.20 1.52 3.44% 6.60% 50.36 1.72 3.42% 6.60% 50.36 1.72 3.42% 6.60% 50.36 1.72 3.45% 6.60% 50.36 1.72 3.45% 6.60% 50.36		17.71	1.00	5.65%	6.60%		12.2%
Energy East Corp. 25.64 1.16 4.52% 6.60% FPL Group, Inc. 44.20 1.52 3.44% 6.60% Green Mtn. Power 31.34 1.08 3.45% 6.60% Green Mtn. Power 27.19 1.24 4.56% 6.60% MGE Energy, Inc. 23.66 0.96 4.06% 6.60% NSTAR 23.78 1.21 4.20% 6.60% Pinnacle West Progress Energy Progress Energy, Inc. SCANA Corp. Scale Corp. Southern Co. 23.67 1.00 4.41% 6.60% 6.60% Active Corp. 22.67 1.00 4.41% 6.60% 6.60% Active Corp. 23.67 0.96 4.06% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% 6.60% GROUP MEDIAN 4.46% 6.60% 4.46% 6.60%		22.65	1.28	5.65%	9.60%		12.3%
FirstEnergy Green Mtn. Power Hawaiian Electric MGE Energy, Inc. NiSource Inc. NSTAR Progress Energy Progress Energy, Inc. SCANA Corp. Southern Co. S		25.64	1.16	4.52%	8.60%		11.1%
FirstEnergy Green Mtn. Power 31.34 Green Mtn. Power 31.34 Hawaiian Electric 27.19 1.24 4.56% 6.60% MGE Energy, Inc. 23.66 0.96 4.06% 6.60% NSTAR 23.62 1.38 3.87% 6.60% 23.66 0.96 4.06% 6.60% 43.98 2.03 4.62% 6.60% Progress Energy Progress Pr		44.20	1.52	3.44%	8.60%		10.0%
Green Mtn. Power       31.34       1.08       3.45%       6.60%         Hawaiian Electric       27.19       1.24       4.56%       6.60%         MGE Energy, Inc.       23.62       1.38       3.87%       6.60%         NiSource Inc.       23.66       0.96       4.06%       6.60%         NSTAR       28.78       1.21       4.20%       6.60%         Progress Energy       43.47       2.44       5.61%       6.60%         Puget Energy, Inc.       22.67       1.00       4.41%       6.60%         SCANA Corp.       34.69       1.53       4.41%       6.60%         Vectren Corp.       27.60       1.23       4.46%       6.60%         Xcel Energy Inc.       19.20       0.88       4.58%       6.60%         GROUP AVERAGE       33.61       1.47       4.41%       6.60%         GROUP MEDIAN       4.46%       6.60%       4.66%       6.60%		50.36	1.72	3.42%	9.60%		10.0%
MGE Energy, Inc. 27.19 1.24 4.56% 6.60% MGE Energy, Inc. 23.62 1.38 3.87% 6.60% 1.38 0.387% 6.60% 1.38 0.387% 6.60% 1.31 0.387% 6.60% 1.31 0.387% 6.60% 1.31 0.387% 6.60% 1.31 0.387% 6.60% 1.31 0.387% 6.60% 1.31 0.387% 6.60% 1.32 0.39 0.39 0.39 0.39 0.39 0.39 0.39 0.39		31.34	1.08	3.45%	9.60%		10.0%
Michael Energy, Inc. 35.62 1.38 3.87% 6.60% NiSource Inc. 23.66 0.96 4.06% 6.60% NSTAR 28.78 1.21 4.20% 6.60% Pinnacle West 43.98 2.03 4.62% 6.60% Progress Energy Inc. 22.67 1.00 4.41% 6.60% SCANA Corp. 34.69 1.53 4.41% 6.60% Vectren Corp. 27.60 1.23 4.46% 6.60% Xcel Energy Inc. 19.20 0.88 4.58% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% GROUP MEDIAN 4.46% 6.60%		27.19	1.24	4.56%	8.60%		11.2%
NISOURCE INC.  23.66  0.96  4.06%  6.60%  NSTAR  28.78  1.21  4.20%  6.60%  Pinnacle West  Progress Energy  Puget Energy, Inc.  SCANA Corp.  Southern Co.  34.69  1.53  4.41%  6.60%  A 41%  6.60%  Xcel Energy Inc.  23.67  19.20  0.88  4.58%  6.60%  GROUP AVERAGE  GROUP MEDIAN  4.46%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%  4.66%		35.62	1.38	3.87%	9.60%		10.5%
NSTAK NSTAK NSTAK NSTAK NSTAK NSTAK Pinnacle West Progress Energy SCANA Corp. SCANA Corp. SCANA Corp. 34.69 1.53 4.41% 6.60% Westar Energy Xcel Energy Inc. 19.20 0.88 4.58% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% 4.66% 6.60% 4.66% 6.60% 4.66% 6.60% 4.66% 6.60% 4.66% 6.60%		23.66	0.96	4.06%	6.60%		10.7%
Progress Energy 43.98 2.03 4.62% 6.60% Progress Energy 43.47 2.44 5.61% 6.60% Puget Energy, Inc. 22.67 1.00 4.41% 6.60% SCANA Corp. 34.69 1.53 4.41% 6.60% Vectren Corp. 27.60 1.23 4.46% 6.60% Xcel Energy Inc. 19.20 0.88 4.58% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% GROUP MEDIAN 4.46%		28.78	1.21	4.20%	9.60%		10.8%
Progress Energy 43.47 2.44 5.61% 6.60% Puget Energy, Inc. 22.67 1.00 4.41% 6.60% SCANA Corp. 34.69 1.53 4.41% 6.60% Southern Co. 27.60 1.23 4.46% 6.60% Westar Energy Inc. 23.67 0.96 4.06% 6.60% Xcel Energy Inc. 19.20 0.88 4.58% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% 4.66% GROUP MEDIAN 4.46%		43.98	2.03	4.62%	9.60%		11.2%
SCANA Corp. SCANA Corp. Southern Co. Southern Co. Vectren Corp. Xcel Energy Inc. Southern Co. So		43.47	2.44	5.61%	8.60%		12.2%
Southern Co. South		22.67	1.8	4.41%	9.60%		11.0%
Southern Co. 34.69 1.53 4.41% 6.60% Vectren Corp. 27.60 1.23 4.46% 6.60% Westar Energy Inc. 19.20 0.88 4.58% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% GROUP MEDIAN 4.46%		41.28	1.66	4.02%	8.60%		10.6%
Vectren Corp. 27.60 1.23 4.46% 6.60% Westar Energy Corp. 23.67 0.96 4.06% 6.60% Xcel Energy Inc. 19.20 0.88 4.58% 6.60% GROUP AVERAGE 33.61 1.47 4.41% 6.60% GROUP MEDIAN 4.46%		34.69	1.53	4.41%	9.60%		11.0%
Westar Energy         23.67         0.96         4.06%         6.60%           Xcel Energy Inc.         19.20         0.88         4.58%         6.60%           GROUP AVERAGE         33.61         1.47         4.41%         6.60%           GROUP MEDIAN         4.46%		27.60	1.23	4.46%	%09.9		11.1%
19.20 0.88 4.58% 6.60% GE 33.61 1.47 4.41% 6.60% N 4.46%		23.67	0.96	4.06%	8.60%		10.7%
33.61 1.47 4.41% 6.60% 4.46%	2/ Acel Energy Inc.	19.20	0.88	4.58%	%09.9		11.2%
4 46%	GROUP AVERAGE	33.61	1.47	4.41%	866%		11 0%
	GROUP MEDIAN			4.46%			11 10/

Sources: Value Line Investment Survey, Electric Utility (East), Sep 2, 2005; (Central), Sep 30, 2005; (West), Nov 11, 2005.

# Aquila Missouri Discounted Cash Flow Analysis Low Near-Term Growth Two-Stage Growth DCF Model

(30)	POE-12401-309	Rate of Return	(rrs 0-150)	70 06	10.2%	0.0%	10%	10.3%	10.9%	%0.0.0 %0.0	0.9.% 10.α%	10.0%	7.00	1.0%	7,00	1.0%	%0.0	30.07	10.0%	% 0	20.07	10.4%	10%	11.4%	10.7%	10.4%	10 7%	10.7%	10.4%	11.1%		10.6%	101
(29)		Year 5-150	DIA GIOMILI	%099	9.00%	% 00.0 00.0 00.0 00.0 00.0 00.0	% 00.9 % 00.9 %	%0.9	%0.9	6 60%	%09.9	80.9	809.9	% 00:0	6,60%	%09.9 90.9	%09.9 9.00%	8099	%09.9 90.9	8099	%09.9	6.60%	8.60%	809.9	8.60%	8.60%	8.60%	8.60%	809.9	%09.9			
(28)		Year 5		134	271	177	2.35	86	2.22	0.96	2.52	2.24	1 07	136	144	1.94	2.13	141	1.32	1.54	1.17	1.44	2.48	2.67	1.19	2.03	1.82	1.44	1.15	1.12			
(27)		Year 4	Š	1.26	2.54	1.60	2.20	0.92	2.08	0.90	2.36	2.10	1.00	1.28	1.35	1.82	2.00	1.32	1.24	1.44	1.10	1.35	2.33	2.50	1.12	1.90	1.71	1.35	1.08	1.05			
(26)	CASH FLOWS	Year 3 Div		1.21	2.54	1.55	2.19	0.92	2.04	0.90	2.34	2.09	1.00	1.28	1.29	1.72	1.91	1.24	1.24	1.42	1.05	1.30	2.23	2.48	1.08	1.82	1.65	1.31	1.04	0.99			
(25)	ర	Year 2 Div		1.16	2.54	1.49	2.17	0.92	2.00	0.90	2.32	2.07	1.00	1.28	1.22	1.62	1.81	1.16	1.24	1.40	1.01	1.26	2.13	2.46	1.04	1.74	1.59	1.27	9.	0.94			
(24)		Year 1 Div		1.11	2.54	1.44	2.16	0.92	1.96	0.90	2.30	2.06	1.0	1.28	1.16	1.52	1.72	1.08	1.24	1.38	96.0	1.21	2.03	2.44	0.5	1.66	1.53	1.23	96.0	0.88			
(23)		Recent Price		28.98	53.76	38.14	47.11	17.92	42.72	22.69	47.25	45.19	17.71	22.65	25.64	44.20	50.36	31.34	27.19	35.62	23.66	28.78	43.98	43.47	22.67	41.28	34.69	27.60	23.67	19.20	33.64	5	
(22)	Annual	Change to 2009		0.05	0.00	0.05	0.01	0.00	0.04	0.0	0.02	0.0	0.0	0.0	90.0	0.10	0.09	0.08	0.0	0.05	0.05	0.05	0.10	0.02	0.04	 S C	o o	0.04	0.0	90.0	0.04		
(21)		2009 Div		1.26	2.54	1.60	2.20	0.92	2.08	0.90	2.36	2.10	9.	1.28	1.35	1.82	2.00	1.32	1.24	1.44	1.10	1.35	2.33	7.50	7.1	 		ა. გ. გ	9 9		1.59		
(20)	Next	Year's Div		1.1	2.54	1.44	2.16	0.92	1.96	0.90	2.30	2.06	 8 	1.28	1.16	1.52	1.72		1.24	1.38	96.0	1.21	2.03	4.4	9. 6	8 5	3 5	3.6	9 6	8 .0 .0	1.47		
		Company		1 Alliant Energy Co.		American Elec	CH Energy Gro		6 CINERGY			9 DIE Energy Co.	10 Duquesne Light		12 Energy East Corp.					1/ MGE Energy, Inc.	10 NISOUICE INC.			22 Plicet Energy Inc.	SCANA Com		_	_		2) Acel Lifelyy IIIC.	GROUP AVERAGE	GROUP MEDIAN	

Sources: Value Line Investment Survey, Electric Utility (East), Sep 2, 2005; (Central), Sep 30, 2005; (West), Nov 11, 2005.

# **DCF Analysis Column Descriptions Discounted Cash Flow Analysis** Aquila Missouri

Column 1: Three-month Average Price per Share (Aug-Oct 2005)

Column 2: Estimated 2006 Dividends per Share from Value Line

Column 3: Column 2 Divided by Column 1

Column 4: Estimated 2009 Dividends per Share from Value Line

Column 5: Estimated 2009 Earnings per Share from Value Line

Column 6: One Minus (Column 4 Divided by Column 5)

Column 7: Estimated 2009 Net Book Value per Share from Value Line

Column 8: Column 5 Divided by Column 7

Column 9: Column 6 Multiplied by Column 8

Column 10: "Next 5 Years" Company Growth Estimate as Reported by Zacks.com

Column 11: "Est'D 02-04 To 08-10" Earnings Growth as Reported by Value Line.

Column 12: Average of GDP Growth During the Last 10 year, 20 year, 30 year, 40 year, 50 year, and 57 year growth periods.

Column 13: Average of Columns 9-12

Column 14: Column 3 Plus Column 13

Column 15: See Column 1

Column 16: See Column 2

Column 17: Column 16 Divided by Column 15

Column 18: See Column 12

Column 19: Column 17 Plus Column 18

Column 20: See Column 2

Column 21: See Column 4

Column 22: (Column 21 Minus Column 20) Divided by Three

Column 23: See Column 1

Column 24: See Column 20

Column 25: Column 24 Plus Column 22

Column 26: Column 25 Plus Column 22

Column 27: Column 26 Plus Column 22

Column 28: Column 27 Increased by the Growth Rate Shown in Column 29

Column 29: See Column 12

in Columns 23-28 along with the Dividends Column 30: The Internal Rate of Return of the Cash Flows

for the Years 6-150 Implied by the Growth Rates shown in Column 29

# Aquila Missouri

### Risk Premium Analysis

	•		
	MOODY'S AVERAGE	AUTHORIZED	INDICATED
	PUBLIC UTILITY	ELECTRIC	RISK
	BOND YIELD (1)	RETURNS (2)	PREMIUM
1980	13.15%	14.23%	1.08%
1981	15.62%	15.22%	-0.40%
1982	15.33%	15.78%	0.45%
1983	13.31%	15.36%	2.05%
1984	14.03%	15.32%	1.29%
1985	12.29%	15.20%	2.91%
1986	9.46%	13.93%	4.47%
1987	9.98%	12.99%	3.01%
1988	10.45%	12.79%	2.34%
1989	9.66%	12.97%	3.31%
1990	9.76%	12.70%	2.94%
1991	9.21%	12.55%	3.34%
1992	8.57%	12.09%	3.52%
1993	7.56%	11.41%	3.85%
1994	8.30%	11.34%	3.04%
1995	7.91%	11.55%	3.64%
1996	7.74%	11.39%	3.65%
1997	7.63%	11.40%	3.77%
1998	7.00%	11.66%	4.66%
1999	7.55%	10.77%	3.22%
2000	8.14%	11.43%	3.29%
2001	7.72%	11.09%	3.37%
2002	7.53%	11.16%	3.63%
2003	6.61%	10.97%	4.36%
2004	6.20%	10.73%	4.53%
9/2005	5.65%	10.41%	4.76%
AVERAGE _	9.48%	12.56%	3.08%
INDICATED C	COST OF EQUITY		
PROJECTED	TRIPLE-B UTILITY BOND	YIELD*	6.65%
MOODY'S AV	G ANNUAL YIELD DURIN	G STUDY	9.48%
INTEREST RA	ATE DIFFERENCE		-2.83%
INTEREST RA	ATE CHANGE COEFFICIE	NT	-42.32%
ADUSTMEN <sup>*</sup>	T TO AVG RISK PREMIUN	1	1.20%
BASIC RISK P	PREMIUM		3.08%
INTEREST R	ATE ADJUSTMENT		1.20%
<b>EQUITY RISI</b>	K PREMIUM		4.28%
PROJECTED '	TRIPLE-B UTILITY BOND	YIELD*	6.65%
INDICATED E	QUITY RETURN		10.93%

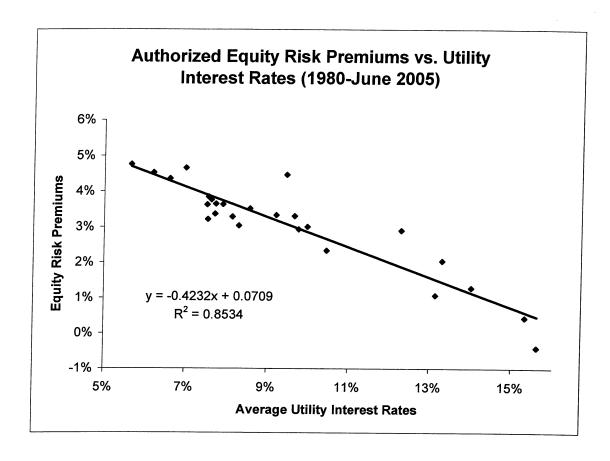
### Sources:

<sup>(1)</sup> Moody's Investors Service

<sup>(2)</sup> Regulatory Focus, Regulatory Research Associates, Inc.

<sup>\*</sup>Projected triple-B utility bond yield is 125 basis points over projected long-term Treasury rate from Exhibit SCH-R-10.

## **Aquila Missouri** Risk Premium Analysis



# Trends & Projections

E-0
20 20 20 20 20 20 20 20 20 20 20 20 20 2
D 4007 740000-004-040000 40000 40000
\$12,960.4 \$12,960.4 \$3.5 \$3.3 \$3.2 \$3.3 \$3.3 \$3.3 \$3.3 \$3.3 \$3.3
\$12,748.7 \$12,748.7 \$1,084.1 \$1,084.1 \$1,082.4 \$1,082.4 \$1,082.4 \$1,082.9 \$
2005 2005 \$12,589.3 \$7 \$1,165.3 \$3.4 \$1,1165.3 \$3.4 \$1,146.3 \$3.4 \$1,146.3 \$3.4 \$1,146.3 \$3.7 \$1,165.8
\$12,778.0 \$1,782.5 \$2,285.9 \$1,143.9 \$2,285.9 \$4,17.6 \$1,143.9 \$1,247.8 \$1,247.8 \$1,247.8 \$1,039.7 \$1,039
\$12,198.8 \$12,198.8 1,102.3 1,102.3 1,102.3 1,102.3 1,252.2 1,272.2 1,273.2 1,273.3 1,011.2 1,273.2 1,273.3 1,011.2 1,273.3 1,011.3 1,116.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1,16.3 1
Cope (%)  Padriator (%)  rices  Vices  Vices  s  s  s  trips  tri
EZUDO  Grass Domestic Product  8.0 Giros Domestic Product  Camual rate of increase (%)  Annual rate of increase (%)  Camponents of Real GDP (%)  2.6 Annual rate of increase GDP (%)  Annual rate of increase GDP (%)  2.7 Annual rate of increase GDP (%)  3.3 Components of Real GDP  2.8 Annual rate of increase GDP (%)  3.9 % change  3.0 Undersolation oxpanditures  3.1
Gross Domestic Product GDP (current dollars) Annual rate of increase (%) Annual rate of increase-GE Annual rate of increase-GE Annual rate of increase-GE Annual rate of increase-GE *Components of Real GDP Personal consumption expens % change Durable goods Nondurable goods Services Nondurable goods Services Fordurers durable equipment Residental fixed investment % change Not thange in business invent Gov't purchases of goods & s Federal State & local Net exports Exports Exports Exports Exports Exports Income & Profits Personal income Disposable personal income Savings rate (%) Corporate profits effer taxes Corporate profits effer taxes Corporate profits effer taxes Corporate profits sefer taxes Corporate profits sefer taxes Gorporate profits sefer taxes Gorporate profits sefer taxes Gorporate profits sefer taxes Gorporate profits sefer taxes Housing starts (1,000 units SAA Auto & tructs seles (1,000,000 u Unemployment rate (%) US. dollar
Gross Domestic GPP (current do Annual rate o Services Nondurable good Not purchases Foodrab Sevices Not purchases Foodrab Net exports Exports Exports Imports Forsonal income Uspossable persy Savings rate (%) Corporate profits Esmings par sha Prices & Interes Corsumer prices Tressury bills 10-yr notes 30-yr honds New issue rate- Other Key Indicat Housing starts (1) Auto & truck raile Unemployment ra SUS. deliar
Annual % Chazon 2004 E2005 7.0 633 7.0 633 7.0 633 7.0 633 7.0 4.5 4.7 4.1 3.0 2.8 9.4 8.5 11.9 10.8 10.3 10.8 10.3 10.8 11.8 32.5 20.2 2.1 52.2 2.1 52.2 2.1 52.3 0.0 11.9 10.8
ECOnomic Indicators  Seasonally Adjusted Annual Rates — Dollar Figures i  Annual & Cha.  2004 E2006 E2006 2004 E2005  70 63 83 80 80 83 34 22 22 22 22 22 22 22 22 22 22 22 22 22
ECOnomic Indicators  2004 E2005 E2006  511,734.3 \$12,473.2 \$13,222.9  7.0 8.3 8.0  4.2 3.5 2.4  2.6 2.7 2.5  3.4 2.2  3.4 2.2  3.4 2.2  3.4 2.2  3.4 4.3  3.4 2.2  3.4 4.3  3.4 2.2  3.4 4.3  3.4 2.2  3.4 3.5  3.4 3.6  3.4 3.9  3.4 3.9  3.4 3.9  3.5 5.2  4.3  3.4 3.9  3.4 3.9  3.5 5.2  4.3  3.5 5.3  3.6  3.7  3.7  3.7  3.7  3.7  3.7  3
ECOnomic Indic Seasonally Adjusted. 2004 E2005 7.0 8.3 52,773.2 7.0 8.3 3.5 2.7 7.0 8.3 3.4 1.089.9 1,138.9 2.200.4 2,291.6 4.310.9 4,431.0 1,089.9 1,138.9 2.200.4 2,291.6 4.310.9 4,431.0 1,108.9 1,138.9 1,228.4 1,248.1 (601.3) (628.0) 1,173.7 745.6 1,228.4 1,248.1 (601.3) (628.0) 1,173.3 510,275.1 8.864.2 9,060.8 1,719.2 1,826.8 1,719.2 1,826.8 1,

# BEFORE THE PUBLIC SERVICE COMMISSION OF THE STATE OF MISSOURI

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State of Missouri	)		
	AFFIDAVIT OF SAM	UEL C. HADAWAY	
sponsors the accomp said testimony was p made as to the facts	ladaway, being first duly swo panying testimony entitled "R prepared by him and under his in said testimony and sched estimony and schedules are thef.	ebuttal Testimony of Samuels direction and supervision; tules, he would respond as the	l C. Hadaway;" that hat if inquiries were nerein set forth; and
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		Samuel C. H	adawan)
		Samuel C. 1	Hadaway /
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a	n to before me this <u>/////</u> d	Marka	
Subscribed and swor	in to before me this $///M$ d	ay of / permiser	2005.
		Jerry D.	Xites
		// Notary Pu	blic J
		/ Terry D. I	
My Commission exp		<b>O</b>	
8-20	7-2008		
		dary Public	TERRY D. LUTES
		S. Notary : 2	Jackson County

My Commission Expires August 20, 2008

County of Jackson