Witness: Dr. James H. Vander Weide/Michael A. Miller

- 1. Refer to the Direct Testimony of Dr. Vander Weide at 12-13.
 - a. Explain whether or not Kentucky-American's expanded supply options through its new water treatment plant, for which a certificate of public convenience and necessity ("CPCN") was granted in PSC Case No. 2007-00134, will mitigate the sensitivity of net income to sales fluctuations.
 - b. In the company's last rate case² and in this case, the company is placing more of its fixed-cost recovery in the customer charge and less on the volumetric charge. Explain why this does not help mitigate Kentucky-American's operating leverage risk.
 - c. Provide an explanation of how each of the three factors contributing to Demand Uncertainty specifically impact Kentucky-American.

Response:

In responding to 1. a., b., and c., Dr. Vander Weide notes that the discussion on pp. 12 – 13 is a general discussion of factors that affect business risk in the water utility industry. Dr. Vander Weide did not attempt to quantify the impact of these risks on Kentucky-American Water Company's cost of equity, and he did not "adjust" or "change" the cost of equity estimates obtained through application of his cost of equity methods to his proxy companies to reflect the specific impact of the general risk factors discussed on pp. 12 – 13. However, these risk factors are implicitly included in his cost of equity estimates for his proxy companies because his cost of equity estimates depend on his proxy companies' stock prices, and these risks are implicitly included in a company's stock price. Mr. Miller can also address the specific circumstances surrounding the source of supply, tariff and demand issues at KAWC as discussed in some detail in the responses to parts a. b., and c. below.

¹ Case No. 2007-00134, The Application of Kentucky-American Water Company for A Certificate of Convenience and Necessity Authorizing the Construction of Kentucky River Station II, Associated Facilities and Transmission Main (Ky. PSC April 25, 2008).

² Case No. 2007-00143, Adjustment of Rates of Kentucky-American Water Company (Ky. PSC Nov. 29, 2007).

- No study has been performed to specifically identify what impact the expanded a. source of supply and treatment capacity will have on customer demand, however, a conservation study is currently being prepared as ordered by the Commission in case number 07-00134. The source of supply and plant project will only mitigate sales fluctuations to the extent the Company's current demand plan has impacted sales in drought years. The additional source and treatment capacity will not mitigate sales fluctuations for either hot, dry, cool or wet years that would not have otherwise resulted in voluntary or required restrictions on customer usage. In addition, the cost of the additional source and treatment capacity is substantial and will result in a substantial increase in the fixed capital costs (debt and equity) for KAWC which will not vary as usage increases or decreases in a particular year due to weather, thereby increasing the sensitivity and risk of net income to sales fluctuations. There could also be some level of sensitivity to the increased price of water which could lead to customer conservation and therefore lower customer usage. Kentucky-American's expanded supply options through its new water treatment plant should mitigate the need for future demand management initiation, but will not eliminate sales fluctuations or their impact on net income.
- b. Placing more of a company's fixed-cost recovery in the customer charge and less on the volumetric charge should help to mitigate but not eliminate operating leverage risk; however, Dr. Vander Weide has not determined if that is the case and has not performed any analysis to determine how the ratio of customer charges of KAWC compare to the water utilities in his sample group.
- The three factors contributing to demand uncertainty cited on page 12 impact c. Kentucky-American Water Company because they impact Kentucky-American Water Company's sales fluctuations. As we know, weather has a significant impact on customer usage in any given year, potentially either a positive or negative impact. Weather has a direct effect on the Company's outdoor watering load, and, thus, can cause wide variances to demand from year to year. In fact, that is why the Company has used a weather normalization approach to determine revenues at present rates in all recent rate cases, an approach the Commission has routinely adopted, to normalize the peaks and valleys in usage and revenue related to weather and avoid the potential roller coaster impact on customer rates absent the weather normalized sales. The Company has also had a very robust internal customer growth rate over the years. The economic climate can have a significant impact on future sales levels and therefore customer rates. KAWC has indicated in this case that it has seen a decline in new home starts and customer growth due to the current economic climate and status of the home mortgage market.

For the electronic version, refer to KAW_R_PSCDR2#1_010809.pdf.

Witness: Dr. James H. Vander Weide/Michael A. Miller

- 2. Refer to the Direct Testimony of Dr. Vander Weide at 13.
 - a. Provide an explanation of how Kentucky-American is specifically affected by Supply Uncertainty risk.
 - b. Explain whether the water treatment facility at Pool 3 of the Kentucky River neutralizes or minimizes the Supply Uncertainty risk for Kentucky-American.
 - c. By stating that the company faces supply uncertainty from the increased costs in complying with more stringent EPA water guidelines, is it Mr. Vander Weide's position that the company faces greater risk because the Commission would not allow the company to recover those federally mandated costs in a timely manner? If not, provide an explanation of how the company faces higher risks.

Response:

- a. Kentucky-American is affected by supply uncertainty risk because the company must make investments to assure a safe and reliable supply of water to meet customer needs at any time. Since the return on this investment is uncertain, supply uncertainty affects Kentucky-American's risk.
- b. The additional supply and plant capacity provided upon completion of the KRS Project should mitigate the volume of supply issue to the extent that additional supply of potable water eliminates or delays the need for demand management initiation in future years. The additional supply, however, does not eliminate Supply Uncertainty as it relates to potential increases in water quality standards or new water quality standards, spills in the source water, or other unforeseen circumstances. Dr. Vander Weide has performed no study to determine the level of Supply Uncertainty for the Company versus the other water utilities in his sample group.
- c. Investors recognize that federally-mandated costs create upward pressure on rates and customers react negatively to rate increases. Investors also recognize that the Company must not only recover federally-mandated costs in a timely manner but must also earn a fair return on its investment costs. Thus, investors are uncertain about whether and when the Commission would allow return of and on federally-mandated investments.

For the electronic version, refer to KAW_R_PSCDR2#2_010809.pdf.

Witness: Dr. James H. Vander Weide

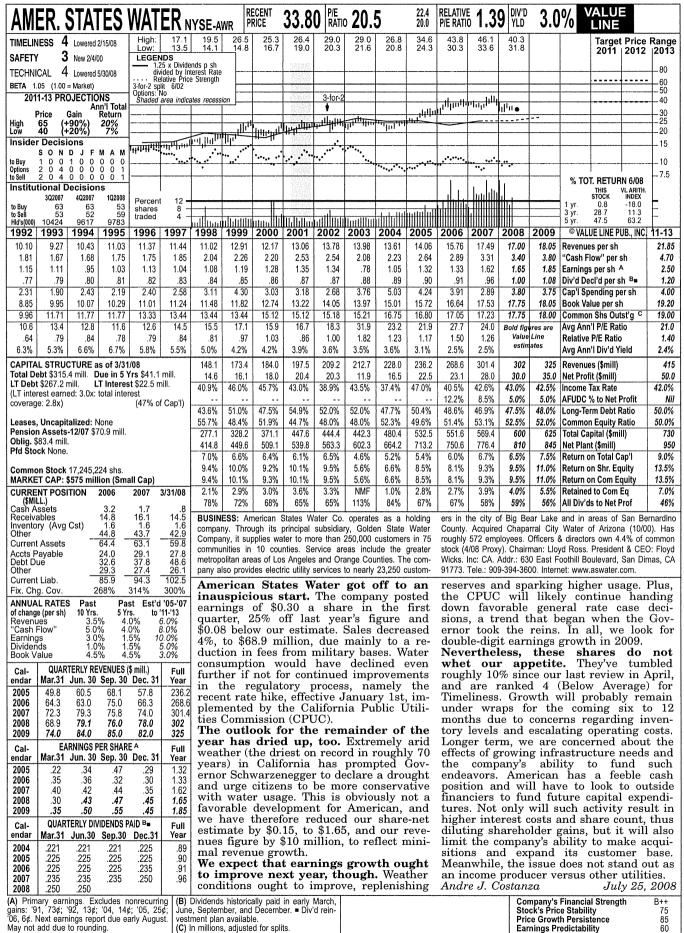
- 3. Refer to the Direct Testimony of Dr. Vander Weide at 19-26 and Exhibit_JVW-1 Schedule 1-1.
 - a. Provide the Excel spreadsheets in electronic format supporting Schedule 1 with the underlying data and formulas intact.
 - b. Provide the data from which the three-month average stock prices were calculated.
 - c. In the case where there is more than one analyst providing estimates, does the I/B/E/S growth data in the Exhibit represent an average growth figure?
 - d. Provide the separate underlying growth data used to make the water company Discounted Cash Flow ("DCF") calculations.
 - e. Provide the DCF calculations without the flotation cost adjustment in a format similar to Schedule 1-1 with an Excel spreadsheet with the formulas intact.
 - f. Provide the Value Line company profile sheets from which the data was taken to conduct the analysis.

Response:

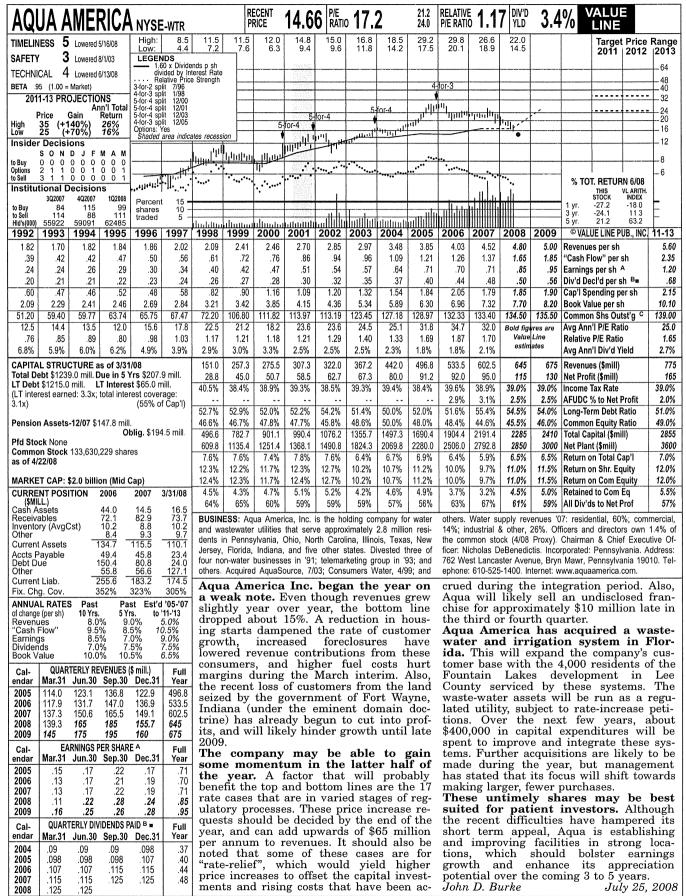
- a. Please refer to the electronic file named KAW_R_PSCDR2#3a_010809.xls. The requested data are supplied.
- b. The requested data are supplied in response to part a.
- c. Yes.
- d. The separate I/B/E/S and Value Line growth rate data used to calculate the DCF cost of equity for the water companies are shown in Schedule 1. As shown in Table 2, page 25, only three water companies, Aqua America, California Water Service, and Southwest Water, have more than one I/B/E/S estimate of long-term growth. With respect to the I/B/E/S growth forecasts for those companies that have more than one I/B/E/S estimate of long-term growth, Dr. Vander Weide's I/B/E/S subscription provides the average of all growth forecasts but does not provide each analyst's growth forecast.

- e. Please refer to the electronic file named KAW_R_PSCDR2#3e_010809.xls. The requested data are supplied.
- g. Please see attached. The requested data are supplied.

For the electronic version of this document refer to KAW_R_PSCDR2#3_010809.pdf.



Earnings Predictability To subscribe call 1-800-833-0046.



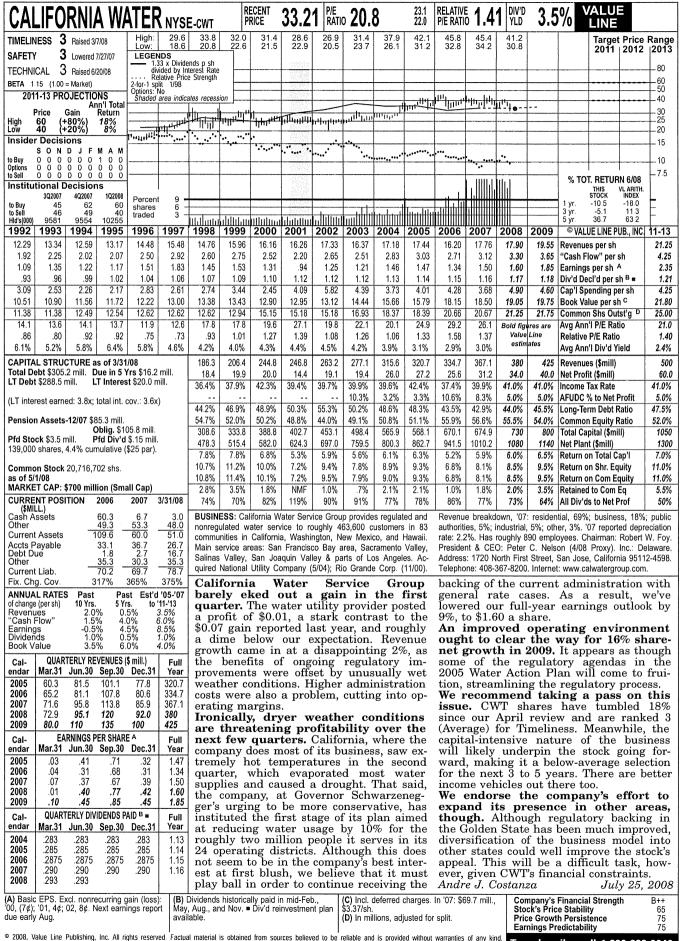
(A) Primary shares outstanding through '96; diluted thereafter. Excl. nonrec. gains (losses) '92, (38¢); '99, (11¢); '00, 2¢; '01, 2¢; '02, 5¢; '03, 4¢. Excl. gain from disc. operations: '96,

2¢. May not sum due to rounding. Next earnings report due early August. (B) Dividends historically paid in early March, June, Sept. & Dec. ■ Divid. reinvestment plan

available (5% discount).
(C) In millions, adjusted for stock splits.

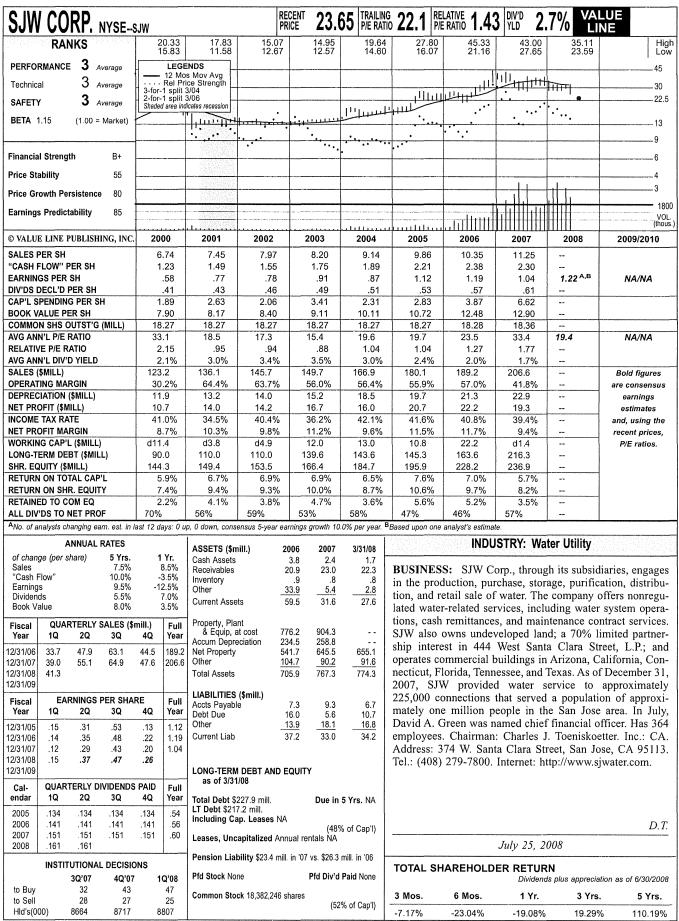
Company's Financial Strength
Stock's Price Stability
Price Growth Persistence
Earnings Predictability

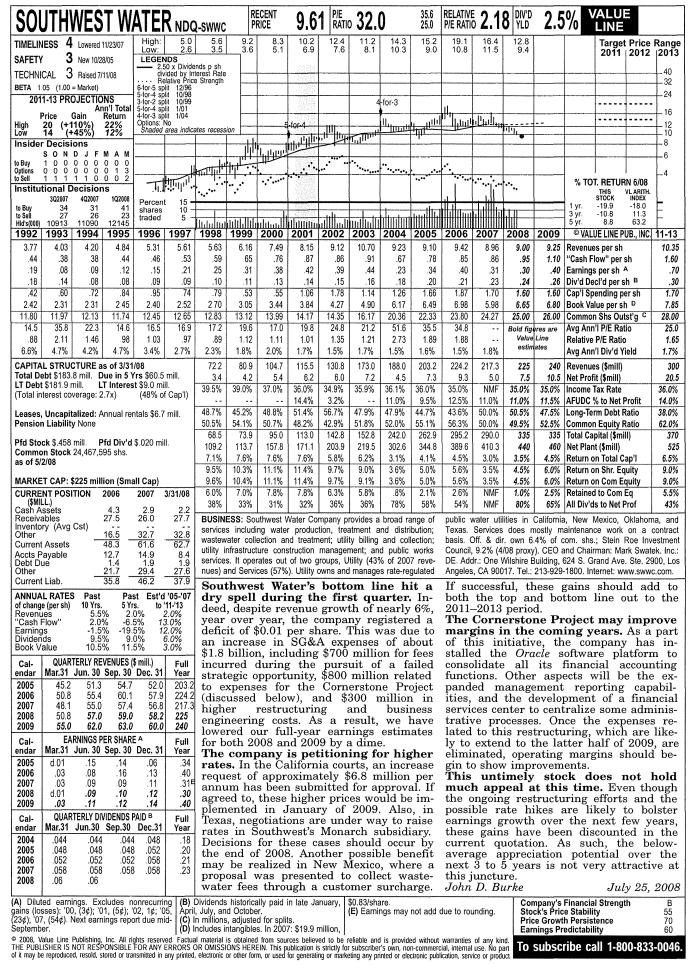
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Earnings Predictability

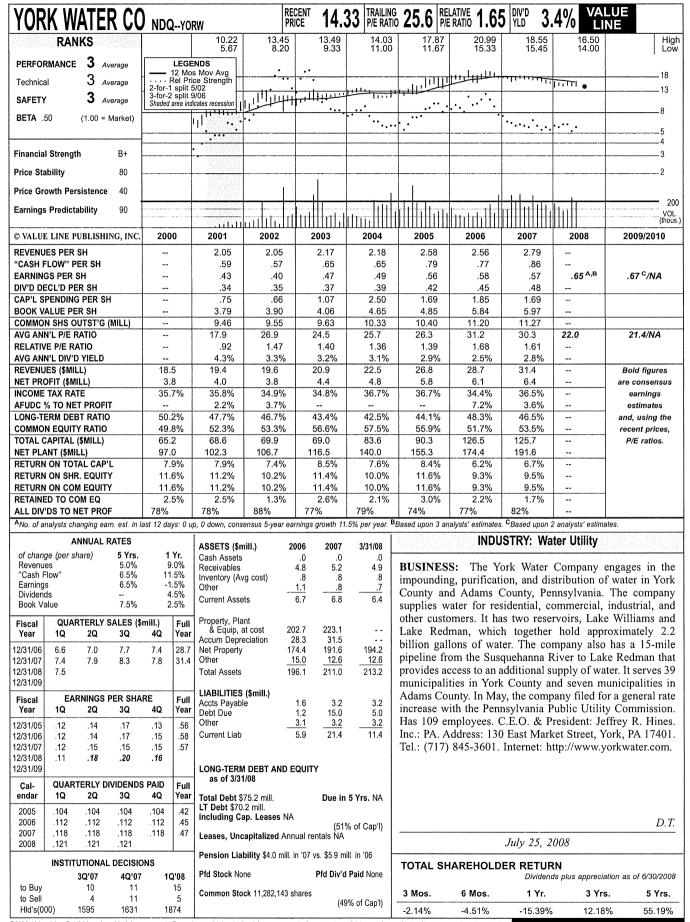


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Fiscal Year 2/31/06 2/31/07 2/31/08 2/31/09 Fiscal Year 2/31/05 2/31/06 2/31/07 2/31/08 2/31/09	1Q 18.2 19.0 20.9 EA 1Q .12 .15 .13 .15	RTERLY SALE 2Q 30 21.0 22 21.8 24 RNINGS PER 2Q 30 .16 .2 .25 .2 .24 .3 .28 .3	S (\$mill.) 4 4Q 6 19.3 1 21.2 SHARE 4 4Q 6 .17 8 .14 1 .19 NDS PAID	2.5% Full Year 81.1 86.1 Full Year .71 .82 .87	Other Current Asse Property, Pla & Equip, Accum Depri Net Property Other Total Assets LIABILITIES Accts Payab Debt Due Other Current Liab LONG-TERM as of 3/3' Total Debt \$\$	yg cost) sts : int at cost 3: eciation ! (\$mill.) te ### DEBT AND E 1/08 143.2 mill.	1.3 1.2 1.4 20.9 17.4 20.9 17.4 20.9 20.9 20.9 20.0 20.0 20.0 20.0 20.0	1.3 .9 16.2 345.2 35.4 396.8 4.5 11.8 12.9	ownership in New J wastewater tions serve through its ates, Inc. T and distrib and fire processed also provide Township Jersey substressed to the control of	and operative series and a rutility in ices and a sonnegula for companies water for evention ples water for East Brundiaries, Tidinpany, LLC, offer water int, and Sussethe Russel J. Richard	ion of regu Delaware, New Jerse service I ted subsidi y's water u for resident urposes. U reatment an inswick. Mi fer water a toton Towns ewater Util C, and Tide ex services sex counties I 3000 Ind I Tompkins	alated water as well as well as well as well as y. It offers ine mainter larry, Utility attility system and commender a speed pumping ddlesex Waship. The conties, Inc., Sewater Envito retail custs. In July, the dex. Has 2 s. Inc.: NJ.	utility systems as a regulated contract opera- nance program Service Affili- m treats, stores, recial, industrial, cial contract, it services to the ter's other New ater services to mpany's Dela- couthern Shores tronmental Ser- stomers in New the company was to see the compa
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Witness: Dr. James H. Vander Weide

- 4. Refer to the Direct Testimony of Dr. Vander Weide at 28-29 and Exhibit_JVW-1 Schedules 2-1 and 7-2.
 - a. Provide further evidence and further explanation of why gas companies are comparable in risk to water distribution companies and are appropriate for use as a proxy group for a water company. Provide the Value Line company profile sheets for the Local Distribution Company ("LDC") gas proxy group.
 - b. Provide a side-by-side comparison of the 2007 number of customers and the various sources of revenues, including but not limited to, state regulated revenues, federally regulated revenues, and all other sources of revenues in absolute terms and as a percent of total revenues for Kentucky-American and for the natural gas companies.
 - c. For each of the companies listed in the gas proxy group, provide an explanation of how each is appropriate for use as a proxy for Kentucky-American, which is a water distribution company.
 - d. Provide the Excel spreadsheets in electronic format supporting Schedule 2 with the data and formulas intact.

Response:

- a. Dr. Vander Weide uses two groups of proxy companies for the purpose of estimating Kentucky-American Water Company's cost of equity. The first group consists of seven publicly-traded water companies that are in the same business as Kentucky-American Water Company. The second group consists of 11 publicly-traded natural gas distribution companies that, although they are in a different business than KAWC, are comparable in risk to KAWC as measured by their Value Line Safety Ranks and betas. The financial and economic principles underlying the estimation of the cost of capital do not require that proxy companies be in the same business as the target company: they only require that proxy companies be similar in risk to the target company.
 - Dr. Vander Weide's proxy group of natural gas distribution companies are comparable in risk to KAWC because they: (1) invest primarily in a capital intensive physical network that connects the customer to the source of supply; (2) sell their products and services at regulated rates to customers whose demand

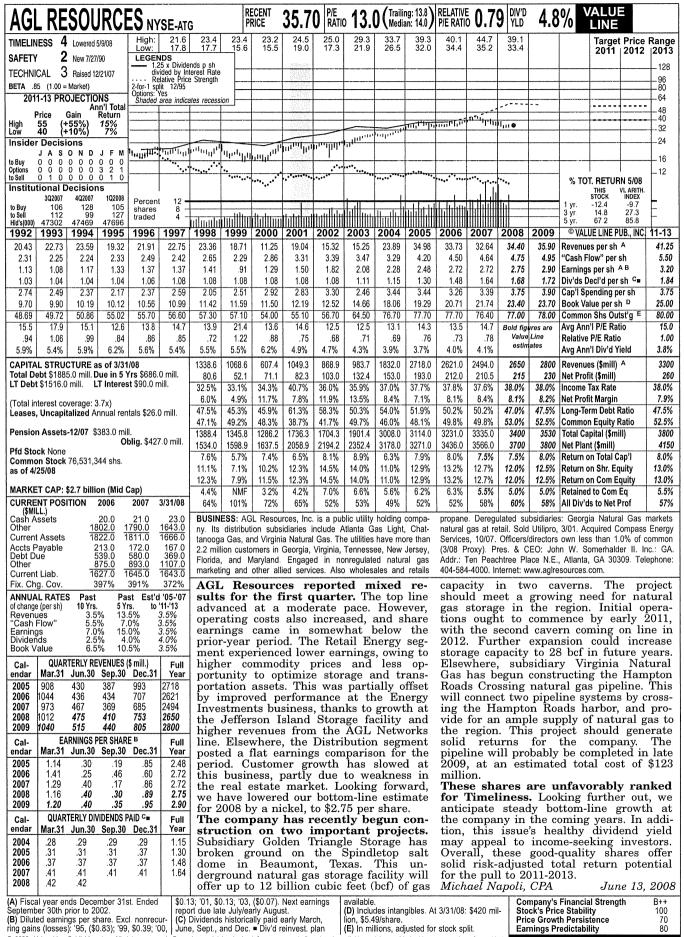
is primarily dependent on weather and the state of the economy; and (3) have Value Line Safety Ranks and betas similar to the publicly-traded water companies (see Vander Weide Direct Testimony p. 29 and Schedule 7-2).

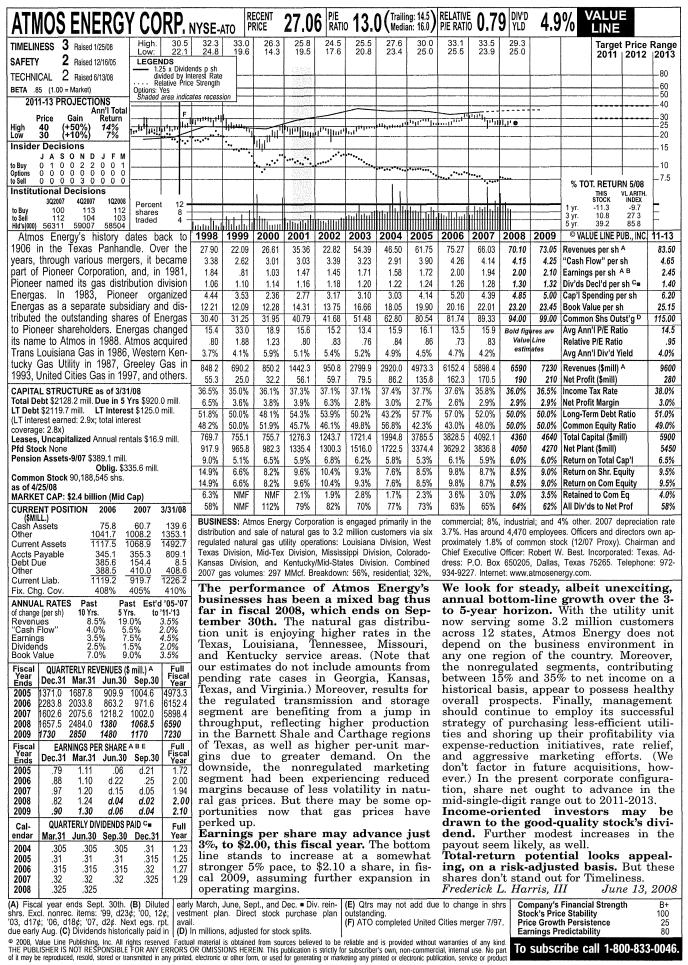
Gas distribution companies are appropriate for use as a proxy group for a water company because there are few publicly-traded water companies with sufficient data to estimate the cost of equity and because the publicly-traded gas distribution companies are similar in risk to the publicly-traded water companies. The Hope and Bluefield standards require that proxy companies be similar in risk to the target company; these standards do not require that the proxy companies be in the same business as the target company.

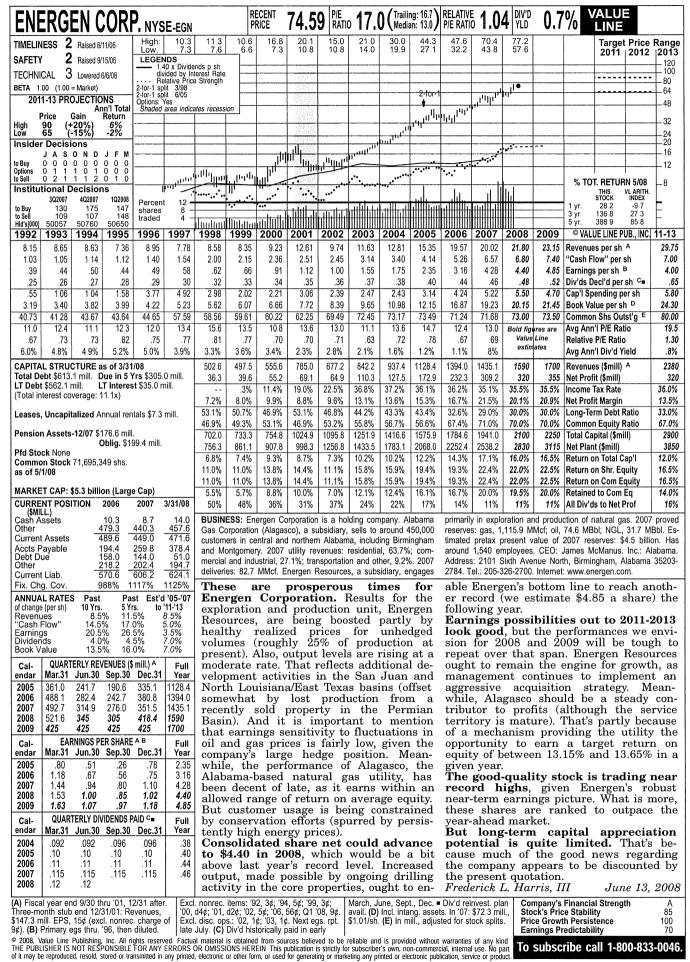
The Value Line reports for the natural gas distributions are attached.

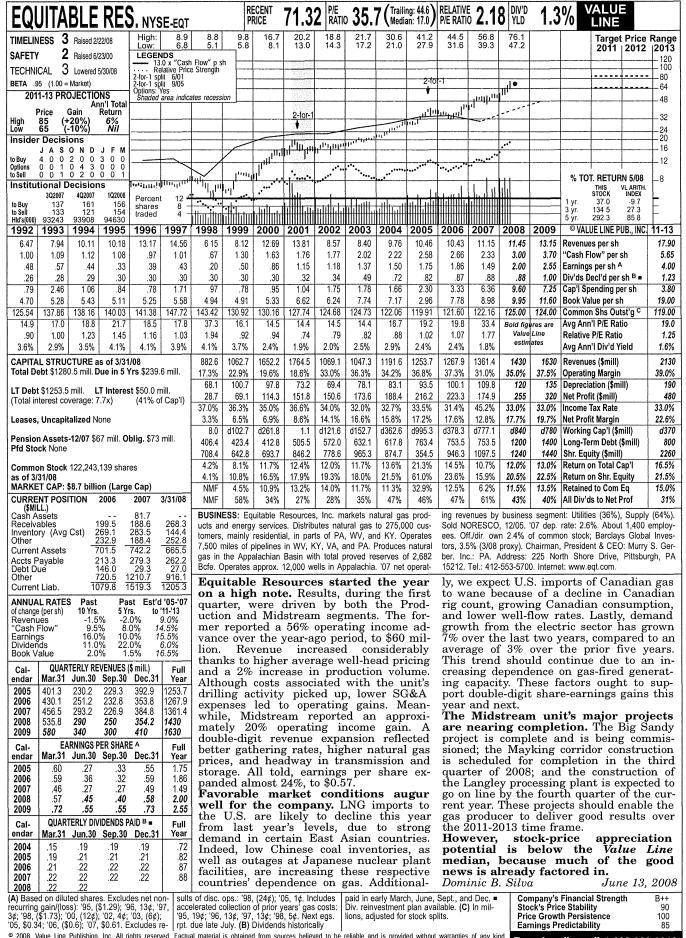
- b. Dr. Vander Weide's cost of equity recommendation is not based on a side-by-side comparison of the number of customers and various sources of revenues for the natural gas distribution companies compared to Kentucky-American Water Company. Dr. Vander Weide recognizes that the natural gas distribution companies have different numbers of customers and different sources of revenues than Kentucky-American Water Company. However, as noted in response to part (a.), the financial and regulatory principles enunciated in the Hope and Bluefield decisions do not require that proxy companies have the same number of customers and revenue sources as the target company. Rather, Hope and Bluefield require that the proxy companies be similar in risk to the target company.
- c. See response to parts (a.) and (b.).
- d. Please refer to the electronic file named KAW_R_PSCDR2#4d_010809.xls. The requested data are supplied.

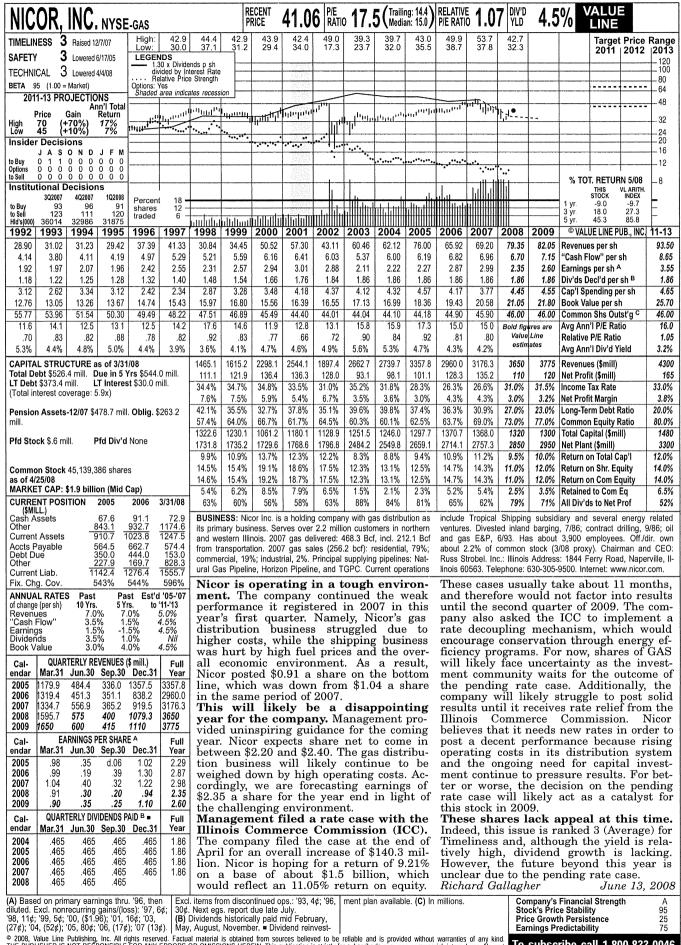
For the electronic version of this document, refer to KAW R PSCDR2#4 010809.pdf.

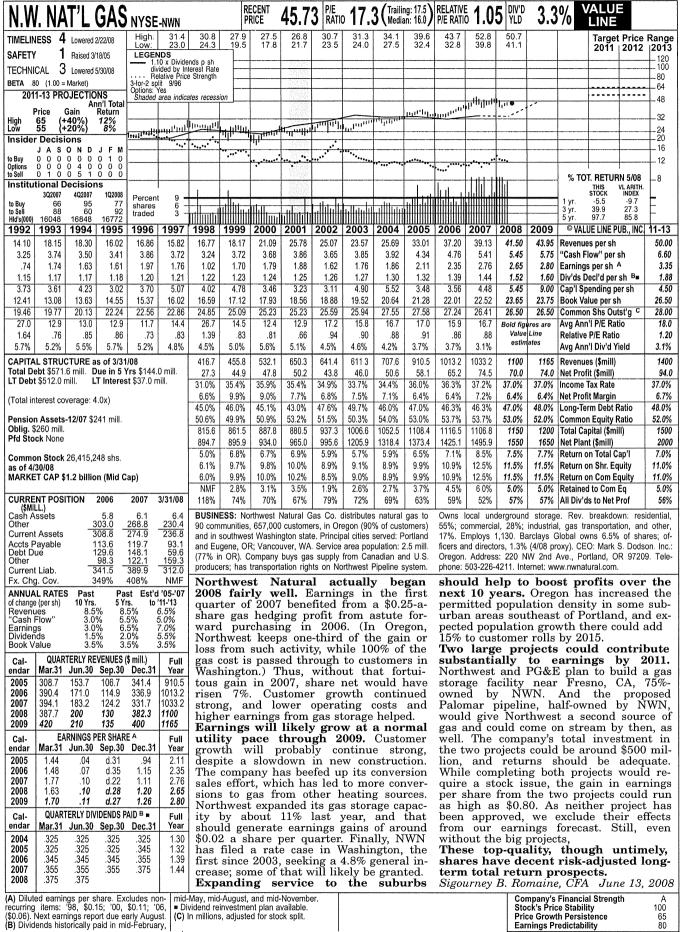




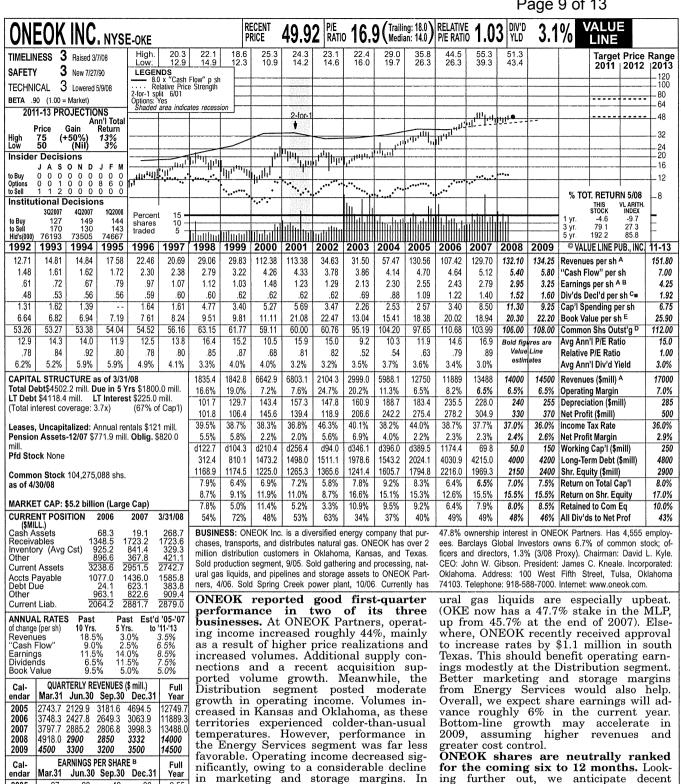








Earnings Predictability



.38 (A) Fiscal year ended August 31st through 1999, December 31st thereafter. (B) Diluted earnings. Excl. nonrecur. items: '02, 9¢; '03, (91¢), '05, \$2.51; '06, 25¢. Totals may not sum

.39

.31

.40

45

.21

.28

.30

.34

QUARTERLY DIVIDENDS PAID C.

Jun.30 Sep.30

.21

.13

.30

.40

.23

.28

.32

.36

.98

.89

.95

Dec.31

.25

.28

.32

.36

2.43

2 79

2.95

3.25

Year

88

1.09

2005

2006

2007

2008

2009

endar

2004

2005

2006

2007

2008

.97

1.17

1.36

1.36

1.45

Mar.31

.19

.28

due to rounding. Next egs. report due late July/early August. (C) Dividends historically paid mid-Feb., May, Aug., and Nov. • Div'd reinvest. plan avail. (D) In mill., adj. for split.

prior-year period.

(E) Includes intangibles. At 3/31/08: \$1.04 bill., \$9.99/sh.

Company's Financial Strength Stock's Price Stability 85 Price Growth Persistence **Earnings Predictability** 80

growth in earnings per share at the company for the pull to 2011-2013. That

should lead to steady annual dividend in-

creases. We've bumped up our long-term

earnings projection based on the expan-

sion opportunities at the partnership.

However, this appears to be partially dis-

counted by the current quotation, and to-

tal return potential for the coming years is below the *Value Line* median.

Michael Napoli, CPA

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sum, growth in the top line was offset by a

greater cost of sales and higher operating

expenses, and share net only matched the

We anticipate solid results at ONEOK

in the coming quarters, driven by continued strength from ONEOK Partners.

The partnership has numerous pipeline

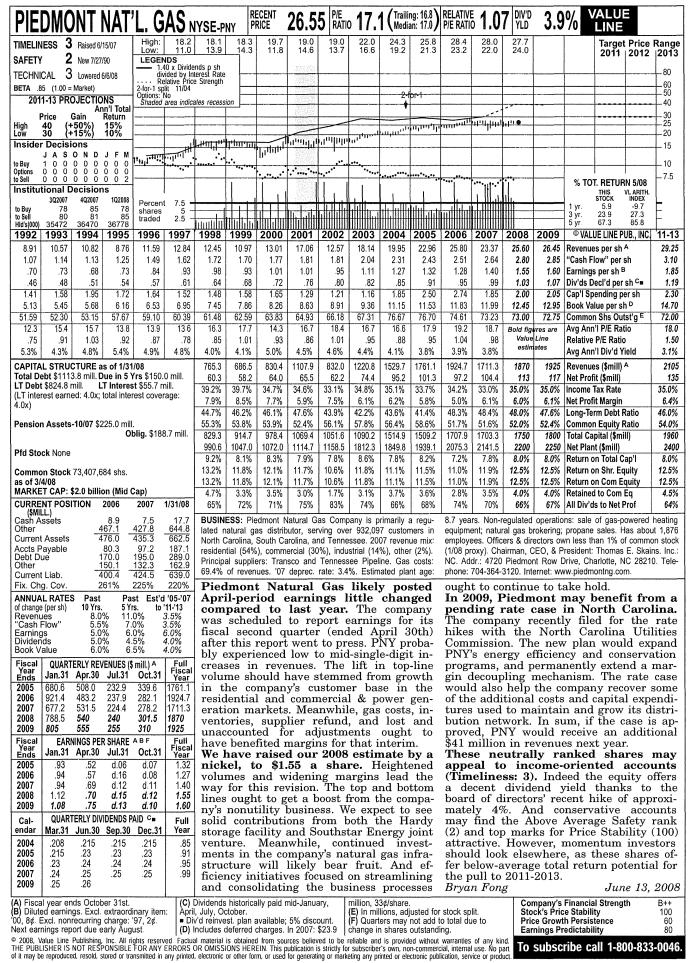
construction and expansion projects under

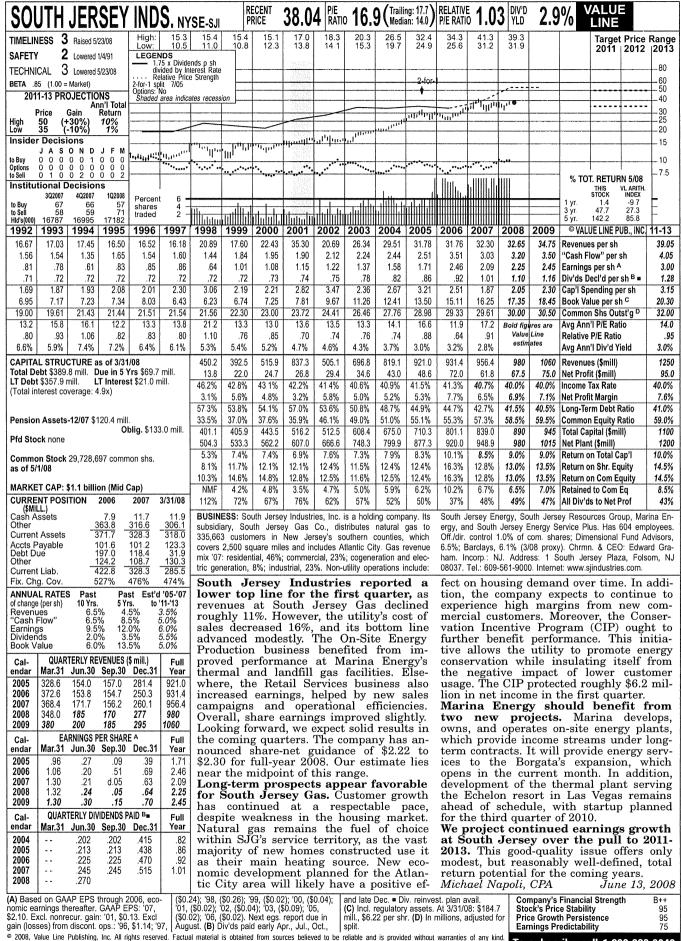
way that have promise for earnings in the

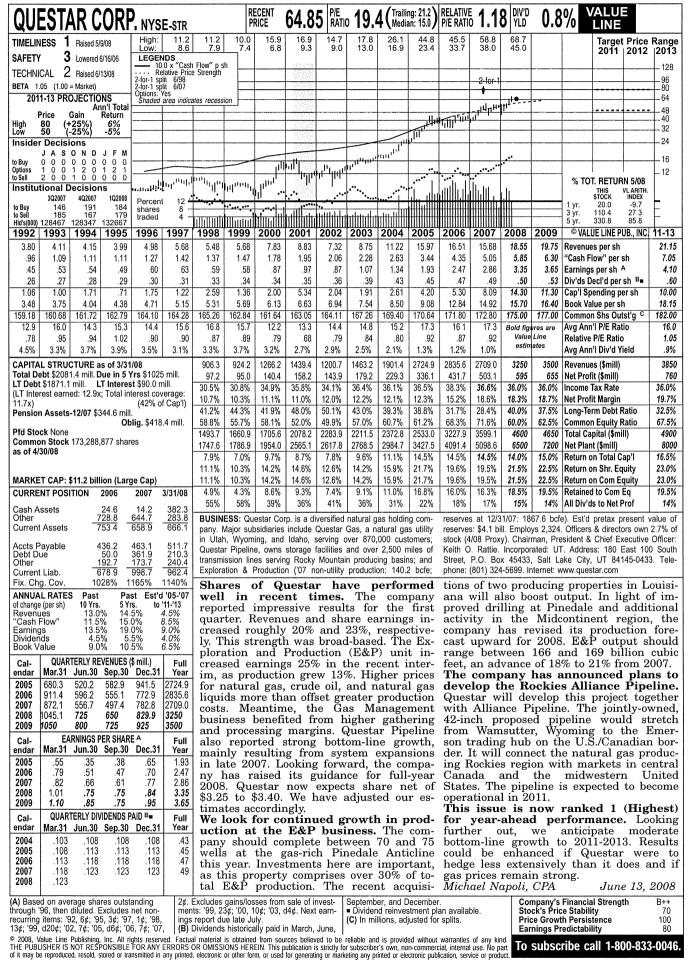
years ahead. Interests in the booming nat-

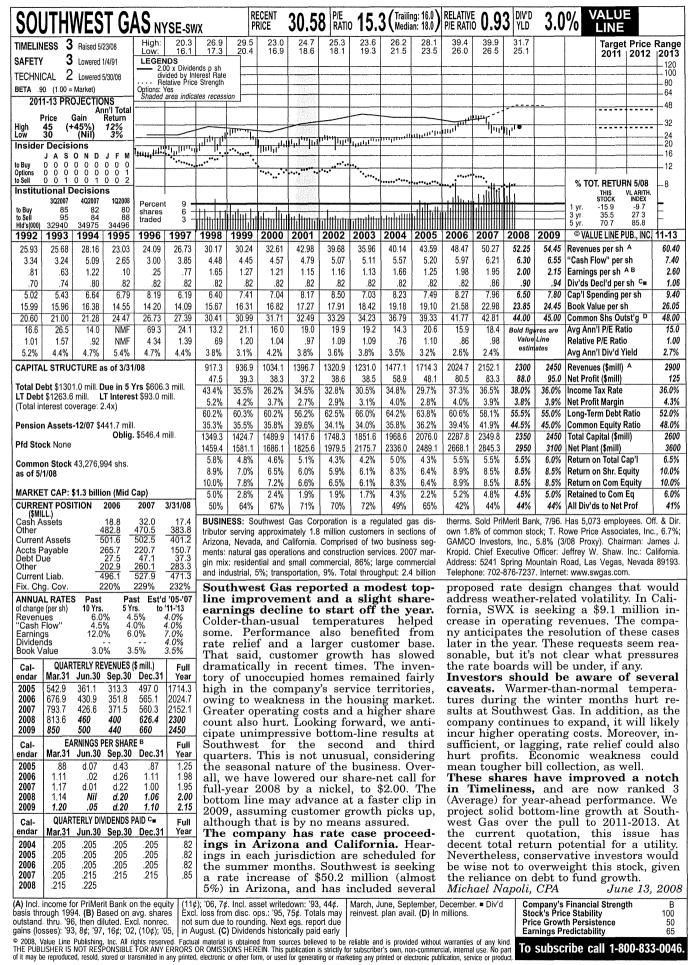
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June 13, 2008









Witness: Dr. James H. Vander Weide

5. Refer to the Direct Testimony of Dr. Vander Weide at 34.

- a. Provide evidence supporting the statement that Kentucky-American is "currently more risky than an investment in the average utility in the S&P Utilities Index over the entire period 1936 to the present."
- b. Provide a side-by-side comparison of the company with the average utility in the index.

Response:

- a. The referenced statement is based on Dr. Vander Weide's judgment as an expert on the cost of capital for public utilities. Since the companies in the S&P Utilities Index change over time, it would not be possible to provide numerical evidence supporting the statement that Kentucky-American Water Company is "currently more risky than an investment in the average utility in the S&P Utilities Index over the entire period 1936 to the present."
- b. It is not possible to provide a side-by-side comparison of Kentucky-American Water Company with "the average utility in the index" because the utilities in the index have changed over the period 1936 to the present.

For the electronic version, refer to KAW_R_PSCDR2#5_010809.pdf.

Witness: Dr. James H. Vander Weide

- 6. Refer to the Direct Testimony of Dr. Vander Weide at Exhibit_JVW-1 Schedule 7-1.
 - a. Provide an explanation as to why using the yield on 30-year treasury bonds would not be more appropriate than that of 20-year bonds for the risk-free rate.
 - b. Provide an explanation as to why a Capital Asset Pricing Model calculation using electric companies is relevant in this case.
 - c. Provide the pages from the SBBI 2007 Yearbook from which the use of the risk premium and from which both the historical and long horizon risk premium may be found.

Response:

- a. The CAPM requires that the same maturity Treasury bond be used to estimate the risk-free rate in the CAPM as is used to estimate the risk premium on the market portfolio. Since the Ibbotson Associates historical risk premium data uses the 20-year Treasury bond to measure the risk premium on the market portfolio, to be consistent, one must use the yield on a 20-year Treasury bond to estimate the risk-free rate in the CAPM.
- b. There is a typographical error in Schedule 7, page 1. As shown on Schedule 7, page 2, the 0.96 beta in the CAPM is the average beta for the proxy group of water companies.
- c. The requested data are supplied.

For the electronic version, refer to KAW_R_PSCDR2#6_010809.pdf.

Ibbotson SBBI

2008 Valuation Yearbook

Market Results for Stocks, Bonds, Bills, and Inflation 1926–2007



	Value
Yields (Riskless Rates) ¹	
Long-term (20-year) U.S. Treasury Coupon Bond Yield	4.5%
Equity Risk Premium ²	
Long-horizon expected equity risk premium (historical): large company stock total returns minus long-term government bond income returns	7.1
Long-horizon expected equity risk premium (supply side): historical equity risk premium minus price-to-earnings ratio calculated using three-year average earnings	6.2

Size Premium³

Decile	Market Capitalization of Smallest Company (in millions)	Market Capitalization of Largest Company (in millions)		Size Premium (Return in Excess of CAPM
Mid-Cap, 3-5	\$2,413.583	-	\$9,206.713	0.92%
Low-Cap, 6-B	\$725.267	-	\$2,411.794	1.65%
Micro-Cap, 9-10	\$1.922	_	\$723.258	3.65%
Breakdown of Deciles 1-10				
1-Largest	\$20,386.369	-	\$472,518.672	-0.34%
2	\$9,274.049	~	\$20,234.526	0.68%
3	\$5,025.807	-	\$9,206.713	0.76%
4	\$3,426.586	-	\$5,012.577	0.93%
5	\$2,413.583	_	\$3,422.743	1.47%
6	\$1,633.668	-	\$2,411.794	1.60%
7	\$1,129.192	_	\$1,633.320	1.50%
8	\$725.267	-	\$1,128.765	2.20%
9	\$363.549	-	\$723.258	2.56%
10-Smallest	\$1.922	-	\$363.479	5.82%
Breakdown of the 10th Decile				
10a	\$211.628	-	\$363.479	3.99%
10b	\$1.922	_	\$211.590	9.73%

¹ As of December 31, 2007. Maturity is approximate.

Note: Examples on how these variables can be used are found in Chapters 3 and 4

² See chapter 5 for complete methodology.

³ See chapter 7 for complete methodology.

Witness: Dr. James H. Vander Weide

- 7. Refer to the Direct Testimony of Dr. Vander Weide at 40-42 and Exhibit_JVW-1 Schedules 7-8.
 - a. Explain the differences between the Ibbotson SBBI risk premium and the DCF S&P 500 derived risk premium.
 - b. Explain why using the DCF S&P 500 derived risk premium is appropriate in this case.

Response:

- a. As described on pp. 39 40 of Dr. Vander Weide's direct testimony (Q. and A. 77), the Ibbotson SBBI risk premium is calculated as the difference between the arithmetic mean return on the S&P 500 and the income return on 20-year Treasury bonds over the period 1926 to the present. The DCF S&P 500 derived risk premium is calculated by applying the DCF model to each company in the S&P 500 using data as of the time of the testimony and subtracting the yield to maturity on 20-year Treasury bonds at that time from the DCF result.
- b. Using the DCF S&P 500 derived risk premium is appropriate in this case because it is a forward-looking estimate of the required risk premium on the market portfolio.

For the electronic version, refer to KAW_R_PSCDR2#7_010809.pdf.

Witness: Michael A. Miller/Keith L. Cartier

8. List all Kentucky-American facilities and contract operations that are not subject to the Commission's regulation.

Response:

The facilities and contract operations not subject to Commission regulations are limited to the operating income generated through the Company's contract with the Bluegrass Station. While subject to Commission jurisdiction, the Company has not included any cost of service elements associated with the Boonesboro and Owenton sewer operation in the cost of service/revenue requirement in this case.

For the electronic version, refer to KAW_R_PSCDR2#8_010809.pdf.