

FILED⁴

JUL 13 2004

Missouri Public
Service Commission

Exhibit No. 3

Issue: Rate of Return

Witness: John C. Dunn

Exhibit Type: Surrebuttal Testimony

Sponsoring Party: Missouri Gas Energy

Case No.: GR-2004-0209

Filing Date: June 14, 2004

BEFORE THE PUBLIC SERVICE COMMISSION
STATE OF MISSOURI

MISSOURI GAS ENERGY
CASE NO. GR-2004-0209

SURREBUTTAL TESTIMONY

OF

JOHN C. DUNN

ON BEHALF OF MISSOURI GAS ENERGY

June 2004

BEFORE THE PUBLIC SERVICE COMMISSION

OF THE STATE OF MISSOURI

In the Matter of Missouri Gas Energy's
Tariff Sheets Designed to Increase Rates
for Gas Service in the Company's Missouri
Service Area.

GR-2004-0209

AFFIDAVIT OF JOHN C. DUNN

STATE OF Missouri

COUNTY OF Cole

ss.

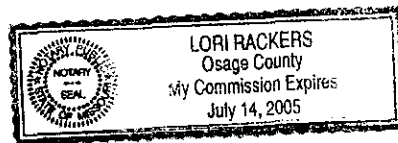
John C. Dunn, of lawful age, on his oath states: that he has participated in the preparation of the foregoing Surrebuttal Testimony in question and answer form, to be presented in the above case; that the answers in the foregoing Surrebuttal Testimony were given by him; that he has knowledge of the matters set forth in such answers; and that such matters are true and correct to the best of his knowledge and belief.


JOHN C. DUNN

Subscribed and sworn to before me this 14th day of June, 2004.


Notary Public

My Commission Expires: 7/14/05



**SURREBUTTAL TESTIMONY OF JOHN C. DUNN
ON BEHALF OF
MISSOURI GAS ENERGY**

INDEX TO TESTIMONY

	<u>Page Number</u>
Organization of Surrebuttal	1
Response to Staff Rebuttal Testimony.....	3
• Cost of Debt	3
• Capital Structure	5
• Comparable Companies	11
• Determination of Return on Equity.....	17
• Floatation Cost	17
• Growth Rate Calculation.....	19
• Risk Adjustment.....	22
• Financial Risk Adjustment.....	22
• Consideration of Other Decisions	23
• Murray's "thorough and complete analysis"	28
Response to Public Counsel Rebuttal Testimony	31
• Rate of Return	31
• Capital Structure	35
• Statistical Risk Analysis	36

**SURREBUTTAL TESTIMONY OF JOHN C. DUNN
ON BEHALF OF
MISSOURI GAS ENERGY**

1 Q. Please state your name and business address.

2 A. My name is John C. Dunn. My business address is 7400 West 110th Street, Suite 750,
3 Overland Park, KS 66210.

4 Q. Are you the same John C. Dunn who filed direct testimony and rebuttal testimony in this
5 case before the Missouri Public Service Commission ("Commission") on behalf of
6 Missouri Gas Energy ("MGE"), a division of Southern Union Company ("Southern
7 Union")?

8 A. Yes I am.

9 Q. What is the purpose of your surrebuttal testimony?

10 A. The purpose of this testimony is to respond to the rate of return rebuttal testimony of Mr.
11 David Murray, a witness for the Commission Staff ("Staff"), the rate of return rebuttal
12 testimony of Mr. Travis Allen, a witness for the Office of the Public Counsel ("Public
13 Counsel") and the statistical rebuttal testimony of Ms. Barbara Meisenheimer also a
14 witness for the Public Counsel.

ORGANIZATION OF SURREBUTTAL

16 Q. How is your surrebuttal testimony organized?

17 A. The surrebuttal testimony is organized into two main sections. Each deals with a point
18 by point response to the individual rebuttal testimonies of the Staff and Public Counsel
19 witnesses.

20 More specifically, in connection with Staff witness Murray's rebuttal testimony I will
21 comment on the following matters:

- 22 • The cost of debt.
23 • The proper capital structure.

- The comparable companies.
- The determination of return on equity.
- The issue of floatation cost.
- The issue of a risk adjustment.
- The matter of including dividend growth in the discounted cash flow ("DCF") calculation.
- The issue of financial risk.
- The consideration of other Commission decisions in determining the appropriateness of the rate of return recommendation.

In connection with the Public Counsel witness Allen's rebuttal testimony, I will discuss the following areas:

- The proper capital structure.
- The comparable companies.
- The use of the retention rate calculation.
- The use of the dividend per share growth rate in the growth rate calculations.
- The recommendation of a hypothetical capital structure.
- The matter of floatation cost.
- Risk adjustments.

With respect to the Public Counsel witness Meisenheimer's rebuttal testimony, I will comment on the single issue which is discussed in that testimony, i.e. the statistical risk analysis which I included in my direct testimony.

Q. It appears that there is some commonality in the areas of discussion between the Staff and Public Counsel rate of return issues. Will your comments cover both rebuttal testimonies?

A. In the areas of capital structure, the comparative company selections, the issue of floatation cost and the inclusion of dividend growth in the DCF growth rate calculations, my surrebuttal testimony will apply to both the Staff and the Public Counsel rebuttal testimonies. The other issues will be discussed separately.

RESPONSE TO STAFF REBUTTAL TESTIMONY

Cost of Debt

Q. What is the issue with respect to the cost of debt?

A. Staff witness Murray, at page 3 of his rebuttal, states that he relies on the imbedded cost of long term debt for Southern Union on a consolidated basis which was provided to him by MGE in Response to Data Request No. 0102. He goes on to criticize my cost of debt and the fact that I did not include short term debt in the capital structure (p. 3, lns 20-23).

Q. How would you characterize the approach of Staff witness Murray to the calculation of the imbedded cost of long term debt?

A. It is not correct.

Q. Why not?

A. The Staff witness has calculated a cost of long term debt based on all of the Southern Union debt outstanding on a consolidated basis, including the debt of Panhandle Eastern Pipeline Company ("Panhandle Eastern"). This approach is wrong for at least two reasons.

Q. What is the first reason?

A. The Staff has repeatedly indicated in previous proceedings that when a company has a subsidiary which issues its own debt, that subsidiary is subject to a stand-alone analysis. In this case Panhandle Eastern is a subsidiary of Southern Union. Panhandle Eastern has its own long term debt outstanding, which is separately rated by the ratings agencies and which was issued by Panhandle Eastern based on its own financial structure without recourse to Southern Union. In fact, all of the Panhandle Eastern long term debt used by

1 witness Murray in his calculation and shown on his as shown on Schedule 10 was issued
2 well before Panhandle Eastern was acquired by Southern Union.

3 Q. What is the second reason?

4 A. The Staff witnesses' approach of including the Panhandle Eastern debt violates the
5 Commission's order in Case No. GM-2003-0238 which requires that MGE be
6 "insulated" from Panhandle Eastern.

7 Q. Does the Staff witness imply that Standard & Poor's is not aware of the Commission
8 Order in Case No. GM-2003-0238?

9 A. Yes. In his discussion of capital structure, Mr. Murray quotes a portion of a Standard &
10 Poor's ("S&P") Credit Rating Research Report on Southern Union. Mr. Murray
11 concludes from this report that S&P does not recognize the fact that MGE's natural gas
12 distribution properties have been effectively "insulated" from Panhandle Eastern. (p. 12,
13 Ins 6-27).

14 Q. Do you agree with his interpretation of this report?

15 A. No. S&P apparently was unaware of the stipulation when opining that Southern Union
16 would use available cash to support debt service for either entity. I say this because in a
17 subsequent S&P research report dated April 6, 2004, S&P changed the rating
18 methodology, although not the credit ratings of Southern Union and Panhandle Eastern.
19 Importantly, S&P dropped the statement that Southern Union management would use
20 available cash to support debt service for either entity.

21 Q. Do you believe that the change in methodology is recognition by S&P that its June 11,
22 2003 research report was in error?

23 A. Yes, I do.

1 Q. Why?

2 A. A change of that magnitude by S&P is an important event. Many companies have a
3 rating methodology which does not change for years. Here, there was an abrupt change
4 and it was significant.

5 Q. What is the proper cost of MGE's long term debt for purposes of this case?

6 A. It is 7.434% at April 30, 2004, the true up date for the capital structure.

7 Q. Is there a difference between the Staff and MGE in the cost of preferred stock?

8 A. No. There is only a rounding difference in the costs. Mr. Murray calculates his cost of
9 preferred stock on Schedule 11 to his direct testimony. The source of that calculation is
10 MGE's response to Data Request 0102. The correct number is 7.758%.

11 **Capital Structure**

12 Q. What is the issue concerning capital structure that Staff witness Murray addresses in his
13 rebuttal testimony?

14 A. In his rebuttal, Staff witness Murray criticizes my use of the Southern Union capital
15 structure exclusive of Panhandle Eastern at June 30, 2003. Mr. Murray proposed in his
16 direct testimony the consolidated capital structure, including the Panhandle Eastern long
17 term debt, and he continues on pages 7 and 8 of his rebuttal testimony to make a series of
18 calculations using an erroneous capital structure which was first introduced in his direct
19 testimony. Mr. Murray then reiterates in his rebuttal his support for the consolidated
20 capital structure. This significant error by the Staff witness is discussed in the rebuttal
21 testimony of MGE witness Gillen.

22 Q. In discussing the capital structure issue in his rebuttal, Staff witness Murray states that it
23 has always been the Staff position that when a company (such as MGE) is a division of a

1 "parent" company (such as Southern Union) and relies on the "parent" for its capital
2 needs the Staff "has consistently recommended the consolidated capital structure of the
3 parent company," for ratemaking purposes. (rebuttal, p. 10, lns 5-6) Is this a correct
4 statement?

5 A. No.

6 Q. Please explain.

7 A. In Docket No. RP99-485-000, a rate proceeding before the Federal Energy Regulatory
8 Commission ("FERC") involving KPC (the former Kansas Pipeline Company) the
9 Commission presented the testimony of Mr. Ron Bible, the Commission's Manager of
10 the Financial Analysis Department. The examiner's report in that case summarizes the
11 Commission's position and states that the

12 "MoPSC asserts that in setting the rate of return allowance for a
13 regulated pipeline, the Commission has a preference for using the actual
14 capital structure of the pipeline, so long as the pipeline can demonstrate
15 that it is an independent financial entity. To demonstrate the requisite
16 financial independence, the pipeline must show: (1) without a guarantee
17 from its parent it issues its own debt; and (2) it has its own bond rating."
18 (Footnotes omitted)

19
20 Q. How does the Commission's position in the KPC case apply in this case?

21 A. The Panhandle Eastern subsidiary is an independent financial entity according to the
22 definition advocated by Mr. Bible for the Commission. Therefore, in this case the
23 independent financial entity, Panhandle Eastern, should be removed from the Southern
24 Union consolidated capital structure because it will be regulated separately on its own
25 capital structure by FERC. Consequently, the Southern Union standalone capital
26 structure, without Panhandle Eastern, should be the capital structure used for
27 determining the rate of return for MGE in this case.

1 Q. Mr. Dunn, what evidence do you have that Southern Union and Panhandle Eastern are
2 separately rated?

3 A. The research report of S&P dated April 6, 2004, (Surrebuttal Schedule JCD-1) clearly
4 identifies both Southern Union and Panhandle Eastern each with their own S&P ratings.

5 Q. Has Moody's separately rated both Southern Union and Panhandle Eastern?

6 A. Yes. In its analysis dated February, 2004, (Surrebuttal Schedule JCD-2) Panhandle
7 Eastern is separately discussed by Moody's. It is clear from that document that
8 Panhandle Eastern has a rating separate from Southern Union.

9 Q. Mr. Dunn, please summarize how the position on financial independence advocated by
10 Mr. Bible on behalf of the Commission in the FERC proceeding involving KPC
11 mandates the use of the Southern Union standalone capital structure in this case without
12 Panhandle Eastern?

13 A. The position advocated by Mr. Bible on behalf of the Commission in the KPC case is
14 that a financially independent company should be regulated using its own capital
15 structure, and Panhandle Eastern meets this definition of financial independence. This
16 can only mean that divisions of Southern Union such as MGE should be regulated using
17 the remainder of the consolidated capital structure, exclusive of the capital structure of
18 Panhandle Eastern, as long as the remaining divisions form a homogenous group and are
19 financed as a group.

20 Q. What impact does this have on the capital structures and calculations that appear on
21 pages 6 through 9 of Mr. Murray's rebuttal testimony?

1 A. It demonstrates that Mr. Murray's capital structure calculations are incorrect and should
2 not be accorded any weight. The capital structure that should be used in calculating rate
3 of return is the capital structure for Southern Union, exclusive of Panhandle Eastern.

4 Q. In connection with the discussion of the capital structure and the Staff's effort to justify
5 the use of the consolidated capital structure with a low common equity ratio, Staff
6 witness Murray describes the refinancing of the Southern Union TOPrS with a new issue
7 or series of preferred stock. This discussion begins at page 13, line 7 of Mr. Murray's
8 rebuttal and continues on to page 14. Do you have a response?

9 A. Yes. Mr. Murray implies that proceeds from the October preferred issuance were used
10 to fund the acquisition of Panhandle Eastern. This is not true because it would have
11 constituted a violation of the Stipulation and Agreement approved by the Commission in
12 Case No. GM-2003-0238 precluding the flow of cash from Southern Union to Panhandle
13 Eastern, absent Commission approval, and otherwise insulating MGE from Panhandle
14 Eastern.

15 Q. Mr. Dunn, have you made an affirmative calculation of rate of return including a
16 proforma capital structure and actual costs of debt and preferred?

17 A. Yes.

18 Q. What is the date of that capital structure used in that calculation?

19 A. The date of the capital structure is April 30, 2004. This date is the true-up date for this
20 rate proceeding. MGE and the Staff have agreed to true-up the capital structure as of
21 that date.

22 Q. What is the cost of long term debt which will be used in that capital structure?

23 A. The cost of debt included in the capital structure is 7.434%.

1 Q. What is the cost of preferred stock?

2 A. The cost of preferred stock included in the capital structure is 7.758%.

3 Q. What is the total capital structure?

4 A. The total capital structure is \$2,002,287,943. That capital structure is composed of the
5 following elements:

6 TABLE 1
7 Pro Forma Capital Structure
8 Southern Union Company Only
9 April 30, 2004

	<u>Amount</u>	<u>Ratio</u>
13 Long Term Debt	\$ 948,833,985	47.39%
14 Preferred Equity	230,000,000	11.49
15 Common Equity	823,453,958	41.13
16 TOTAL	<u>\$2,002,287,943</u>	<u>100.00%</u>

18 Q. The capital structure has no short-term debt included. Is there a short-term debt balance
19 at April 30, 2004?

20 A. Southern Union has no short-term debt balance on April 30, 2004. All of its short term
21 debt has been repaid.

22 Q. What adjustments have been made to this capital structure?

23 A. There have been three adjustments. The purpose of which was to eliminate any effect of
24 the Panhandle Eastern acquisition from the resulting capital structure. The first
25 adjustment is to eliminate \$48.9 Million of common equity which is related to the
26 Panhandle Eastern purchase. This is the value of three million shares of Southern Union
27 stock that were included in the transaction. The second adjustment is to eliminate \$91
28 Million in equity related to retained earnings of Panhandle Eastern since the acquisition.
29 The third adjustment eliminates the hybrid security. The last adjustment recognizes that

1 the balance of the purchase price, approximately \$145 million, was raised through the
2 issuance of common equity and equity units; approximately \$84.5 million in equity and
3 \$60.5 million in debt (the 5.75% equity units).

4 Q. In your opinion does this capital structure eliminate all amounts related to the acquisition
5 of Panhandle Eastern?

6 A. Yes. This capital structure eliminates all Panhandle Eastern related capital and complies
7 with Generally Accepted Accounting Principles ("GAAP").

8 Q. What is the rate of return associated with this capital structure using the cost of debt and
9 preferred stock that you previously stated?

10 A. The overall rate of return, using the cost of debt and preferred previously stated and a
11 return on equity of 12%, is 9.35%. That calculation is as follows:

12 TABLE 2

13
14 Rate of Return
15 Southern Union Company Only
16 April 30, 2004
17

	<u>Ratio</u>	<u>Cost</u>	<u>Weighted Cost</u>
18 Long Term Debt	47.39%	7.434%	3.52%
19 Preferred Equity	11.49	7.758	.89
20 Common Equity	<u>41.13</u>	<u>12.000</u>	<u>4.94</u>
21			
22 TOTAL	<u>100.00%</u>	----	<u>9.35%</u>
23			
24			
25			
26			

27 Q. Do your comments with respect to capital structure apply equally to the Staff and Public
28 Counsel rebuttal testimonies?

29 A. Only to a certain extent. Public Counsel advocated the consolidated capital structure in
30 its direct testimony, but it did not use the Panhandle Eastern debt to attempt to reduce the

1 cost of debt for MGE. The use of the consolidated capital structure was wrong, but the
2 calculation of the cost of debt was correct. In the rebuttal testimony, the Public Counsel
3 recommended the use of a hypothetical capital structure. (p. 14, lns 13-20) I agree that
4 the use of a hypothetical capital structure is appropriate, but I disagree with the ultimate
5 selection of the hypothetical capital structure. I will discuss that later in this testimony.

6 Q. Have you reviewed the deposition of Dr. Roger A. Morin which was taken in this case
7 by the Staff and Public Counsel on June 10, 2004?

8 A. Yes. I attach a copy of the transcript of Dr. Morin's deposition as Surrebuttal Schedule
9 JCD-3.

10 Q. Did Dr. Morin comment on the use of a hypothetical capital structure in his deposition?

11 A. Yes, he indicated that the use of a hypothetical was very appropriate, in fact probably the
12 best approach in this case because of the low equity ratio of the consolidated capital
13 structure advocated by the Staff in this case. (Morin deposition, p. 97 and following)

14 **Comparable Companies**

15 Q. Does the Staff witness indicate that he has concerns with respect to the proxy companies
16 that you use for your return on equity analysis?

17 A. Yes. Beginning at page 18 of Mr. Murray's rebuttal testimony, there is some discussion
18 concerning the selection and the resulting group of companies that I use to establish a
19 benchmark or baseline return on equity.

20 Q. What is the essence of the criticism?

21 A. The primary criticism is that some of the companies in my comparative group are not in
22 the Edward Jones natural gas distribution group at December 30, 2003 and therefore are
23 not the least diversified group of gas distribution companies available.

1 Q. Do you believe this is a reasonable criticism?

2 A. No. Furthermore, I don't believe that it has any meaning.

3 Q. Please explain.

4 A. As I explained in my direct testimony, in a rate of return analysis, it is impossible to
5 develop a group which is precisely comparable to any subject company. Consequently it
6 is essential that a benchmark return be developed for a proxy group of companies and
7 that the risk differential between the proxy group and the subject company then be
8 quantified using statistical and qualitative tools so that appropriate adjustment for
9 risk/comparability differences can be made.

10 Q. Did you perform such an analysis, i.e. determine a benchmark return and then calculate
11 adjustments using statistical and qualitative tools?

12 A. Yes, I did.

13 Q. Did either the Staff or the Public Counsel witnesses follow this approach?

14 A. No.

15 Q. Did Dr. Morin comment on the selection of comparable companies in his deposition?

16 A. Yes.

17 Q. And what was said?

18 A. He indicated that in the past he tried to select companies that were as comparable as
19 possible in making a comparative group. However, he went on to say that with the
20 changes in the utility industry, he now selected as broad a group as possible and did his
21 analysis followed by an appropriate risk adjustment. (Surrebuttal Schedule JCD-3, pages
22 52 & 53)

23 Q. Is this the methodology you used?

1 A. It is.

2 Q. Since the Staff witness did not make a qualitative analysis or quantitative analysis of the
3 risk differences between its proxy group and MGE, is it possible that there are
4 substantial differences between MGE and the Staff proxy group?

5 A. Yes. There are very substantial differences between the proxy companies used by Staff
6 and by MGE. As a matter of fact, the Staff's proxy group just isn't comparable to MGE.

7 Q. Please give us an example.

8 A. One of the companies in the Staff proxy group is AGL Resources, the parent company of
9 Atlanta Gas Light. AGL Resources does not own the natural gas in its system in the
10 traditional distribution sense. AGL Resources simply sells transportation services to its
11 customers.

12 Q. What impact does this difference with AGL have on a comparative analysis?

13 A. It has a major impact on risk. The weather exposure for natural gas cost and the
14 exposure to disallowances of natural gas costs incurred by the company is eliminated for
15 Atlanta Gas Light, while it is substantial for MGE. As a result MGE has much greater
16 risk.

17 Q. Are there other differences?

18 A. Yes. The depreciation rates for MGE are lower than for the Staff comparative group.
19 This means that MGE's investors will recapture their capital investment over a longer
20 period of time than will the investors in the companies that comprise the Staff proxy
21 group. This means that, all other things equal, the return of investment in MGE is at
22 greater risk, simply because the investment is exposed to higher levels and greater
23 numbers of unexpected events over a longer period of time.

1 Q. Are there any other differences?

2 A. Yes. Several of the companies in the Staff proxy group (AGL Resources, New Jersey
3 Resources, Northwest Natural Gas, Piedmont Natural Gas, South Jersey Industries and
4 WGL Holdings, Inc.) have weather normalization or moderation clauses of one type or
5 another. This is also true for a number of companies the Public Counsel proxy group
6 (AGL Resources, South Jersey Industries, Northwest Natural Gas and WGL Holdings,
7 Inc.) as well as for several companies in the MGE proxy group (AGL Resources, Atmos
8 Energy, Laclede Gas, NUI Corp., New Jersey Resources, Northwest Natural Gas,
9 Piedmont Natural Gas, South Jersey Industries and WGL Holdings, Inc.). MGE does not
10 have such a clause. MGE has requested one in this proceeding, but the Staff and Public
11 Counsel have opposed that request. Consequently, MGE has greater risk exposure due
12 to the impact of weather on its revenue streams. Furthermore, in comparison to Atlanta
13 Gas Light, the risk for MGE is magnified because Atlanta Gas Light has no costs
14 associated with any weather related commodity costs. AGL Resources, Nicor and
15 Peoples Energy also have in place environmental recovery surcharges/riders related to
16 manufactured gas plant costs that mitigate risk related to the recovery of MGP-related
17 costs.

18 Q. Did the Staff witness make any analysis of the companies which he included in his proxy
19 group?

20 A. Incredibly he did not. MGE's Data Request No. 0163 to Staff witness Murray on
21 5/11/04 requested that Mr. Murray describe his evaluation of his comparable companies
22 including a specific evaluation of:

23 a. the equity ratio of each of the companies;

- b. the sales mix of each of the companies;
- c. the ownership of pipelines by each of the companies as it compares to Southern Union and MGE;
- d. the sale or propane by each of the companies as it compares to Southern Union and MGE;
- e. the number of customers of each of the companies as it compares to Southern Union and MGE;
- f. whether or not the companies are legally established as a holding company;
- g. whether or not each of the companies engage in exploration;
- h. whether or not the companies generate electricity;
- i. whether or not he companies own natural gas storage.

Mr. Murray did not evaluate any of these important factors except for the sales mix of each of the companies. Attached as Surrebuttal Schedule JCD-4 is a copy of his response.

Q. One of the concerns expressed by the Staff in its rebuttal testimony is that you included in your proxy group a Missouri company, Laclede Gas Company. How do you respond?

A. It is not a valid concern.

Q. Please explain.

A. Many years ago, when the Commission made its determination of the required return on equity using book data only, it was appropriate that it not consider companies under its jurisdiction in reaching conclusions about other companies under its jurisdiction. Clearly there was a problem of circularity if the Commission used its own prior decisions to make current decisions.

Today, however, things are entirely different. The Staff and other witnesses before the Commission on the issue of rate of return have used the DCF methodology. The DCF

1 model breaks the chain that makes circularity or feedback a problem in the decision
2 making process.

3 Q. How does it do that?

4 A. The Commission makes a decision. That decision may impact the book returns on
5 equity and the book earnings of the company. However, it is the multitude of
6 shareholders and institutions acting independent of the Commission and independently
7 from each other which causes stock prices to move up and down and dividend yields to
8 be established. It is these shareholder determined dividend yields that become a crucial
9 part of the DCF calculation and dominate the DCF cost of common equity. Thus even
10 though the Commission made a decision that impacts book returns, it has limited impact
11 on the DCF return and those DCF returns therefore do not have the potential for
12 introducing material circularity or feedback into the decision making process if they are
13 an appropriate part of a comparative group. It is simply incorrect to exclude Missouri
14 companies from the process just because they are Missouri regulated.

15 **Determination of Return on Equity**

16 Q. What does the Staff witness say in his rebuttal testimony concerning your determination
17 of the required return on equity for MGE?

18 A. Beginning at page 23 of his rebuttal testimony, Mr. Murray presents his position on
19 calculating the return on equity. An important part of that position is that no floatation
20 costs should be taken into consideration in calculating the DCF cost of equity, in spite of
21 the fact that floatation cost is a required and a well-accepted part of the DCF formula.
22 The Staff witness also asserts that MGE cannot be classified as a small company and
23 consequently does not experience greater risk as a result of its size; that I did not

1 calculate a growth rate by averaging a series of numbers as the Staff did, but rather used
2 judgment in determining the appropriate growth; that I should have used a geometric
3 mean rather than an arithmetic mean in calculating historical growth rates in my year-to-
4 year growth rate calculation; and that it is impossible to make an adjustment for financial
5 risk because it is impossible to hold everything else equal or constant in a proxy group
6 (p. 39, lns 1-9)

7 Q. How do you respond?

8 A. These are not valid criticisms and some of the assertions, such as the inability to make a
9 financial risk adjustment, are incorrect.

10 **Floatation Cost**

11 Q. Staff suggests that the stipulation approved by the Commission in connection with the
12 acquisition of Panhandle Eastern prohibits an adjustment for floatation expense. Do you
13 agree with that assertion?

14 A. No. Staff uses the stipulation or ignores it as suits its purpose. Staff ignores it, for
15 example, by including the lower cost of debt of Panhandle Eastern when calculating the
16 cost of debt of Southern Union. Staff then takes advantage of the stipulation to argue
17 that a conventional, ordinary and reasonable adjustment to the DCF for floatation
18 expense is prohibited.

19 Q. What is the floatation adjustment?

20 A. The floatation cost adjustment is explained in the direct testimony but it is simply an
21 adjustment to reflect the fact that expenses are incurred in connection with the sale of
22 new common stock and that the only way in which the shareholder can be reimbursed for

1 those expenses is if they are accounted for in the rate proceeding. It also accommodates
2 pre-offering pressure.

3 Q. Does Southern Union anticipate a sale of common stock?

4 A. Yes.

5 Q. Is there any affirmative evidence of that fact?

6 A. Yes. The Massachusetts Commission received a presentation by Southern Union in
7 connection with the sale of that common stock and has approved the sale by an order. I
8 have attached that order as Surrebuttal Schedule JCD-5.

9 Q. Will MGE benefit from the issuance of new common stock?

10 A. Yes, it will. There will be additional equity capital available to MGE to add to the
11 facilities which are used and useful in supplying natural gas distribution service to its
12 Missouri customers; there will be an improvement in the equity ratio of Southern Union;
13 there will be a maintenance of investment grade ratings for Southern Union's bonds and
14 the capital structure will be more balanced. All of these factors will benefit the
15 customers of MGE.

16 Q. Will any of these funds be used for the direct benefit of Panhandle Eastern?

17 A. No. None of these funds related to the proceeds of the sale of equity securities will be
18 distributed to Panhandle Eastern. It will not be a beneficiary of the equity offering.

19 Q. Is an adjustment for floatation costs an ordinary part of the DCF model?

20 A. It is.

21 Q. Did Dr. Morin comment on the lack of a floatation adjustment in the Staff DCF
22 calculation?

1 A. Yes he did. On pages 13 and 14 of the transcript of his deposition he indicates that the
2 floatation cost adjustment is omitted from the Staff DCF calculation and that it results in
3 an understatement of the cost of equity of 30 basis points to Surrebuttal Schedule JCD-3.
4 On page 40 of his deposition he describes the Murray DCF as lacking "the real world
5 refinements like floatation costs" and concludes at page 26 of his deposition that this is
6 one of the errors which causes him to conclude that Mr. Murray is not an expert in the
7 field of rate of return. (id.)

8 **Growth Rate Calculation**

9 Q. Staff witness Murray is critical of the fact that you did not have a specific calculation to
10 determine your growth rate for the DCF. How do you respond?

11 A. It is not a valid criticism.

12 Q. Please explain.

13 A. The Staff witness has employed a very mechanical approach to the determination of the
14 cost of equity using the DCF model. In my opinion, rather than following this rigid
15 "mechanical" approach, it is much more appropriate to examine the data and apply
16 judgment to that data to determine the appropriate return on equity using the DCF model.
17 Specifically, a component of the DCF calculation is the growth rate and the appropriate
18 way to determine the growth rate is to examine the historic growth rates and available
19 projected growth rates, and based upon that array of data to reach a conclusion about a
20 reasonable growth rate for the future of a typical natural gas distribution company.
21 Reaching that conclusion is a matter of judgment; it is not just a matter of mechanically
22 running raw data through a series of calculations.

23 Q. Does Dr. Morin agree that the process is one of judgment and not simply calculation?

1 A. Yes. During his deposition, he indicated that he reviews all of the information that he
2 can develop and then reaches a "global judgment" on the issue of rate of return. It is not
3 a calculation. (Surrebuttal Schedule JCD-3, page 103)

4 Q. Are there any other pitfalls associated with the use of the mechanical approach such as
5 that used by the Staff witness?

6 A. Yes. After layering average on top of average, Staff witness Murray has included
7 historical growth in dividends per share in his calculation several times. As has been
8 abundantly demonstrated in testimony in this proceeding and by the data included in the
9 Staff and Public Counsel testimonies and schedules, the dividend policy of natural gas
10 distribution companies has changed. Many of the companies in the Staff group, for
11 example, have not raised their dividends for many years at a time. As a result, the
12 growth in dividends per share is abnormally low and no longer relevant investors'
13 forward looking growth expectations. Unfortunately, Mr. Murray's mechanical
14 approach excludes the application of judgment, and ultimately produces an end result
15 radically at odds with reality simply because these anomalous numbers are averaged into
16 the calculation when they should be excluded.

17 Q. Does Dr. Morin agree that the current dividend growth rates are not relevant and using
18 them leads to incorrect answers?

19 A. Yes he does. In fact, he is clear that the use of historic dividend growth is totally in
20 error. (Surrebuttal Schedule JCD-3, pages 29-31)

21 Q. Why does Mr. Murray use a mechanical approach without the exercise of judgment?

22 A. Based on his testimony and his deposition which was taken in this case I believe it is
23 because he lacks the expertise to determine the reliability of the methodology and data

1 that he uses. Consequently, he simply goes through a "mechanistic" approach without
2 the exercise of judgment that one would expect from an expert. I am not alone in my
3 view that Mr. Murray is not an expert. I have reviewed the testimony of Dr. Roger A.
4 Morin, as well as his deposition which was taken in this case by the Staff and Public
5 Counsel on June 10, 2004, and he concurs. I attach a copy of the transcript of Mr.
6 Murray's deposition as Surrebuttal Schedule JCD-6. As indicated, Dr. Morin's
7 deposition is Surrebuttal Schedule JCD-3.

8 Q. Does this criticism with respect to including historic dividend per share growth in the
9 calculation apply to the Public Counsel witness?

10 A. Yes it does.

11 **Risk Adjustment**

12 Q. The Staff witness is critical of your discussions with respect to the risks associated with a
13 small company as compared to a larger company. He says that the company being
14 regulated is Southern Union and that Southern Union is a large company.

15 A. Southern Union is a large company. However, MGE, the division of Southern Union
16 which is regulated by the Commission and whose rates are under consideration in this
17 proceeding, is a small company as compared to the companies in the proxy group.

18 Q. Mr. Dunn, did you make a specific adjustment to the return on equity for the size effect?

19 A. No, I did not.

20 **Financial Risk Adjustment**

21 Q. Staff witness Murray failed to make an adjustment for financial risk and, on page 39 of
22 his rebuttal testimony, indicated that such an adjustment is impossible since it requires
23 everything else be held equal in order to make a comparison. Do you agree?

1 A. I do not. The matter is much less complex than implied by Mr. Murray. In fact, it is
2 entirely appropriate, reasonable and in fact essential to make a financial risk adjustment
3 when a company has a significantly different equity ratio than the proxy group such as
4 the equity ratio attributed to MGE by the Staff witness.

5 Q. Why is the matter less complex then suggested by Mr. Murray?

6 A. There are only two types of risk which genuinely concern the shareholder. The first of
7 these is "business risk" and the second "financial risk." Financial risk is an observable
8 matter. If a company has a lower equity ratio than its peer group, it has greater financial
9 risk. The business risk may be higher or lower than the business risk of the comparable
10 group of companies, and that can be dealt with separately. The fact of the matter,
11 however, is that financial risk differences are absolute and can be considered
12 independently of business risk differences. Consequently, it is inappropriate to say the
13 matter is too complicated when in fact it is really simply and direct. Part of Mr.
14 Murray's problem with this is that it appears he does not understand the meaning of the
15 term "financial risk," a point that I will address later. This again demonstrates that he is
16 not a cost of capital expert.

17 Q. Is a financial risk adjustment required?

18 A. Yes. If the Staff persist in using the low equity capital structure, it is essential that the
19 Staff make an adjustment for the increased risk caused by the low equity ratio. In the
20 alternative, a hypothetical capital structure could be used.

21 Q. Did Dr. Morin comment on this issue in his deposition?

1 A. Yes. During his deposition, Dr. Morin clearly indicated that either there is an adjustment
2 for the low equity ratio or a hypothetical capital structure should be used. (Surrebuttal
3 Schedule JCD-3, pages 108 & 109)

4 **Consideration of Other Decisions**

5 Q. On page 39 of his rebuttal testimony, Staff witness Murray is critical of your
6 consideration of the results of other jurisdictions and the returns authorized by other
7 jurisdictions in various rate proceedings involving natural gas distribution companies.
8 Do you believe this is an appropriate criticism?

9 A. No. As a matter of fact, I believe that the criticism applies to the Staff witness for not
10 using such information.

11 Q. Why?

12 A. The Staff witness, in discussing his failure to use information concerning other
13 companies and other Commission decisions, says that he has done a thorough and
14 complete job of his analysis and that he calculated the right answer.

15 Q. Why, then, does he refuse to confirm the reasonableness of his result?

16 A. If Staff analysis truly produces the "right answer," there should be no reason why the
17 Staff witness is reluctant to compare his "right" answer with the decisions made by other
18 commissions based on recommendations from other analysts who also believe that they
19 are making valid studies of the cost of equity.

20 Q. What would Mr. Murray discover if he compared the end result of his work with the
21 decisions of other commissions?

22 A. He would discover that his views are radically out of step with the rest of the regulatory
23 world. Mr. Murray is recommending in this proceeding a return on equity in the range

1 of 8.52% to 9.52%. The return on equity authorized by other commissions for 2003 and
2 the first quarter of 2004 is 11% to 11.1%. Such a significant difference, given the fact
3 that the decisions of other commissions involve numerous commissioners and experts,
4 suggests that Mr. Murray's estimate is so far below the range of reasonableness that it
5 cannot be helpful to this Commission in reaching a decision. For that reason alone, his
6 recommendation should be afforded no weight.

7 Q. Mr. Dunn, have the Staff rate of return recommendations to the Commission always
8 fallen significantly below the decisions made by other commissions around the country?

9 A. No sir, they have not.

10 Q. Have you prepared a comparison of Staff recommendations and nationwide commission
11 decisions over an extended period?

12 A. Yes I have. Surrebuttal Schedule JCD-7 is an analysis for the period 1993 through 2004
13 of natural gas decisions by commissions around the country compared to Staff
14 recommendations. Also included on the schedule are the recommendations of the Public
15 Counsel during the same period. This schedule contains data reported by Regulatory
16 Research Associates ("RRA") on natural gas distribution return on equity decisions and
17 all of the Staff and Public Counsel return on equity recommendations on natural gas
18 distribution companies for the period.

19 Q. Do financial analysts making rate of return determinations typically rely on information
20 such as that reported by RRA?

21 A. Yes.

22 Q. Is the information reported by RRA considered reliable?

23 A. Yes.

1 Q. What does the data show?

2 A. The data shows that for the period 1993 through about 1997, the Staff made
3 recommendations which were comparable to the decisions made by regulatory
4 commissions around the country. The average regulatory commission decision for that
5 period, 1993 through 1997, was 11.32%. The average Staff recommendation for 5 cases
6 during that period was 11.13%. Starting in about 1998, however, the Staff went off in a
7 different direction.

8 Q. What is the comparison for the period 1998 through 2004?

9 A. During that six year span, the average nation-wide regulatory decision for natural gas
10 distribution companies was 11.07%. However, the Staff, during that same period, for a
11 total of ten cases, had an average recommendation of only 9.71%.

12 Even more striking is the difference between the Staff recommendations to the
13 Commission and the average commission decisions nation-wide for the period 2001
14 through 2004.

15 Q. What does that comparison reveal?

16 A. The average nation-wide regulatory commission decision for return on equity for natural
17 gas distribution companies for the period 2001 through 2004 is 11.02%. The average
18 recommendation of the Staff to the Commission for six cases for that same four-year
19 period is 9.34%. Clearly, there is a substantial difference and that difference is striking
20 with the Staff recommending 9.25% return on equity in three cases and 9.22 and 9.02% *and 10.05%*
21 return on equity in two others.

22 Q. What is the detail which supports these averages?

1 A. The specific decisions as reported by RRA and the recommendations of the Staff in
2 natural gas rate cases for the period 2001 to 2004 is as follows:

Year	RRA Regulatory Decisions	Staff Recommendations
2001	10.95%	9.25%/10.05%
2002	11.03%	9.25%
2003	10.99%	9.25%
2004	11.10%	9.22%/9.02%

3 Q. How would you characterize these Staff recommendations?

4 A. They are clearly outside of the mainstream of return on equity decisions by commissions
5 around the country. They do not in any way reflect the true cost of equity during this
6 period. There is no way the Staff recommendations can be reconciled with the decisions
7 made by commissions nation-wide.

8 Q. Did Dr. Morin comment on the level of the Staff recommendation?

9 A. Yes. He indicated on page 105 of his deposition that if the result of the Staff analysis
10 was in the range of 9.01 to 9.34 using two different methods, that the results of both
11 would be wrong. (Surrebuttal Schedule JCD-3)

12 Q. Does Dr. Morin use or review the results of other commissions in making his analyses?

13 A. Yes. On pages 32 and 33 of his deposition Dr. Morin refers to the RRA report on the
14 decision of other commissions and concludes that the data indicates that the Staff result is
15 too low. In fact, he says that the data speaks for itself. (Surrebuttal Schedule JCD-3)

16 Q. What else does Mr. Murray's criticism on pages 39 and 40 of his rebuttal testimony tell
17 you about the Staff's overall approach to its cost of capital recommendations in rate
18 cases?

1 A. The Staff's approach, in failing to consider what is going on in the rest of the world is
2 clearly outside the mainstream. In this regard, Mr. Murray's testimony in the recently
3 concluded Aquila, Inc. electric rate case, Case No. ER-2004-0034, is instructive. I
4 attached as Surrebuttal Schedule JCD-8, pages 1610 to 1743 of the transcript in that
5 proceeding which reveals, among other things, that:

- 6 • Mr. Murray would not agree that what the courts have said with respect to a fair
7 return is the standard this Commission should follow. "There are other things that
8 have to be taken into consideration." (Tr. 1618)
9
- 10 • According to Mr. Murray the comparable risk standard "may be one of the
11 standards that is considered." (Tr. 1620)
12
- 13 • It is the policy of the Staff not to look at allowed ROE's or earned returns of other
14 utilities to come up with cost of capital recommendations in rate cases. (Tr. 1733).
15 Mr. Murray cannot square this Staff policy with the requirement of the *Hope* case.
16 (Tr. 1734) and is not sure that the *Hope* case must be followed in any event. (Tr.
17 1618, 1619).
18
- 19 • Mr. Murray has never read any decisions from any other Commissions (Tr. 1732),
20 including rate case decisions. "As far as what goes on in the specifics of cases
21 throughout this country, I would be working 24/7 to be able to keep up with that."
22 (Tr. 1625)
23
- 24 • Mr. Murray is not really familiar as to how one finds returns actually being earned
25 by other utilities. (Tr. 1622, 1624)
26
- 27 • Mr. Murray has never looked at the textbook *Principles of Utility Rates* by James
28 Bonright. (Tr. 1706)
29
- 30 • Mr. Murray incorrectly defines "financial risk" as "the ability of a company to
31 meet its debt." (Tr. 1633)
32
- 33 • Most of his criteria for selecting comparable companies have nothing to do with
34 risk. (Tr. 1642)
35

36 **Murray's "thorough and complete analysis"**

37 Q. Mr. Dunn, on page 40 of his rebuttal testimony, Staff witness Murray testified that he has
38 based his return on equity recommendation for MGE in this case on what he calls "a

1 thorough and complete analysis of the cost of common equity for a comparable group of
2 companies, primarily using the DCF model..." What is your understanding of the other
3 techniques which Mr. Murray used in his "thorough and complete analysis" to calculate a
4 cost of equity for MGE in this case?

5 A. It is my understanding that he also used the risk premium model and the capital asset
6 pricing model ("CAPM") to check the reasonableness of the results from use of his
7 primary DCF method.

8 Q. How does his approach compare to your approach?

9 A. I also used the DCF model which has been utilized for many years by this Commission.

10 Q. Did you check the reasonableness of your results by using the risk premium model or the
11 CAPM?

12 A. No. I did not. However, a proper performance of a CAPM and risk premium cost of
13 equity analysis on the Staff's group of eight comparable companies would not support the
14 return on equity result which Staff witness Murray says, in his rebuttal testimony,
15 resulted from a "thorough and complete analysis." Furthermore, Mr. Murray did not
16 accord the risk premium method and the CAPM approach any weight in his conclusion in
17 spite of the fact that both of his alternate calculations produced higher indications of the
18 cost of equity than his DCF calculation.

19 Q. By way of background, please summarize Mr. Murray's risk premium analysis and
20 CAPM analysis.

21 A. Mr. Murray's risk premium analysis is contained on Schedule 21 to his direct testimony
22 and is based in part on data from his Schedule 20. His result indicates a cost of equity of
23 10.41% which is substantially above his recommendation for MGE in this case. Even

1 that, however, is a result which is lower than the result which is indicated by an analysis
2 using published data. His CAPM analysis is on his Schedule 19.

3 Q. In response to Mr. Murray's statement at page 40 of his rebuttal testimony concerning a
4 "thorough and complete analysis" have you performed a "thorough and complete" cost of
5 equity analysis for Mr. Murray's comparable companies?

6 A. Yes.

7 Q. What did you do?

8 A. I performed a risk premium and CAPM analysis.

9 Q. Did you make a risk premium analysis using published data?

10 A. Yes I did.

11 Q. Please describe the results.

12 A. The first step in my risk premium analysis was to obtain a risk premium for equities for
13 the period 1928 to 2003. I obtained that information from a web site at the New York
14 University Stern School Website Page of Professor Damodaran. The data indicated a
15 market return for the period of 11.82% and a long term treasury rate for the same period
16 of 5.28% for a risk premium of 6.54%. I added Mr. Murray's 2004 long term yield rate of
17 4.93% to the risk premium amount for an indicated cost of equity of 11.47%. This is
18 substantially different than the result obtained by Mr. Murray.

19 Q. Please summarize your CAPM model and the result.

20 A. I used the same CAPM model as used by Mr. Murray. I also used his information
21 to the extent I could.

22 Q. Please explain.

1 A. In analyzing the long run market returns for the CAPM analysis, I noticed that the market
2 returns were higher for shorter periods. For example, the 1928-2003 return was 11.82 %
3 while the 1963-2003 return was 12.10% and the 1993-2003 return was 12.63%. As a
4 result of this pattern of returns, I determined that it was appropriate to use the most recent
5 1993-2003 data in my calculation.

6 Q. What did you use as the proper beta?

7 A I used the Value Line betas from the March 19, 2004 issue, a more current issue than
8 used by Mr. Murray.

9 Q. Did using the more current issue result in any changes?

10 A. It did. One of the eight betas increased from .60 to .65. All of the other betas remained
11 the same. The result of this change was to increase the average beta of the group from .68
12 to .69.

13 Q. What was the result of your calculations?

14 A. I reduced the 12.63 market return for the period by the current 4.80 long term risk free,
15 treasury rate from the Wall Street Journal June 11, 2004. The result was a return of
16 7.83% which I multiplied by the average beta of .69 for a premium amount of 5.40%. I
17 then added back the 4.80% risk free rate for a total return of 10.20. This compares to the
18 calculation made by Mr. Murray which resulted in a cost of 9.29% as shown on his
19 Schedule 19.

20

1 **RESPONSE TO PUBLIC COUNSEL REBUTTAL TESTIMONY**

2 **Rate of Return**

3 Q. At page 7, line 25 of the rebuttal testimony Public Counsel witness Allen, Mr. Allen
4 attempts to recalculate your return estimate using the Value Line edition of September
5 19, 2003, and the Public Counsel methodology of "BR+SV." How do you respond?

6 A. This is not appropriate.

7 Q. Please explain.

8 A. The BR+SV methodology contains a circularity so fundamental that the calculation is
9 absolutely worthless in this context as a methodology to estimate the cost of common
10 equity.

11 Q. Why is it worthless?

12 A. The methodology can be applied either historically or in a projected format. Regardless
13 of which calculation is made, you must know the answer before you make the
14 calculation.

15 Q. Discuss what you mean by a "historical calculation."

16 A. If the BR + SV applied historically, the actual historical results absolutely determine the
17 calculation of BR+SV and those historical results, whether abnormal or not, completely
18 determine the recommended cost of equity. If, for example, a company has bad years
19 and those bad years are incorporated in the calculation, the result will be a low
20 recommended return on equity for that company. On the other hand, if the company has
21 had excellent or outstanding years, those will also be reflected in the BR+SV calculation
22 and result will be a very high recommendation. The simple fact is the past absolutely

1 determines the future using this methodology, and thus there is a serious problem in
2 using this approach in a historical fashion.

3 Q. What about using this method in the forecasted or projected format in the manner used
4 by the Public Counsel?

5 A. The problem with this approach is that the return on equity must be known for future
6 years in order to make the calculation. This can be established from Public Counsel
7 witness's direct testimony in this case.

8 Q. How is this established by examination of the Public Counsel witness's testimony in this
9 case?

10 A. Mr. Allen's BR+SV calculations appear beginning at Schedule TA-6, page 2 of his direct
11 testimony. The top half of this schedule shows a historic calculation of BR+SV, and the
12 bottom half of the schedule is a calculation of a projected BR+SV. As can be seen from
13 the top half of the schedule, the BR component of the calculation is a multiplication of
14 the retention ratio times the equity return. The purpose of this exercise is to develop a
15 cost of equity recommendation. However, in order to make that recommendation using
16 the BR+SV approach, it is necessary to know the answer, i.e. the equity return, and the
17 dividend payout before the calculation can be made. This can be seen less clearly from
18 the bottom half of the page where the 2007-2009 estimated return on equity are
19 multiplied times a retention ratio, both of which must be known in order to derive the BR
20 component of the calculation. Simply stated, in order to use the formula, one must know
21 the answer before one makes the calculation. This is a fundamental flaw in the
22 methodology and one which cannot be overcome.

1 Q. Did the Public Counsel witness make a risk adjustment in his calculation of the required
2 return on common equity?

3 A. No. In fact, for some reason, Mr. Allen has suggested in his rebuttal testimony at page
4 22, lns 9-11 that he is now supporting the lower end of his recommended range of returns
5 rather than the upper limit of the range of returns that he recommended in his direct
6 testimony (p. 16, lns. 12-17).

7 Q. What was the point of the recommendation toward the upper limit of the Public Counsel
8 range of returns on equity in the original testimony?

9 A. The Public Counsel witness indicated that he (felt) that the recommendation at the upper
10 end of the range properly compensated MGE for the higher level of risk associated with
11 the fact that using a consolidated capital structure resulted in a much higher level of
12 leverage for Southern Union than for the comparable companies in his group.

13 Q. Do you believe that is accurate?

14 A. Absolutely not. An adjustment so small to compensate for such a substantial difference
15 in the common equity ratio is simply absurd.

16 Q. How much difference is there in the Public Counsel recommended equity ratio for MGE
17 and the average equity ratio of his proxy group?

18 A. The Public counsel proxy group equity ratio is 40.0%. The Public Counsel witness
19 recommended equity ratio for MGE is 25.98%. This is a very substantial difference.

20 Q. Are there any other risk adjustments which Mr. Allen has failed to make?

21 A. Yes. In his rebuttal at page 19, Mr. Allen dismisses the notion of longer depreciation as a
22 risk factor. This dismissal flies in the face of fundamental principles of finance. For
23 example, long term bonds pay higher interest rates than short term bonds and the

1 differential in interest rate is compensation for the fact that the funds are exposed to
2 greater levels of risk over longer periods of time, whereas short term lendings have less
3 exposure to such risk by virtue of the fact that the time element is shorter. The same
4 applies to depreciation. The longer a capital investment is exposed to unknown risks, the
5 greater the risk to the investor. The greater the risk and the higher the required return.
6 Mr. Allen should know this, and it is absolutely improper and unreasonable that he rejects
7 it in his surrebuttal testimony.

8 Q. Mr. Allen asserts, on page 21 of his rebuttal testimony, that the recently enacted
9 infrastructure system replacement surcharge ("ISRS") legislation serves to reduce MGE's
10 risk. How do you respond?

11 A. The information upon which Mr. Allen apparently relies in reaching this conclusion is
12 insufficient to support that conclusion. As I understand it, the ISRS legislation allows
13 companies like MGE to adjust rates periodically outside the context of a general rate
14 proceeding to recover the cost of governmentally-mandated, non-revenue producing
15 capital expenditures. A significant proportion of such costs for MGE relate to safety line
16 replacement program ("SLRP") expenditures, the earnings degradation impact of which
17 has historically been mitigated through the Commission's issuance of accounting
18 authority orders ("AAOs"). In many ways, the ISRS process simply replaces the AAO
19 process and, as such, should not be expected to have any material impact on risk
20 experienced by MGE. Moreover, Mr. Allen's assertion that MGE is the only gas
21 company that has an ISRS is wrong. Laclede Gas recently implemented an ISRS. In
22 addition, Atmos Energy Corporation has a pipe replacement surcharge mechanism in
23 Georgia.

1 Q. On page 22 of his rebuttal testimony, Public Counsel witness Allen asserts that a
2 downward adjustment to return on equity is appropriate if the Commission adopts a
3 weather mitigation rate design for MGE. How do you respond?

4 A. I disagree. All of the comparable company groups used by the various rate of return
5 witnesses in this proceeding include companies that have some form of weather
6 mitigation rate design. Therefore, investor expectations related to such rate design are
7 already appropriately reflected in the discounted cash flow analysis and no further
8 adjustment is needed for this item. In any event, if any adjustment is to be considered the
9 starting point, prior to any such adjustment, must be reasonable. Comparison to equity
10 returns being authorized by other regulatory authorities clearly establishes that the Staff
11 and Public Counsel return on equity recommendations in the proceeding do not qualify as
12 such a reasonable starting point.

13 **Capital Structure**

14 Q. The Public Counsel witness has proposed a hypothetical capital structure in his rebuttal
15 testimony in this proceeding. Do you have any comments with respect to that capital
16 structure?

17 A. Yes I do.

18 Q. What are they?

19 A. First, I should note that I believe it is appropriate to consider a hypothetical capital
20 structure in this proceeding. Furthermore, it is not unreasonable to make a series of
21 calculations similar to those made by the Public Counsel witness. The problem arises
22 from Mr. Allen's selection of a hypothetical capital structure from the zone of
23 reasonableness that he calculated.

1 Q. What was the zone of reasonableness established by the Public Counsel witness in his
2 rebuttal testimony?

3 A. The zone of reasonableness for the hypothetical capital structure ranged from a common
4 equity ratio of 37.6% to 58.2% (p. 13, ln. 1).

5 Q. After establishing that zone of reasonableness, what did Mr. Allen determine as the
6 appropriate capital structure?

7 A. He selected "the very bottom of the range, 37.6%" (p. 13, ln. 12).

8 Q. How do you respond?

9 A. This is not appropriate. As a matter of fact, the analysis and calculations made by the
10 Public Counsel witness, if they have any validity, would suggest that the mid-point of the
11 range is the point of greatest reasonableness. In other words, the mid-point of the range
12 is the best point for a calculation of a hypothetical capital structure.

13 **Statistical Risk Analysis**

14 Q. Public Counsel witness Meisenheimer, in her rebuttal testimony, is critical of your
15 statistical analysis of risk. What is the nature of her criticism?

16 A. On page 4 of her rebuttal she states that it would be more relevant for the Commission to
17 examine each of the individual companies in my proxy group against MGE rather than
18 examining the average of the proxy group against MGE.

19 Q. Did she make such a calculation?

20 A. Yes.

21 Q. What did that calculation show?

22 A. According to the Public Counsel calculations, of the 15 companies in my proxy group,
23 10 are less risky than MGE as demonstrated by a lower standard deviation and 12 of the

1 15 companies are less risky as demonstrated by the calculation of the co-efficient of
2 variation. This data, taken from Table 2 on page 8 of Ms. Meisenheimer's rebuttal
3 testimony, supports my conclusion that MGE is significantly riskier than the proxy
4 group.
5

**STANDARD
& POOR'S****RATINGS DIRECT****Research:
Southern Union Co.**

Return to Regular Format

Publication date: 06-Apr-2004

Credit Analyst: Judith Waite, New York (1) 212-438-7677

Corporate Credit Rating

BBB/Negative/--

Business Profile

1 2 3 4 5 6 7 8 9

Financial policy

Aggressive

Debt maturities

2005 \$125 mil.

2006 \$141 mil.

Bank lines/Liquid assets

\$415 million of total bank lines

Total rated debt

About \$2.7 billion

Outstanding Rating(s)

Southern Union Co.

Sr unsec'd debt

Local currency

BBB

Sr sec'd debt

Local currency

A-

Pfd stk

Local currency

BB+

Panhandle Eastern Pipe Line LLC

Corporate Credit Rating

BBB/Negative/--

Sr unsec'd debt

Local currency

BBB

Corporate Credit Rating History

Apr. 7, 1998

BBB+

Mar. 7, 2003

BBB

Company Contact

Richard Marshall, Treasurer (570) 829-8795

Major Rating Factors**Strengths:**

- Stable earnings,
- Good growth prospects for gas distribution, and
- Ample sources of natural gas for pipelines.

Weaknesses:

- Highly leveraged balance sheet, and
- Dependence on state regulators for adequate allowed return.

Rationale

Southern Union Co.'s corporate credit rating reflects the company's highly leveraged balance sheet and strong business profile. The regulated gas distribution and transportation businesses, which account for 98% of earnings, produce stable and predictable cash flows. The company serves growing markets in

Missouri, Pennsylvania, Rhode Island, and Massachusetts, has limited commodity price risk, and is authorized reasonable rates of return by federal and state regulators. Southern Union has acquired several companies in recent years, a trend the company may continue to follow. However, any acquisitions are expected to be of low-risk, state-regulated gas distribution businesses and federally regulated gas transportation pipelines.

Southern Union's mid-2003 acquisition of Panhandle Eastern Pipeline Co. and its subsidiaries Trunkline Gas Co. LLC and Trunkline LNG Co. LLC and Panhandle's joint venture Sea Robin Pipeline Co. resulted in a highly leveraged consolidated balance sheet. Although Southern Union financed the acquisition with proceeds from selling its Texas gas distribution business and a portion of the proceeds from the sale of common equity and convertible debt, Panhandle Eastern itself had \$1.2 billion of debt. This drove Southern Union's total debt up to 72% of total capital at closing.

Management has committed to rapidly improving its balance sheet. It refinanced Panhandle's debt shortly after the acquisition, lowering interest expense by about \$6 million. In addition, the company issued \$230 million of noncumulative preferred stock, using proceeds to reduce debt. Cash from operations, which management expects to improve by at least \$15 million through the successful integration efforts, including implementation of a new companywide IT platform, together with free cash flow, will be dedicated to debt reduction, as will the proceeds from any future equity sales equity. Furthermore, the company is expected to continue its stock dividend policy, allowing it to build equity through retained earnings.

By the end of 2005, Standard & Poor's expects that the total debt to total capitalization ratio will be appropriate for the 'BBB' rating target benchmark of 56%. Moreover, in 2006, the conversion of \$125 million of debt to equity will lower that ratio to around 50%. Also, by the end of 2005, funds from operations (FFO) should improve to around 16% of average debt, close to the rating target of 17%. Interest coverage ratios will improve as well.

Liquidity.

Liquidity is adequate based on Southern Union's sources of operating cash flow over the next year and committed bank facilities relative to short-term liabilities. The working capital needs of the company are adequately met with a total of \$415 million of committed bank facilities, of which \$163 million was unused at Dec. 31, 2003. The facilities are used primarily to purchase gas for retail customers, and are paid down annually.

The company intends to reduce debt by about \$600 million by the end of 2005. In October 2003, the company issued \$230 million of noncumulative preferred stock. Proceeds were used to pay down \$100 million of trust preferred and remaining funds were used to pay down other debt. Cash and free cash flow are expected to provide another \$250 million to \$280 million. The remainder will come from the sale of equity or assets.

Still, access to the capital markets at reasonable rates will be important as debt matures in each of the coming years: \$125 million in 2005; \$141 million in 2006.

The working capital needs of the company are adequately met with a total of \$415 million of committed bank facilities. The facilities are used primarily to purchase gas for retail customers. The cost of gas, as well as the carrying charge, is fully recovered from natural gas customers in all jurisdictions.

■ Outlook

The negative outlook reflects the execution challenges facing the company in achieving its commitment to deleverage rapidly. Southern Union has been acquisitive for several years, which has resulted in significant and frequent swings in leverage. The company must demonstrate sufficient balance-sheet strength before consummating any future acquisition in order for Standard & Poor's to maintain current ratings.

■ Business Description

Southern Union sells and distributes natural gas to retail customers in Missouri, Pennsylvania, Rhode Island, and Massachusetts. These businesses are divisions of Southern Union. Panhandle Eastern Pipeline, a wholly owned subsidiary, transports natural gas through Panhandle Eastern Pipeline, Trunkline Gas, and Sea Robin Pipeline. Panhandle Pipeline Co. also owns Trunkline LNG, the largest LNG import facility in North America.

■ Rating Methodology

The corporate credit rating is based on the consolidated business and financial profile of Southern Union and its subsidiaries. The corporate credit rating is assigned to the senior debt at Southern Union, which is itself an operating business, and its subsidiary, Panhandle Eastern Pipe Line LLC. The equal rating of senior debt at each entity reflects Standard & Poor's view that there are substantial parent-level assets relative to liabilities, which obviates the need to notch Southern Union's debt down for structural subordination.

■ Business Profile

The overall strong business position of Southern Union is defined by growing markets, limited commodity price risk, tight cost controls, and stable and predictable earnings and cash flow from its regulated gas distribution and transmission businesses.

Markets.

The gas distribution businesses serve retail customers in central and western Missouri (Missouri Gas Energy), northeastern and central Pennsylvania (PG Energy), Rhode Island and Massachusetts (New England Gas Co.). In Missouri, where more than one-half the gas is sold, the principal franchises are in Kansas City, a contract that expires in 2010, and St. Joseph, where the franchise is perpetual. In Pennsylvania, where 20% of the gas is sold, statewide service rights are also perpetual. In Rhode Island and Massachusetts, where 29% of gas is sold, New England Gas holds perpetual franchises in Providence and Fall River. Retail demand for natural gas is forecast to increase 1% to 1.5% for residential customers, and slightly more for commercial customers. Transportation for larger customers who buy directly from suppliers is expected to increase 1.5% (Pennsylvania) to 1.75% (Missouri).

The gas transportation business is conducted through two pipelines: Panhandle Eastern Pipeline, which originates in the Anadarko Basin of western Oklahoma and the Panhandle region, transports gas to customers in Missouri, southern Illinois, Indiana, northeastern Ohio and southern Michigan. Trunkline Gas runs the length of the Texas and Louisiana Gulf Coast, and transports gas up the Mississippi Valley through southern Illinois into northern Indiana. Trunkline was originally built to feed Panhandle, and through the 1980s Panhandle was its only customer. But as Panhandle's Missouri and southern Illinois market grew, Trunkline became a more significant direct supplier for the Indiana, Ohio, and Michigan customers. Panhandle, which can deliver 2.7 bcf per day of natural gas, and Trunkline, which can deliver 3.2 bcf per day, supply about 20% of the gas delivered to the upper Midwest markets. The pipelines have a large, long-term customer base. In 2003, about 55% of transportation and storage revenue came from gas distribution utilities and their affiliated marketers, and another 15% came from regional marketers selling to utilities and industrial customers. About 10 customers account for about 65% of the fee-based transportation and storage revenue. Overall, 64% of revenue comes from pipeline reservation fees, 9% from gas storage fees, 6% from firm commodity charges, 6% from interruptible commodity charges, 3% from other services, and 13% from the firm contract with the BG Group for LNG storage capacity in Louisiana. That contract expires in 2023. The LNG facility is being expanded, as is the Trunkline pipeline, under a new long-term contract with BG Group. In addition to having good access to gas basins in the Mid-Continent and the Gulf Coast regions, the pipelines are interconnected with other interstate pipelines in Lebanon, Ohio (Texas Eastern Transmission), Defiance, Ohio (Columbia Gas), and Centerville, Louisiana (Columbia Gulf, Florida Gas Transmission, and Southern Natural Gas Pipeline).

Regulation.

Regulators of the gas distribution companies have allowed generally reasonable returns based on an ROE of around 11%. In November 2003, Missouri Gas Energy filed a base rate increase request for \$54 million. Since the Missouri Public Service Commission (MPSC) can take up to 11 months to make a ruling, new rates may not go into effect until late summer 2004 at the earliest.

The monthly customer bills in all jurisdictions include a fixed service charge that is designed to cover most fixed operating costs and a volumetric charge. Exposure to gas price risk is limited by the purchased gas adjustment mechanism, which allows gas distribution companies to recover the full cost of gas purchased. Various incentive mechanisms require the sharing of cost savings with ratepayers. In Providence, R.I., a weather-normalization clause allows the company to collect the allowed tariff by adjusting the rates up or down depending on the volume of gas sold that is attributable to variations in weather, the single most significant driver in year-to-year sales changes. In Missouri, Missouri Gas Energy is the first energy utility allowed to collect a service connection charge, which is a positive step in modifying rate design. This follows a long period of investment in

replacing all service line connections. The program is currently spending about \$8.5 million per year, down from about \$16 million in 2001.

The pipelines and gas storage operations are regulated by the FERC, which approved tariffs based on an ROE of around 14%. There is no obligation, or need, to seek a rate review. The prevailing rates into the regional end-markets of southern Illinois, Indiana, Ohio, and southern Michigan are about 75% of Panhandle's maximum allowed tariff. A rate moratorium is in effect for Trunkline until May 1, 2004, and for Sea Robin until April 30, 2006. No rate moratorium exists for Panhandle or for Southwest Gas Storage.

Competitive position.

Southern Union's gas distribution businesses enjoy a strong competitive position. In addition to having long-term franchises in the primary cities they serve, they own the only gas distribution network serving their rural and urban customers. The only major competitor is electricity, which is almost always more expensive than gas. Fuel oil and propane also compete, but are not significant. To maintain this competitive advantage, and to mitigate rate increase requests, Southern Union has continued to control operating costs. Three profitable subsidiaries also sell gas-fired appliances and service contracts in the Northeast.

The pipelines face a more competitive market. However, at the end of the cold 2002-2003 winter, competing pipelines were issuing operational flow orders, indicating that they had to retain the gas left in storage for customers with firm contracts. Panhandle and Trunkline, with capacity to spare, were able to meet requests for increased delivery, and were therefore able to charge full tariffs. More importantly, utility regulators saw the need for longer-term gas delivery contracts. As a result, the average delivery contract on Panhandle has increased to 6.5 years, with a few of the largest customers extending out seven and eight years, and at similar or higher rates. Contracts on Trunkline are shorter term, averaging one to two years, but this average is also weighted toward the shorter term because BG Group traditionally sold gas into the spot market and contracted for short-term interruptible use of the pipeline. About one-third of the contracts roll off each year, exposing the company to renewal risk, but also giving management the opportunity to push for longer-term contracts for most of its customers over the next several years.

Most importantly, the management of Panhandle and Trunkline has adopted a sales strategy that provides customers more flexible service while cutting back on operating costs. Contracts are tailored to meet specific capacity and storage requirements; remaining capacity is sold to other customers. Much of the surplus capacity, which occurs in the summer months, is sold to gas-fired electric generating plants. Four years ago, there were only two power plants taking gas directly from the pipeline. Now there are 25, an addition of 11,000 MW. And, the consolidation of operations and a reduction in the number of employees has greatly reduced overall operating costs. Between 1989 and 2002, the number of employees fell to 1,150 from 4,000. Subsequent to the acquisition, the number of employees was again reduced marginally, but more importantly, the operations were consolidated on a single IT platform that will incorporate the gas distribution businesses as well. Annual cost savings are expected to be around \$15 million. Of that, \$10 million had been achieved by the end of 2003.

Financial Policy: Aggressive

Southern Union's management will continue to acquire energy assets, and, as exhibited in the recent acquisition of the Panhandle and Trunkline pipelines, management is not averse to highly leveraged transactions. However, it is expected that acquired assets will have the strong business profile of the companies it currently owns, and that management will sell assets and equity in a timely manner to bring the financial profile back in line with the targets for an investment-grade rating.

Financial Profile

Profitability and cash flow.

The stability of earnings and cash flow over the next several years is supported by reasonable expectations for gradually increased demand for gas in the service territories of the utilities and the pipelines' end-markets. However, it is also based on management's expectation that overall operating costs will be held in line. After the acquisition of each of the utilities, operation and maintenance costs were reduced 25% at Missouri Gas, 21% at PG Energy, and 8% at New England Gas.

Debt reduction will also help keep earnings up and interest coverage ratios in line with an investment-grade rating. FFO (or cash from operations before the changes in working capital) are

expected to cover interest expense by more than 3.5x by the end of 2004, which is stronger than the target benchmark of 2.6x.

Net cash flow (FFO net of preferred dividends) is expected to exceed capital spending by 15% to 20% in the next two years when the Trunkline LNG facility and pipeline are being expanded. Beyond that, net cash flow is expected to be 2.0x to 2.5x capital spending.

Capital structure and financial flexibility.

The acquisition of CMS Panhandle Pipeline added \$1.2 billion to the consolidated financial profile, raising debt-to-capital to 72%. To reduce leverage, management is repaying debt with cash from operations as well as proceeds from the sale of preferred and common stock. Just after the acquisition closed, management refinanced about one-half of Panhandle's debt, lowering overall interest expense. By the end of 2005, Standard & Poor's expects that Southern Union's management will have lowered the ratio of debt/capital to the 'BBB' rating target benchmark of 56%. In 2006, the conversion of \$125 million of debt to equity will lower that ratio further, to around 50%. Accordingly, by the end of 2005, FFO should improve to around 16% of average debt, much closer to the rating target of 17%.

Table 1 Southern Union Co.--Competitors					
Industry Sector: Regulated T&D - Gas					
--Average of past three fiscal years--					
	Sector median	Southern Union Co.	TXU Gas Co.	Southwest Gas Corp.	UGI Utilities Inc.
Rating		BBB/Stable/—	BBB/Negative/—	BBB-/Stable/—	BBB+/Watch Neg/—
(Mil. \$)					
Sales	923.4	1,351.7	2,913.3	1,250.6	504.1
Funds from operations (FFO)	103.9	122.1	97.3	179.3	78.0
Net income from cont. operations	41.2	35.4	(4.7)	39.8	47.6
Capital expenditures	77.3	105.8	157.3	254.8	37.1
Total debt	608.4	1,194.8	724.0	1,128.8	275.1
Preferred stock	20.0	66.7	148.0	60.0	20.0
Common equity	467.9	714.4	920.7	563.6	232.7
Total capital	1,119.4	1,975.8	1,792.7	1,752.4	527.8
Ratios					
EBIT interest coverage (x)	2.8	1.6	1.0	1.7	5.1
FFO interest coverage (x)	3.1	2.2	2.3	3.1	4.5
FFO/avg. total debt (%)	15.8	11.1	11.2	15.7	27.6
Net cash flow/capital expenditures (%)	77.2	109.4	59.5	60.0	100.8
Total debt/capital (%)	57.0	62.9	45.5	66.2	53.1
Return on common equity (%)	9.9	4.5	(0.8)	6.8	20.0
Common dividend payout (%)	83.0	0.0	0.0	70.6	84.9

Table 2 Southern Union Co.--Financial Summary								
Industry Sector: Regulated T&D - Gas								
Rating history	--Average of past three fiscal years--		--12 months ended Dec. 31, 2003--	--Years ended June 30--				
	Sector median	Issuer		BBB+/Stable/—	BBB+/Stable/—	BBB+/Stable/—	BBB+/Stable/—	BBB+/Watch Neg/—
			2003	2003	2002	2001	2000	1999
(Mil. \$)								
Sales	923.4	1,470.6	1,481.2	1,188.5	1,290.6	1,932.8	831.7	605.2
Funds from operations (FFO)	103.9	181.3	313.7	201.2	150.0	132.7	83.5	94.5

Net income from cont. operations	41.2	43.2	69.1	43.7	19.6	66.2	20.5	20.0
Capital expenditures	77.3	98.9	152.7	79.7	93.3	123.8	100.4	73.1
Total debt	608.4	1,882.1	2,569.6	2,750.4	1,322.2	1,526.1	736.0	414.0
Preferred stock	20.0	33.3	230.0	0	0	100.0	100.0	100.0
Common equity	467.9	775.9	946.5	920.4	685.4	721.9	735.9	301.1
Total capital	1,119.4	2,691.3	3,746.1	3,670.8	2,007.6	2,348.0	1,571.8	815.1
Ratios								
EBIT interest coverage (x)	2.8	1.6	1.7	1.5	1.5	1.8	1.6	1.0
FFO interest coverage (x)	3.1	2.6	3.6	3.0	2.7	2.3	2.6	3.7
FFO/avg. total debt (%)	15.8	10.7	12.3	10.2	9.9	11.3	13.9	21.9
Net cash flow/capital expenditures (%)	77.2	159.9	202.8	252.4	160.8	99.6	73.7	116.2
Total debt/capital (%)	57.0	70.4	68.6	74.9	71.3	65.6	48.0	51.9
Return on common equity (%)	9.9	6.5	7.0	5.4	2.8	7.8	2.1	3.5
Common dividend payout (%)	83.0	0	0	0	0	0	0	0

The analysis provides a discussion of the factors underlying the credit rating of this issue. It is important to read the Credit Opinion. The most recent ratings, opinions, and other reports of this rating agency are provided in [Moody's.com](#). Click here in link.

Analysis

February 2004

Contact	Phone
New York	
Edward Tan	1.212.553.1653
Mihoko Manabe	
John Diaz	

Southern Union Company

Risks/Weaknesses

- High levels of absolute debt as a portion of total capitalization.
- Compressed credit measures related to high levels of acquisition debt.
- Historical tendency to grow through various acquisitions involves financial and event risks, even as the company continues integrating the operations of more recent acquisitions.

Opportunities/Strengths

- Low business risk with almost all business lines regulated when calculated on the basis of total assets and the addition of Panhandle's more stable and predictable cash flows and earnings which tend to compensate for the more seasonal variations inherent in the LDC divisions
- Possibility of improved rate designs that could include updated weather normalization clauses and fixed charges in some jurisdictions, helping to protect operating margins from warmer than normal weather patterns.
- No cash dividend on common stock, allowing for internal equity formation and conserving cash to fund capital expenditures, debt repayment, and business reinvestment.

Rating Rationale

Southern Union Co.'s (SUG) Baa3 rating (sr. uns/sr. imp., negative outlook) reflects its low business risk, with little diversification outside its regulated gas distribution and transmission businesses (52% and 48% of assets, respectively as of December 31, 2003). Its regulated rates provide a measure of predictability, but the distribution business is seasonal. The company has mitigated some of the seasonality through weather normalization clauses and more favorable rate designs in its Rhode Island service territories. With the acquisition of Panhandle Eastern Pipe Line Company (Panhandle, Baa3 sr. uns, negative outlook), it is expected that SUG will gross approximately half of its earnings from the gas pipeline transmission business which while mature, is steady and predictable under a regulated price environment. Unlike its LDC diversified peers, SUG pays no cash dividends, allowing internal equity formation. However, the rating also reflects SUG's current high debt and preferred securities level at 77% of total capitalization (factoring in goodwill, operating leases, pension obligations and deferred income taxes) as of December 31, 2003. Until further permanent debt reductions take place, we expect that in the near-term its credit measures will remain compressed from the high levels of debt incurred in acquisitions made over the past few years.

SUG's negative outlook reflects our expectation that SUG's debt reduction progress will be slower than originally anticipated. The outlook will remain negative until SUG achieves its de-leveraging objectives and demonstrates improved returns from the combined companies.



Moody's Investors Service
Global Credit Research

Panhandle's ratings reflect the low business risk as a regulated gas transmission company, earnings stability met through revenues underpinned by flat reservation fees and long-term contracts with a diverse group of creditworthy shippers, a mature asset given some upside by its subsidiary Trunkline LNG Holdings, LLC's LNG facility, and a measure of credit protection provided Panhandle by (i) restricted payments covenants in its indenture, though it still leaves abundant capacity to make a large dividend to SUG and (ii) \$260 million of Trunkline LNG project financed non-recourse debt. However, Panhandle's ratings are restrained by higher leverage and weaker coverage measures relative to many of its pipeline company peers (debt-to-capital in the low 60% range and EBIT/interest in 2x range), the prospect of increased capital spending over the medium term from its LNG facility's upcoming \$250 million expansion project, a competitive environment that has caused persistent discounting from the pipeline's allowed tariffs, pressuring its ability to earn its allowed returns; above-average re-contracting risk from shorter than industry average contract life of 3.7 years, and an operating record that has yet to be established under SUG's ownership.

The negative outlook for Panhandle mirrors that for SUG, as the parent's efforts to de-leverage and to cut costs could have a credit impact on Panhandle. Execution risk in integrating the two companies is notable, since this acquisition is the largest to-date for SUG, doubling its size and transforming it from a gas distributor to a more diverse gas distribution and transmission company. It is conceivable that over the medium term, SUG will consider issuing additional equity not only to prune the debt heightened by recent acquisitions, but also to fine-tune its strategic focus.

Management Strategy

Southern Union's management team transformed the company in 2003 with the purchase of Panhandle Pipe Line Company and its subsidiaries (which SUG has since renamed Panhandle Energy). In fiscal 2002 and 2003, SUG was primarily a gas distribution company. The acquisition of Panhandle has transformed SUG into a gas distribution and transmission company with consolidated assets split about evenly between these two major segments. With such a large acquisition, SUG management is now focused on integrating the acquired assets and reaching a level of operational and financial performance consistent with its vision for the company. In this endeavor, management has named four primary goals for fiscal 2004 and beyond:

- Integrating acquired operations
- Improving balance sheet and liquidity position
- Achieving earnings targets
- Providing customers with safe and reliable service

Successful Integration Key to the Company's Future

SUG aims to create operational efficiency through the integration of the Panhandle Energy businesses. The company has begun to implement its restructuring and reorganization program and has completed certain phases of its plan in order to fully maximize their cost savings. These integration initiatives include a "shared services initiative" which will streamline back office functions such as information technology, human resources, payroll, etc. The company is contemplating the integration of such functions as regulatory relations and legislative initiatives. SUG's rating is based on a successful integration of the acquired Panhandle businesses.

Over the long term, the possibility of SUG making another major acquisition lends unpredictability to its future financial risk profile. However, Moody's expects that SUG will finance any such acquisition in a manner that will allow it to maintain an investment grade rating.

Improving the Balance Sheet is Key to Maintaining Ratings

Southern Union's leverage remains high at December 31, 2003 with debt to capitalization at 70% (excluding the impact of goodwill, operating leases, pension obligations and deferred income taxes) and 77% adjusting for these items with about \$2.7 billion of adjusted debt on its balance sheet. For a company of SUG's business mix in the Baa3 rating category, debt to capitalization on an unadjusted basis would be more acceptable around the mid-50% range. SUG indicated that it intended to issue new stock or equity-like securities to help improve its balance sheet, which along with its earnings retention and distribution of stock dividends should help conserve cash and build equity. Toward this end, on October 8, 2003, SUG issued \$230 million of 7.55% non-cumulative preferred stock, the proceeds from which were used to repay indebtedness and to redeem \$100 million of preferred securities (TOPRs), which were treated as debt in Moody's leverage calculations. SUG management recently indicated that it expects to generate \$225 million of free cash flow during its fiscal year ending June 30, 2004. Free cash flow was defined by SUG as the sum of net income, depreciation and working capital changes less capital expenditures exclusive of Trunkline LNG expansion projects. SUG will use the free cash flow generated in fiscal year 2004 to repay indebtedness.

SUG management is also considering the sale of non-core assets to supplement funds for debt reduction. One such asset being contemplated for sale is Sea Robin Pipeline Company, an interstate gas pipeline acquired in the Panhandle Transaction, although it is not expected to yield cash proceeds of any great significance.

Continued Expansion

SUG's LNG import terminal subsidiary, Trunkline LNG, has obtained regulatory approvals from FERC to expand its capacity to 1.2 billion cubic feet (Bcf) per day, approximately double its current sendout capacity, and to increase its storage capacity from 6 Bcf to 9 Bcf. The expansion is expected to be complete by December 31, 2005. In addition, Trunkline LNG is seeking approval from FERC for a second phase expansion of the LNG import terminal, which will increase the sendout capacity to 1.8 Bcf per day. The second phase expansion is expected to be completed by early to mid-2006. The existing and expanded sendout and storage capacity is 100% contracted to BG LNG Services, LLC. Trunkline LNG currently has approximately \$260 million of project financed debt outstanding at December 31, 2003. Although this debt is structured without legal recourse to SUG or Panhandle, in Moody's analysis the project financed debt is added to leverage calculations for credit rating purposes.

Rates & Regulation

Southern Union operates in numerous regulatory jurisdictions consisting of about half of its assets under the jurisdiction of FERC and about half by a spate of state regulatory commissions. This regulatory diversity is positive from a ratings perspective because the company is less influenced by the actions of any single regulatory body. SUG actively seeks rate increases in its jurisdictions to achieve satisfactory recovery of its costs. Each of SUG's regulatory jurisdictions has an individual rate design and weather mitigants of varying degrees of effectiveness. The company's future challenge will be to achieve the operating and rate design efficiencies that would enable it to maintain or raise its returns in the jurisdictions in which it operates. Achieving fair rates of return and favorable rate designs would tend to enhance SUG's ability to attract investor capital and deliver stable cash flow and earnings patterns resulting in improved coverage ratios and debt repayment.

Northeast

Approximately 60% of the company's LDC gross margins come from its two northeastern divisions acquired over the last four years. This region serves approximately 460,000 customers.

The Rhode Island Public Service Commission allows New England Gas Company to share incremental earnings with customers when the division's operations return on equity exceeds 11.25% (on a 50%/50% basis for the first percentage point over 11.25% and 75% customer/25% company thereafter). The New England Gas Company is allowed to defer the margin impact of weather that is greater than 2% colder-than-normal and will recover the margin impact of weather that is greater than 2% warmer-than-normal.

The Massachusetts Department of Telecommunications and Energy (DTE) allows an 11.25% return on equity (ROE) for Fall River Gas.

To mitigate earnings from the volatility of weather in Pennsylvania, rates have been designed so that customer charges and increased distribution rates are in the first rate block, which has a lower degree of weather-sensitivity.

Missouri

Approximately 40% of the company's LDC gross margins come from its Missouri Gas Energy (MGE) operation which serves approximately 500,000 customers in central and western Missouri.

MGE is regulated by the Missouri Public Service Commission (MPSC), which sets a fairly stringent regulatory environment. On November 4, 2003, MGE filed a proposal with the Missouri Public Service Commission to increase annual base rates by \$44.8 million. In January 2004, MGE increased its claim to approximately \$54 million. Management has stated that the proposed increase is necessary to allow MGE the opportunity to earn a fair rate of return on the investment made in connection with providing service to its customers. The rate increase is necessary as a result of capital expenditures made since 2001, increased depreciation, taxes and operations and maintenance expenses, declining average usage per customer caused by increased efficiency of heating equipment and conservation and a need for an improved rate of return on MGE's entire investment in rate base. MGE does not have a weather normalization clause, which makes MGE sensitive to weather. MGE is attempting to obtain a fixed charge rate design as that granted to Laclede Gas Company in 2002. This fixed charge rate design would mitigate some of the earnings and cash flow volatility related to weather. Although MGE's prior base rate proceeding was concluded through settlement, if fully litigated, this proceeding will not be concluded and new rates will not go into effect on October 2004.

Capital Structure

Leverage remains high at the consolidated level with adjusted debt to capital at 77% and unadjusted debt to capital at 70%. Although some of this \$2.7 billion adjusted debt burden can be attributed to the Panhandle acquisition, SUG was highly leveraged before it acquired Panhandle from previous LDC acquisitions and incurred large amounts of goodwill through the various transactions. SUG's debt is higher than its diversified LDC peers which average in the mid-50% range. We expect that debt as a portion of total capital to decline as SUG pays down debt through internally generated cash flow and continues to provide internal equity formation as a result of its stock dividend policy. Debt reduction is also possible through the sale of some remaining non-core assets.

The company's equity base has been weak for the last few years with common equity exceeding goodwill at fiscal year end 2003 for the first time since fiscal 2001. Equity was boosted in fiscal year 2003 with the issuance of \$175 million of common equity and \$125 million of equity units in June 2003 and additional net income of \$76 million during the year. Equity was further boosted in October 2003 with the issuance of \$230 million of non-cumulative preferred equity. Goodwill is not expected to be impaired and stands strong at \$643 million. Moody's backs goodwill out of diversified gas companies' capital bases in the adjusted debt to adjusted capitalization metrics. Hence, the high goodwill balance pressures SUG's leverage.

Also factored into Moody's definition of adjusted debt is underfunded pension liabilities as determined by the gateway decision tree model². For the fiscal year ending 2003, this added about \$73 million to SUG's adjusted debt in Moody's analysis. Although medical and pension costs are rising in line with the national trend, SUG's management expects to be required to fund less than \$5 million in 2004 as the company determines funding requirements according to ERISA's 80% threshold rule, which all of SUG's pension plans meet.

Panhandle is also highly leveraged with debt to capital around 66%. Moody's expects Panhandle to remain leveraged in the mid-to-low 60% range for the near and intermediate term. These ranges are higher than Panhandle's regulated pipeline peer averages which sit closer to 50%.

Liquidity

SUG has sufficient liquidity with two committed bank facilities: one for \$150 million due in April 2004 and another for \$225 million due in May 2004. SUG does not utilize a commercial paper program, but instead borrows from its credit facilities for liquidity needs that cannot be met with internally generated cash flow. We expect these facilities will be used mainly for temporary, self-liquidating working capital requirements to purchase gas supply during the winter heating season, although they contain the unfavorable aspect of "material adverse change" clauses. These facilities also carry financial covenants with which the company is currently in compliance including limitations on liens, debt to capital caps, minimum net worth requirements, and coverage ratio thresholds.

Panhandle does not have credit facilities of its own as internally generated cash flow is typically sufficient to meet normal cash needs. Panhandle dividends excess cash up to the parent, supplementing SUG's liquidity.

Southern Union does not operate a corporate money pool given its corporate structure – namely, that the utilities are divisions of the same company and not separate legal entities. Because SUG's distribution divisions are part of the same legal organization, funds are intermingled among the gas utilities. SUG has also agreed with the Missouri Public Service Commission not to loan or invest any funds into Panhandle without prior consent from the commission. Panhandle has its own bank accounts separate from SUG's and its funds are not commingled with those of the gas utilities. Thus far, Panhandle has been cash positive and self-sufficient.

² Please see Moody's January 2003 Special Comment: Analytical Observations Related to Pension Obligations

Federal Energy Regulatory Commission

Panhandle Energy is regulated by the Federal Energy Regulatory Commission (FERC). FERC regulates Panhandle with a light hand. There are currently no issues outstanding at the FERC that management expects to have a material impact on the company.

Financial Analysis

Earnings

SUG's LDC business is seasonal, with most of its income earned in the first and fourth calendar quarters.

Hence, the company's earnings are weather sensitive, as are those of many other LDCs, since most of its gas volumes are used for space heating. Although SUG employs some weather mitigants in certain jurisdictions to combat the impact of warm weather, these mitigants currently leave approximately 42% of the company's LDC earnings exposed to weather volatility.¹ This percentage of earnings that is subject to earnings variance on account of warmer than normal weather drops to about 15% when the Panhandle earnings are included.

Earnings have begun to creep higher with the acquisition of Panhandle and its subsidiaries. For the twelve months ending December 2003, operating income (excluding "other income/expenses") increased to approximately \$101 million from about \$50 million at 2003 fiscal year end. Return on assets and return on equity declined somewhat for the same period due to the increase in equity and asset accounts. We expect that these measures will improve as SUG benefits from a full year of Panhandle earnings in fiscal 2004. Once SUG settles into its new business profile as a combination gas distribution and transmission business, we expect earnings to stabilize.

Coverages for SUG consolidated have remained relatively flat since fiscal 2001 with EBIT to interest in the 1.8x range and funds from operations to fixed charge coverage improved modestly over the last few years to 2.7x range as interest rates have decreased, somewhat offsetting the higher levels of interest from an increase in debt outstanding. These coverages are in line with SUG's Baa3 diversified peers. However, we expect coverages to improve as SUG pays down debt levels and achieves a predictable earnings pattern.

Cash Flow

Gross cash flow levels for SUG consolidated are improving, while free cash flow is more volatile. Free cash flow was negative for the twelve months ended September 30, 2003 and 2003 fiscal year end due to negative working capital balances. SUG expects free cash flow to be generally positive going forward, depending on working capital balances. Fortunately, SUG pays stock rather than cash dividends on its common stock, which helps to maximize cash flows available for capital expenditures and to build equity. Moody's views this practice favorably, since it maximizes the cash flows available for capital expenditures and debt reduction, reduces the need for external financing, and helps increase its equity. The stock dividend policy is unusual for a gas utility, which typically pays out most of its earnings and seeks to increase dividends regularly.

Its asset-heavy position has also given rise to high levels of capital expenditures for the twelve months ending September 30, 2003 of around the \$100 million range versus about \$78 million of depreciation. It is anticipated however, that annual capital expenditure levels for the LDC segment will remain at approximately \$70-75 million over the next few years and another \$70-75 million for the transmission business, reflecting the Company's commitment to increasing free cash flow. Moody's estimates the level of maintenance capex for both segments to be around 60% of total capital spending during the next few years, excluding special projects such as the Trunkline LNG expansions.

Cash flow to debt coverage is modest for SUG with gross cash flow covering only about 6% of total debt for the twelve months ending September 30, 2003 which compares to a range in the low teens for SUG's Baa3 diversified peers. SUG's current cash flow to debt coverage dropped from 8% - 9% in fiscal 2001 and 2002 with the company's increase in debt burden from the Panhandle acquisition. Because the debt was added on to SUG's consolidated balance sheet at fiscal 2003 year end and annual cash flows were not, there is a lag in the true cash flow to debt for the company. Moody's expects that this coverage will settle out in the low teens range on a steady-state basis.

Panhandle's cash flow is relatively stable with gross cash flow around the \$180 million mark for the last couple years. Moody's believes that Panhandle will continue to generate relatively stable cash flows, covering its capital expenditures. This steady stream of internally generated cash will supplement SUG's distribution's business cash flow well, particularly in more volatile weather environments when the distribution segment's cash flow may contain some variability.

¹ See Moody's October 2002 special comment *Negative Rating Trend for Local Gas Distribution Companies: Impact of Diversification and Warm Weather*

Related Research

Special Comments:

Negative Rating Trend For Local Gas Distribution Companies: Impact Of Diversification And Warm Weather, October 2002 (76344)

Moody's Sees Refinancing Risk as Manageable for the Natural Gas Transmission and Distribution Sector,

December 2002 (77008)

Diversification Risk Impacts Credit Quality of Gas Distribution Companies, August 2003 (78958)

Industry Outlook:

Diversified Gas Transmission, September 2003 (79462)

To access any of these reports, click on the entry above. Note that these references are current as of the date of publication of this report and that more recent reports may be available. All research may not be available to all clients.

Financial Statement Ratios

Financial Statement Ratios: Southern Union Company

To access any Financial Statement Ratios click on the entry above or to download Financial Statement Ratios in .csv format.

Description	Coupon (%)	Currency	Face Amount (mil)	Maturity	Moody's Rating
Southern Union Company					
SENIOR IMPLIED RATING	—	Domestic	—	—	Baa3
Conv. Sr. Notes	5.750	USD	125	2006	Baa3
Sr. Notes	7.600	USD	475	2024	Baa3
Sr. Notes	8.250	USD	300	2029	Baa3
7.55% Noncum. Perp. Pfd. Stk.	—	USD	230	—	Ba2
Panhandle Eastern Pipe Line Company, LLC					
Sr. Notes	7.875	USD	100	2004	Baa3
Global Senior Notes	6.125	USD	300	2004	Baa3
Senior Global Notes	4.800	USD	300	2008	Baa3
Global Senior Notes	6.500	USD	200	2009	Baa3
Global Senior Notes	8.250	USD	100	2010	Baa3
Senior Global Notes	6.050	USD	250	2013	Baa3
Global Senior Notes	7.000	USD	300	2029	Baa3
415 Shelf Registration	—	USD	300	—	(P)Baa3
415 Shelf Registration	—	USD	200	—	(P)Baa3

Author	Senior Associate	Production Associates
Edward Tan	Megyn Holzman	Alisa Ruiz Tara Libermanberger

8 Moody's Analysis

<p style="text-align: right;">Page 1</p> <p>1 BEFORE THE PUBLIC SERVICE COMMISSION</p> <p>2 STATE OF MISSOURI</p> <p>3</p> <p>4 In the Matter of Missouri Gas Energy's)</p> <p>5 Tariff Sheets Designed to Increase)Case No. GR-2004-0209</p> <p>6 Rates for Gas Service in the Company's)</p> <p>7 Missouri Service Area.)</p> <p>8</p> <p>9</p> <p>10</p> <p>11 DEPOSITION OF ROGER MORIN</p> <p>12 Taken on behalf of Staff</p> <p>13 June 10, 2004</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 3</p> <p>1 BEFORE THE PUBLIC SERVICE COMMISSION</p> <p>2 STATE OF MISSOURI</p> <p>3</p> <p>4 In the Matter of Missouri Gas Energy's)</p> <p>5 Tariff Sheets Designed to Increase)Case No. GR-2004-0209</p> <p>6 Rates for Gas Service in the Company's)</p> <p>7 Missouri Service Area.)</p> <p>8</p> <p>9</p> <p>10 DEPOSITION OF WITNESS, ROGER MORIN, via</p> <p>11 telephone, produced, sworn, and examined on June 10, 2004,</p> <p>12 between the hours of eight o'clock in the forenoon and</p> <p>13 six o'clock in the afternoon of that day at the offices of</p> <p>14 the Public Service Commission, Jefferson City, Missouri,</p> <p>15 before TRACY L. THORPE, a Certified Shorthand Reporter, a</p> <p>16 Court Reporter, C.C.R. No. 939 and Notary Public within and</p> <p>17 for the State of Missouri, in a certain cause now pending</p> <p>18 before the Public Service Commission, State of Missouri.</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>
<p style="text-align: right;">Page 2</p> <p>1 INDEX</p> <p>2 EXAMINATIONS</p> <p>3 Direct Examination by Mr. Berlin 5</p> <p>4 Direct Examination by Mr. Micheel 55</p> <p>5</p> <p>6 EXHIBIT INSTRUCTIONS</p> <p>7 None marked.</p> <p>8</p> <p>9</p> <p>10</p> <p>11</p> <p>12</p> <p>13</p> <p>14</p> <p>15</p> <p>16</p> <p>17</p> <p>18</p> <p>19</p> <p>20</p> <p>21</p> <p>22</p> <p>23</p> <p>24</p> <p>25</p>	<p style="text-align: right;">Page 4</p> <p>1 APPEARANCES</p> <p>2 JAMES C. SWEARENGEN, Attorney at Law</p> <p>3 Brydon, Swearingen & England</p> <p>4 312 East Capitol Avenue</p> <p>5 Jefferson City, Missouri 65102</p> <p>6 573-635-7166</p> <p>7 FOR: Missouri Gas Energy, via telephone</p> <p>8 ROBERT J. HACK, Senior Attorney</p> <p>9 3420 Broadway</p> <p>10 Kansas City, Missouri 64114</p> <p>11 FOR: Missouri Gas Energy, via telephone</p> <p>12 MICHAEL FAY, Attorney at Law</p> <p>13 1633 Broadway</p> <p>14 New York, New York 10019</p> <p>15 212-506-1706</p> <p>16 FOR: Missouri Gas Energy, via telephone</p> <p>17 DOUGLAS E. MICHEEL, Senior Public Counsel</p> <p>18 P.O. Box 2230</p> <p>19 Jefferson City, Missouri 65102</p> <p>20 573-751-5559</p> <p>21 FOR: Office of Public Counsel and the Public</p> <p>22 ROBERT FRANKSON, Associate General Counsel</p> <p>23 ROBERT BERLIN, Assistant General Counsel</p> <p>24 P.O. Box 360</p> <p>25 Jefferson City, Missouri 65102</p> <p>573-751-6651</p> <p>FOR: Staff of the Missouri Public Service Commission</p> <p>CERTIFIED COURT REPORTER:</p> <p>TRACY L. THORPE, C.C.R. NO. 939</p> <p>MIDWEST LITIGATION SERVICES</p> <p>11 North Fifth Street</p> <p>Columbia, Missouri 65201</p> <p>573-442-3600</p> <p>ALSO PRESENT: Travis Allen</p> <p>David Murray</p>

Page 5

1 IT IS HEREBY STIPULATED AND AGREED by and
 2 between Counsel that this deposition may be taken by TRACY
 3 L. THORPE, a Certified Shorthand Reporter, a Certified Court
 4 Reporter, C.C.R. 939 and Notary Public, thereafter
 5 transcribed into typewriting, with the signature of the
 6 witness being requested.
 7 ROGER MORIN,
 8 of lawful age, having been produced, sworn, and examined on
 9 the part of the Staff, testified as follows:
 10 DIRECT EXAMINATION BY MR. BERLIN:
 11 Q. Are you the same Roger Morin who's submitted
 12 Rebuttal Testimony on behalf of MGE in this proceeding?
 13 A. Yes, sir.
 14 Q. And for the purpose of this deposition, I will
 15 refer to you as Dr. Morin. Is that acceptable to you or do
 16 you have another preference?
 17 A. That is my preference.
 18 Q. All right. And for purposes of this
 19 deposition, who is your attorney?
 20 A. Michael Fay.
 21 Q. Okay. Dr. Morin, have you been deposed before?
 22 A. Very few times, but I have.
 23 Q. Then you know that I will be asking questions
 24 and that at any time that you do not understand my question,
 25 you will tell me?

Page 6

1 A. Yes, sir.
 2 Q. Dr. Morin, how are you employed presently?
 3 A. I am distinguished professor of finance at the
 4 Robinson College of Business, Georgia State University and
 5 professor of finance at the Center for the Study of Regulated
 6 Industries at the same institution.
 7 Q. Dr. Morin, how did you come to file testimony
 8 in this case?
 9 A. I received a telephone call from the office of
 10 Michael Fay asking me to perform a Rebuttal Testimony.
 11 Q. When were you contacted?
 12 A. Approximately a month and a half ago.
 13 Q. What were you told was the scope of the work
 14 that you were to perform?
 15 A. The scope was narrowly defined as engaging in
 16 the Rebuttal Testimony of Staff Witness Murray's rate of
 17 return testimony.
 18 Q. Who told you that?
 19 A. Mr. Fay.
 20 Q. What else did Mr. Fay tell you?
 21 A. That's it. Go ahead and do your Rebuttal, and
 22 I did.
 23 Q. What were you told not to do?
 24 A. No instructions were given as to what not to
 25 do, just to do a Rebuttal of the Staff witness rate of return

Page 7

1 testimony, period.
 2 Q. Who else did you talk with on the scope of your
 3 work?
 4 A. No one.
 5 Q. What documents do you have that describe your
 6 scope of work in this proceeding?
 7 A. I don't have any specific -- you mean like a
 8 contract or --
 9 Q. Well, any document that might describe your
 10 scope of work?
 11 A. I don't have a written document. It was done
 12 through the telephone. And my main base was described on
 13 page 3 -- page 2 and 3 of my rebuttal. Page 3.
 14 Q. Do you have a contract for purpose of retaining
 15 your services in this case?
 16 A. Yes, I do.
 17 Q. Who did you contract with?
 18 A. I dealt strictly with Mr. Fay for every aspect
 19 of this mandate.
 20 Q. I have a copy of a letter dated May 19th from
 21 Utility Research International --
 22 A. Yes.
 23 Q. -- Utility Financial Consultants with your
 24 signature and address, contact information. Do you recall
 25 that letter?

Page 8

1 A. Yes, that's the standard engagement letter.
 2 Q. Is that document the only document that you
 3 have that covers or addresses the scope of the work that you
 4 were to perform for MGE?
 5 A. Yes, sir.
 6 Q. So there are no other documents?
 7 A. No documents.
 8 Q. Do you have any other electronic communications
 9 regarding the scope of this work?
 10 A. No.
 11 Q. When did you meet Mr. Fay?
 12 A. I met him for the first time about an hour ago.
 13 Q. When did you first talk with Mr. Fay?
 14 A. Approximately a month and a half ago.
 15 Q. With regard to your work for MGE in this
 16 proceeding, how much are you being paid for your services?
 17 A. If you look at the engagement letter, you will
 18 see a fee that is dependent on the absence or presence of a
 19 full hearing or settlement and so on. So it can vary from 25
 20 to 30,000.
 21 Q. Have you already been paid?
 22 A. No, sir.
 23 Q. When will you be paid?
 24 A. I have no idea. I don't know how the accounts
 25 payable run over there. I have no idea.

Page 9

1 Q. Dr. Morin, whose testimony were you retained to
2 review?
3 A. Mr. Murray.
4 Q. In your preparations, did you review or look at
5 any other testimony?
6 A. I reviewed Mr. Dunn's testimony and -- and
7 Mr. Allen.
8 Q. Have you ever had any prior business dealings
9 with Southern Union?
10 A. No.
11 Q. So that I understand, you have never had a
12 business dealing in the past with Southern Union?
13 A. That is correct.
14 Q. With regard to this proceeding, who is your
15 contact at Southern Union?
16 A. I don't have one. I'm dealing strictly with
17 Mr. Fay.
18 Q. Do you know if Mr. Fay is working with Southern
19 Union or MGE in this matter?
20 A. I believe it's MGE.
21 Q. Have you had any prior dealings with MGE?
22 A. No, sir.
23 Q. Do you have a standard draft that you use for
24 capital structure and/or rate of return testimony?
25 A. Could you be more explicit on that question? I

Page 10

1 don't quite know what you mean.
2 Q. Do you have any material that you consider as a
3 standard narrative that you use for testimony purposes?
4 A. Yes, sir. I have some boilerplate text that
5 talks about the rudiments of rate of return regulation,
6 describes the various methodologies that one uses. So the
7 answer's yes.
8 Q. When can you provide Staff a copy of that
9 boilerplate that you use?
10 A. All I can do for you is provide you any copy of
11 any testimony that you want me to send to you. Now, I have
12 most of them for the last five years so just tell me which one
13 you want and I'll be glad to send it to you electronically.
14 Q. Dr. Morin, were you given a draft of testimony
15 for purposes of this proceeding?
16 A. No, absolutely not. I have a mind of my own in
17 these matters.
18 Q. Did Mr. Fay provide any assistance to you in
19 preparing your testimony?
20 A. None whatsoever, other than send me the
21 documents.
22 Q. So who wrote your testimony?
23 A. I did.
24 Q. Did you have any conversations with Mr. John
25 Dunn in preparing your testimony?

Page 11

1 A. No. I have never met Mr. Dunn in any way,
2 shape or form.
3 Q. But you did review Mr. Dunn's testimony; is
4 that correct?
5 A. I -- I scanned it and read it once.
6 Q. Did you do that before preparing your
7 testimony?
8 A. No. Actually I did that afterwards.
9 Q. Do you know a Mr. Eric Hirschmann?
10 A. No, I do not.
11 Q. Do you know Mr. Kvapil?
12 A. No, I do not.
13 Q. Mr. Marshall?
14 A. No.
15 Q. Mr. Dennis Morgan?
16 A. No.
17 Q. Do you know Mr. Rob Hack?
18 A. No.
19 Q. Do you know Mister -- you know Mr. John Dunn
20 through the testimony and only through the testimony; is that
21 correct?
22 A. Yes, sir.
23 Q. Do you know Mr. John Guillen?
24 A. No, I don't.
25 Q. Do you know Mr. Mike Noack?

Page 12

1 A. No, I do not.
2 Q. Do you know a Mr. John Quain?
3 A. No, sir.
4 Q. Do you know Mr. Jim Oglesby?
5 A. No, sir.
6 Q. So you have not had communications with any of
7 the people that I just asked you about; is that correct?
8 A. That is correct.
9 Q. Dr. Morin, what documents did you rely on in
10 preparing your testimony?
11 A. Obviously Mr. Murray's testimony and my own
12 knowledge and some of the articles that I cite in the
13 Rebuttal, but 99 percent was my own knowledge and experience
14 and materials.
15 Q. Are there any documents that support your work
16 in preparing this testimony?
17 A. They are contained in the appendix, so the
18 answer would be no. Everything is in the Rebuttal. I cite a
19 few documents like the Ibbotson Valuation Yearbook and I did
20 rely on the Value Line Investment Survey for Windows on
21 CD-ROM. Those are the two major sources utilized in this
22 Rebuttal.
23 Q. In preparing your Rebuttal Testimony, did you
24 make any upward adjustments to Mr. Murray's recommendations?
25 A. Yes, sir.

<p style="text-align: right;">Page 13</p> <p>1 Q. How many individual upward adjustments did you 2 recommend based on your review of Mr. Murray's testimony? 3 A. Would you repeat, please? I'm sorry. 4 Q. How many individual upward adjustments did you 5 recommend based on your review of Mr. Murray's testimony? 6 A. Well, they are enumerated in detail on page 42, 7 lines 3 through 8 for the DCF results and they are also stated 8 on lines 21 through 25 as far as the CAP-M methodology is 9 concerned. So I refer you to that page 42. 10 Q. So page 42 gives a -- is it strictly page 42, 11 if I understand you, that gives the summary of your upward 12 adjustments? 13 A. Yes, sir. 14 Q. Did you recommend any downward adjustments to 15 Mr. Murray's testimony? 16 A. No, I haven't seen a need. 17 Q. Could you restate your answer, please? 18 A. I said, no, I did not see any need for that. 19 If I had, I would have. 20 Q. Referring to your testimony, Dr. Morin, do you 21 have a copy of it before you? 22 A. Yes, sir. 23 Q. On page 11, you state that, Floatation costs 24 amount to 5 percent which, in turn, amount to approximately 25 30 basis points for MGE. Is that a correct statement?</p>	<p style="text-align: right;">Page 15</p> <p>1 Q. On page 14 you're addressing the functional 2 form of the DCF model used by Mr. Murray? 3 A. Yes, sir. 4 Q. You state on lines 7 to 8, quote, This creates 5 a downward bias in his dividend yield component and 6 underestimates the return on equity by approximately 30 basis 7 points? 8 A. Yes. 9 Q. Is that a correct reading of your testimony? 10 A. Yes, sir. 11 Q. How did you calculate this 30 basis points? 12 A. If you are compare the quarterly version of the 13 DCF model to the plain vanilla annual version, there's a 14 difference of 30 basis points. The idea here is like if you 15 deposit some money in the bank at 10 percent compounded 16 annually, whereas, the bank across the street gives you 17 10 percent compounded quarterly, the effective rate of return 18 is about 10.3 in the latter bank. It's the same idea for 19 stock prices and dividends. 20 Q. Do you have any work paper that shows that 21 calculation that you made? 22 A. Not directly, no. 23 Q. Do you have any indirect calculations or papers 24 that show that? 25 A. In my book, which is entitled Regulatory</p>
<p style="text-align: right;">Page 14</p> <p>1 A. Yes, sir. 2 Q. How did you arrive at the figures of 5 percent 3 and 30 basis points? 4 A. For the 5 percent, I relied on an extensive 5 array of empirical studies that have examined location costs 6 in the case of electric utility stock offerings and those 7 studies are cited in the appendix. And those studies indicate 8 pretty unanimously a floatation cost adjustment of 9 approximately 5 percent. 4 percent for direct cost and 10 another 1 percent for what we call market pressure or indirect 11 costs. And if you divide the dividend yield of a utility -- a 12 typical dividend yield of 4 or 5 percent by .95, in view of 13 the 5 percent, you get 30 basis points. 14 Q. So you had to make some calculations; is that 15 correct? 16 A. Well, I used the 5 percent based on the 17 empirical evidence which is pretty consistent at 5 percent. 18 And then if you divide the typical dividend yield of the 19 utility by .95, 1 minus 5 percent, that translates into a 20 30 basis points adjustment. 21 Q. Do you have any work papers that show that 22 adjustment? 23 A. Yes. It's in the appendix -- the Floatation 24 Cost Appendix, Schedule RAM-2. The calculation is shown on 25 page 5 of 9, Schedule RAM-2.</p>	<p style="text-align: right;">Page 16</p> <p>1 Finance, there is a discussion of the quarterly model. It 2 appears in Chapter 7. And the 30 basis points that you are 3 referring to can be found around page 184, 185. There's some 4 illustrative calculations there that show that quarterly 5 compounding results in an extra 30 basis points or so. That 6 would be Chapter 7, pages 185 through 189, approximately. 7 Q. All right. On page 14, lines 21 to 23 you say, 8 By failing to recognize the quarterly nature of dividend 9 payment in his DCF computation, Mr. Murray understates the 10 required return on equity capital by about 20 basis points? 11 A. Correct. 12 Q. How do you arrive at this approximate 20 basis 13 point figure? 14 A. In the case of gas utilities as opposed to 15 electric utilities, gas utilities have a smaller dividend 16 yield component. So the bias from using the plain vanilla 17 annual model instead of the quarterly model is not as severe 18 as in the case of electric utilities. So the 20 basis points 19 is the underestimation because the dividend yield component to 20 which that adjustment applies is smaller in the case of gas 21 utilities versus the case of electric utilities. 22 In other words, more of the return on gas 23 utilities is from growth rather than from dividend yield. So 24 the misstatement, so to speak, is not as severe in the case of 25 gas utilities.</p>

Page 17

1 Q. Did you make a calculation to arrive at that
2 number?

3 A. Yes, I did. It's not specified here. I didn't
4 think there was a need for it, but if you have a dividend
5 yield of the gas utilities in the gas group, which is
6 approximately 4 percent, and include the quarterly adjustment,
7 it's approximately 4.2 percent effectively. Just like my bank
8 example earlier.

9 Q. Do you have any work papers supporting that?

10 A. No. It's in the book on the same pages I cited
11 earlier.

12 Q. Do you have any work papers to support any of
13 the upward adjustments that you recommend in your testimony?

14 A. Well, let's go on page 42, which summarizes in
15 the table form the various understatement. We've already
16 addressed No. 3 -- or excuse me, line 3 in Exhibit RAM-2, the
17 floatation cost exhibit.

18 Your line of questioning in the last minute or
19 so addressed line 4 -- excuse me, line 5, the quarterly DCF.
20 The negative growth rates -- if you eliminate companies with
21 negative growth rates, there's a table in my testimony that
22 shows that resulting growth rates is 50 basis points higher.
23 And same with the others. It's all discussed in the testimony
24 pretty clearly in table form.

25 Q. Okay. But my question is, do you have any work

Page 18

1 papers?

2 A. The work papers are actually in the testimony
3 in the form of tables. For example, tables on page 17,
4 pages 18, pages 20. There's five tables that incorporate the
5 corrective data, so to speak, so that's the work papers in a
6 sense. That's the foundation for the understatement.

7 Q. Do you have any other pages or documents
8 supporting your testimony that are not contained in your filed
9 testimony?

10 A. No, sir. Well, maybe -- let me backtrack on
11 that one. One particular criticism that I have is the FM--
12 the appropriate functional form of the CAP-M, which I refer to
13 as the empirical CAP-M in my testimony. I do have the
14 document that explains that in much more detail than I did
15 here. If you want to have that, you're quite welcome to it.

16 Q. Yes, I would like to have that.

17 A. Okay.

18 Q. Just give me an e-mail address and I will
19 electronically forward it to you. It's called the CAP-M and
20 the Empirical CAP-M.

21 Q. All right. I'm going to give you my e-mail
22 address.

23 A. Okay. Shoot.

24 Q. It's Bob.Berlin@psc.mo.gov.

25 A. Okay. You'll have it tomorrow morning.

Page 19

1 Q. All right. Thank you.

2 Dr. Morin, when did you start the work that
3 resulted in the testimony that you filed in this case?

4 A. Well, time is of the essence here. I did get
5 the original phone call about six weeks ago and I think I only
6 had about -- or less than a week to do this. And I recall
7 having to work with my staff on the weekend and everything.
8 So it was all done in accelerated time schedule in a period of
9 about four to five days.

10 Q. When did you complete the work?

11 A. I would say something like five weeks ago.

12 Q. You indicated that you have a staff that works
13 with you; is that correct?

14 A. Yes.

15 Q. Who is on your staff?

16 A. They're typically former master's students that
17 help me out with data, exhibits and so on and so forth. I
18 typically use them in Direct Testimony rather than Rebuttal.
19 I tend to do the Rebuttal work myself.

20 Q. How many individuals are on your staff that
21 worked on this?

22 A. On this one, none.

23 Q. I thought you told me that you had a staff that
24 worked on this testimony because you had a short time frame.

25 A. Well, I did use these resources. I thought

Page 20

1 your question was sort of generic about Utility Research
2 International. In the case of a Rebuttal, and in view of the
3 time frame that was involved, there wasn't that much time
4 to -- or need to gather that much data in a sense. But when I
5 do a Direct Testimony with, you know, 15, 20 exhibits, then I
6 do resort to the staff.

7 Q. So you did not use members of your staff for
8 the purposes of preparing this Rebuttal Testimony; is that
9 correct?

10 A. Correct. For this specific document, no.

11 Q. How many hours did you work to develop the
12 testimony that you presented in this case?

13 A. I'll give you a rough estimate. Somewhere
14 around 25 hours.

15 Q. Dr. Morin, are you familiar with the term
16 "expert" in a legal proceeding?

17 A. Well, I don't think -- I don't want to venture
18 into the legal terrain here, but I certainly know what an
19 expert is.

20 Q. Are you an expert in all areas of finance?

21 A. Not in all areas of finance, but I am an expert
22 in the areas of corporate finance and certainly in regulatory
23 finance. But I am not an expert in other areas of finance
24 like portfolios or derivatives or capital markets or banking.
25 Finance is a very broad field and we can only manage some

1 expertise in one narrow part of that field.

2 **Q. Are you a leading expert in the area of capital**
3 **structure and rate of return?**

4 A. Well, I think so. Certainly considered as such
5 throughout the world, but I'll let you be the judge of that.

6 **Q. Are you the only expert in the area of capital**
7 **structure and rate of return?**

8 A. No. Of course not.

9 **Q. What is your definition of an expert?**

10 A. Somebody that has a scholarly academic approach
11 to a certain topic, somebody that has written extensively on
12 the topic and has been confronted with peer reviews of his
13 ideas and materials. Somebody preferably with a Ph.D in
14 finance. Those would be some of the criteria I would be
15 looking for. Someone who's taught finance for several years,
16 somebody who's conducted research and published in scientific
17 journals subject to peer review. That would be my definition
18 of an expert. It's nice to have that experience as well in
19 the field, practical experience.

20 **Q. Who else would be considered an expert**
21 **according to your criteria in capital structure and rate of**
22 **return?**

23 A. Boy, that's a tough question. You mean -- you
24 want me to give you some names?

25 **Q. Yes. Names of --**

1 A. I'll --

2 **Q. -- individuals.**

3 A. -- name you a couple of people that I would
4 respect highly. One of them would be Eugene Brigham,
5 B-r-i-g-h-a-m, Brigham. He's a very, very well-known scholar
6 in the field of utility finance. I would definitely put
7 professor Stewart Myers from MIT in the category of a scholar
8 and expert and leading guru, so to speak, in the field of
9 regulatory finance. Another one that comes to mind would be
10 James Vanderweide, V-a-n-d-e-r-w-e-i-d-e, Vanderweide,
11 professor at Duke University who's written extensively and
12 published extensively in the field of regulatory finance.

13 Those are some of the names that come to mind.

14 There are not that many in regulatory finance proper. Most of
15 the experts are in corporate finance, rather than regulatory
16 finance. So those are some of the names tha come to mind.

17 **Q. Do you know a David Parcell?**

18 A. Yeah. David Parcell and I met each other
19 several times in prior cases and we have met at professional
20 meetings, we have been on panels and conferences together.

21 **Q. Does Mr. Parcell meet your definition of an**
22 **expert on capital structure and rate of return?**

23 A. I have a lot of respect for Mr. Parcell and I
24 know him very well. He's a little bit short of what I would
25 qualify as an expert, but I do consider him a respectable

1 scholar and sort of a colleague. The only missing link here

2 would be the research experience and the doctoral
3 designation, but he's a good man.

4 **Q. Have you consulted with anyone to determine**
5 **whether you are qualified as an expert on capital structure**
6 **and rate of return in the state of Missouri?**

7 A. No. I thought that -- well, this is going to
8 sound awful, but I thought my resume spoke for itself.

9 **Q. Dr. Morin, how do you keep yourself current on**
10 **the subject of utility capital structure and rate of return?**

11 A. I read a lot of the academic journals, the ones
12 that are practical oriented and the ones that are more
13 theoretical oriented. I supervise the doctoral dissertations
14 that have to do with utility topics. I teach national
15 seminars all over the country and other countries as well in
16 utility finance. I do a lot of training of attorneys and
17 staff members and utility analysts, company analysts
18 throughout the country. Just a lot of reading and keeping up
19 with the journals and research and conducting my own research
20 and I write books on utility finance. Does that answer that
21 question or --

22 **Q. Do you have any one or, say, group of**
23 **publications that you rely heavily on?**

24 A. Journal of Finance, Journal of Financial
25 Economics and the Journal of Applied Corporate Finance would

1 be the three journals that I rely on. And one more, sorry,
2 Financial Management.

3 **Q. All right. I'm going to read for you section**
4 **490.651 of the Revised Statutes of Missouri. And subsection 1**
5 **states, In any civil action, if scientific, technical or other**
6 **specialized knowledge will assist the trier of fact to**
7 **understand the evidence or to determine a fact in issue, a**
8 **witness qualified as an expert by knowledge, skill,**
9 **experience, training or education may testify thereto in the**
10 **form of an opinion or otherwise.**

11 **Do you believe that Staff Witness David Murray**
12 **is an expert qualified in Missouri on the area of capital**
13 **structure and rate of return?**

14 A. No.

15 **Q. Why not?**

16 A. If he was, I don't think he would have
17 committed some of the errors that I point out in my Rebuttal.

18 **Q. Is there anyone who works now as a financial**
19 **analyst for any state utility commission that you would**
20 **consider to be an expert on capital structure and rate of**
21 **return?**

22 A. Yes.

23 **Q. Who is that?**

24 A. I'm just -- I mean, I've worked in 45 different
25 states and 9 different provinces and different countries. I'm

Page 25

1 just trying to get my thoughts together here.

2 I would say Ron Kencht, K-e-n-c-h-t, of Nevada;

3 Steve Kim with Wisconsin Public Service Commission; and

4 there's -- it escapes me right now, but the Illinois Commerce

5 Commission has an excellent rate of return Staff Witness;

6 Mr. Bolinger in Michigan; Mr. Andrew Morey, Florida PSC.

7 Those are people that are -- I find very, very competent in

8 the area of rate of return and capital structure. Doesn't

9 mean I agree with everything they say, but I agree with their

10 expertise generally.

11 Q. Of this group of individuals you just listed

12 for me, how many of them have Ph.D.s?

13 A. Two that I know, but I really -- I haven't

14 studied the resume of each one of those, but I think two of

15 them do.

16 Q. So you don't know which ones of the --

17 A. Mr. Ron Kencht has a Ph.D. This is not

18 something that I studied or done or -- I have to check, but --

19 Q. So you know of one for certain who has a Ph.D.

20 in that list you gave me?

21 A. I'm almost certain.

22 Q. But you think maybe one more has a Ph.D.?

23 A. Yes. I think the fellow from Illinois. His

24 name escapes me, but I'll remember it in a minute.

25 Q. Now, you indicated some other individuals in

Page 26

1 that group that do not have Ph.D.s apparently. What makes

2 them qualified as experts on capital structure and rate of

3 return?

4 A. Three things: One, experience; No. 2, their

5 methodologies and procedures, their testimonies that I have

6 scrutinized in the past, they don't make a lot of the

7 theoretical and methodological errors that I point out in this

8 Rebuttal; and then No. 3, experience through the years,

9 participation in various rate of return forums or conferences.

10 Q. What kind of experience do you think they

11 should have to be experts?

12 A. I think they should have taught finance, they

13 should have minimum of a master's degree in economics or

14 finance, should have gone through several rate cases at the

15 junior level before they participate at a more senior level.

16 They should have had some kind of writing -- some kind of

17 publication, perhaps not in the journals that I mentioned but

18 in other more trade-oriented journals. Those are some of the

19 things I'd be looking at, just the quality of their work as

20 well.

21 Q. So of that group that you gave me, all of them

22 would have at least a master's degree; is that correct?

23 A. I would think so, yes.

24 Q. Dr. Morin, are you familiar with the term

25 "interest rates" and what they have been in the past?

Page 27

1 A. Of course, yes, sir.

2 Q. Can you identify a time in the past when

3 interest rates were similar to today's interest rates?

4 A. Well, let's use treasury bond yield as sort of

5 a benchmark here, long-term treasury bond yield. They've been

6 at the 5, 5 1/2 percent level for several years now and they

7 have started to escalate in the last month or so.

8 But if you take a longer term perspective,

9 let's say 10 years, there clearly has been a steady decrease

10 in interest rates up until about a month or so ago. And as

11 the economy is in the process of recovering and in view of

12 Chairman Alan Greenspan's remarks, we have seen long-term

13 rates starting to go up again in response to the recovering

14 economy.

15 Q. Did you perform any cost of capital or cost of

16 equity studies at the time that -- in the past when interest

17 rates were similar to today's interest rates?

18 A. Yes.

19 Q. What studies did you perform?

20 A. Well, I -- I've testified several times in the

21 last 25 years, probably four or five times a year. If you

22 could be a little bit more specific, I could help you more.

23 Q. Well, all right. I'll be more specific. The

24 last time that interest rates were at 5 to 5 1/2 percent

25 before 10 years ago?

Page 28

1 A. I don't think there was such a case prior to

2 1994.

3 Q. Dr. Morin, you have reviewed Staff Witness

4 Murray's testimony in its entirety, have you not?

5 A. Yes, sir.

6 Q. What portions of Mr. Murray's study did he do

7 right?

8 A. Well, he did use the right beta risk measures.

9 I don't have too much of a problem with the comparable group.

10 Those are two areas that I would agree with.

11 Q. Any others?

12 A. I don't have a problem with the raw dividend

13 yield, the spot dividend yield with respect to the stock

14 price. And that's about it.

15 Q. Did you analyze the past five years of dividend

16 payout ratios for the comparable companies used by Mr. Murray?

17 A. I did notice a decrease in the payout ratios of

18 energy utilities in general, not so much historical but the

19 forecast as well. Utilities right now are in the process of

20 lowering their dividend payout in response to increasing

21 competition and in response to restructuring. So dividend

22 growth has been quite a bit less than earnings growth, both

23 historically and prospectively while they're still traversing

24 this process.

25 Q. Okay. So you said you observed it, but did you

Page 29

1 analyze the past five years of dividend payout ratios in any
 2 kind of a study of Mr. Murray's comparable companies?
 3 A. Well, all we have to do is look in the tables
 4 in my Rebuttal and you'll find that information. If you look
 5 at -- well, for example, just pick one table, Table 3 on page
 6 20 or Table 4 on page 21.
 7 Q. Okay. I'm at Table 3 on page 20.
 8 A. All right.
 9 Q. Let's go to Table 4, probably easier to deal
 10 with. And it's pretty clear that if you look at the last
 11 column, which is only a dividend for shared growth, the
 12 historical numbers of 1.7 percent are quite a bit lower than
 13 the earnings growth rate numbers and quite a bit less than the
 14 earnings forecast. So you can see it pretty obviously there
 15 in the data that dividends have been growing at a slower pace
 16 than earnings historically and the same is true prospectively.
 17 Q. Have you analyzed where Mr. Murray's
 18 recommended rate -- I'm sorry, recommended return on equity
 19 falls in relation to other recommended ROEs approved by other
 20 state utility commissions?
 21 A. Yes. The primary source of data, which is
 22 fairly standard in the industry, is a document which is
 23 entitled Regulatory Research and Associates Survey of ROE
 24 Decisions. And it comes out every quarter. And the average
 25 ROE that was allowed in 2001 was 11 percent, 2002 was

Page 30

1 11 percent, 2003 was 11 percent and so the first quarter of
 2 this year it's 11.1 percent. So I think the -- that speaks
 3 for itself in terms of the answer to your question.
 4 Q. Are you referring to any particular portion of
 5 your testimony?
 6 A. No. I'm referring to my own knowledge and my
 7 own familiarity with Regulatory Research and Associates
 8 Survey. It's pretty well standard -- pretty well-known
 9 standard document in the field.
 10 Q. So that information that you just gave me is
 11 not contained in your testimony?
 12 A. Yes, it is. I will refer you to page 10, lines
 13 6 through 11. You see line 6 through line 11?
 14 Q. Yes, I do.
 15 A. Okay. Well, it seems that 11 percent is the
 16 currently authorized rate of return as well as the historical
 17 one.
 18 Q. Now, these returns, if I understand you
 19 correctly, are ones that were approved in the first quarter of
 20 2004?
 21 A. Yeah. The average for the first three months
 22 of 2004 was 11.1 percent, that's correct. And the publication
 23 date is March 30th, 2004.
 24 Q. So that means that the utility commissions
 25 issued orders approving those returns in the first quarter of

Page 31

1 2004?
 2 A. Yes, sir.
 3 Q. Should the authorized return on equity for
 4 utilities reflect their cost of common equity?
 5 A. Yes.
 6 Q. Should the allowed return on equity be based on
 7 the company's cost of common equity?
 8 A. Yes.
 9 Q. If the allowed return on equity is based on the
 10 cost of capital, do you believe this will allow a company to
 11 raise capital and maintain the financial integrity?
 12 A. Yes, sir.
 13 Q. If an allowed return on equity in another state
 14 is set above a utility's cost of common equity, do you believe
 15 that other states should adjust their recommended cost of
 16 common equity to take that into consideration?
 17 A. No. I think every Commission should have a
 18 mind of its own. We have a potential circularity problem if
 19 we focus strictly on what other commissions are doing. The
 20 authorized ROE is but one piece of the big giant puzzle here.
 21 If we were just to look at what other commissioners were
 22 doing, we'd be looking at sort of multiple mirror images of
 23 one another and nothing would ever change. So I think you
 24 have to go a little bit beyond that and look at the capital
 25 market data as well as authorized return.

Page 32

1 The only reason I examined authorized return is
 2 to provide some perspective to the Commission on the Staff's
 3 recommendation here. And also we have to admit that
 4 authorized rates of returns do influence analysts' forecasts
 5 of future growth and, therefore, are very influential in
 6 determining investor expectations.
 7 Q. Is it your practice to support floatation costs
 8 when you sponsor a rate of return recommendation in your
 9 testimony?
 10 A. Yes, sir. Always. Except in the rare case of
 11 a publicly-owned type utility like Tennessee Valley or
 12 Hydrokibec (ph.), but the answer's yes, for investor-owned
 13 utilities.
 14 Q. Do you recommend that MGE collect floatation
 15 costs for Missouri ratepayers?
 16 A. Yes, sir. Because equity is simply not free.
 17 We do it for bonds, we do it for preferred stock and we should
 18 do it for equity costs as well.
 19 Q. Can you tell me why Southern Union had to
 20 recently issue common stock?
 21 A. Can you repeat that, please?
 22 Q. Can you tell me why Southern Union had to
 23 recently issue common stock?
 24 A. Well, their capital structure is relatively
 25 weak compared to the industry averages. So I believe they're

Page 33

1 trying to bolster their capital structure by increasing the
 2 common equity ratio and they intend to continue doing that
 3 over time.
 4 **Q. When you say that Southern Union's capital**
 5 **structure is weak, why is that?**
 6 A. Well, if you look at the common equity ratio of
 7 the company, it's substantially less than comparable on
 8 natural gas utilities.
 9 **Q. And what caused that?**
 10 A. I haven't studied all of that, but I suspect
 11 there may have been some acquisitions in the past that were
 12 financed by debt that caused that.
 13 **Q. Would an acquisition such as the acquisition of**
 14 **Panhandle operations be the type of acquisition that might**
 15 **affect their or does affect their capital structure?**
 16 A. Yes.
 17 **Q. Do you believe that it's appropriate for MGE to**
 18 **collect floatation costs for Southern Union's equity issues**
 19 **that are used to drive down the debt that Southern Union**
 20 **incurred from its acquisition of the Panhandle operations?**
 21 A. Repeat that, please.
 22 **Q. Sure.**
 23 A. I'm sorry.
 24 **Q. Do you believe that it is appropriate for MGE**
 25 **to collect floatation costs for Southern Union's equity issues**

Page 34

1 that are used to drive down the debt that Southern Union
 2 incurred from its acquisition of the Panhandle operations?
 3 A. No, I do not. I do believe that MGE should pay
 4 the freight for the equity that is used to finance rate-base
 5 assets in its jurisdiction.
 6 **Q. Do you believe that a hybrid security such as a**
 7 **trust originated preferred securities is more or less risky**
 8 **than traditional non-cumulative preferred stock?**
 9 A. I don't know.
 10 **Q. If both securities were issued, do you have any**
 11 **opinion as to what might be subordinate?**
 12 A. As far as common equity is concerned, it's
 13 senior debt. These securities are ahead in the food chain, so
 14 to speak, as far as common equity is concerned. So for a
 15 shareholder, that's debt or debt equivalent. From a bond
 16 holder's perspective, it's part of the equity cushion. Since
 17 we're talking here about return on equity, it would be a
 18 debt-like instrument.
 19 **Q. Okay. But do you have any opinion as to**
 20 **whether a trust originated preferred securities would be**
 21 **subordinate to non-cumulative preferred stock?**
 22 A. No, I don't. I'm sorry.
 23 **Q. How does the market view this?**
 24 A. The way bond rating agencies view it, the way
 25 the equity research views it is debt equivalent.

Page 35

1 **Q. What is the current yield on Southern Union's**
 2 **preferred stock, do you know?**
 3 A. No, I do not.
 4 **Q. Is the cost of capital influenced by the level**
 5 **of interest rates?**
 6 A. Yes, sir.
 7 **Q. What is the appropriate risk premium to be**
 8 **awarded to a utility on common stock over the current yield on**
 9 **triple B rated utility bonds?**
 10 A. Triple B bonds, as we speak, are yielding close
 11 to 7 percent. And an appropriate risk premium on top of that
 12 would be somewhere between 4 and 5 percent. And the only
 13 reason for my hesitation is what company are we talking about
 14 here? It may be closer to 5 percent for a B double A three,
 15 may be closer to 4 percent for a B double A1. It depends on
 16 the company, its business risk, its S&P business risk score
 17 and a variety of other factors. But as an order of magnitude,
 18 I would say 4 to 5 percent over 7.
 19 **Q. When you sponsor rate of return**
 20 **recommendations, what model or models do you use?**
 21 A. Oh, ever since I began in the business some
 22 25 years ago, I've been very, very, very consistent in using
 23 an equally weighted average of CAP-M to DCF and the risk
 24 premium methodology. I've always done it that way for reasons
 25 of consistency and comparability and credibility.

Page 36

1 As I explained in the Rebuttal, it's very
 2 dangerous to rely on one methodology and back yourself into a
 3 corner when that methodology doesn't work. It's sort of like
 4 a pilot flying on a single instrument, could be a very
 5 dangerous flight. So I prefer to fly on all the instruments
 6 in front of me so I get a better read on the investor-expected
 7 returns.
 8 **Q. Do you use a quarterly DCF model?**
 9 A. It depends. I have tended not to recently
 10 because it's technically complex. For -- for utilities where
 11 you have a historical test year, I do use a quarterly DCF. In
 12 the case of utilities that have a forward test year, I tend to
 13 use the annual DCF.
 14 **Q. Are you familiar with what is called the End**
 15 **Result Doctrine?**
 16 A. Yes. I presume you're referring to the Hope
 17 principle that the end justifies the means. Is that what
 18 we're talking about here?
 19 **Q. I would refer to page 13 of your textbook.**
 20 A. Okay. I have it. I'm on page 13.
 21 **Q. You're on page 13?**
 22 A. Yes.
 23 **Q. All right. Referring to page 13 of your**
 24 **textbook, the End Result Doctrine, could you please explain**
 25 **that?**

1 A. You want me to explain the End Result Doctrine?
 2 Q. Yes, please.
 3 A. Well, the End Result Doctrine -- I'm just
 4 quoting out of my book -- strongly suggests that the -- the
 5 methodology is really sort of immaterial if the end result is
 6 reasonable to both the consumer and the investor. In other
 7 words, you're not handicapped or you're not in a
 8 straightjacket in terms of what method you use. You're not a
 9 slave to any single formula or sort of a robot. That's sort
 10 of the spirit of the End Result Doctrine.
 11 Q. All right. Dr. Morin, what in your terms or
 12 definition is the DCF model?
 13 A. Well, the DCF model says something very
 14 intuitively that when you're buying stock, your return comes
 15 in part from dividends and in part from capital gain. And the
 16 DCF model is an expression of that reality.
 17 Q. On page 3, line 18 of your testimony --
 18 A. Yes.
 19 Q. -- you refer to Mr. Murray using the -- and
 20 I'll quote -- plain vanilla, unquote, DCF model as the primary
 21 tool to determine the required return on MGE. What is a plain
 22 vanilla DCF model?
 23 A. That is the sort of naked DCF model without any
 24 adjustments for floatation costs, without any adjustment for
 25 the expected dividend yield as opposed to the spot dividend

1 yield, no adjustment for the fact that dividends come in every
 2 quarter as opposed to every year. That's what I have in mind
 3 with that expression.
 4 Q. Is the term "plain vanilla" a term you use in
 5 your textbook?
 6 A. Probably not. I don't know. I suspect not.
 7 Q. Did you develop the concept of a plain vanilla
 8 DCF model?
 9 A. Well, I don't think I'm going to take credit
 10 for that. It is what I just described it to be. It's a DCF
 11 model without any of the real-world refinements like
 12 floatation costs and the forward-looking nature of dividends
 13 and the quarterly nature of dividend payments.
 14 Q. Are you aware of whether the term "plain
 15 vanilla" is used in other leading finance textbooks?
 16 A. I don't know. I didn't survey textbooks to see
 17 if they use the same language I use. I -- I've seen some
 18 reference to the term "a raw DCF model." I guess that means
 19 the same thing.
 20 Q. What other flavors of DCF models do you sponsor
 21 or find acceptable?
 22 A. I tend to use the DCF model with adjusted
 23 floatation costs and historical test year jurisdictions
 24 adjusted for quarterly dividend payments as well. And also I
 25 do the prospective dividend yield as the model requires as

1 opposed to the spot dividend yield.
 2 Q. When did the DCF model become more popular than
 3 the comparable earnings approach?
 4 A. Roughly when Professor Gordon came up with the
 5 model in the approximately mid-'60s.
 6 Q. Can you tell me how many models Mr. Dunn used
 7 to estimate the cost of common equity in this case?
 8 A. Well, I can't speak for Mr. Dunn, but I read
 9 his testimony and I think he basically used the DCF method
 10 because that's been the Commission's tradition in the past.
 11 Q. Do you agree that the use of the DCF model is a
 12 cost of capital model that will equate to an investor's
 13 required rate of return?
 14 A. Yes. And the key word is one model. But yes,
 15 I agree with you.
 16 Q. When analyzing historical growth rates, do you
 17 believe it appropriate to average five- and ten-year growth
 18 rates?
 19 A. It depends on the circumstances of the
 20 industry. If the industry is in a state of flux or
 21 transition, historical growth rates are not representative of
 22 the future. If the industry is very, very stable, then I
 23 would say yes. And, of course, the electric and the gas
 24 industries have been anything but stable in the last five
 25 years, so I would be very cautious on using history, if at

1 all.
 2 Q. Do you believe that dividend per share and book
 3 value per share growth rates can be used as a test of
 4 reasonableness of earnings per share growth rates projected
 5 for the future?
 6 A. Yes. As a general proposition, I agree with
 7 that. That's if everything is stable, if dividend policies
 8 are stable and capital structure policies are stable. And, of
 9 course, have not been through -- as we discussed earlier, you
 10 and I, energy utilities are in the process of altering their
 11 dividend payoff policy so you have to be a little bit careful
 12 in equating the growth rates of booked dividends and earnings
 13 per share.
 14 Q. Are you aware of any period in which all of the
 15 assumptions of the DCF model have been completely accurate?
 16 A. Completely accurate, no. It's a question of
 17 degree of accuracy. Prior to the passage of the Energy Policy
 18 Act, I think the DCF model was effective with more stability
 19 than it is right now.
 20 Q. Which one would you use right now?
 21 A. Excuse me?
 22 Q. I mean what would hold right now, I should say?
 23 A. Which assumptions?
 24 Q. Yes. What assumptions hold right now?
 25 A. Well, I think one assumption that would hold is

Page 41

1 the fact that Wall Street or investment analysts do use it to
 2 some extent. That certainly would continue to be true.
 3 That's one assumption.
 4 Another one would be that -- which one holds
 5 true? I mean, in the social sciences in general, there are
 6 very, very few models that hold perfectly true in all
 7 circumstances in all cases, but I would think that the idea
 8 that value is the present value of discounted cash flows to
 9 the investor, that's a very generic idea that prevails to this
 10 day and it's quasi-universal.
 11 Q. Okay. Dr. Morin, is it appropriate to rely on
 12 one analyst and two historical growth rates to determine a
 13 reasonable projected future growth rate?
 14 A. I believe your question was directed to
 15 historical growth rates?
 16 Q. Let me restate the question. I think we had a
 17 phone line interrupt.
 18 Is it appropriate to rely on one analyst and
 19 two historical growth rates to determine a reasonable
 20 projected future growth rate?
 21 A. No. I'm having a little bit of trouble
 22 understanding the question. I think before you engage in
 23 projections and forecasting, obviously you take history into
 24 account, but you also take into account current circumstances.
 25 I mean, historical growth rates are historical

Page 42

1 growth rates and if you think -- I don't know where you're
 2 coming from here, but if you're asking me if Value Line
 3 historical growth rates are correct, I would say yes. But if
 4 the question is should we project them in the future blindly
 5 mechanically, no.
 6 Q. Okay.
 7 A. Am I answering the question? I'm not sure I've
 8 answered your question here.
 9 Q. Okay. Is it appropriate to use the spot
 10 dividend yield or the expected dividend yield in the
 11 application of the DCF model?
 12 A. Clearly it's -- the expected dividend yield of
 13 finance is a forward-looking process. And when you invest
 14 money in securities, you're always looking forward so the
 15 answer is expected dividend yield.
 16 Q. How do you define the expected dividend?
 17 A. Well, if you're a prisoner of the annual DCF
 18 model, you're looking at the dividend that's coming at the end
 19 of the year. So you look at the current dividend and you
 20 inflate it by one year of growth and that will give you the
 21 dividend at the end of the year. That's what's required by
 22 the -- like you and I have called the plain vanilla DCF model
 23 or the annual DCF model, I should say.
 24 Q. So if I understand you correctly, it's what
 25 the -- you're stating that it is what the investor expects

Page 43

1 over the next 12 months or at the end of a year?
 2 A. If you're using the annual DCF model, it's an
 3 annual model that assumes that cash flows occur once a year at
 4 the end of the year and you have to use the dividend at the
 5 end of the year, which is the current dividend inflated by one
 6 year of growth.
 7 Q. Okay. I want to direct you to your textbook.
 8 And you have a copy of that. Am I correct?
 9 A. Yes, sir.
 10 Q. Page 139.
 11 A. Okay. Have it.
 12 Q. I'm going to read from the first paragraph
 13 starting seven lines down with the first sentence and it says,
 14 In implementing the standard DCF model, it is the dividend
 15 that an investor who purchases the stock today expects a
 16 company to pay during the next 12 months that should be used
 17 and not the dividend that was paid last year --
 18 A. Yes.
 19 Q. -- is that correct?
 20 A. Yes.
 21 Q. Is Value Line's indicated dividend yield that
 22 is listed on its tear sheets based on the estimated cash
 23 dividends that the company will declare over the next
 24 12 months?
 25 A. Yes.

Page 44

1 Q. Earlier in response to one of my questions, you
 2 stated that you have met Mr. David Parcell?
 3 A. Yes, I have. I've also rebutted him.
 4 Q. Okay. So you have testified in hearings on the
 5 subject of capital structure and rate of return when David
 6 Parcell was the opposing witness?
 7 A. Yes. Several times.
 8 Q. In the cases where you opposed David Parcell,
 9 who did you represent?
 10 A. Typically the regulated utility.
 11 Q. And who did David Parcell represent?
 12 A. Sometimes it's the industrial users group and
 13 sometimes it's Commission Staff. But it's typically
 14 industrial users group.
 15 Q. On the occasions that you opposed David
 16 Parcell, was David Parcell's recommended rate of return lower
 17 than your recommended rate of return?
 18 A. Yes. Slightly.
 19 Q. How much?
 20 A. Oh, typically we differed by an order of
 21 magnitude of 100 basis points.
 22 Q. Any times where you had a bigger difference
 23 than that?
 24 A. I'd have to check that. That's a tough
 25 question to answer from memory here.

<p style="text-align: right;">Page 45</p> <p>1 Q. Do you know of a Mr. Stephen G. Hill?</p> <p>2 A. Yes, I know Mr. Hill.</p> <p>3 Q. How do you know him?</p> <p>4 A. I've rebutted him several times in past cases</p> <p>5 in various states.</p> <p>6 Q. Do you consider him to be an expert in the area</p> <p>7 of capital structure and rate of return?</p> <p>8 A. I'm hesitating on that one.</p> <p>9 Yes.</p> <p>10 Q. So you have --</p> <p>11 A. Of course not in the same stature as myself,</p> <p>12 but -- seriously, yes, I think he's an expert and he's done a</p> <p>13 lot of work. I'm fairly familiar with his work. He's</p> <p>14 published quite a few things on risk premiums and other</p> <p>15 subjects, yes.</p> <p>16 Q. So you know him by way of your opposing him in</p> <p>17 the rate of return cases?</p> <p>18 A. That's correct. And we get to meet socially,</p> <p>19 of course, in these rate cases.</p> <p>20 Q. How many cases have you testified in where</p> <p>21 Mr. Hill was an opposing witness?</p> <p>22 A. Approximately five.</p> <p>23 Q. On those occasions, who did you represent?</p> <p>24 A. Typically the regulated utility.</p> <p>25 Q. And who did Mr. Hill represent?</p>	<p style="text-align: right;">Page 47</p> <p>1 A. Yes.</p> <p>2 Q. Have you ever testified in cases in which</p> <p>3 Mr. Fairchild was an opposing witness?</p> <p>4 A. No.</p> <p>5 Q. Do you know of a Mr. Jeremy Siegel?</p> <p>6 A. Oh, yes, of course.</p> <p>7 Q. How do you know of him?</p> <p>8 A. Well, being a graduate of the Wharton School</p> <p>9 and he being a professor at the Wharton School, I'm very much</p> <p>10 aware of his stature. And, of course, I'm familiar with his</p> <p>11 book, Stocks for the Long Run, sort of a best-selling book in</p> <p>12 investments. So I'm generally familiar and I've seen him on</p> <p>13 the TV and media before. But I've read his publications.</p> <p>14 Q. Does Mr. Siegel teach currently?</p> <p>15 A. Yes. I believe he teaches at University of</p> <p>16 Pennsylvania.</p> <p>17 Q. Do you know of a Mr. Cliff Asness?</p> <p>18 A. No.</p> <p>19 Q. A Warren Buffet?</p> <p>20 A. Yes. Of course.</p> <p>21 Q. Okay.</p> <p>22 A. Yes.</p> <p>23 Q. Would you consider Jeremy Siegel and Warren</p> <p>24 Buffet to be individuals influential in the world of investing</p> <p>25 and finance?</p>
<p style="text-align: right;">Page 46</p> <p>1 A. The last time I saw Mr. Hill was in Louisiana.</p> <p>2 He represented the Staff, the Louisiana Staff.</p> <p>3 Q. Well, in that case, the Louisiana case, you</p> <p>4 represented the regulated utility and Mr. Hill represented the</p> <p>5 utility Staff; is that correct?</p> <p>6 A. Yes. To the best of my recollection here, yes.</p> <p>7 Q. And was your rate of return greater than</p> <p>8 Mr. Hill's?</p> <p>9 A. Yes. Well, I'd like to put it another way.</p> <p>10 Mr. Hill's return was lower than mine.</p> <p>11 Q. You indicated that there were other cases where</p> <p>12 you opposed Mr. Hill. Do you recall those?</p> <p>13 A. I just recall having done that in the past I</p> <p>14 believe in Arizona. And I would have to check my records and</p> <p>15 my past rebuttals to give you a better answer, but the</p> <p>16 freshest one in my mind is the recent one in Entergy in</p> <p>17 Louisiana, which is about a year ago.</p> <p>18 Q. Do you know of a Mr. Bruce H. Fairchild?</p> <p>19 A. Yes.</p> <p>20 Q. How do you know him?</p> <p>21 A. I believe he was my predecessor at Entergy.</p> <p>22 He's, I believe, a consultant in rate of return who has</p> <p>23 appeared on behalf of companies in the past.</p> <p>24 Q. Do you consider him to be an expert in the area</p> <p>25 of capital structure and rate of return?</p>	<p style="text-align: right;">Page 48</p> <p>1 A. I certainly would consider Mr. Siegel very</p> <p>2 influential more from an academic perspective, but I would</p> <p>3 consider Mr. Buffet as well influential in strategy and</p> <p>4 marketing and finding under-values or assets.</p> <p>5 Q. Do you -- let me restate.</p> <p>6 Do the returns that are required by investors</p> <p>7 in the broader market have an influence on the required</p> <p>8 returns for utilities?</p> <p>9 A. Yes. Of course. Investors are always making</p> <p>10 comparisons between prospective returns from utility stocks</p> <p>11 versus returns from industrial stocks comparable in risk. And</p> <p>12 if they're not comparable in risk, they will make the required</p> <p>13 risk adjustment using something like beta, for example.</p> <p>14 Q. When you recommend a cost of common equity for</p> <p>15 a natural gas distribution company, do you adjust a proxy</p> <p>16 group's estimated cost of common equity downward if some of</p> <p>17 the companies in the proxy group have risk year non-regulated</p> <p>18 options?</p> <p>19 A. Yes, I've done that in recent testimonies. And</p> <p>20 it works both ways. If the company is less risky, you make a</p> <p>21 downward adjustment. If the company is riskier, you make an</p> <p>22 upward adjustment.</p> <p>23 Q. When you select a proxy group, what criteria do</p> <p>24 you use to the comparable group of companies?</p> <p>25 A. In the past, I used to use a very specific</p>

<p style="text-align: right;">Page 49</p> <p>1 criteria like bond rating, a percentage of revenues from 2 utility operations, uninterrupted dividend history. I had a 3 fairly detailed filter, so to speak. 4 But in the last several years, the utility data 5 has become so noisy and unstable because of mergers and 6 acquisitions and write-offs and write-downs and restructurings 7 and the changing faces of so many companies, what I have done 8 in the last several years is take a wide broad group 9 representative of the industry as a whole and based on the 10 risk differential between the utility and the broad average, I 11 made the adjustment as required. 12 Sorry for the long answer, but the quick answer 13 is I used industry proxies and then made adjustments based on 14 the risk difference between the subject company and those 15 industry proxies. 16 Q. If a subject company is rated investment grade, 17 do you select companies that are also investment grade? 18 A. I tend to exclude companies that are not 19 investment grade in my work. 20 Q. Why is that? 21 A. Because they're much riskier. 22 Q. Did you provide testimony in the Nevada Power 23 Company case, Docket Nos. O3-10001 and O3-10002? 24 A. Yes. 25 Q. Did you use a group of companies to perform an</p>	<p style="text-align: right;">Page 51</p> <p>1 lesser quality electric utilities and gas utilities has -- has 2 decreased substantially. It depends on the time frame. But 3 that's what I would do. 4 Q. Do you believe that setting the allowed rate of 5 return equal to the cost of capital balances the interests of 6 ratepayers and investors? 7 A. Yes. 8 Q. What is your opinion on the future direction of 9 long-term interest rates? 10 A. Wow. I don't think my opinion matters very, 11 very much, but I can certainly communicate what the consensus 12 forecast is. I've looked recently at the blue chip forecast 13 that we have here at the University's forecasting department. 14 I've also looked at the consensus forecast publication from 15 Consensus Economics in London, England for the US economy. 16 And all of those publications suggest that an increase of at 17 least 50 basis points for 2005 in long-term rates. 18 I happen to agree with those foractions because 19 of the struggling economy and perhaps the ugly specter of 20 inflation may be rearing its head very, very soon. And, also, 21 of course, Alan Greenspan recently made it quite clear that 22 the Fed was more inclined to raise rates rather than reduce 23 them. So for all of these reasons I would be in the camp of 24 rising interest rates. And that rise has already begun. 25 Q. How high do you think long-term interest rates</p>
<p style="text-align: right;">Page 50</p> <p>1 analysis for Nevada Power? 2 A. Yes. 3 Q. Were the companies that you selected in this 4 group considered to be investment grade? 5 A. I have to check that, but I think most of them 6 were. But, of course, Nevada Power and Sierra Pacific are not 7 investment grade so some risk adjustments had to be made at 8 the end. 9 Q. So Nevada Power Company at that time did not 10 have an investment grade rating; is that correct? 11 A. That's right. 12 Q. In your opinion, what amount of risk premium is 13 required on the cost of common equity for a company that is 14 double B rated if the comparable group has an average credit 15 rating of triple B? 16 A. Well, I'm not ducking your question, but it 17 would depend on the prevailing spread. What I would do is go 18 on the website and look at the yield on triple B bonds versus 19 double B bonds, and that tends to fluctuate and change over 20 time, and maybe take an average of the last few months or 21 something like that. So it varies. 22 It depends on the risk aversion -- the degree 23 of risk aversion of investors like junk bonds versus 24 investment rate bonds. Two years ago, that spread would have 25 been absolutely enormous. Now the spread between quality and</p>	<p style="text-align: right;">Page 52</p> <p>1 will rise in the next three years? 2 A. I'll give you a forecast for one year, 3 6 percent for long-term treasuries. I'm not sure I want to go 4 beyond that. 5 Q. Okay. 6 A. Don't hold that against me. I'm not in the 7 business of forecasting interest rates. 8 Q. Do you believe that the current level of 9 long-term interest rates are more in line with the average 10 level of interest rates occurring over the past century? 11 A. Past century or the past 10 years? 12 Q. Past century. 13 A. I cannot answer that question. There have been 14 periods when interest rates are much higher and interest rate 15 periods much lower. There's cycles in interest rates that 16 roughly track the business cycle and inflation. I can be a 17 lot more specific if you have a shorter time frame than 18 100 years. 19 Q. Would you agree that the calculation of 20 historical growth rates is one of the first steps taken in 21 estimating a proxy for future growth rates? 22 A. Yeah. The first thing an analyst would do in 23 projecting the future growth would be to figure out what's 24 gone on in the past and then decide on the relevance of that 25 history, and then couple that with what's going on in the</p>

Page 53

1 industry and the current trends of the industry before you
 2 arrive at a future projection. So the answer is yes.
 3 Q. Okay. So do some investors still rely on
 4 historical growth rates to estimate possible future growth?
 5 A. I think historical -- well, let me put it this
 6 way. Growth forecasts by analysts already contain historical
 7 information plus a lot more. Because, as you say, they rely
 8 on historical growth rates as a starting point.
 9 Q. Dr. Morin, I'm going to ask one more question
 10 before I propose that we take a break. And I think that this
 11 question will only take a couple of minutes, but I'd like to
 12 refer you to Mr. John Dunn's Direct Testimony, Schedule JCD-5.
 13 A. I have it.
 14 Q. You have it? Please look at the five-year
 15 earnings per share growth rates.
 16 A. Yes.
 17 Q. Specifically I'm referring to the higher listed
 18 five-year growth rates of 8 percent for AGL Resources,
 19 9 percent for Atmos Energy, 8 1/2 percent for New Jersey
 20 Resources, 9 1/2 percent for Southwest Gas and the higher
 21 12 1/2 percent for UGI.
 22 A. Yes.
 23 Q. Are those five-year earnings per share growth
 24 projections sustainable growth rates?
 25 A. Some of them are. I'm pretty familiar with AGL

Page 54

1 Resources here in Atlanta and because of the growth of the
 2 southeastern economy in the Atlanta area, that is not too
 3 surprising. And also, natural gas is being increasingly used
 4 as a fuel of choice because it's environmentally cleaned by
 5 electrical utilities, so we're dealing with a fairly robust
 6 demand for gas of the future.
 7 Some of those growth rates probably are not
 8 sustainable forever. I would certainly be a little bit
 9 suspicious of UGI at 12 1/2 percent in the same way that I
 10 would be suspicious of the 3 percent growth rates as well.
 11 Value Line is rather robust in their forecast of earnings
 12 growth for LDCs, for gas LDCs as compared to the consensus
 13 forecast of analysts that you find perhaps in Thompson or
 14 First Call or Yahoo Finance or any of the websites
 15 MR. BERLIN: All right, Dr. Morin. I might
 16 have just a couple more questions, but I would propose that we
 17 take a break. Five minutes, is that --
 18 THE WITNESS: That's fine
 19 MR. BERLIN: -- agreeable to everybody? All
 20 right. We'll take a five-minute break. We'll come back, I
 21 might have one or two questions and then I'll turn you over to
 22 Office of Public Counsel. So five minutes from now we'll
 23 return. And we'll go off the record.
 24 (A recess was taken.)
 25 MR. BERLIN: We're going to go back on the

Page 55

1 record now. This is Bob Berlin, Staff counsel. Dr. Morin, I
 2 appreciate your answering my questions. I have no further
 3 questions at this time and I will turn you over to Office of
 4 Public Counsel, Mr. Doug Micheel.
 5 THE WITNESS: I thank you and hope I've
 6 answered your questions.
 7 MR. BERLIN: Thank you.
 8 DIRECT EXAMINATION BY MR. MICHEEL:
 9 Q. Dr. Morin, my name's Doug Micheel. I represent
 10 the Office of the Public Counsel in this case and I've got
 11 some questions for you here today.
 12 A. It's a pleasure to speak with you.
 13 Q. It's a pleasure to speak with you, such a
 14 preeminent expert.
 15 When you were discussing with Mr. Berlin what
 16 DCF assumptions currently were in effect, could you tell me
 17 which DCF assumptions are not holding in the current market?
 18 A. The one that's rather disturbing is the idea of
 19 stable price earnings ratio, the stable market to book ratio.
 20 The DCF model assumes a very, very unusual world of complete
 21 stability where prices, book value, earnings, dividends,
 22 everything grows at a nice stable constant rate forever;
 23 whereas, when you observe Wall Street and the stock market,
 24 you find gyration in market to book ratios and PE ratios
 25 because the industry is getting more volatile, more diverse

Page 56

1 and riskier.
 2 So I would say that the assumption of stability
 3 is the one that I would question the most, particularly growth
 4 rates. We've already had a discussion with Mr. Berlin about
 5 the gyrations and the lack of reliability of a history because
 6 of all the write-offs and the restructurings and the mergers
 7 and the squeeze in the competitive margins of utilities. So
 8 the quick answer to your question would be stability is
 9 lacking.
 10 Q. And the reasons you just gave, the mergers and
 11 the write-offs and things, those are the reasons for the
 12 instability?
 13 A. Those are reasons for the lack of reliability
 14 of historical data. You find historical growth rates zero or
 15 negative or -- because of write-offs and because of
 16 deteriorations in margins and because of mergers and
 17 acquisitions. History doesn't mean anything if the company's
 18 identity has changed over time.
 19 Q. Based on that instability, do you believe that
 20 the DCF model is unreliable then?
 21 A. I think it has to be treated with caution along
 22 with the other two generic methodologies. All the models have
 23 to be treated with caution. I mean, this is not peculiar to
 24 the DCF model, but I would be a little bit worried about the
 25 stability assumption right now.

Page 57

1 Q. When you say treated with caution, how would an
2 analyst such as yourself deal with the instability of the
3 market in their DCF analysis?
4 A. By putting a lot of weight on the alternative
5 methodologies like risk premiums, CAP-M, by doing a lot of DCF
6 on comparable groups, by being very, very, very careful in
7 your implementation of DCF and excluding negative growth
8 companies and looking at current data and so forth.
9 Q. So you would look at, for example, the capital
10 asset pricing method and the risk premium method along with
11 the DCF method?
12 A. Yes, sir. And I would look at what regulators
13 are doing currently in other jurisdictions, allowed risk
14 premiums over time. And I would be probably supportive of
15 using large groups in the DCF method implementation to
16 alleviate some of those measurement errors and then make some
17 individual risk adjustments based on the risk difference
18 between the company and those large groups. That's one way to
19 sort of palliate measurement error.
20 Q. During this deposition has Mr. Fay given you
21 any notes?
22 A. None whatsoever. He's remained here in front
23 of me speechless and motionless and lifeless.
24 MR. FAY: Hey, I'm not a potted plant.
25 THE WITNESS: No, absolutely not.

Page 58

1 BY MR. MICHEEL:
2 Q. What did you review to prepare for this
3 deposition other than your testimony?
4 A. To be honest with you, just my testimony. And
5 I did put some yellow markers on certain chapters of the book
6 and certain sections that I thought would come up. That's all
7 I did really.
8 Q. Okay. Do you have your May 19th letter to
9 Mr. Fay with you there, sir?
10 A. No.
11 Q. Are you familiar with the contents of that
12 letter?
13 A. Yes. Probably, yes. It's -- I sent it to him
14 electronically, that's why I don't have a hard copy. I didn't
15 think it would come up, so --
16 Q. Well, in that letter you indicate that you have
17 fond memories of your previous involvement and successes both
18 social and professional in the state of Missouri.
19 A. Yeah. I was referring to the Ameren case that
20 I was involved in previously.
21 Q. And let me unpack that. First of all, what are
22 your fond memories of the social successes that you've had in
23 Missouri?
24 A. Well, it was cordial, it was friendly, it was a
25 good working relationship. That's what I had in mind. It's

Page 59

1 just being courteous and cordial in the letter.
2 Q. And who did you work with?
3 A. I don't remember, to be honest with you. It
4 was, what, two years ago this case came up?
5 Q. And what Ameren case was that, sir?
6 A. Union Power and Light.
7 Q. Was it a rate case?
8 A. Yes. AmerenUE.
9 Q. AmerenUE had a rate case in Missouri a couple
10 years ago? You don't remember the case number?
11 A. No.
12 Q. Do you have copies of your testimony that you
13 filed in that case?
14 A. Yes. I have them in my file, sure.
15 Q. Could you get that for me?
16 A. Absolutely.
17 Q. Could you e-mail me that?
18 A. Yes. Give me your e-mail number -- or e-mail
19 address.
20 A. It's Doug, D-o-u-g, dot Micheel,
21 M-i-c-h-e-e-l@ded.mo.gov, g-o-v.
22 MR. FAY: Could you do that again, Doug?
23 MR. MICHEEL: Sure. Doug.Micheel,
24 M-i-c-h-e-e-l@ded.mo.gov, g-o-v.
25 THE WITNESS: Okay. We have it.

Page 60

1 BY MR. MICHEEL:
2 Q. And you indicate that you have fond memories of
3 the professional successes that you've had in Missouri. What
4 professional successes have you had in Missouri?
5 A. The company was -- the client was pleased with
6 my work, and that's it.
7 Q. Other than the testimony you filed on behalf of
8 AmerenUE in Missouri, what other Missouri jurisdictional
9 utilities have you worked on behalf?
10 A. That was the only one in Missouri, I believe.
11 Q. So this is only your second time filing
12 testimony in the Show-Me State?
13 A. Yes. And I'm looking forward to more
14 participations perhaps.
15 Q. Are you filing Surrebuttal Testimony in this
16 case?
17 A. No, I am not. This has not even been
18 discussed, so the answer's no.
19 Q. Who do you believe are the most influential
20 individuals in the field of regulatory finance?
21 A. Wow, that's a really difficult question to
22 answer. I don't know where you're coming from or what
23 perspective you have in mind, but I would say that Moody's and
24 Standard and Poor's periodic publications are very influential
25 in the field as to investor expectations, particularly bond

1 holders. And I would say people that provide information like
2 Value Line. I would say the people that analyze utility
3 stocks, Morgan-Stanley, Soloman Brothers, Goldman Sachs and
4 the very, very large institutional investors that have a very
5 good utility investment group are influential.

6 From the academic perspective, there are not
7 too many that specialize in the utility finance other than
8 myself. I hate to pronounce myself as such a person, but I
9 think I have some modicum of influence in the business with
10 all my books and seminars and writings.

11 **Q. Are there any other influential people in that**
12 **area other than yourself, or are you it?**

13 A. No, I'm not it.

14 **Q. Why don't you give me some names of some other**
15 **folks?**

16 A. Well, I would say the people I mentioned
17 earlier in my deposition are very influential scholars in the
18 field of regulatory field, certainly Professor Stewart Myers,
19 who is a principal of Brattle Group, does testify a lot in
20 utility-related issues as a professor at MIT. He is certainly
21 a luminary both in research and the academic regulatory
22 finance field. That's one name that comes to mind
23 immediately.

24 **Q. Any others?**

25 A. Gene Brigham would be another name. Very

1 prominent scholar in the field of utility finance. He was
2 head of the Public Utility Research Center at University of
3 Florida for several years. Very, very well known in the
4 field, very influential.

5 **Q. Anyone else that you can think of?**

6 A. No, not right now.

7 **Q. What person or persons most influenced your**
8 **opinions regarding regulatory finance?**

9 A. When I was at USC Pennsylvania, the Wharton
10 School, I was a GRA, graduate research assistant for Irwin
11 Friend who at the time had basically a monopoly on rate of
12 return testimony throughout the country particularly for the
13 AT&T company.

14 And I worked for him as his research assistant
15 and I was very, very inspired by his research, did my
16 dissertation for him, participated in a lot of
17 telecommunications rate cases as a very young graduate
18 student. And I would say he was one of my mentors in the
19 field of utility finance.

20 **Q. How do you spell his name?**

21 A. Friend just like friend and foe, Friend; Irwin
22 Friend.

23 **Q. And how many books as Dr. Friend -- I assume**
24 **he's got a Ph.D. How many books has Dr. Friend published?**

25 A. His resume is probably the size of my book. I

1 can probably send you or fax you a copy. It's literally
2 hundreds and hundreds of articles and several, several,
3 several books.

4 **Q. What books do you believe are authoritative in**
5 **the field of regulatory finance?**

6 A. Professor Gordon's book on utility cost of
7 capital would be one.

8 **Q. Any other books?**

9 A. Judging from the reception in the field, I
10 guess my own book, Regulatory Finance, seems to enjoy some
11 popularity or some prominence. There are very few books that
12 deal specifically with utility finance. That's why I'm
13 hesitating a little bit, but probably Professor Gordon's book
14 would be a major work.

15 **Q. How many universities utilize your book as a**
16 **textbook?**

17 A. It's not really designed to be an academic type
18 of text. It's more of a trade reference type publication.
19 It's used by at least five universities that I know that have
20 a regulatory interest, University of Michigan, University of
21 Utah. It's typically used when you have regulatory finance
22 type seminars, schools that have a JD, MBA program will
23 typically use it. But it's used more by Wall Street, by
24 analysts, by regulators, by staffs, by utility analysts. It's
25 really not an academic textbook, it's more of -- sort of a

1 practical trade-oriented book.

2 **Q. Is it possible to get a Ph.D. in regulatory**
3 **finance?**

4 A. It's possible to get a Ph.D. in finance with a
5 sort of major in regulation at those schools that offer such a
6 program.

7 **Q. And which schools offer that program?**

8 A. Michigan, Utah, and here we do it. You would
9 probably do that by taking sort of a minor in utility-related
10 topics, regulatory economics, regulatory accounting,
11 regulatory finance.

12 **Q. Do you consider Dr. Myron Gordon to be an**
13 **expert in the field of regulatory finance?**

14 A. Yes.

15 **Q. Do you consider Dr. Gordon's book The Cost of**
16 **Capital to a Public Utility published by Michigan State**
17 **University in 1974 to be an authoritative book?**

18 A. That's the one I mentioned to you earlier, yes.

19 **Q. Is Dr. Gordon the father of the DCF method?**

20 A. Yes, he is. Grandfather by now, but yes, he
21 is.

22 **Q. Is he one of the individuals who you look to**
23 **who influenced your opinions regarding regulatory finance?**

24 A. He is one, yes.

25 **Q. Do you consider Mr. Parcell's book, The Cost of**

Page 65

1 **Capital, a Practitioner's Guide, the 1997 edition, to be an**
2 **authoritative book?**
3 A. No.
4 **Q. Have you ever seen that book?**
5 A. Yes, I've seen it. And Mr. Parcell and I have
6 discussed it. It's an excellent practitioner's guide. It is
7 not sort of a scholarly innovative type of work. It's a very,
8 very good summary of one man's opinion of practice and
9 methodology. It's very well done.
10 **Q. Is it something that a practitioner, somebody**
11 **who practices in the field of cost of capital for a utility,**
12 **could utilize?**
13 A. Yes. Absolutely.
14 **Q. Do you consider your book to be a scholarly**
15 **book?**
16 A. It's not really an academic type of book. It's
17 more of, again, trade-oriented professional type book designed
18 more for managers and practitioners and analysts and
19 technicians as opposed to students in the MBA class.
20 **Q. So your book and Mr. Parcell's book are similar**
21 **in nature?**
22 A. No. Not really. My book is, what, 400 or 500
23 pages and his book is more of a -- it's a much smaller, much
24 less ambitious type of work.
25 **Q. How many pages is Mr. Parcell's book,**

Page 66

1 **Dr. Morin?**
2 A. I don't know.
3 **Q. Well, I mean, by number of pages is that how**
4 **you determine whether a book is influential or not?**
5 A. No. It's the quality of the context. They're
6 different orientations.
7 **Q. Well, you've told me that both are practitioner**
8 **guides.**
9 A. Yeah. Mine is probably a little bit more
10 rigorous, it goes into a lot more depth with the theory and
11 assumptions and modeling and the functional forms. It's more
12 thorough -- a more thorough version, so to speak.
13 **Q. In what areas is your book more thorough than**
14 **Mr. Parcell's book specifically?**
15 A. Well, I have chapters that are pretty lengthy
16 on incentive regulations, capital structure. I have very
17 comprehensive chapters on PBR, perform-based rate-making, four
18 or five chapters on capital rate structure, theory and
19 practice. They are very, very thorough chapters on different
20 theoretical versions of the DCF model and CAP-M model. It's
21 just a little bit -- it's got more -- a little bit more depth.
22 And that's not a criticism of Parcell, they're just different
23 books. I like Mr. Parcell's book.
24 **Q. Do you consult Mr. Parcell's book?**
25 A. No.

Page 67

1 **Q. You don't use it at all?**
2 A. No. I'm very familiar with it and I've read
3 it. And, in fact, we've made some exchanges in comments to
4 each other about it, but it's not something, you know, that's
5 next to my desk or anything like that.
6 **Q. Do you know if other practitioners in the area**
7 **of cost of capital for a public utility utilize Mr. Parcell's**
8 **book?**
9 A. Yes. I think some do. Probably the Missouri
10 Staff people do.
11 **Q. Are you aware of any other staff people that**
12 **do?**
13 A. I'm sure they do, I just don't know who they
14 are.
15 **Q. Are there a lot of different points of view in**
16 **the field of regulatory finance as to how to determine the**
17 **appropriate cost of capital for a regulated utility?**
18 A. Not very many. The mentoring that I was
19 referring to earlier that influenced a lot of my thinking used
20 to say that judgment is only about 100 basis points thick,
21 which basically means that when there's differences of opinion
22 that exceed that rough boundary, one can smell a rat, so to
23 speak, you know.
24 **Q. And that rat can be going either way, either**
25 **too high or too low, can't it?**

Page 68

1 A. Absolutely. I agree.
2 **Q. How many different points of view are there in**
3 **the field of regulatory finance?**
4 A. I can't answer that. You have to give me an
5 issue and I'll give you the points of view on each issue.
6 **Q. All right. How many different points of view**
7 **are there on the appropriate DCF model to use?**
8 A. Probably four or five, which functional form to
9 use annual versus quarterly. Another difference of opinion,
10 the inclusion or exclusion of floatation cost. Another debate
11 would be the -- what we talked about earlier in the deposition
12 as to the spot dividend versus the expected dividends. Those
13 would be some of the potential areas of disagreement.
14 And, of course, the area of samples and sample
15 size and what company you apply it to and how do you measure
16 growth rates. There's some disagreements about which is the
17 best way to measure growth rates, although the literature is
18 pretty clear on that issue. But those are potential areas of
19 disagreement and I try to resolve those in my own work.
20 **Q. Well, let's unpack that because, you know, the**
21 **DCF model has got a formula. How many different points of**
22 **view are there on the G component of the DCF model?**
23 A. Everybody agrees on the theory and the model
24 itself. Where the disagreements occur is the execution,
25 implementation of the model. How do you measure what's in the

Page 69

1 minds of investors for long-term growth? Do you look at
2 history? Do you look at analyst forecasts? Do you look at
3 sustainable growth rates? How much weight on each one? Is it
4 relevant? Those are the kinds of disagreements you have.
5 It's not on the model itself, it's on the implementation or
6 finding the inputs to the model. That's where the
7 disagreements occur.

8 **Q. Are there any other ways to measure growth than**
9 **the three that you just talked about?**

10 A. No.

11 **Q. So the only ways to measure growth are looking**
12 **at historical, analysts and the sustainable growth?**

13 A. Yes. Those are the -- by far the three
14 principal ways of doing it.

15 **Q. Are there some minor ways?**

16 A. I've done it another way in the past. I've
17 recorded the DCF and the CAP-M and solved for the growth rate
18 that would equate the two, because presumably expected return
19 answers would be the same regardless of which framework you
20 employ. So if you have the dividend yield and you have the
21 CAP-M return, with the CAP to dividend yield, you get the
22 implied growth rate as sort of a check.

23 I'm not sure you would call that a method -- a
24 full-fledged method, but it's certainly a useful check. The
25 ones you mentioned are the principal ones.

Page 70

1 **Q. Are there different ways to determine the**
2 **current dividend yield and is there controversy about that?**

3 A. No. Just divide the dividend by the price.

4 **Q. Is there controversy about how to pick**
5 **comparable companies?**

6 A. Yes.

7 **Q. And what's the nature of that controversy?**

8 A. How do you define comparability? How do you
9 deal with investment grade versus non-investment grade? How
10 do you exclude companies that haven't paid dividends or should
11 you include them? Do you include or exclude negative growth
12 rate companies? What about the size effect? You only limit
13 yourself to large companies or their size effect that should
14 be accounted for. So there are many different ways of
15 tailoring or defining a universe or sample of companies.

16 **Q. With respect to determination of the current**
17 **dividend, is there an issue about whether you use the expected**
18 **dividend yield or the historic dividend yield?**

19 A. You have to use the expected dividend yield. I
20 think there's almost unanimous agreement on that.

21 **Q. Why do you have to use the expected dividend**
22 **yield?**

23 A. Because the model of stock price valuation is
24 forward-looking. The investor is paying a price today in view
25 of the upcoming cash flows down the road. Everything is

Page 71

1 prospective in nature in finance so you have to look at the
2 upcoming dividend. That's what's being valued, not
3 yesterday's dividend.

4 **Q. You indicated earlier in response to Mr. Berlin**
5 **that you'd reviewed Witness Dunn's Direct Testimony in this**
6 **case; is that right?**

7 A. Yes. I read it once.

8 **Q. Did you see anything in that Direct Testimony**
9 **that you disagreed with?**

10 A. Yes.

11 **Q. And what were those items that you disagreed**
12 **with?**

13 A. I would have liked Mr. Dunn to perhaps have
14 relied on more methodologies to check the DCF results, but I
15 think his choice was dictated by the fact that Commission
16 precedent prevented him from doing that, but I would have
17 liked to have seen that.

18 I think Mr. Berlin brought up an interesting
19 point on sustainability of certain growth rates, that's a
20 valid point. Those are the two main preoccupations I would
21 have. I would have liked him to include flo-- no, I think he
22 did include floatation cost, that's correct. So those are the
23 two big things that I noticed without having engaged in a
24 complete, you know, analysis of his testimony.

25 **Q. What were the minor things that you noticed?**

Page 72

1 A. I don't have anything to say on that. I
2 haven't scrutinized it enough.

3 **Q. So you haven't paid close attention to**
4 **Mr. Dunn's Direct Testimony?**

5 A. No. Not really. My mandate was very focused
6 on Staff's testimony.

7 **Q. Do you know if Mr. Dunn only utilized DCF?**

8 A. Yes. I mentioned that already. I would have
9 liked him to have perhaps give equal weight to other
10 methodologies to check the DCF result.

11 **Q. Do you know if Mr. Dunn has a Ph.D.?**

12 A. I don't know. I'd have to check his
13 credentials. To be honest with you, I did not know Mr. Dunn
14 prior to this experience here.

15 **Q. Do you know if Mr. Dunn has written any peer**
16 **review articles?**

17 A. I'm looking at his testimony in the front here
18 and his qualifications are in Appendix A, so I refer you to
19 that.

20 **Q. Well, I'm asking you. I can read too. I want**
21 **to know your views, Dr. Morin.**

22 A. I don't have any views on Mr. Dunn. I wasn't
23 asked to provide views on Mr. Dunn.

24 **Q. So you haven't even looked enough to know if**
25 **Mr. Dunn is a qualified expert in this case?**

Page 73

1 A. He's an economist and a partner in a consulting
 2 firm that specializes in public utility economics, and I did
 3 not pay attention to his -- the details of his qualifications
 4 because my mandate was not to critique or rebut Mr. Dunn.
 5 Q. Well, why don't you read his qualifications
 6 there. I want to ask you some questions about them.
 7 A. Okay. Let me see if I can get a hold of it.
 8 MR. FAY: I'm not sure we have it here. We
 9 have his testimony. Are you talking about his resume?
 10 THE WITNESS: I have his testimony here,
 11 November 2003.
 12 BY MR. MICHEEL:
 13 Q. Could you look at Appendix A?
 14 MR. FAY: We don't have Appendix A. We've got
 15 his schedules and we have his testimony.
 16 MR. MICHEEL: So you don't have Appendix A?
 17 MR. FAY: No, we don't.
 18 THE WITNESS: Let me check one more -- no, we
 19 don't have it. Sorry.
 20 BY MR. MICHEEL:
 21 Q. So you're unaware, Dr. Morin, of Mr. Dunn's
 22 qualifications?
 23 A. Correct.
 24 Q. Did you review Witness Dunn's Rebuttal
 25 Testimony?

Page 74

1 A. No. I haven't read it yet.
 2 Q. Did you review Public Counsel Witness Allen's
 3 Direct Testimony?
 4 A. No.
 5 Q. Now, earlier today in response to a question
 6 from Mr. Berlin, you indicated that you had read Mr. Allen's
 7 testimony.
 8 A. You asked me about his qualifications, didn't
 9 you? I thought you said did I review his qualifications.
 10 Q. Why don't I have the court reporter read the
 11 question back to you?
 12 MR. FAY: That's okay. Just ask it again.
 13 BY MR. MICHEEL:
 14 Q. Okay. Did you review Public Counsel Witness
 15 Allen's Direct Testimony?
 16 A. Direct Testimony I read, yes.
 17 Q. Did you see anything that you disagreed with in
 18 that testimony?
 19 A. Exclusive reliance on DCF, no floatation cost
 20 allowance, again, some weight -- some misplaced weight on
 21 dividend growth that really should not be there. So those are
 22 some of my observations.
 23 Q. Okay. Is it your belief that Mr. Allen relied
 24 exclusively on a DCF analysis to arrive at his conclusion?
 25 A. No, he did not. He -- he relied on other

Page 75

1 methodologies as well.
 2 Q. And what methodologies did he rely on?
 3 A. He used the CAP-M as well as sort of a check.
 4 Q. And is that an accepted methodology?
 5 A. Very much so.
 6 Q. The second item you talked about was the weight
 7 of dividend growth. And what was your problem with that?
 8 A. Well, I don't think you should put any emphasis
 9 on historical dividend growth or forecast dividend growth.
 10 And we discussed this three times already. Utilities,
 11 including gas utilities, are in the process of lowering the
 12 dividend payout. So obviously dividend growth for the next
 13 couple years is going to be very, very, very minute. And once
 14 the dividend tab ratio has been lowered to the target level,
 15 then dividends and earnings will resume the same growth
 16 pattern.
 17 Q. Is it your belief that Witness Allen utilized
 18 dividend growth for his recommendation?
 19 A. I just don't remember since I was not asked to
 20 rebut him.
 21 MR. FAY: Doug, if you want to ask him these
 22 kinds of questions, you're going to have to give him an
 23 opportunity to go back through the testimony. You can't just
 24 sit here and expect Dr. Morin to remember this.
 25 MR. MICHEEL: Is that an objection?

Page 76

1 MR. FAY: It is an objection, yes.
 2 MR. MICHEEL: Okay
 3 MR. FAY: If you want, give him a few moments
 4 to go through it.
 5 BY MR. MICHEEL:
 6 Q. All right. Take a few moments. Let me know
 7 when you're ready.
 8 A. I am ready. He did look at historic-- it's all
 9 spelled out on his page 10. He looked at five-year and
 10 ten-year growth rates, projections and the same quantities.
 11 He also looked at the retention approach, which I don't agree
 12 with.
 13 Q. And what growth rates did he rely on in coming
 14 to his conclusion?
 15 A. Well, if you look on page 13, he sort of picked
 16 a range -- summarized on page 13.
 17 Q. Did you see anything in Mr. Allen's Direct
 18 Testimony that you agreed with?
 19 A. I agree with his use of growth projections.
 20 Q. How about his comparable companies?
 21 A. Comparable companies, I didn't really
 22 scrutinize that too closely. I wouldn't have a problem with
 23 those 15 companies, no. I don't have a problem with that.
 24 Q. Did you review Public Counsel Witness Allen's
 25 Rebuttal Testimony?

<p style="text-align: right;">Page 77</p> <p>1 A. No.</p> <p>2 Q. At page 6 of your Rebuttal Testimony --</p> <p>3 A. Yes.</p> <p>4 Q. -- you say that MGE is riskier than the average</p> <p>5 natural gas utility?</p> <p>6 A. Yes. Absolutely.</p> <p>7 Q. What's the basis for your claim?</p> <p>8 A. They have a weaker capital structure.</p> <p>9 Q. And how did they get that weaker capital</p> <p>10 structure?</p> <p>11 A. Well, I don't know how through the years, but</p> <p>12 the point is they are, as we speak, riskier because of a</p> <p>13 thinner equity ratio or a thicker debt ratio, if you wish.</p> <p>14 Q. What is their capital structure?</p> <p>15 A. Well, if you look at my testimony at the very</p> <p>16 end where I do the adjustments for the capital structure</p> <p>17 effect, that's on page 37. Of course, I use the capital</p> <p>18 structure that Mr. Murray attributed to MGE, which is only</p> <p>19 25 percent of common equity.</p> <p>20 Q. Well, what is Southern Union Gas Company -- or</p> <p>21 Southern Union Company's actual capital structure? Have you</p> <p>22 taken time to determine that?</p> <p>23 A. No, I have not.</p> <p>24 Q. Have you reviewed Value Line that would</p> <p>25 indicate what Value Line believes Southern Union Company's</p>	<p style="text-align: right;">Page 79</p> <p>1 A. I just didn't do -- because Mr. Murray didn't</p> <p>2 do it, so I didn't want to introduce new evidence basically.</p> <p>3 Size issue was not raised by Mr. Murray so I had no business</p> <p>4 raising it.</p> <p>5 Q. Do you know if MGE is a smaller size than</p> <p>6 comparable companies?</p> <p>7 A. Yes, I believe it is. I didn't study it,</p> <p>8 but --</p> <p>9 Q. And what's the basis for your belief?</p> <p>10 A. My general sense is that it's smaller -- a</p> <p>11 smaller utility, but I have to check those figures. But I</p> <p>12 don't discuss that in my Rebuttal so I didn't attach any</p> <p>13 importance to it.</p> <p>14 Q. So you don't know whether or not MGE is smaller</p> <p>15 sized than the comparable companies?</p> <p>16 A. I suspect that it is, but I didn't study that</p> <p>17 in depth because it was not part of Mr. Murray's work.</p> <p>18 Q. Did you study it at all?</p> <p>19 A. No.</p> <p>20 Q. Now, on the table -- your Table 1, sir, on page</p> <p>21 10 and 11 of your testimony --</p> <p>22 A. Yeah.</p> <p>23 Q. -- it's my understanding that you got that</p> <p>24 information from C.A. Turner Utility Reports?</p> <p>25 A. Yes. That's right.</p>
<p style="text-align: right;">Page 78</p> <p>1 capital structure to be?</p> <p>2 A. No.</p> <p>3 Q. Have you asked anybody at the company what they</p> <p>4 believe Southern Union Company's capital structure is?</p> <p>5 A. No, I have not. My mandate, again, was limited</p> <p>6 to critique of Mr. Murray's capital structure assumptions,</p> <p>7 which he assumed to be 25 percent common equity.</p> <p>8 Q. And so the sole basis for your claim in page 6</p> <p>9 of your Rebuttal Testimony that MGE is riskier than the</p> <p>10 average natural gas utility is your belief as to what the</p> <p>11 capital structure is?</p> <p>12 A. That is correct. And also the smaller size,</p> <p>13 although I did not place any weight on that. The capital</p> <p>14 structure is definitely much weaker, at least the one assumed</p> <p>15 by Mr. Murray was.</p> <p>16 Q. Did you do any studies to determine that the</p> <p>17 capital structure was much weaker?</p> <p>18 A. Yeah. I just compared it to the average that I</p> <p>19 see in -- in Value Line or in C.A. Turner Utility Reports.</p> <p>20 And it seemed that the average common equity ratio was</p> <p>21 somewhere around 47 or 50 percent range compared to</p> <p>22 Mr. Murray's assumption of 25.38 percent.</p> <p>23 Q. Now, you indicated in response to my question</p> <p>24 that you didn't rely on the smaller size of MGE. And why is</p> <p>25 that?</p>	<p style="text-align: right;">Page 80</p> <p>1 Q. Is C.A. Turner Utility Reports a source of</p> <p>2 information that regulatory finance experts use?</p> <p>3 A. Some do, along with Value Line.</p> <p>4 Q. Do you believe it is a source that's</p> <p>5 appropriate for use by regulatory finance experts?</p> <p>6 A. Yes. But I prefer Value Line. But Turner</p> <p>7 conveniently provides the allowed rates of return.</p> <p>8 Q. Does Turner provide any other information</p> <p>9 that's useful to a regulatory analyst such as yourself?</p> <p>10 A. Yes, bond ratings, percent of revenues due to</p> <p>11 utility operations, common equity ratios. There's a variety</p> <p>12 of classic financial information, dividend yield.</p> <p>13 Q. Do you view it as an authoritative source in</p> <p>14 the field of regulatory finance?</p> <p>15 A. It is a source of data. Again, I would prefer</p> <p>16 Value Line, but in some cases it's very convenient to extract</p> <p>17 the authorized returns for those companies on Table 1.</p> <p>18 Q. Is it appropriate for a regulatory finance</p> <p>19 individual expert to utilize C.A. Turner?</p> <p>20 A. In some cases, yes.</p> <p>21 Q. Is it appropriate for use in this case?</p> <p>22 (Deposition interrupted.)</p> <p>23 (Off the record.)</p> <p>24 BY MR. MICHEEL:</p> <p>25 Q. Dr. Morin, do you recall the question? I'm</p>

Page 81

1 sorry about that.

2 A. Repeat it again to make sure.

3 Q. Is the C.A. Turner Utility Reports a source

4 appropriate for use in this proceeding?

5 A. Yes.

6 Q. Are you aware of any textbooks that support

7 your claim?

8 A. Which claim? That Turner is a source of data?

9 Q. Yes.

10 A. No. Not really. It's just a source of data.

11 Q. How do analysts arrive at projected earnings

12 growth estimates?

13 A. That's a fairly lengthy process. They begin

14 with a projection of revenues, the top line, based on the GEP

15 growth of the national economies, regional economies, based on

16 the demand growth of the territory and they look at the cost

17 structure and the margin and all the way down to sort of the

18 bottom line, the earnings figure. So it's sort of a top-down

19 approach where you start with revenue projections and then

20 cost projections and then you arrive at the bottom line and

21 then make projections accordingly.

22 Q. Is it reasonable to believe that analysts look

23 at what return on equity a company will return in the future?

24 A. Yeah. They make projections about their

25 expectations as to the ROE in the future.

Page 82

1 Q. Would an analyst look at the sub-components of

2 the return on equity?

3 A. Well, they would look at the drivers of return,

4 which is margin, which is the asset efficiency, the turnover,

5 base of assets, the amount of leverage. Those are the three

6 drives of return on equity and, of course, what commissions

7 are allowing or have allowed.

8 Q. Are there any other sub-components than those

9 that they would look at?

10 A. Those are the principal ones.

11 Q. Are you familiar with the Dupont Analysis?

12 A. Yeah. I was just explaining to you that the

13 ROE is essentially the product of margin, turnover or asset

14 utilization or leverage. And that's what analysts look at

15 when they project ROE.

16 Q. Are you familiar with the Pratt Analysis?

17 A. No.

18 Q. So you don't know what the Pratt Analysis is?

19 A. No, I don't.

20 Q. In arriving at growth estimates, is it

21 reasonable to look at dividend earnings and the level of

22 earnings being retained by a company?

23 A. Yes. One of the drivers of growth is the

24 increments to the asset base. In other words, the retention

25 of earnings. What is -- what earnings are not paid out of

Page 83

1 dividends are plowed back or retained in the asset structure

2 and then that will translate into future growth later on.

3 That's the sustainable growth model approach.

4 Q. And is that an acceptable approach?

5 A. It is widely used and should be used except in

6 the utility context. The problem with using it in the utility

7 rate case, it's very, very circular. You have to assume an

8 ROE to get an ROE so you're caught in a hopeless circular

9 logical trap here.

10 Q. What if you use projected growth?

11 A. What do you mean by that? You mean --

12 Q. For your sustainable growth rate.

13 A. But, again, if you're projecting an expected

14 ROE, the only way that the company can earn it is if the

15 Commission sets rates to produce that ROE. So how can the

16 cost of equity be any different than the ROE? See the

17 circular logic here?

18 Q. Are you aware of any studies that suggest

19 flotation costs should not be recovered in rates?

20 A. No, I'm not.

21 Q. Are you aware of any commissions that deny

22 flotation cost adjustments in rates?

23 A. Yes. Some do. It's kind of split down the

24 middle. You have maybe half the commissions that allow all or

25 some of flotation costs and some do not. The reason for my

Page 84

1 slight hesitation is that it's rare that a commission will

2 openly divulge its recipe, so to speak, on how they arrive at

3 the final ROE determination. They're a little bit reluctant

4 to divulge the exact details, whether they did this or did

5 that, included this, excluded that. But the data that I've

6 seen and I've had experience in 43, 44 states, it's roughly

7 split down the middle.

8 Q. Have you recommended flotation cost recovery

9 in any case where such recovery has been denied?

10 A. Yes.

11 Q. In what cases would those be?

12 A. Oh, the Entergy cases in Louisiana would be an

13 example.

14 Q. And in the Entergy case was it -- why did the

15 Louisiana PSC deny flotation costs?

16 A. One typical argument for exclusion is that,

17 well, we don't anticipate any common stock offering. And

18 that's a pretty empty argument because the idea of flotation

19 costs is to recover the costs associated with tax issues, not

20 the ones that are coming up in the same way that depreciation

21 on plant is to recover past plant investment, not the ones

22 that are coming up is the typical argument that's used.

23 Q. In the Entergy case that you mentioned where

24 your flotation cost adjustment was adjusted, did the

25 Commission in its decision specifically say why it rejected

Page 85

1 your adjustment?

2 A. No. I don't think so. They're not that

3 explicit in the rate orders in Louisiana.

4 Q. Have you seen any rate orders from other states

5 that explicitly state why they rejected your proposed

6 floatation cost adjustment?

7 A. I've seen those, but I don't recall what they

8 are. And you'd have to do a search on LexisNexis with

9 floatation costs and see as to why that is. But, again, the

10 typical justification for exclusion is there are no

11 anticipated common stock issues.

12 Q. Are you aware of any court decisions that have

13 found that the denial of a floatation cost recovery is

14 contrary to the ideas set out in Hope and Bluefield?

15 A. No, I'm not aware of that at all. And that

16 would be surprising because it's a legitimate cost of doing

17 business and equity is not free.

18 Q. I said the denial of floatation costs.

19 A. No, I am not familiar with the legal -- the

20 case that you're referring to.

21 Q. So you have not read the Hope case?

22 A. Oh, I read that a long, long time ago.

23 Q. Have you read the Bluefield case?

24 A. Long time ago.

25 Q. I haven't read your book, but are those

Page 86

1 cases -- do you quote those cases in your book?

2 A. Yes. I quote the portions that deal with rate

3 of return and the notion of a fair return.

4 Q. And are those the seminal cases?

5 A. Yes, sir.

6 Q. What is Southern Union Company's dividend

7 policy?

8 A. None. They don't take dividends.

9 Q. So they don't pay dividends on a quarterly

10 basis?

11 A. They don't pay dividends at all.

12 Q. And how did you find that out?

13 A. Well, you look at the data and I used Southern

14 Union as a member of my comparable groups in other testimonies

15 and I'm aware of the fact that they are -- the dividend yield

16 is zero.

17 Q. And why don't they pay dividends?

18 A. Have to ask them. Perhaps they have a

19 strategic emphasis on growth and they're retaining all

20 earnings to -- to pursue a more aggressive growth strategy.

21 Q. But you don't know why?

22 A. I just explained to you why. Probably because

23 they have a growth strategy. And they have many, many

24 expansion plans and perhaps they have a high construction

25 budget and they need to retain earnings and finance it

Page 87

1 internally as opposed to externally. But it's something that

2 you'd have to ask the company senior management.

3 Q. Would you agree with me, Dr. Morin, that

4 historical growth rates in dividends, earnings and book value

5 are often used as proxies for investor expectations in DCF

6 analysis?

7 A. Yes, I would agree with that. But that has

8 been less and less the case in the last couple of years

9 because you get ridiculous results if you match historical

10 growth rates with current dividend yields. You get

11 preposterous of equity results. In other words, those growth

12 rates are not representative of the future growth because of

13 all the factors we've already discussed in the deposition,

14 restructuring, mergers, acquisition, dividend suspension,

15 write-offs, restructuring and so on.

16 Q. Would you agree investors are influenced to

17 some extent by historical growth rates in formulating their

18 future growth expectations?

19 A. We discussed that a little earlier. Mr. Berlin

20 and I discussed at the point of departure for an analyst

21 forecast is the historical track record. And you go from

22 there and you super-impose current circumstances and what's

23 going on in the industry and remove any contamination from

24 what we call transitory effects. You normalize the earnings,

25 so to speak.

Page 88

1 Q. Historical growth rates and earnings dividends,

2 market price and book value during some past periods are among

3 the most widely used proxies for expected growth, are they

4 not?

5 A. Yes. I suspect you're quoting from my book

6 here. And that was true prior to the passage of The Energy

7 Act, but since then, there's so much noise and so much erratic

8 patterns of interest rates that I'm very suspect in projecting

9 future growth rates.

10 Q. You mentioned The Energy Act. When was that

11 Act passed? What is that?

12 A. '92, I believe.

13 Q. And what did that do?

14 A. Well, it specifically sanctioned competition in

15 the industry and liberalized essentially the format of

16 regulation --

17 Q. Competition --

18 A. -- and allowed for retail wheeling and

19 wholesales and unbundling and so on and so forth. The whole

20 movement was sort of launched there.

21 Q. Competition in what industry, sir?

22 A. Electric particularly.

23 Q. Did it launch competition in the local gas

24 distribution industry?

25 A. Well, only to the extent that gas and

Page 89

1 electricity are now rivals and competitors.
 2 **Q. And have you seen studies that indicate that**
 3 **gas and electric utilities are now rivals and competitors?**
 4 A. Well, there's a lot of market share warfare
 5 going on as to the fuel of choice for industrial customers.
 6 And we've seen on issues with the very high price of gas, for
 7 example, switching to electricity. We have seen Standard and
 8 Poor's now equating gas utilities and electric utilities in
 9 the same group and the same pot, so to speak, as far as bond
 10 rating benchmarks are concerned. So there is this convergence
 11 movement that has taken place with respect to gas and
 12 electric.
 13 **Q. Would you agree with me because of the**
 14 **dominance of institutional investors and their influence on**
 15 **individual investors, analysts' forecasts of long-run growth**
 16 **rates provide a sound basis for estimating required returns?**
 17 A. Yes, I do. It sounds like you're quoting from
 18 one of my statements, yes.
 19 **Q. Would you agree that an average of all the**
 20 **available forecasts from investment houses is likely to**
 21 **produce the best DCF growth rate?**
 22 A. I would agree with that statement that the
 23 consensus forecast of many analysts is about the best proxy
 24 you can think of for long-term growth, I agree.
 25 **Q. And that would be better than one individual**

Page 90

1 analysts' determination of growth?
 2 A. Yeah. I would think it's better to rely on the
 3 consensus forecast rather than one person's forecast. That
 4 stands to reason.
 5 **Q. Would you agree with me that investment**
 6 **analysts use the retention method or the sustainable growth**
 7 **method to predict future growth in earnings and dividends?**
 8 A. I don't know. It's not something that you see
 9 in the equity research documents from the big institutional
 10 investors. They don't specify we use this method or that
 11 method. I did mention earlier it was very circular in the
 12 case of utility finance because you're trying to figure out an
 13 ROE so it's hard to figure out an ROE based on another ROE.
 14 **Q. So you haven't discussed with large**
 15 **institutional investors what methods they utilize to determine**
 16 **expected growth?**
 17 A. I'm very familiar with the CFA, which is the
 18 Chart of Financial Analysts sort of body of teaching to be
 19 certified as an analyst. And in those publications they
 20 delineate the process that they follow to arrive at earnings
 21 forecast, and it's the one I described earlier in answer to
 22 one of your earlier questions, sort of the top-down approach.
 23 **Q. So it's your view -- do you know if the CFA**
 24 **books recommend use of the sustainable growth rate method for**
 25 **returning growth?**

Page 91

1 A. The ans-- excuse me. I interrupted. I'm
 2 sorry.
 3 The answer is yes, they do recommend the
 4 method and the method is great and it's fine and it's all --
 5 it's in all the corporate finance textbooks. But in a case --
 6 in a very specific case of regulated utilities, there's an
 7 element of circularity which really tarnishes the method
 8 because, again, you need to come up with an estimate of ROE to
 9 get ROE. And that's very, very disturbing.
 10 **Q. Are you aware of any studies that say that?**
 11 A. It's something I've been talking about for a
 12 long, long time in my publications.
 13 **Q. Have you conducted any academic studies that**
 14 **indicate that?**
 15 A. There are some studies, one by James
 16 Vanderweide, I think I cited him earlier, and Carlton that
 17 have examined which is the best growth proxy by going back to
 18 the future, looking at the forecasts and what did materialize.
 19 And they found that analysts' forecast outperform the other
 20 methods of specifying growth.
 21 **Q. My question to you is, are there any academic**
 22 **studies that indicate the alleged circularity of use of the**
 23 **sustainable growth method?**
 24 A. I haven't seen that except in my own
 25 publications.

Page 92

1 **Q. And other than your book that you published**
 2 **that I guess you have a sentence or two in there or something,**
 3 **or do you have a complete chapter on that issue, the**
 4 **circularity issue?**
 5 A. There's quite a few pages on it. It starts --
 6 well, there's not a whole chapter on it, but it starts on
 7 page 157 and goes through quite a bit -- to the end of the
 8 chapter actually, so quite a bit of stuff there on that.
 9 **Q. And how big is that chapter?**
 10 A. Well, Chapter 5 is 24 pages.
 11 **Q. And how many pages in Chapter 5 discuss the**
 12 **circularity of the sustainable growth rate method?**
 13 A. I don't know. I'd have to look it up. Does
 14 this really matter?
 15 **Q. Are you aware of any academic studies that**
 16 **support the use of the BR growth rate?**
 17 A. It's on page 161 of my book and I just finally
 18 found the whole discussion there. I haven't seen -- again, I
 19 have to point out that there are not that many, if any,
 20 specialized textbooks on regulatory finance. There's a lot of
 21 book on corporate finance, but not on the regulatory finance,
 22 per se. It's not something that I've seen in academic books,
 23 and it's so-- you know, sort of transparent that if you need
 24 an ROE to specify an ROE, you've got a problem.
 25 **Q. What does Dr. Gordon say about using the BR**

Page 93

1 plus SV in utility finance?

2 A. He's an advocate of the method, but again, in

3 the context of a rate case, there is an element of

4 circularity, which I don't think he points out.

5 Q. Does Dr. Gordon in his book recommend utilizing

6 the BR plus SV to determine growth?

7 A. Yes. That's one of the methods he recommends.

8 Q. Is that the method he prominently recommends?

9 A. Yes, it is.

10 Q. Are there many dimensions and factors that

11 determine a utility's financial integrity?

12 A. Wow. That's a pretty good question. My first

13 reaction is to say that being investment grade would be part

14 of financial integrity or access to markets under all

15 circumstances. I would say having a market to book ratio that

16 is comparable to other utilities and industrials would be

17 another element of financial integrity. Those are the two

18 that come to mind that are pretty important in capital

19 markets. Does that answer the question or do you have

20 something else in mind?

21 Q. If that's the best you can do, that answers the

22 question.

23 A. I think that's pretty good.

24 Q. Is the notion of financial integrity fluid?

25 A. No. Capital attraction and access to capital

Page 94

1 markets under all conditions of reasonable cost is a fairly

2 eternal concept in the annals of regulation, I would think.

3 Q. So it's your testimony that the notion of

4 financial integrity is not fluid?

5 A. I believe it's a notion that's been around a

6 long, long time. It's structural, it's part of the corpus of

7 regulatory wisdom, so to speak. It's part of the Hope and

8 Bluefield criteria. They talk about capital attraction and

9 financial integrity.

10 Q. What are the Hope and Bluefield criteria?

11 A. Comparability of risk, comparable returns,

12 capital attraction standard. Those are the two main ones.

13 Q. Are there any other?

14 A. Those are the two main ones. It depends how

15 you interpret them, but they're not that specific on the

16 actual ratios that we should use. I interpret it myself as

17 having investment grade bond rating in a competitive market to

18 book ratio.

19 Q. And that's how you interpret meeting those two

20 requirements?

21 A. That's a practical -- very practical

22 implementation or manifestation of financial integrity. If

23 you're a junk bond, you're not -- you don't have financial

24 integrity. If your market to book ratio is completely out of

25 kilter with the industry and the market, you don't have

Page 95

1 financial integrity.

2 Q. Does the notion of financial integrity

3 encompass several different considerations?

4 A. Yes, sir.

5 Q. And what would those considerations be?

6 A. Access to markets under all conditions at

7 reasonable cost, offering a competitive rate of return to

8 investors that is commensurate with returns offered elsewhere.

9 Q. Anything else?

10 A. Those are -- those are pretty -- pretty broad

11 and pretty important and encompass just about everything else.

12 Q. I'm just trying to learn some stuff. Does each

13 rate case possess different circumstances?

14 A. Yes. Absolutely.

15 Q. And are you familiar with the circumstances --

16 all of the circumstances present in this rate proceeding?

17 A. No, sir.

18 Q. And, in fact, the only thing that you've

19 reviewed in this rate proceeding is Mr. Murray's testimony?

20 A. That's all I was asked to do.

21 Q. And that's all you're going to do?

22 A. That's all I'm going to do.

23 Q. Do you think that Southern Union Company is an

24 appropriate comparable company for a natural gas distribution

25 company?

Page 96

1 A. I -- in my own work for gas rate cases, I tend

2 to exclude it because it doesn't pay dividends so you can't do

3 a DCF analysis on that company.

4 Q. And if you were going to do a DCF analysis on

5 that company, how would you do it?

6 A. You couldn't because they don't pay dividends.

7 Q. Should more than one cost of equity capital

8 estimating technique be consulted?

9 A. Absolutely. I mentioned earlier that a smart

10 and efficient pilot would fly a plane on several instruments,

11 not fly on one instrument in the same way that rate of return

12 experts should rely on a variety of gauges or meters or

13 signals or indicators to get as accurate an estimate as

14 possible on investor-expected return. So the answer is yes, a

15 variety of techniques should be used definitely.

16 Q. Must other cost of capital estimation

17 techniques be employed as an additional check on the

18 reliability and the reasonableness of any DCF estimate?

19 A. No. I don't think that you should employ the

20 other technologies as checks. They should be elevated to

21 full-fledged techniques on the same footing as DCF.

22 Q. So it should be always 50/50?

23 A. No. It should be probably be a third, a third,

24 a third.

25 Q. A third, a third, a third?

Page 97

1 A. Risk premium, DCF, CAP-M.
2 **Q. Are you aware of any Public Service Commissions**
3 **that use a third, a third, a third?**
4 A. Again, they don't -- they don't rely or state
5 explicitly how they arrive at their decisions. They do not
6 discuss weight typically in rate orders. Some commissions are
7 DCF oriented. Others do not divulge their methodology or
8 recipe, so to speak, to arrive at their final orders.
9 In a survey that was done at NARUC, N-A-R-U-C,
10 on rate of return, it's pretty clear from that survey that
11 commissions rely on all the information that is presented to
12 them that is relevant. Why would you not rely on evidence if
13 it's relevant?
14 **Q. And when you say "NARUC," does that stand for**
15 **the National Association of Regulatory Utility Commissioners?**
16 A. Yes, sir.
17 **Q. And what survey is it that you're talking**
18 **about?**
19 A. It's the annual yearbook. I have a copy of
20 that page, that table, that NARUC survey where they
21 essentially ask the commissions, What technique do you use,
22 and they put X's in the columns of the methods they use.
23 **Q. And does that yearbook tabulate what methods**
24 **they use?**
25 A. No. I just told you that the presence of all

Page 98

1 the X's in the various columns indicate that commissions rely
2 on variety of sources of information.
3 **Q. Have you seen any surveys that indicate which**
4 **methods public utility commissions rely on more than others?**
5 A. I haven't seen that, but I think historically
6 they've relied on DCF more than the other methods because it's
7 been around for so long. The newer methodology, the asset
8 pricing methodologies, are a little bit newer, more
9 contemporary and are gaining increasing popularity and
10 attention.
11 **Q. Is the capital asset pricing method an**
12 **appropriate check on the reliability and reasonableness of the**
13 **DCF estimate?**
14 A. I don't think it's an appropriate check. I
15 think it should be a full-fledged method on the same footing
16 as DCF and risk premium.
17 **Q. And so you don't believe that the risk premium**
18 **method is an appropriate check on the reliability and**
19 **reasonableness of a DCF method?**
20 A. Same answer.
21 **Q. Is the cornerstone of public utility rate of**
22 **return regulation the principle enunciated in the Hope case**
23 **that, quote, The return to the equity owner should be**
24 **commensurate with returns on investments in other enter-- in**
25 **other enterprises having corresponding risks, closed quote?**

Page 99

1 A. Yes. That is one of the seminal principal on
2 which rate of return testimony should rely, along with capital
3 attraction.
4 **Q. So does the CAP-M method present a conceptual**
5 **framework that meets the legal criteria for establishment of a**
6 **fair return and that operationalizes the Hope decision?**
7 A. Yeah. It's almost -- when you read the Hope
8 quote that you just cited, it's almost a statement of the
9 CAP-M. Return should be commensurate with the risk involved
10 and the CAP-M articulates that and formulates that into a
11 measure of risk that we call beta. So I agree with your
12 statement. It's almost an extension of the Hope doctrine.
13 **Q. Does the Hope decision require the**
14 **consideration of relative risk?**
15 A. Yes.
16 **Q. Does the beta measure of the CAP-M measure the**
17 **relative risk required by the Hope decision?**
18 A. Yes. It's one measure.
19 **Q. And how does it do that?**
20 A. Well, for a diversified investor -- and most
21 investors are diversified, just think of institutional
22 investors -- beta is a relevant measure of risk. It's the
23 only measure of risk that's relevant in a perfect world. So,
24 yes, the beta would be a risk differentiator that would be
25 quite consistent with the Hope doctrine.

Page 100

1 **Q. And natural gas utilities, are they risk-- more**
2 **risky or less risky than the general market?**
3 A. Well, they have a beta that's roughly around --
4 the latest figures I've seen was .73, so they're about 75
5 percent as risky as the average stock in the market.
6 **Q. That means that they're less risky, does it**
7 **not?**
8 A. Means they're less risky than the market.
9 They're 75 percent as risky as the market.
10 **Q. In the Bluefield decision did the US Supreme**
11 **Court require that the allowed return be sufficient to assure**
12 **a utility's financial soundness?**
13 A. Yes.
14 **Q. Does that imply to you that market returns must**
15 **be considered?**
16 A. Yes.
17 **Q. Does the CAP-M method consider market returns?**
18 A. Yes, it is a market-based return.
19 **Q. Does the DCF method properly consider market**
20 **returns?**
21 A. Yes, it does.
22 **Q. Does sole reliance on the DCF model to come to**
23 **a conclusion with respect to your recommendation meet the Hope**
24 **principle that the return to the equity owner should be**
25 **commensurate with returns on investment in other enterprises**

<p style="text-align: right;">Page 101</p> <p>1 having corresponding risks?</p> <p>2 A. I don't think it does by itself. That's just</p> <p>3 one way to measure such returns and it presumes you've</p> <p>4 implemented it properly. But if implemented properly, yes.</p> <p>5 Q. So if a cost of capital expert only proffers a</p> <p>6 DCF analysis, in your mind, they haven't met the requirements</p> <p>7 of Hope?</p> <p>8 A. I think they subject themselves to very serious</p> <p>9 measurement error and potential lack of reliability of the</p> <p>10 recommendation. In other words, the DCF model on its own is</p> <p>11 fragile. Just like the CAP-M on its own would be fragile or</p> <p>12 the risk premium method on its own would be fragile. Again,</p> <p>13 you don't want to fly on one instrument. You want to fly on a</p> <p>14 variety of gauges and meters and signals and indicators and</p> <p>15 get an error-free estimate of the cost of capital.</p> <p>16 Q. Are there any witness in this proceeding that</p> <p>17 are flying on one instrument?</p> <p>18 A. Yes. Staff witness certainly is. I believe</p> <p>19 Mr. Allen at least used the CAP-M as a check and did rely on</p> <p>20 it in his recommendation. And, of course, Mister -- the</p> <p>21 company witness, Mr. Dunn -- Mr. Dunn, D-u-n-n, I guess was</p> <p>22 sort of forced or backed into a corner of following on</p> <p>23 Commission precedent to rely on DCF, but --</p> <p>24 Q. Who backed him into that corner?</p> <p>25 A. I don't know. You'll have to ask him.</p>	<p style="text-align: right;">Page 103</p> <p>1 25 years, I would have looked at all the meters and all the</p> <p>2 signals, all the indicators and come up with a global judgment</p> <p>3 as to what the appropriate rate of return is.</p> <p>4 I'm not a DCF man, I'm not a CAP-M man, I'm not</p> <p>5 a risk premium man. I'm trying to gauge investment returns</p> <p>6 with all the available techniques assuming. And I've always</p> <p>7 done it that way and will continue to do it that way.</p> <p>8 Q. When you filed your testimony in AmerenUE, did</p> <p>9 AmerenUE indicate to you that the Missouri Commission had</p> <p>10 almost exclusive reliance on the discounted cash flow method?</p> <p>11 A. I don't remember that at all. That was about</p> <p>12 two years ago. I just don't remember that.</p> <p>13 Q. Well, in your testimony that you filed with</p> <p>14 AmerenUE, did you file a CAP-M analysis?</p> <p>15 A. My testimony in AmerenUE was Rebuttal of Staff</p> <p>16 witness.</p> <p>17 Q. And what Staff witness were you rebutting?</p> <p>18 A. I believe it was Mr. Ron Bible.</p> <p>19 Q. And do you know whether or not any of the</p> <p>20 witnesses in that proceeding relied solely on the DCF?</p> <p>21 A. No, I don't -- I just don't know. I wasn't</p> <p>22 involved in the direct proceeding.</p> <p>23 Q. Does the sole reliance on the DCF method meet</p> <p>24 the Bluefield requirement that allowed returns be sufficient</p> <p>25 to assure a utility's financial soundness?</p>
<p style="text-align: right;">Page 102</p> <p>1 Q. Well, do you know of anything that was</p> <p>2 preventing Witness Dunn from conducting a capital asset</p> <p>3 pricing method?</p> <p>4 A. No. I'm -- perhaps he should have.</p> <p>5 Q. Do you know of anything that prevented Witness</p> <p>6 Dunn from utilizing the risk analysis method?</p> <p>7 A. Other than the Commission precedent, I am not</p> <p>8 aware of any such barrier.</p> <p>9 Q. And what Commission precedent are you talking</p> <p>10 about?</p> <p>11 A. Well, the Commission places reliance on DCF</p> <p>12 method is my understanding.</p> <p>13 Q. And how did you get that understanding?</p> <p>14 A. In discussions with the company people, with</p> <p>15 Mr. Fay particularly is the only one I really talked to.</p> <p>16 Q. And what did Mr. Fay tell you?</p> <p>17 A. He told me that the Commission in the past has</p> <p>18 placed almost exclusive reliance on DCF.</p> <p>19 Q. And how did Mr. Fay determine that?</p> <p>20 A. I don't know. You'll have to ask him that.</p> <p>21 Q. So you don't know and you didn't ask?</p> <p>22 A. No. I don't care. You know, my -- I stand on</p> <p>23 my own views. And my mandate was to criticize Staff's</p> <p>24 testimony, which is what I did. If I'd been asked to do</p> <p>25 Direct Testimony, I would have done what I've always done for</p>	<p style="text-align: right;">Page 104</p> <p>1 A. No.</p> <p>2 Q. And why not?</p> <p>3 A. Because it's highly subject to measurement</p> <p>4 error. You've got to measure those returns accurately. And</p> <p>5 strict reliance on DCF, you run the danger that you will not</p> <p>6 do that.</p> <p>7 Q. And explain to me this concept of measurement</p> <p>8 error, if you will, sir.</p> <p>9 A. Measurement error is if you want to know how</p> <p>10 many people have blonde hair in the United States and you take</p> <p>11 a sample of one or a sample of ten, the statistical</p> <p>12 reliability of your sampling technique will be highly suspect</p> <p>13 and highly subject to measurement error and forecasting error.</p> <p>14 If you take a sample of 10,000, you minimize sampling error</p> <p>15 and measurement error. And if you use three or four different</p> <p>16 ways of trying to measure how many people have blonde hair,</p> <p>17 you minimize measurement error even more.</p> <p>18 Q. And if you utilize two ways instead of one,</p> <p>19 you've doubled the amount of items you're looking at, so you'd</p> <p>20 minimize measurement error that way?</p> <p>21 A. That's one way of saying it. The other way of</p> <p>22 saying it is you can use the results of one methodology as a</p> <p>23 cross-check on the validity of the other result. If you've</p> <p>24 got, you know, 11 percent, 11 percent and 8 percent, something</p> <p>25 is wrong somewhere in one of those estimates that seems to be</p>

Page 105

1 an outlier.

2 Q. Well, let --

3 A. The idea of using several methodologies is to

4 use each one as a cross-check on the validity of the other.

5 Q. Let me say that you have a DCF analysis and you

6 come up with a DCF range of 9.01 percent to 9.34 percent. Can

7 you make that assumption?

8 A. Yes.

9 Q. Let's say that you do a capital asset pricing

10 method analysis and you come up with a result of 9.17 percent.

11 Can you make that assumption?

12 A. Yes.

13 Q. What does that tell you?

14 A. That tells you that something's wrong, because

15 I can't visualize a rate of return of 9 percent when the

16 long-term treasury bonds are expected to be 6 percent.

17 Q. Well, that wasn't my question about whether or

18 not -- my question was, what does that tell you about the

19 reliability of the DCF method and the CAP-M method?

20 A. It tells you that those two are consistent with

21 one another, but it doesn't tell you that that's the -- that

22 that's the cost of equity. It's not implemented properly.

23 Q. What does it mean if they're consistent with

24 one another from a statistical standpoint?

25 A. Roughly within the same range, maybe within

Page 106

1 50 basis points of one another.

2 Q. And if you had that example that I just gave

3 you of DCF range of 9.01 to 9.34 percent and a CAP-M result of

4 9.17 percent, wouldn't that indicate that your CAP-M and your

5 DCF were compatible?

6 A. It would probably indicate to me that they're

7 both wrong.

8 Q. Okay. Let me ask you this. What if it were --

9 your DCF was 10 percent to 11 percent and your CAP-M was

10 10.5 percent. What would that indicate to you?

11 A. They're roughly consistent, that they're within

12 the ballpark. Seems like a reasonable estimate given the

13 level of interest rate, given authorized return and given the

14 industry profile, that seems to be a reasonable number. Given

15 the cost of debt, interest rate forecast, it would seem to be

16 reasonable.

17 Q. When is it appropriate in a regulatory setting

18 to use a hypothetical capital structure?

19 A. When the company's capital structure is

20 completely out of whack, so to speak, with the industry

21 capital structure or some very peculiar circumstances that

22 would cause the equity ratio to be so different than the norm

23 or the industry -- or the comparable group's capital

24 structure, it would be appropriate to impute a -- for

25 rate-making purposes, it would be proper to impute a cost

Page 107

1 efficient capital structure.

2 Q. And when would an equity ratio be, to use your

3 term of art, out of whack?

4 A. That's a judgment call you have to make.

5 There's no recipes or no magic formula, there are no

6 phaenicia. I would say -- again, it's very hard to answer but

7 when you're 1 percent out, it would suggest to me that perhaps

8 you should be thinking about imputing a capital structure.

9 Q. Let's say that a utility has an actual cap on

10 actual equity ratio of around 26, 27 percent.

11 A. I wouldn't use that for rate-making purposes.

12 I would impute a capital structure.

13 Q. So if a company had an actual equity ratio of

14 28 percent, you would not use that?

15 A. Probably not, no.

16 Q. You would utilize a hypothetical capital

17 structure in that situation?

18 A. Yeah. Either that or if I'm going to use

19 28 percent, I'm going to adjust the rate of return

20 accordingly. You've got to be consistent here.

21 Q. So if there's a local distribution company out

22 there that has 28 percent equity, you think it would be

23 appropriate to utilize a hypothetical capital structure?

24 A. Yes, I would. That's very unusual. To me

25 that's sort of a last resort, not to use an actual capital

Page 108

1 structure, but I think under those circumstances you suggest

2 it would be appropriate to impute a more reasonable capital

3 structure for rate-making purposes.

4 MR. MICHEEL: Thank you very much.

5 THE WITNESS: Either that or adjust the rate of

6 return upwards to reflect the very low degree of equity ratio.

7 You have to be sort of internally consistent here.

8 MR. MICHEEL: Thank you very much for your

9 time, Dr. Morin. I really appreciate it.

10 THE WITNESS: I appreciate your questions. I

11 enjoyed talking to you.

12 MR. MICHEEL: I look forward to seeing you up

13 here in June.

14 THE WITNESS: Me too.

15 THE COURT REPORTER: Signature?

16 MR. FAY: Can you just send a copy to me and

17 I'll make sure Dr. Morin gets it.

18 (PRESENTMENT WAIVED; SIGNATURE REQUESTED.)

19

20

21

22

23

24

25

Page 109

1 CERTIFICATE OF REPORTER

2

3 I, Tracy L. Thorpe, CSR, CCR and Notary Public within

4 and for the State of Missouri, do hereby certify that the

5 witness whose testimony appears in the foregoing deposition

6 was duly sworn by me; that the testimony of said witness was

7 taken by me to the best of my ability and thereafter reduced

8 to typewriting under my direction; that I am neither counsel

9 for, related to, nor employed by any of the parties to the

10 action in which this deposition was taken, and further, that I

11 am not a relative or employee of any attorney or counsel

12 employed by the parties thereto, nor financially or otherwise

13 interested in the outcome of the action.

14

15

16 _____

17 Tracy L. Thorpe, CSR, CCR

18 Notary Public State of Missouri

19 (Commissioned in Boone County)

20 My commission expires December 16, 2005.

21

22

23

24

25

Page 111

1 STATE OF _____)

2 COUNTY OF _____)

3 I, ROGER MORIN, do hereby certify:

4 That I have read the foregoing deposition;

5 That I have made such changes in form and/or

6 substance within the deposition as might be necessary to

7 render the same true and correct;

8 That having made such changes thereon, I hereby

9 subscribe my name to the deposition.

10 I declare under penalty of perjury that the foregoing

11 is true and correct.

12

13 Executed this _____ of _____, 2003, at _____

14 _____

15 _____

16 Notary Public

17 My commission expires: _____

18 _____

19 ROGER MORIN

20 Signature page to Mr. Fay

21 TLT/7RM, 06/11/04

22 In Re: MGE

23

24

25

Page 110

1 Midwest Litigation Services

2 11 North Fifth Street

3 Columbia, Missouri

4 Phone 573-442-3600 * 573-636-7551

5

6 June 11, 2004

7

8 Mr. Michael Fay

9 1633 Broadway

10 New York, New York 10019

11

12 In Re: MGE's Tariff Sheets

13 Dear Mr. Fay:

14

15 Please find enclosed your copy of the deposition of Roger

16 Morin taken on June 10, 2004 in the above-referenced case.

17 Also enclosed is the original signature page and errata sheet.

18

19 Please have the witness read your copy of the transcript,

20 indicate any changes and/or corrections desired on the errata

21 sheet, and sign the signature page before a Notary Public.

22

23 Please return the errata sheet and notarized signature page to

24 Mr. Berlin for filing prior to the trial date.

25 Thank you for your attention to this matter.

Sincerely,

Tracy L. Thorpe, Certified Court Reporter

Enclosure

cc: Mr. Berlin

Mr. Swearingen

Mr. Hack

Page 112

1 WITNESS ERRATA SHEET

2 Witness Name: Roger Morin

3 Case Name: In RE: MGE

4 Date Taken: 6/10/04

5 Page: Line: Should read:

Reason for change:

6

7 Page: Line: Should read:

8 Reason for change:

9

10 Page: Line: Should read:

11 Reason for change:

12

13 Page: Line: Should read:

14 Reason for change:

15

16 Page: Line: Should read:

17 Reason for change:

18

19 Page: Line: Should read:

20 Reason for change:

21

22 Page: Line: Should read:

23 Reason for change:

24

25 Reporter: Tracy L. Thorpe, CSR, CCR

MISSOURI GAS ENERGY
A Division of Southern Union Company

MISSOURI GAS ENERGY
DATA INFORMATION REQUEST
Missouri Rate Case No: GR-2004-0209
Data Request No: 0163

Requested From: David Murray

Date Requested: 5/11/04

Information Requested:

On page 27 of his direct testimony, witness Murray describes his final group of eight publicly traded companies as comparables. In determining that these companies are comparable, did witness Murray evaluate:

- A. the equity ratio of each of the companies;
- B. the sales mix of each of the companies;
- C. the ownership of pipelines by each of the companies as it compares to Southern Union and MGE;
- D. the sales of propane by each of the companies as it compares to Southern Union and MGE;
- E. the number of customers of each of the companies as it compares to Southern Union and MGE;
- F. whether or not the companies are legally established as a holding company;
- G. whether or not each of the companies engage in exploration;
- H. whether or not the companies generate electricity;
- I. whether or not the companies own natural gas storage?

Requested By: Michael R. Noack

Information Provided:

- A. No.
- B. Yes.
- C. No.
- D. No.
- E. No.
- F. No.
- G. No.
- H. No.
- I. No.

Date Response Received: _____

Signed By: David Murray

Date: 5/18/04



The Commonwealth of Massachusetts
DEPARTMENT OF
TELECOMMUNICATIONS AND ENERGY

May 28, 2004

D.T.E. 04-36

Petition of Southern Union Company for approval and authorization to enter into a long-term \$400 million revolving credit agreement providing borrowing capacity up to \$230 million beyond the Company's recently authorized long-term debt issuance and issue up to \$130 million in common stock for the purpose of refinancing outstanding debt and improving the debt-to-equity capital ratio pursuant to G.L. c. 164, § 14.

APPEARANCE: Cheryl M. Kimball, Esq.
Keegan, Werlin & Pabian, LLP
265 Franklin Street
Boston, Massachusetts 02110
FOR: SOUTHERN UNION COMPANY
Petitioner

D.T.E. 04-36

Page 1

I. INTRODUCTION

On March 16, 2004, Southern Union Company ("Southern Union" or "Company") filed a petition with the Department of Telecommunications and Energy ("Department") pursuant to G.L. c. 164, § 14, for approval and authorization to (1) enter into a long-term \$400 million revolving credit agreement, and (2) issue up to \$130 million in common stock. There were no intervening parties. The Department docketed the filing as D.T.E. 04-36.

Pursuant to notice duly issued, the Department conducted public and evidentiary hearings at the Department's offices on April 26, 2004. In support of its petition, the Company offered the testimony of Richard N. Marshall, Vice President and Treasurer of Southern Union. The evidentiary record consists of 31 exhibits and two record requests. The Company submitted post-hearing comments on May 5, 2004.

II. DESCRIPTION OF THE COMPANY'S PROPOSAL

A. Long-Term Debt

Southern Union seeks approval to enter into a long-term debt obligation of approximately \$230 million in addition to the Company's recently authorized debt issuance of \$400 million (Exh. SU-1, at 2). See Southern Union Company, D.T.E. 03-64 (2003). Of the \$400 million authorized, the Company issued \$230 million in preferred securities in October 2003 (Exh. SU-1, at 3). Rather than issue the remaining authorization of \$170 million in the form of senior notes or preferred securities, the Company proposes to enter into a three- to five-year revolving credit agreement that would provide up to \$400 million of borrowing capacity (*id.*).

D.T.E. 04-36

Page 2

The Company's proposed three- to five-year credit facility will replace two existing facilities, consisting of a \$150 million revolving credit facility that matured on April 1, 2004, and a \$225 million credit facility that expires on May 29, 2004 (SU-1, at 4). As of March 1, 2004, a balance of \$175 million was outstanding on these two facilities (*id.*). The Company anticipates that the interest rate for the new facility will be based on the prime rate and the London Interbank Offering Rate ("LIBOR") (*id.*, at 5). The prime rate will be applicable to overnight borrowings (*id.*). LIBOR-based borrowings will be available for 30-, 60-, 90-, and 180-day periods, with the interest charged to the Company calculated at a credit spread over the LIBOR rate based on the Company's senior secured long-term debt ratings by Standard & Poor's ("S&P") and Moody's Investor Service ("Moody's") (Exhs. SU-1, at 5; SU-DTE-1-2). The Company's senior secured long-term debt was rated BBB by S&P and Baa3 by Moody's at the time of filing (Exh. SU-1, at 5). Based on the Company's current credit ratings and anticipated credit spread of 0.75 percent, Southern Union estimates that interest rates would range between 1.85 percent and 7.0 percent over the term of the revolving credit agreement (Exh. SU-DTE-1-2).

B. Stock Issuance

Southern Union seeks approval and authorization to issue shares of common stock with an aggregate value of up to \$130 million for the purpose of repaying long-term debt (Exh. SU-1, at 3). The Company is proposing the sale of approximately 6.5 million shares of common stock with an anticipated market value of \$20 per share, with an aggregate value of \$130 million (Exhs. SU-1, at 12; SU-DTE 1-13(b); Tr. at 12).

D.T.E. 04-36

Page 3

The Company states that the proceeds from the stock issuance will be used to repay long-term debt in order to maintain and enhance the Company's financial position (Exh. SU-1, at 7). According to the Company, the issuance will improve the Company's debt-to-equity ratio, improve overall borrowing liquidity that, in turn, should ensure that the Company is able to maintain its investment grade rating (Exh. SU-1, at 3; Company Brief at 7). The Company states that the recapitalization from debt to equity is consistent with Southern Union's utility-service obligations (Exh. SU-1, at 7; Company Brief at 10).

III. STANDARD OF REVIEW

In order for the Department to approve the issuance of stocks, bonds, coupon notes, or other types of long-term indebtedness¹ by an electric or gas company, the Department must determine that the proposed issuance meets two tests. First, the Department must assess whether the proposed issuance is reasonably necessary to accomplish some legitimate purpose in meeting a company's service obligations, pursuant to G.L. c. 164, § 14. Fitchburg Gas & Electric Light Company v. Department of Public Utilities, 395 Mass. 836, 842 (1985) ("Fitchburg II"), citing Fitchburg Gas & Electric Light Company v. Department of Public Utilities, 394 Mass. 671, 678 (1985) ("Fitchburg I"). Second, the Department must determine whether the Company has met the net plant test.² Colonial Gas Company, D.P.U. 84-96 (1984).

The Supreme Judicial Court has found that, for the purposes of G.L. c. 164, § 14, "reasonably necessary" means "reasonably necessary for the accomplishment of some purpose

¹ Long-term refers to periods of more than one year after the date of issuance. G.L. c. 164, § 14.

² The net plant test is derived from G.L. c. 164, § 16.

D.T.E. 04-36

Page 4

having to do with the obligations of the company to the public and its ability to carry out those obligations with the greatest possible efficiency." Fitchburg II at 836, citing Lowell Gas Light Company v. Department of Public Utilities, 319 Mass. 46, 52 (1946) ("Lowell Gas"). In cases where no issue has been raised about the reasonableness of management decisions regarding the requested financing, the Department limits its Section 14 review to a determination of reasonableness of the Company's proposed use of the proceeds of a stock issuance. Canal Electric Company, et al., D.P.U. 84-152, at 20 (1984); see, e.g., Colonial Gas Company, D.P.U. 90-50, at 6 (1990). The Fitchburg I and II and Lowell Gas cases also established that the burden of proving that an issuance is reasonably necessary rests with the company proposing the issuance, and that the Department's authority to review a proposed issuance "is not limited to a 'perfunctory review.'" Fitchburg I at 678; Fitchburg II at 841, citing Lowell Gas at 52.

Regarding the net plant test, a company is required to present evidence that its net utility plant (original cost of capitalizable plant, less accumulated depreciation) equals or exceeds its total capitalization (the sum of its long-term debt and its preferred and common stock outstanding) and will continue to do so following the proposed issuance. Colonial Gas Company, D.P.U. 84-96, at 5 (1984). Where issues concerning the prudence of the Company's capital financing have not been raised or adjudicated in a proceeding, the Department's decision in such a case does not represent a determination that any specific project is economically beneficial to a company or to its customers. In such circumstances, the Department's determination in its Order may not in any way be construed as ruling on the

D.T.E. 04-36

Page 5

appropriate ratemaking treatment to be accorded any costs associated with the proposed financing. See, e.g., Boston Gas Company, D.P.U. 95-66, at 7 (1995).

IV. CAPITAL STRUCTURE OF THE COMPANY

As of December 31, 2003, Southern Union's utility plant (including \$119,132,000 in construction work in progress ("CWIP")) was \$3,882,168,000 (Exh. SU-DTE 1-13(a)). After removing \$698,858,000 in accumulated depreciation and amortization, the Company reported a net utility plant of \$3,183,310,000 (id.). In addition, Southern Union had \$230,854,000 of gas inventories (id.). Thus, as of December 31, 2003, the Company had a net utility plant and gas inventory balance of \$3,414,164,000 (id.). As of December 31, 2003, the Company reported a total capitalization of \$3,441,639,000, consisting of (1) \$2,140,137,000 in long-term debt, (2) \$230,000,000 in preferred securities, (3) \$125,000,000 in mandatory convertible securities, and (4) \$946,502,000 in common equity, which included a retained earnings balance of \$47,567,000 (id.; Tr. at 14-15).

Southern Union proposed a number of adjustments to these capitalization and net utility plant balances (Exhs. SU-1, at 9-11; Exh. SU-DTE 1-13(a)). First, the Company excluded \$14,535,000 (\$16,909,000 in plant, less accumulated depreciation of \$2,374,000) plus material and supply inventories of \$8,173,000 from net plant in service to remove plant associated with unregulated operations and other non-plant related assets (Exhs. SU-DTE 1-13(a); SU-DTE-1-11). The Company then eliminated an additional \$119,132,000 in CWIP from its property, plant and equipment accounts (Exhs. SU-DTE 1-13(a)). As a result of these adjustments, the Company's property, plant and equipment, amounted to \$3,272,324,000 (id.).

D.T.E. 04-36

Page 6

In recognition of the above plant adjustments, the Company made corresponding adjustments to its capitalization. First, the Company reduced its total capitalization by \$14,535,000, based on a pro rata reduction to long-term debt, preferred securities, and premiums on common stock related to the removal of unregulated operations (Exh. SU-DTE 1-13(a)).³ Second, the Company similarly excluded \$642,921,000 associated with acquisition premiums, representing the excess of the purchase price over book value of several natural gas utilities acquired in recent years (*id.*).⁴ Third, the Company excluded from capitalization retained earnings of \$47,567,000 (*id.*). As a result of these adjustments, the Company's total capitalization amounted to \$2,736,616,000 (*id.*).

V. ANALYSIS AND FINDINGS

A. "Reasonably Necessary" Standard

1. Long-Term Debt

Southern Union proposes to enter into a \$400 million three- to five-year credit facility for the purpose of financing ongoing utility operations (Exhs. SU-1, at 3). The Department has found previously that issuing debt for the purposes of reducing short-term debt and refinancing long-term debt is a "legitimate utility purpose" as contemplated by G.L. c. 164, § 14. Blackstone Gas Company, D.T.E. 03-65, at 4 (2003); Western Massachusetts Electric Company, D.T.E. 02-49, at 10 (2003); New England Power Company, D.P.U. 95-101, at 11 (1995). Moreover, the revolving credit agreement will allow Southern Union to fund general

³ The Company's unregulated operations have been supported over the years through a combination of debt and equity (Exh. SU-1, at 12).

⁴ The Company stated that it has financed its acquisitions over the years through a combination of debt and equity and cannot directly attribute the acquired facilities to specific capital sources (Exh. SU-1, at 11).

D.T.E. 04-36

Page 7

working capital requirements, which is also a legitimate utility purpose. Berkshire Gas Company, D.T.E. 03-89, at 19 (2003); Cambridge Electric Light Company, D.P.U. 96-91, at 7 (1996); Eastern Edison Company, D.P.U. 93-24, at 8, 12 (1993). Accordingly, the Department finds that the \$400 million three- to five-year credit facility is reasonably necessary to accomplish a legitimate purpose in meeting the Company's service obligations in accordance with G.L. c. 164, § 14.

The Company's petition relies on the issuance of \$170 million in unused borrowing capacity associated with the \$400 million securities issuance approved in Southern Union Company, D.T.E. 03-64 (2003). Authorizations from previous financings remain valid for purpose of later Section 16 reviews. Southern Union Company, D.T.E. 02-27, at 13 (2002). To allow the Company maximum flexibility to enter into the \$400 million revolving credit facility, the Department approves the Company's request to apply the \$170 million in unused authorization from D.T.E. 03-64 to the \$400 million three- to five-year revolving credit facility sought in this proceeding.

2. Stock Issuance

Southern Union states that the objective of its proposed issuance is to improve the Company's debt-to-equity ratio (Exh. SU-1, at 3). Through the issuance of additional equity, the Company intends to repay long-term debt, improve the overall borrowing liquidity, and maintain its investment grade for financing purposes (*id.*).

The Department has found previously that issuing stock for the purposes of acquiring and maintaining equity is a "legitimate utility purpose" as contemplated by G.L. c. 164, § 14. Bay State Gas Company, D.P.U. 93-14, at 14 (1993); Colonial Gas Company, D.P.U. 90-50,

D.T.E. 04-36

Page 8

at 6 (1990). Redeeming existing securities and funding utility operations is also a customary purpose of stock issuances. Berkshire Gas Company, D.T.E. 96-64, at 8-9 (1996); Berkshire Gas Company, D.T.E. 94-14, at 4, 9 (1994). In a previous proceeding, the Department directed the Company to improve its high debt to capitalization ratio. Southern Union Company, D.T.E. 03-3, at 16 (2003). Since that time, the Company has continued its efforts to achieve a more traditional utility capitalization ratio through repaying long-term debt and issuing additional equity (Exh. SU-1, at 7). The proposed issuance will reduce the ratio of long-term debt to total capitalization (including short-term debt) from 61.33 percent to 57.81 percent (Exh. SU-DTE-1-10). Accordingly, the Department finds that the proposed issuance of not more than \$130 million in stock for the purpose of repayment of long-term debt is reasonably necessary to accomplish a legitimate purpose in meeting the Company's service obligations in accordance with G.L. c. 164, § 14, and therefore meets the first prong of the Department's two-prong standard.

B. Net Plant Test

With regard to the net plant test, the Department requires companies to demonstrate that their net utility plant equals or exceeds their total capitalization, thereby supporting the additional amount of financing, pursuant to G.L. c. 164, § 16. Colonial Gas Company, D.P.U. 84-96, at 5 (1984). The purpose of the net plant test is both to protect ratepayers from excessive rates associated with overcapitalization and to assure the creditors of a utility that the company has sufficient tangible assets to cover its liabilities. Boston Gas Company, D.T.E. 03-40, at 321 (2003); Colonial Gas Company, D.P.U. 1247-A at 7 (1982); Report of the Department of Public Utilities Relative to the Capitalization of Gas and Electric

D.T.E. 04-36

Page 9

Companies, Senate Document No 315, at 8-15 (January 1922). Under the net plant test, a company must present evidence showing that its net utility plant (utility plant less accumulated depreciation) is equal to or greater than its total capitalization (the sum of debt, preferred stock and common stock outstanding). Colonial Gas Company, D.P.U. 84-96, at 5 (1984).

Southern Union has proposed a number of adjustments to its capital structure.

First, the Company has proposed to exclude CWIP from its plant investment balance and to exclude retained earnings from its capitalization (Exh. SU-DTE 1-13(a)). The Department has determined previously that CWIP should be excluded from a company's plant accounts for purposes of the net plant test calculation. Boston Edison Company, D.T.E. 03-129, at 16 (2004); Southern Union Company, D.T.E. 01-52, at 9; Colonial Gas Company, D.P.U. 84-96, at 5. CWIP is excluded because the term "fair structural value of the plant", as used in G.L. c. 164, § 16, includes only plant that is used and useful in providing utility service to ratepayers. Southern Union Company, D.T.E. 03-64, at 9 (2003); Colonial Gas Company, D.P.U. 84-96, at 5. In regard to retained earnings, the Department has determined previously that a company must demonstrate that its net utility plant (utility plant less accumulated depreciation) is equal to or in excess of its total capitalization. Berkshire Gas Company, D.T.E. 03-89, at 15-16 (2004); Colonial Gas Company, D.P.U. 84-96, at 5. Past orders of the Department have defined, or implicitly applied, a standard for total capitalization in treating of the net plant test. Id. The Department's definition of total capitalization is the sum of debt, preferred stock, and common stock outstanding.⁵ Colonial Gas Company, D.P.U. 84-96, at 5. On the principle of construction that to express all items that are included

⁵ For purposes of the net plant test, the premium on common stock is treated as common stock. Berkshire Gas Company, D.T.E. 03-89, at 23 (2004).

D.T.E. 04-36

Page 10

within a term is implicitly to exclude other, unexpressed items, see Boston Edison Company, D.P.U. 87-214, at 8 (1988), the Company has correctly interpreted the Department's net plant test as precluding crediting retained earnings to satisfy the net plant test. Accordingly, the Department finds that Southern Union's adjustments to exclude CWIP and retained earnings are appropriate.

Southern Union has proposed excluding unregulated property, plant and equipment in service and the capital used to finance those assets from the net plant calculation (Exh. SU-DTE 1-13(a)). The costs associated with unregulated operations, including those associated with capital costs, should not be borne by ratepayers. NYNEX Price Cap, D.P.U. 94-50, at 440 (1995); Colonial Gas Company, D.P.U. 84-94, at 51 (1984). Therefore, the Department finds that the Company has appropriately excluded its investments and capital associated with unregulated operations. Southern Union Company, D.T.E. 01-52, at 9-10 (2001); Southern Union Company, D.T.E. 01-32, at 10-11 (2001). See also NYNEX Price Cap, D.P.U. 94-50, at 440; Colonial Gas Company, D.P.U. 84-94, at 51 (1984).

Similarly, the Company's proposed adjustment for acquisition premiums is appropriate, given that an acquisition premium, or goodwill, is intangible and, as such, should be excluded as a component in a utility's plant for purposes of G.L. c. 164, § 16. Southern Union Company, D.T.E. 02-27, at 12; Southern Union Company, D.T.E. 01-32, at 11 (2001); New England Power Company, D.T.E. 00-53, at 8-9 (2000). Accordingly, the Department finds that the Company appropriately excluded acquisition premiums from its capital structure.

The record demonstrates that the approval of a \$400 million credit facility for the purpose of financing ongoing utility operations, as well as the issuance and distribution of up

D.T.E. 04-36

Page 11

to \$130 million in common stock, will not exceed the Company's net utility plant following the securities issuance. After these adjustments, the Company's adjusted utility plant amounts to \$3,272,324,000, which is \$535,708,000 more than its adjusted capitalization of \$2,736,616,000 (Exh. SU-DTE 1-13(a)). Accordingly, the Department finds Southern Union's request for a \$400 million revolving credit facility and issuance of \$130 million in common stock meets the net plant test as provided in G. L. c. 164, § 16.

Issues concerning the prudence of the proposed financing have not been raised in this proceeding, and the Department's decision in this case does not represent a determination that any project is economically beneficial to the Company or its customers. The Department's determination in this Order is not in any way to be construed as a ruling relative to the appropriate ratemaking treatment to be accorded any costs, including interest expense, associated with the proposed financing.

VI. ORDER

Accordingly, after due notice, hearing, and consideration, the Department:

VOTES: That entering into the long-term \$400 million credit facility is reasonably necessary for a legitimate purpose in meeting the Company's service obligations, pursuant to G.L. c. 164, § 14; and further

VOTES: That entering into the long-term \$400 million credit facility is in accordance with G.L. c. 164, § 16, in that the fair structural value of the Company's property, plant and equipment and the fair value of the gas inventories held by the Company will exceed its outstanding stock and long-term debt; and further

D.T.E. 04-36

Page 12

VOTES: That issuing up to \$130 million in common stock is reasonably necessary for a legitimate purpose in meeting the Company's service obligations, pursuant to G.L. c. 164, § 14; and further

VOTES: That issuing up to \$130 million in common stock is in accordance with G.L. c. 164, § 16, in that the fair structural value of the Company's property, plant and equipment and the fair value of the gas inventories held by the Company will exceed its outstanding stock and long-term debt; and it is

ORDERED: That the Department approves and authorizes the Company to enter into the long-term revolving credit agreement described herein; and it is

FURTHER ORDERED: That the Department approves and authorizes the issuance and sale by Southern Union Company, in conformity with all the provisions of law relating thereto, of common stock with an aggregate value of up to \$130 million; and it is

FURTHER ORDERED: That the Secretary of the Department shall within three days of the issuance of this Order cause a certified copy of it to be filed with the Secretary of State of the Commonwealth; and it is

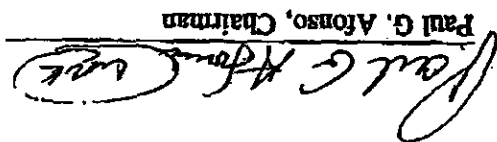
D.T.E. 04-36

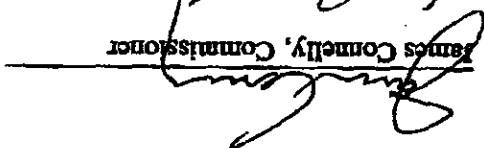
Page 13

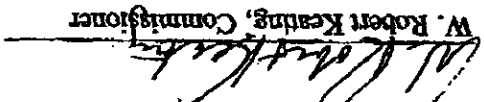
FURTHER ORDERED: That Southern Union Company comply with all other

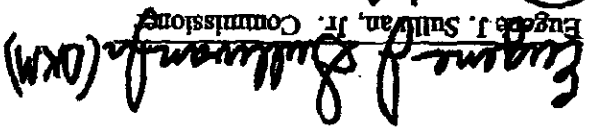
directives contained in this Order.

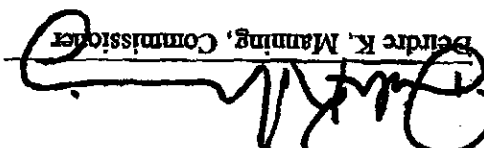
By Order of the Department

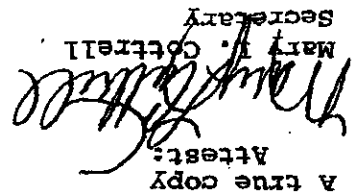

Paul G. Alfonso, Chairman


James Connelly, Commissioner


W. Robert Keating, Commissioner


Eugene J. Sullivan, Jr., Commissioner
(AKM)


Deirdre K. Manning, Commissioner

A true copy
Attest:

Mary E. Cottrell
Secretary

D.T.E. 04-36

Page 14

Appeal as to matters of law from any final decision, order or ruling of the Commission may be taken to the Supreme Judicial Court by an aggrieved party in interest by the filing of a written petition praying that the Order of the Commission be modified or set aside in whole or in part.

Such petition for appeal shall be filed with the Secretary of the Commission within twenty days after the date of service of the decision, order or ruling of the Commission, or within such further time as the Commission may allow upon request filed prior to the expiration of twenty days after the date of service of said decision, order or ruling. Within ten days after such petition has been filed, the appealing party shall enter the appeal in the Supreme Judicial Court sitting in Suffolk County by filing a copy thereof with the Clerk of said Court. (Sec. 5, Chapter 25, G.L. Ter. Ed., as most recently amended by Chapter 485 of the Acts of 1971).

**STATE OF MISSOURI
PUBLIC SERVICE COMMISSION**

**IN THE MATTER OF MISSOURI GAS ENERGY'S TARIFFS
TO IMPLEMENT A GENERAL RATE INCREASE FOR
NATURAL GAS SERVICE**

Case No. GR-2004-0209

DEPOSITION OF DAVID MURRAY

May 4, 2004

COPY

ASSOCIATED COURT REPORTERS

714 West High Street • Jefferson City, MO 65109
1.573.636.7551 • 1.888.636.7551 • 1.573.636.9055 (Fax)
Jefferson City • Columbia • Rolla • St. Louis • Clayton • St. Charles
www.missouridepos.com

spherion.

STATE OF MISSOURI

PUBLIC SERVICE

In the Matter of Missouri Gas)
Energy's Tariffs to Implement a) Case No. GR-2004-0209
General Rate Increase for Natural)
Gas Serviced.)

VIDEOTAPED DEPOSITION OF DAVID MURRAY,
a witness, produced, sworn and examined on the 4th day of
May, 2004, between the hours of 8:00 a.m. and 6:00 p.m. of
that day at the law offices of Brydon, Swearngen &
England, 312 East Capitol Avenue, in the City of
Jefferson, County of Cole, State of Missouri, before

KELLENE K. FEDDERSEN, RPR, CSR, CCR
MIDWEST LITIGATION SERVICES
714 West High Street
P.O. Box 1308
Jefferson City, MO 65101
(573) 636-7551

and Notary Public within and for the State of Missouri,
commissioned in Cole County, Missouri, in the
above-entitled cause, on the part of Missouri Gas Energy,
pursuant to Notice.

1 APPEARANCES

2 FOR MISSOURI GAS ENERGY:

3 ERIC D. HERSCHMANN

4 Attorney at Law

5 KASOWITZ, BENSON, TORRES & FRIEDMAN, LLP

6 1633 Broadway

7 New York, NY 10019-6799

8 (212)506-1700

9 JAMES C. SWEARENGEN

10 Attorney at Law

11 BRYDON, SWEARENGEN & ENGLAND, P.C.

12 312 East Capitol Avenue

13 P.O. Box 456

14 Jefferson City, MO 65102-0456

15 (573)635-7166

16 CHRISTINA CARLSON DODDS

17 Attorney at Law

18 WATSON, BISHOP, LONDON, BROPHY, LLC

19 106 East Sixth Street, Suite 700

20 Austin, TX 78701

21 (512)479-5900

22 FOR THE STAFF OF THE MISSOURI PUBLIC SERVICE COMMISSION:

23 ROBERT FRANSON

24 Senior Counsel

25 ROBERT BERLIN

Assistant General Counsel

P.O. Box 360

200 Madison Street

Jefferson City, MO 65102

(573)751-3234

FOR THE OFFICE OF THE PUBLIC COUNSEL:

DOUGLAS E. MICHEEL

Senior Public Counsel

P.O. Box 2230

200 Madison Street, Suite 650

Jefferson City, MO 65102-2230

(573)751-4857

1 DAVID MURRAY, being sworn, testified as follows:

2 DIRECT EXAMINATION BY MR. HERSCHMANN:

3 Q. Mr. Murray, my name is Eric Herschmann.

4 I'm an attorney representing Southern Union Company and
5 MGE here today. I'm going to ask you a series of
6 questions. If you don't understand the question, will you
7 please tell me so I'll try to rephrase it for you?

8 A. Yes.

9 Q. And is it reasonable for us to presume that
10 if I ask you a question and you answer the question, you
11 obviously understood the question and clearly understood
12 the answer that you gave?

13 A. Yes.

14 Q. And the reason I'm doing that is because I
15 want to make sure that, before answering a question, you
16 understand exactly what's being discussed between the two
17 of us.

18 A. Yes.

19 Q. Okay. Now, I understand that you submitted
20 some prepared direct testimony in this matter; is that
21 correct?

22 A. That's correct.

23 MR. HERSCHMANN: Can we mark this, please?

24 (MURRAY EXHIBIT NO. 1 WAS MARKED FOR
25 IDENTIFICATION BY THE REPORTER.)

1 ALSO PRESENT: John Niehaus, Videographer

2 John Quain

3 Dennis Morgan

4 Rick Marshall

5 John Dunn

6 Matt Barnes

7 Chuck Hyneman

8 Travis Allen

9 SIGNATURE INSTRUCTIONS:

10 Presentment waived; signature requested.

11 EXHIBIT INSTRUCTIONS:

12 Attached to original.

13 INDEX

14 Direct Examination by Herschmann 4

15 MURRAY EXHIBITS INDEX

16 Exhibit No. 1 Prepared Direct Testimony of

17 David Murray 4

18 Exhibit No. 2 Photocopy of the back cover of

19 Professor Morin's book 70

1 BY MR. HERSCHMANN:

2 Q. I'm handing you what we've marked as Murray
3 1. Can you take a moment to look at that exhibit?

4 Can you tell us if this is the prepared
5 testimony that you submitted in this matter?

6 A. Yes, it is.

7 Q. And did you sign the affidavit on the
8 second page of the deposition?

9 A. Yes, I did.

10 Q. And is it an accurate statement as you sit
11 here today that the testimony that's contained in Exhibit
12 1 is true and correct?

13 A. I do have some corrections that need to be
14 made to this testimony.

15 Q. And when did you first discover that you
16 need to make corrections to your testimony?

17 A. It was about a couple weeks ago.

18 Q. Is there a reason you didn't submit the
19 corrections prior to today?

20 A. No. I planned on submitting them with
21 rebuttal testimony. That's usually the way I handle
22 corrections.

23 Q. And can you tell us what corrections --
24 well, withdrawn.

25 Who did you discuss your testimony with

Page 6

1 prior to today?
2 A. My attorneys, attorneys assigned, Bob
3 Berlin, Robert Franson, to some extent with Bob
4 Schallenberg, a couple of my colleagues.
5 Q. Who are the colleagues that you discussed
6 it with?
7 A. Matt Barnes.
8 Q. Who else?
9 A. John Kiebel.
10 Q. John Kiebel?
11 A. Yes.
12 Q. Who else?
13 A. The -- whenever I was discussing the issue
14 that I notice where I made a mistake was with the Office
15 of the Public Counsel Witness Travis Allen.
16 Q. That's Mr. Allen sitting here?
17 A. Yes, he is.
18 Q. Who else?
19 A. May have had some discussions with Tim
20 Schwarz.
21 Q. Mr. Schwarz is counsel for the Staff --
22 A. Yes.
23 Q. -- of the Commission?
24 A. Yes.
25 Q. Anyone else?

Page 7

1 A. Not that I recall.
2 Q. Tell us about your conversations with
3 Mr. Schallenberg. When did those occur and what was
4 discussed?
5 A. I discussed the -- you know, I told him
6 that I had made a mistake and that I wanted to make him
7 aware of that, because obviously he's the individual in
8 charge of more or less looking at possible settlement
9 issues of any case. So I thought it was very important
10 for me to -- to make sure he was aware of it. It wasn't
11 -- the correction did not have a large impact on my
12 recommendation, but he still needed to be made aware of
13 that correction.
14 Q. So was there only one mistake?
15 A. It's one mistake, but it affects some of
16 the numbers throughout the testimony.
17 Q. And what was Mr. Schallenberg's response?
18 A. We all make mistakes and we'll just get it
19 taken care of.
20 Q. And did you review your testimony as
21 contained in Exhibit 1 with Mr. Schallenberg before you
22 submitted it?
23 A. He didn't ask to specifically look at the
24 testimony. I think when there were some issues that came
25 up with the testimony, he -- he reviewed it and gave his

Page 8

1 -- his opinion, his insight as to the testimony.
2 Q. When you say there's some issues that came
3 up with the testimony, what do you mean?
4 A. As far as some of the inclusion of, you
5 know, some -- some wording that we had in there in our
6 testimony as the financial analysis department for some
7 time as to whether or not we should keep that testimony
8 within what we file.
9 Q. You mean -- let me take a step back. You
10 submitted prepared testimony previously, right?
11 A. Yes, I have.
12 Q. And is that based on a standard type of
13 form or testimony that's contained in the computer system
14 at the Staff's office?
15 A. Some of the testimony we have is
16 standardized somewhat.
17 Q. And you discussed with Mr. Schallenberg
18 whether that standardized testimony would still be
19 applicable to this case or whether it should be withdrawn?
20 A. Not necessarily this case. Just any cases
21 going forward.
22 Q. Well, any of the recent rate cases that's
23 been before the Staff, you tried to make a determination
24 whether or not that testimony should be, let's say,
25 stricken from the model or kept in?

Page 9

1 A. We're constantly trying to improve the work
2 product. So we'll look at some of the -- you know, some
3 of the testimony that's in some of the standardized
4 portions and see if there's anything that we can, you
5 know, change to improve the work product and get the point
6 across a little bit better.
7 Q. Let's just talk about this for a moment.
8 You're here submitting testimony on behalf of the Missouri
9 Staff as it relates to MGE, right?
10 A. Yes.
11 Q. And your jurisdiction or your concern is
12 strictly Missouri, right?
13 A. Yes.
14 Q. You're not claiming to have any
15 jurisdiction or oversight over any other operations of
16 Southern Union outside of Missouri, right?
17 A. No.
18 Q. And I know in your prior testimony you
19 referenced the Hope case. Do you remember that?
20 A. Yes.
21 Q. And you've referenced the Bluefield case
22 previously, right?
23 A. Yes.
24 Q. And those cases still apply in this
25 jurisdiction, right?

Page 10

Page 12

1 A. Yes.
2 Q. The Supreme Court hasn't reversed those
3 decisions, right?
4 A. Not that I'm aware of.
5 Q. Have you ever shepherdized any of those
6 cases?
7 A. No.
8 Q. Have you ever shepherdized any of the cases
9 that you've looked at?
10 A. No.
11 Q. When's the last time -- withdrawn.
12 The first time you submitted testimony as
13 it related to MGE in 2001, do you recall that testimony --
14 A. Yes.
15 Q. -- you submitted?
16 And you discussed your testimony with
17 Mr. Bible before you submitted it, right?
18 A. Yes, I did.
19 Q. And Mr. Bible gave you his -- well,
20 somebody at some point gave you the standard testimony,
21 right?
22 A. Yes.
23 Q. And did someone explain to you when you
24 first got there that this is the standard testimony that
25 we use for each of the rate cases that come before the

1 into the professional world.
2 Q. So you -- that's back when you were still
3 in school; is that right?
4 A. That's correct.
5 Q. And when you graduated college, did you
6 major in rate of return areas?
7 A. Finance. Finance.
8 Q. Well, was there a course that you took that
9 was directed towards rate of return while in college?
10 A. The finance curriculum we -- actually, the
11 model that is used in utility regulation has been referred
12 to as discounted cash flow model. Obviously it's been a
13 model that has been, you know, changed and manipulated
14 somewhat to -- to be able to estimate the rate of return
15 for a utility company.
16 In the financial curriculum at the
17 University of Missouri - Columbia, it was referred to as
18 the dividend growth model, the Gordon growth model or the
19 dividend discount model. There's a few -- there's a few
20 ways to label that model.
21 And the original intent of that model was
22 to determine -- for an investor to try to determine what
23 they think is a reasonable price to pay for a given
24 security. So yes, I had -- I had experience with -- with
25 that model as far as -- as far as in my studies with the

Page 11

Page 13

1 Commission?
2 A. Yes.
3 Q. And when you first came to the Commission,
4 in what year was that?
5 A. June of 2000.
6 Q. And prior to coming to the Commission in
7 June of 2000, you were employed by the Department of
8 Insurance; is that correct?
9 A. That's correct.
10 Q. And did you have any rate of return
11 testimony that you submitted while employed at the
12 Department of Insurance?
13 A. No, I did not.
14 Q. Did you have any rate -- return on equity
15 testimony that you submitted or worked on while at the
16 Department of Insurance?
17 A. No, I did not.
18 Q. When -- prior to working for the Department
19 of Insurance, where did you work?
20 A. I worked at United Parcell Service.
21 Q. And did that have anything to do with rate
22 of return or return on equity or anything we're discussing
23 today?
24 A. No. It was a position to help me with my
25 expenses in college. That was my position before I got

1 University of Missouri - Columbia.
2 Q. Well, when you were in college, did you
3 apply the model in any real world situations?
4 A. Other than maybe trying to determine the
5 valuation of a stock, no. Not in the context that
6 we're -- that it's used in utility regulation. Like I
7 said, this is somewhat unique that the model has been
8 changed to try to arrive at what -- what a witness feels
9 the discount rate, the cost of capital is for a given
10 security.
11 Q. So if I understand at least generally, the
12 testimony that you're submitting today, you're doing that
13 on behalf of the Staff, correct?
14 A. Yes.
15 Q. And it's your opinion as to what the return
16 on equity should be and the rate of return, right?
17 A. Yes.
18 Q. And you're the fact witness at the Staff
19 who's proposing to address those issues, right?
20 A. Yes.
21 Q. And there are some portions of this
22 testimony that you used back in 2001, right?
23 A. Yes.
24 Q. And there's some portions of this testimony
25 that you know based on prior depositions came from years

1 ago from other witnesses, right?

2 A. Yes.

3 Q. And your experience in the DCF modeling
4 came from some classes that you may have taken in college,
5 right?

6 A. Yes.

7 Q. And the first time you ever used it in a
8 practical environment was when you came to work for the
9 Missouri Staff, right?

10 A. That's correct.

11 Q. And was it Mr. Bible that explained to you
12 how he felt the DCF model should be applied?

13 A. I wouldn't say Mr. Bi-- Mr. Bible coached
14 me along with what I was reviewing, as far as both the
15 regulatory, utility regulatory financial -- finance text,
16 such as I see you have Roger Morin there and David
17 Parcell. I also had to look back at some of my -- some of
18 my textbooks from college that I actually kept and -- and
19 found useful since I started dealing with rate of return
20 on a more intensive basis again.

21 And so obviously I went back and did some,
22 you know, some more studying on -- you know, from my own
23 perspective, instead of just relying on -- my boss is a
24 working manager. He has things that he's doing, and so a
25 little bit of the responsibility lies on me to -- to study

1 A. I assisted in rate of return testimony, I

2 believe, on a water case. The Ozark, Northeast and Oregon
3 Farmers Mutual, I prepared the testimony and prepared the
4 studies.

5 Q. And you submitted this testimony after
6 joining -- six months after you joined the Commission; is
7 that correct?

8 A. That's approximately correct.

9 Q. And you mentioned Professor Morin's book.

10 When's the first time you obtained a copy of that?

11 A. It's -- it's on file over at -- over in our
12 department on our book shelf, so as soon as I started
13 working there.

14 Q. So you had access to the book, the earliest
15 would be June of 2000, right?

16 A. Yes.

17 Q. And when you first got to the Commission --
18 well, withdrawn.

19 Prior to joining the Missouri Staff, did
20 you ever give any lectures on rates of return?

21 A. No.

22 Q. You ever publish any books dealing with
23 rates of return or return on equity?

24 A. No.

25 Q. Did you ever write any articles about rates

1 and get back up to speed with these models.

2 Q. Let's take a step back, then, to the first
3 time you submitted any testimony on rate of return. In
4 which case was that?

5 A. I believe it was some -- the telephone
6 cases. Those were the first cases I was assigned to when
7 I started working for the Staff. And you're taking me
8 back four years, so I'm going to try to recall from
9 memory. I believe one of those cases was Oregon Farmers
10 Mutual. I should just refer to my -- that would make
11 sense.

12 Q. I think we're at A1.

13 A. Attachment A to my testimony, you see that
14 I filed direct testimony in Ozark Telephone Company,
15 direct testimony in Northeast Missouri Rural Telephone
16 Company, rebuttal for Oregon Farmers Mutual Telephone
17 Company.

18 Q. And whatever is contained on Attachment A1,
19 would that cover the area?

20 A. Yes.

21 Q. And do you recall testifying in the
22 Missouri Gas Energy 2001 case that you had assisted in
23 preparing rate of return testimony, but not actually done
24 the actual calculations yourself; that was your first
25 involvement?

1 of return, return on equity?

2 A. Yes.

3 Q. Okay. And when prior to June of 2000 did
4 you write an article as it relates to rate of return?

5 A. I didn't say I wrote an article. I said --
6 you said read an article.

7 Q. No. No.

8 A. You said write?

9 Q. Write.

10 A. I didn't understand what you said. I
11 thought you said read an article.

12 Q. I tend to speak quickly. I apologize.

13 A. No, I did not write an article.

14 Q. And have you published any peer review
15 studies as it relates to rate of return or return on
16 equity?

17 A. No.

18 Q. Have you consulted with any other staffs at
19 any other commissions in any other jurisdictions as to how
20 they're applying the DCF model in their recommendations
21 regarding rate of return?

22 A. No.

23 Q. Have you ever tried to contact Professor
24 Morin to see whether the methodology that you've been
25 using is correct?

1 A. I have not contacted Professor Morin for
2 that specific reason, no.
3 Q. Well, have you contacted Professor Morin
4 for any reason?
5 A. I had a -- I went to a utility finance
6 seminar that he sponsors out in Washington, D.C. and --
7 and listened to what he had to say as far as his ideas
8 about cost of capital in the utility environment.
9 Q. When did you go to that course?
10 A. It was probably -- it was a couple years
11 after I started. I don't recall exactly.
12 Q. It would be some point after you submitted
13 your testimony in 2001 as it relates to Ozark, Northeast
14 and Missouri Gas Energy, right?
15 A. Yes.
16 Q. Do you still have the textbooks that you
17 had in college that you say would have addressed the rates
18 of return methodologies that you're using?
19 A. The dividend growth model, yes.
20 Q. And would you mind providing us later on
21 with a listing of those books, and if you could tell us
22 what editions they are?
23 A. Yes.
24 MR. FRANSON: Objection. That will call
25 for a Data Request.

1 A. Yes.
2 Q. What did you tell him?
3 A. I told him that I -- when I was reviewing
4 my testimony and reviewing Mr. Allen, Travis Allen's
5 testimony with the Public Counsel, I noticed that there
6 was a different -- I'm going to get into the mistake right
7 now so you know what it is -- a different common equity
8 balance in my capital structure.
9 And -- and after talking to Travis Allen,
10 he indicated it looks like that I used the June 30th, 2003
11 balance instead of the update period of December 31st,
12 2003. So once I -- once I discussed that with him and
13 verified it myself, that was indeed the mistake.
14 Q. That actually reminds me, what is a
15 true-up?
16 A. The true-up is April 30th.
17 Q. No. What is a true-up?
18 A. The true-up is at the end -- we just
19 referred to update. There's the test year, which is
20 what's originally filed. Then you have the update, known
21 and measurable changes. True-up period comes up -- comes
22 up after the hearings, based on the update period, and
23 true-up is if there's anything that is extraordinary that
24 Staff or the company wants to include within its
25 recommendation for purpose of updating the revenue

1 MR. HERSCHMANN: Okay.
2 MR. FRANSON: That way the burden's on you
3 to request it, so it doesn't leave a burden on the
4 witness.
5 MR. HERSCHMANN: Not a problem.
6 BY MR. HERSCHMANN:
7 Q. Are you making any claim at all that
8 Southern Union or MGE are in violation of any orders or
9 agreements with the Missouri Public Service Commission?
10 A. No.
11 Q. Not making any claims that Southern Union
12 has violated any SEC regulations, right?
13 A. No.
14 Q. There's no claims of any mismanagement by
15 Southern Union, right?
16 A. No.
17 Q. And in all the times that you've submitted
18 testimony, whether it be prepared testimony or testimony
19 under oath, you believe that to be truthful and accurate,
20 right?
21 A. Yes.
22 Q. When you told Mr. Schallenberg that you
23 thought you made a mistake and he said, we all make
24 mistakes, did you discuss with him how you came to the
25 conclusion that you made a mistake?

1 requirement.
2 Q. Let me make sure I understand this. So
3 you're saying -- I think it's the last question in your
4 testimony, right before the attachment that you had.
5 A. Yes.
6 Q. You say that Staff -- is the Staff
7 proposing a true-up audit in this case? Yes, I'm
8 recommending a true-up audit be performed for the purpose
9 of updating the capital structure and associated embedded
10 costs through April 30th, 2004.
11 A. Yes.
12 Q. And does that mean that -- making it
13 something that a lawyer can understand -- doing like a
14 reconciliation, you can use the April 30th numbers?
15 A. It's more or less -- with an update you can
16 do that within the period of time where testimony's being
17 filed before the hearing where you can actually update the
18 numbers, which actually a lot of witnesses went ahead and
19 updated within their direct testimony through December
20 31st, 2003.
21 A true-up period, usually those -- that
22 information is not going to be available until after the
23 hearing --
24 Q. All right.
25 A. -- the evidentiary hearing, and many times

1 there will be discussion as to what items can be trued up
2 through the true-up period, which is April 30th, 2004 in
3 this case.

4 Q. So I just want to make sure that I'm clear
5 on this. Since it's May 4th, there's some numbers that
6 are available now that weren't available April 29th,
7 you're going to take those April 30th numbers and apply
8 them to whatever calculations you did; is that right?

9 A. I will look at the capital structure
10 numbers, see what's occurred with -- within Southern Union
11 since the update period, which is December 31st, 2003, see
12 what kind of changes occurred. That includes, like I
13 said, the actual amounts of the capital and the capital
14 structure, the costs associated with those securities
15 within the capital structure. That's typically what, as
16 far as -- I'm speaking from a rate of return perspective
17 only. That's typically what we would look at within a
18 true-up.

19 Q. And then you make adjustment based on the
20 new numbers; is that right?

21 A. We make adjustments based on the update
22 period, December 31st, 2003 numbers, because that's what I
23 filed.

24 Q. Right. But I'm saying -- I just want to
25 make sure I understand this. When you say you want to do

1 Q. And at that time you told Mr. Swearengen
2 sitting here that you had not read any of the cases in
3 their entirety. Do you remember that testimony?

4 A. I do remember that, yes.

5 Q. Was that truthful testimony back then?

6 A. Yes, it was.

7 Q. And you understand that the United States
8 Supreme Court has set a standard as it applies to rates of
9 return for utilities, right?

10 A. Yes.

11 Q. And the first time you submitted the
12 testimony -- let me withdraw that.

13 Tell me how you created your testimony back
14 in 2001. How did you decide which questions to ask
15 yourself and how did you decide which answers to give?

16 A. I started with -- with the template of
17 Mr. Ron Bible's testimony from a previous MGE case and
18 made changes, additions as needed. Obviously then the
19 main part of the -- of the testimony is the schedules.
20 That was all updated. That actually gets into the
21 quantitative analysis of what is reasonable as far as a
22 recommended return on equity and rate of return as of the
23 time period for that case.

24 But as far as the specifics of what I
25 updated and didn't update back in that case, I don't

1 a true-up audit as of April 30th, you're going to look at
2 numbers from December 31st, then you're going to look at
3 numbers from April 30th, and if there are changes in the
4 numbers that you deem to be somewhat significant, you're
5 going to make the changes based on April 30th numbers,
6 right?

7 A. Yes, based on April 30th.

8 Q. Okay. You mentioned Professor Morin's
9 book, and you said that it was available to you in June of
10 2000. When is the first time that you read his entire
11 book?

12 A. Probably within a couple months that I
13 started working there. I can't recall. I mean, it's --
14 it was sporadic to be able to read it, the entire book,
15 obviously. I do -- I was assigned duties where I couldn't
16 read it all through the whole book within a week or two
17 when I started because I had other things I had to do as
18 well.

19 Q. And, you know, you have a portion of your
20 testimony that deals with legal standards; is that right?

21 A. Yes.

22 Q. And the first time you submitted the
23 testimony dealing with legal standards as it relates to
24 MGE was back in 2001, right?

25 A. Yes.

1 recall.

2 Q. Well, I'm not asking you whether you
3 updated the schedules. I'm asking, do you sit down at a
4 computer and say, I have to submit prepared testimony, you
5 know, all right, I'm going to ask myself these questions,
6 or did someone say to you, here's the template, here's the
7 questions that you ask, here's some of the standard
8 answers, update the schedules as it applies to these
9 numbers?

10 A. There were parts of the testimony that
11 were, you know, the same as what I had -- what Ron Bible
12 had written in 1998. Like I said, I updated what I felt
13 was necessary for purpose of that case, and I don't recall
14 exactly what I updated at that time.

15 Q. Let me ask you this: How could you know
16 what you need to update, let's say, on the legal standards
17 if you'd never read the cases yourself?

18 A. I don't know that I updated anything
19 specifically with the -- with the legal standards.

20 Q. I guess I'm asking, how do you know whether
21 or not you needed to update things or you didn't need to
22 update things if you never read the cases?

23 A. Because those cases were, you know, fairly
24 standard and longstanding precedent within rate of return
25 regulation, at least from the staff financial analysis

Page 26

1 department's concern.
2 Q. Do you think anything's changed in those
3 cases as they apply to these -- this rate case?
4 A. No.
5 Q. The court hasn't abandoned it, right?
6 A. Not that I'm aware of.
7 Q. There hasn't been an expanding of the
8 court's decisions by any other courts, right?
9 A. Not that I'm aware of.
10 Q. Do you recall testifying previously that
11 there was a Pennsylvania Supreme Court case?
12 A. Yes.
13 Q. And do you recall testifying that the
14 Pennsylvania Supreme Court expanded the United States
15 Supreme Court's rulings in Blue -- Bluefield and Hope?
16 A. I'm sorry. Can you repeat the question?
17 MR. HERSCHMANN: Can you read that back
18 please?
19 THE REPORTER: "Question: And do you
20 recall testifying that the Pennsylvania Supreme Court
21 expanded the United States Supreme Court's rulings in
22 Blue -- Bluefield and Hope?"
23 THE WITNESS: I believe I -- that was my
24 testimony in the previous MGE rate case.
25 BY MR. HERSCHMANN:

Page 27

1 Q. And can you just explain to me how you
2 understand the hierarchy of the court systems to work
3 between, let's say, Pennsylvania, Missouri and the United
4 States Supreme Court, your just general understanding as
5 to how the courts interact with each other?
6 A. Obviously each state has their own
7 jurisdictional -- jurisdictional courts, and then if
8 there's something within a state court that is raised to
9 the level of that state's Supreme Court and the plaintiff
10 still does not agree with that, then they may raise it to
11 the level of the Supreme Court of the United States of
12 America.
13 Q. And that's your understanding of how the
14 court system works?
15 A. That's my understanding.
16 Q. So when you testified back in 2001 that the
17 Pennsylvania Electric Company case expands, you used the
18 word expands, or later on use the word extends the U.S.
19 Supreme Court testimony, you now realize that's not
20 accurate, right?
21 A. Whenever we -- we got into discussion of
22 extending, I realize that may not have been the proper
23 terminology to use, and that's why that's been changed.
24 Q. And have you shepherdized the Pennsylvania
25 case?

Page 28

1 A. Can you please explain your question?
2 Q. Do you know what shepherdizing means?
3 A. No, I do not.
4 Q. Okay. Tell me how you -- well, I'll take a
5 step back, and then I'll explain a little greater detail.
6 How did you select which cases to look at
7 when you first decided to submit your testimony?
8 A. The cases that are within the testimony
9 were in the testimony before, before I started working in
10 the financial analysis department.
11 Q. So somebody handed you some cases that were
12 highlighted and some testimony and says, this is what we
13 use, right?
14 A. I was handed the cases after I -- when I
15 was reviewing the testimony. They just said, these are
16 the cases that we rely upon in establishing the legal
17 precedent for purposes of explaining how we go about the
18 rate of return study. And -- and then once I was given
19 those cases, yeah, there were highlighted portions.
20 Q. And you testified back in 2001 that you had
21 not read those cases in their entirety prior to submitting
22 your testimony, right?
23 A. That's correct.
24 Q. And when you were in college, is it safe to
25 say that the professors weren't handing you out cases and

Page 29

1 asking you to go shepherdize those cases since you don't
2 know what shepherdizing is as of today, right?
3 A. I'd say that's safe to say.
4 Q. And the Pennsylvania case, does the
5 Pennsylvania court have any jurisdictional bearing on
6 Missouri?
7 A. Not that I'm aware of.
8 Q. And shepherdizing is, so you understand, is
9 a means of checking cases to see whether they've been
10 distinguished, reversed, remanded, whether it's followed.
11 It'll give you questions of a lot of different information
12 about them.
13 Have you ever asked counsel at the Staff to
14 say, can you check whether or not the Pennsylvania case --
15 actually it's going to be a good objection. I'll withdraw
16 that question. I'll withdraw that objection. That's a
17 good question.
18 All right. Has anybody ever handed you
19 cases and said, these are follow-ups or things that have
20 been distinguished, on any of the cases that you've cited?
21 A. I don't believe I've been given anything
22 that indicates it's a follow-up on cases that have been
23 cited, no.
24 Q. Now, you mentioned in your testimony the
25 Munn case, Bluefield, Natural Gas Pipeline and Hope

1 decisions, and this is the same testimony that has, in
2 essence, been lifted and put back into each one of your
3 testimonies, right?

4 A. Yes.

5 Q. And then on page 6 of your testimony, you
6 say, through these and other court decisions. Can you
7 identify for us what other court decisions are you talking
8 about and where did you get them from?

9 A. I don't recall the specific court decisions
10 I'm referring to there.

11 Q. Generally, where would you have gotten
12 other court decisions?

13 A. It could be court decisions -- I mean, as
14 far as any specifics, I don't recall. There could be
15 court decisions within Missouri or there could be court
16 decisions within other states that -- that address the
17 issue that public utilities operate more efficiently as
18 monopolies. I mean, it's fairly -- it appears to me to be
19 a pretty longstanding principle that that's how we view
20 the best operation of regulated utilities.

21 Q. I'll move to strike that answer as
22 nonresponsive.

23 The question was, where would you have
24 gotten these other court decisions?

25 A. There's citations of court decisions

1 within, mainly in Parcell's book, in Roger Morin's book.
2 I don't recall the specific cases. Those are not cited in
3 my testimony. There's -- quite often in any cost of
4 capital textbook there's citations to many court cases
5 that more or less provide the timeline of how things have
6 evolved within rate of return regulation and what the
7 standards are.

8 Q. Tell me how you would go about, if you're
9 reading Morin's book for argument sake and he had a case
10 citation, how would you obtain a copy of that case?

11 A. Well, sometimes I do my own research, but I
12 would more than likely, if I didn't know where to go for
13 sure, I would check with an attorney.

14 Q. Do you recall in submitting your testimony
15 checking with any attorney saying, I just read Morin's
16 book, he references this case in this jurisdiction and I
17 want to see what it says?

18 A. No.

19 Q. Do you recall ever doing that?

20 A. I believe I just -- I recall asking about
21 the Permian Basin case, which is a case that is cited
22 within Mr. Parcell's book, to get an idea of what's in
23 that case to see if there's any cases I can substitute
24 for -- for, say, the Pennsylvania case. But I didn't feel
25 like it was going to suit the needs that I -- that I

1 thought were appropriate.

2 Q. Did someone tell you you should use the
3 Pennsylvania case in your testimony?

4 A. Like I said, that case was within the
5 testimony before I started with the department, and it
6 just -- I agree with the principle behind it, and I feel
7 it's appropriate to discuss that principle.

8 Q. Well, the first time you decided to use the
9 Pennsylvania case, you didn't know it related to the Three
10 Mile Island, right?

11 A. I believe there was some ignorance on my
12 part within that case.

13 Q. I mean, the question, and I'll read from
14 page 33 of your testimony, do you know whether or not the
15 Three Mile Island accident had anything to do with the
16 Pennsylvania case which you have cited in your testimony?

17 Answer: No.

18 Is that truthful testimony then?

19 A. Yes, it was.

20 Q. And now you know that it did have to do
21 with Three Mile Island, right?

22 A. Yes, I do.

23 Q. And a little different than the current
24 circumstances with MGE, Three Mile Island and how MGE
25 operates?

1 A. I'd say there's some differences there.

2 Q. Pretty drastic ones, right?

3 A. I don't think they have any nuclear
4 regulation -- or nuclear generation within their
5 operations.

6 Q. Is there anything more drastic besides not
7 having nuclear generation in the operations?

8 A. Within a utility framework, I'd say, yes.

9 Q. It was Three Mile Island. I mean, a pretty
10 monumental event, I mean, as relates to a shutting down of
11 a nuclear reactor and stuff?

12 A. I think we just hit the 25-year anniversary
13 of that and it caught the attention of the media. Yes, it
14 is.

15 Q. And that's nothing remotely near MGE,
16 right?

17 A. No, they do not have nuclear generation.

18 Q. And you understand that the Pennsylvania
19 Supreme Court discussed the fact that the property would
20 not -- was no longer used or useful for the Pennsylvania
21 customers, right?

22 A. I understand that.

23 Q. Any property that's sitting here that MGE
24 uses that's not being used for the customers of MGE?

25 A. Not that I'm aware of, but I don't evaluate

1 the rate base issues.

2 Q. What do you mean by that?

3 A. I'm not looking at -- that's not part of my
4 testimony to review what should be included in rate base,
5 what's used and useful for -- for MGE. That's not the
6 subject of my testimony.

7 Q. Well, when you recommend an authorized rate
8 of return, do you think it's something that MGE should be
9 able to at some point meet?

10 A. Can you please -- I don't understand your
11 question.

12 Q. Sure. When you talk about making a
13 recommendation for an authorized rate of return, should it
14 be a realistic number?

15 A. It should be a fair and reasonable
16 authorized rate of return.

17 Q. And it should be something that Southern
18 Union -- or withdrawn.

19 It should be something that MGE has the
20 opportunity to earn, right?

21 A. I don't control whether or not they have
22 the opportunity to earn it. I recommend a fair and
23 reasonable rate of return. Now, whether or not they can
24 earn that return is something that maybe is subject to the
25 operations of the company. That's not within my control.

1 they -- they can't be that far off from what we think
2 they're earning on their authorized rate of return.

3 Obviously there's disputes amongst the various expert
4 witnesses within this case that -- that are going to argue
5 that certain things should be included and not included.

6 Q. But you've never looked at that issue,
7 right?

8 A. No.

9 Q. Did you read the other witnesses' testimony
10 in this case when it was first submitted?

11 A. Portions of some of the other witnesses.

12 Q. How did you select which portions to read?

13 A. I think some Staff, you know, attorneys or
14 personnel, and I don't recall exactly who, alerted me that
15 there are some witnesses addressing issues about return on
16 equity and rate of return. So I reviewed that just to see
17 what -- what their testimony was regarding that.

18 Q. Can you list for us the testimony -- or the
19 portions of the testimony that you read, which witnesses?

20 A. Of course I read John Dunn, obviously, and
21 also reviewed some of John Quain's testimony. Looked at
22 small portions of Oglesby's, small portions of Mike
23 Nowack's. I think that's the extent of it.

24 Q. Anyone from the Staff's testimony that you
25 reviewed?

1 Q. Well, you told us beforehand that there's
2 no claim of mismanagement by Southern Union, right?

3 A. Not that I'm aware of.

4 Q. No complaints have been filed, right,
5 between -- as of now, sitting here today?

6 A. I don't know. I don't review the
7 complaints. There may have been complaints filed with our
8 consumer services division on MGE. I don't review that.

9 Q. As you are sitting here today, you're
10 unaware of any complaints that are pending, right?

11 A. I'm ignorant of whether or not there's any
12 complaints filed.

13 Q. And you're telling us that you make a
14 recommendation as to an authorized rate of return without
15 factoring in whether or not that number is realistic for
16 MGE ever to earn it? That's just not your job?

17 A. No. I recommend a fair and reasonable
18 authorized rate of return. Whether or not they're able to
19 earn that return is not within my control.

20 Q. And you don't factor in whether or not --
21 for argument's sake, you've never looked to see whether or
22 not MGE has ever earned its authorized rate of return,
23 right?

24 A. I think there's dispute on that in this
25 case. I think from Staff's overall revenue requirement,

1 A. No, I didn't review anybody specifically
2 from the Staff.

3 Q. Did you, prior to submitting your
4 testimony, have any conversations with anyone on the Staff
5 about what generally the authorized rate of return
6 recommendation would be?

7 A. Can you repeat the question, please?

8 MR. HERSCHMANN: Can you read that back,
9 please?

10 THE REPORTER: "Question: Did you, prior
11 to submitting your testimony, have any conversations with
12 anyone on the Staff about what generally the authorized
13 rate of return recommendation would be?"

14 THE WITNESS: I had individuals on Staff
15 review my testimony as far as what they feel the rate of
16 return would or should be. I hate to use the term would
17 be. I don't think that, you know, within our analysis
18 we're trying to determine what it would be. We're trying
19 to determine what we think it should be based on an
20 analysis of the capital and economic environment.

21 But I do have -- my boss, Ron Bible, used
22 to be the person that would review my testimony. He has
23 been since mobilized, so I don't have him to review it. I
24 did discuss some of my initial conclusions with him before
25 he was mobilized. I didn't have all my testimony written.

1 Usually he's the one that I bounce off a lot of my ideas
2 on what I'm looking at as far as my recommendation.

3 I did have other Staff personnel and
4 attorneys review my testimony, and I don't recall that
5 they specifically asked me, you know, do you think this
6 rate of return should be higher or lower, what have you.
7 BY MR. HERSCHMANN:

8 Q. Which Staff members did you discuss this
9 with?

10 A. The testimony?

11 Q. You said you discussed it with some Staff
12 members. Was Mr. Schallenberg one of them?

13 A. The testimony. As far as the testimony,
14 not the recommendation itself. There was nobody that
15 asked me to change my recommendation. The testimony was
16 reviewed by -- by Bob Berlin, Mr. Robert Franson. Bob
17 Schallenberg later reviewed it. There's also -- John
18 Kiebel gave me some -- some information on what he thought
19 I could change on just some basically cleanup language.

20 Q. Who's John Kiebel?

21 A. He's an individual that's filling in in our
22 department since my boss has been mobilized, helping out.

23 Q. Okay. Where did he come from?

24 A. Engineering and management services.

25 Q. And is that another part of the Missouri

1 He's not here, and I can't tell you that his -- he's a
2 little older than I am. He has a lot of experience. He's
3 50 years old. I'm sure he's done a lot of things, and I'm
4 sure there's probably something in his testimony that may
5 give you more insight on that.

6 Q. Well, is it safe to say that the person who
7 gave you primary guidance as to how things are done at the
8 Commission when you first arrived was Mr. Bible?

9 A. Yes.

10 Q. And he was your boss, right?

11 A. Yes.

12 Q. He's the one that handed you this canned
13 testimony, right?

14 A. He handed me some of the testimony that he
15 had done in the previous MGE rate case.

16 Q. And he's the one that explained to you how
17 the Staff generally dealt with rate cases, right?

18 A. Yes.

19 Q. And did he tell you at that time that,
20 prior to joining the Missouri Commission, he had no
21 experience with the regulated industries?

22 A. No.

23 Q. Did he tell you that he had no regulatory
24 experience at all prior to joining the Missouri
25 Commission?

1 Staff?

2 A. It's another department with the Staff.

3 Q. And what knowledge did he have as related
4 to ROR?

5 A. He -- before I came on board with the
6 Staff, he helped out with our department another time when
7 we were short-staffed. So his experience, you know, that
8 was under Ron Bible, when he was helping us with, you
9 know, some -- some of the more minor projects in order to
10 help ease the workload that we were experiencing. Now
11 he's, like I said, once again he's helping out with our
12 situation.

13 Q. What does the engineering management
14 services do?

15 A. Mainly the quality service, customer
16 service-type issues.

17 Q. Now, what experience did Ron Bible have as
18 related to regulated utilities or the regulatory industry
19 prior to joining the Missouri Commission?

20 A. Well, I'm not Ron Bible, but I will tell
21 you what I know about his experience. He worked for a
22 credit rating agen-- or not a credit rating agency, but a
23 credit card company, and he also did some statistical
24 analysis with the Air Force.

25 As far as rate of return, I don't know.

1 A. No.

2 Q. Let me read to you a portion of Mr. Bible's
3 testimony from November 3rd of 2000.

4 Question: Prior to joining the Missouri
5 Commission in August of 1997, did you have any regulatory
6 experience?

7 Answer: No.

8 Had you worked for any companies that had
9 been regulated by the Missouri Commission prior to '97?

10 Answer: No.

11 Did Mr. Bible ever explain to you how he
12 came to obtain the canned testimony that's been submitted
13 by the Staff for several years?

14 A. I don't recall if he did or not.

15 Q. You ever talk to Mr. Schallenberg about it?

16 A. No, I haven't.

17 Q. Do you have any drafts of your testimony in
18 this case?

19 A. I believe I may have some drafts from
20 review.

21 Q. And where are those drafts now?

22 A. At my office.

23 Q. And did you run different schedules than
24 what's attached to your testimony here today?

25 A. I don't believe I ran any different

1 schedules. I may have made some corrections to the
2 schedules, as I pointed -- as I found some things as far
3 as maybe a mistran-- a transposed number, something of
4 that nature. Nothing really material as far as I can
5 recall, except for the corrections I just pointed out
6 today.

7 Q. Just so we're clear, is it your testimony
8 that you never discussed with anyone prior to preparing
9 your testimony what the general range of your
10 recommendation should be as relates to the authorized rate
11 of return in this case?

12 A. No. I think I had indicated that before
13 Ron Bible was mobilized, that I talked about the range
14 that I was looking at for my recommended return on equity.
15 I think I made that pretty clear in my previous answer
16 that I did talk to him specifically about that.

17 I thought that I could at least get to that
18 point, and maybe not necessarily write the testimony and
19 prepare all the schedules, but get an idea as to what I
20 was seeing after I did my study as to what I think a
21 reasonable return on equity recommendation would be for
22 MGE in this case, because I knew that I only had limited
23 time to bounce that off of him.

24 Q. And what did Mr. Bible tell you after you
25 bounced it off of him?

1 that we were going to be able to have December 31st, 2003
2 updated information, it just seemed to make sense to go
3 ahead and let's give the picture of what's going to happen
4 with the update period now, instead of waiting until
5 rebuttal.

6 Q. Did you ever go back and look at what you
7 had calculated out as being return on equities for
8 comparable companies to see whether or not your prior
9 testimony was accurate?

10 A. I don't understand your question.

11 Q. Did you ever -- well, previously you've
12 used comparable companies to come up with a
13 recommendation, right?

14 A. Yes.

15 Q. Did you ever go back and look at what your
16 recommendation had been based on what the reality was?

17 A. Once again, I don't understand. Are you --
18 the reality of my recommendation versus what actually
19 occurred?

20 Q. Right. You used a proxy group, right?

21 A. Yes.

22 Q. You did some calculations, right?

23 A. Yes.

24 Q. And you assumed certain things in doing
25 your calculations, right?

1 A. He said it appeared to be reasonable.

2 Q. Did Mr. Bible review any of the financial
3 information that you used?

4 A. I believe he -- actually, let's make this
5 clear, because he was being -- it wasn't announced that he
6 was being mobilized 'til probably sometime in March. He
7 was initially assigned to this case. So he was working
8 with my colleague, Matt Barnes, there with preparing the
9 schedules. So he -- he was actually initially assigned to
10 the case, and because of situations with being mobilized
11 with the military, I had to take this case on.

12 Q. And did Mr. Bible provide you with a draft
13 of the information that he already calculated prior to
14 being mobilized?

15 A. I believe some of the schedules were --
16 were currently in process.

17 Q. So who actually made the mistake, then,
18 using the June 30th numbers, you or Mr. Bible?

19 A. I'll take responsibility for that. I think
20 it's my mistake. I should have caught that before it was
21 submitted.

22 Q. And in the documents that he gave you, was
23 he using the June 30th numbers as well?

24 A. I think the initial -- the initial start of
25 the schedules was the June 30th data. Once we determined

1 A. Yes.

2 Q. And then you made a recommendation as to
3 what you thought would happen in the future, right?

4 A. The recommendation I made is not
5 necessarily what -- and I -- I think I understand your
6 question here, but if I don't understand it, please
7 correct me. That you're asking me if the return on equity
8 that's actually achieved by a company actually is
9 consistent with what I came up with the cost of equity.
10 Is that your question?

11 Q. Yes.

12 A. Well, I think that's -- that's the
13 important thing to understand here. The cost of equity
14 that I arrive at is not necessarily going to be an
15 indication of what the return on equity is going to be. A
16 company can earn more than its cost of equity. It can
17 earn less than its cost of equity.

18 Just because a company earns a return on
19 equity of 18 or 19 percent in one year because the weather
20 was extremely cold doesn't mean that that makes my cost of
21 equity recommendation of 9 percent inaccurate.

22 Q. And when -- tell us, how do you believe
23 that you comply with the Daubert standard in submitting
24 your testimony?

25 A. Can you explain what the Daubert standard

1 is?
2 Q. Have you ever heard of Daubert?
3 A. No.
4 Q. Do you know whether Missouri's a Daubert
5 state or not?
6 A. No.
7 MR. FRANSON: Objection. That calls for a
8 legal conclusion. That is not in his testimony.
9 Therefore, it's --
10 MR. HERSCHMANN: Well, he's got a section
11 on legal. Let me see.
12 MR. FRANSON: Daubert is not mentioned. If
13 it is, point it out and go from there.
14 MR. HERSCHMANN: Doesn't make a difference
15 if it's mentioned or not. You can answer the question.
16 BY MR. HERSCHMANN:
17 Q. You have a section in your testimony for
18 every case that you've submitted testimony on behalf of
19 the Missouri Commission dealing with legal issues, right,
20 legal criteria?
21 A. Yes. Excuse me. Not every testimony.
22 Every major rate case, rate of return testimony.
23 Q. I'm sorry. Have you ever heard of Daubert?
24 A. No, I haven't.
25 Q. Have you ever reviewed the Federal Rules of

1 Evidence?
2 A. No, I haven't.
3 Q. Have you ever looked at any cases dealing
4 with qualifications or basis for submitting expert
5 testimony?
6 A. No, I haven't.
7 Q. Have you ever tested the methodologies that
8 you are using to make sure that they comply with the
9 Supreme Court precedents as it relates to expert
10 testimony?
11 A. No, I haven't.
12 Q. The canned testimony that you've continued
13 to use as to the parameters for selecting proxy groups,
14 what methodology did you use to verify that that is an
15 accepted methodology in this industry?
16 A. The methodology of the discounted cash flow
17 model?
18 Q. Not the discounted cash flow. The issue of
19 the criteria you used to select the proxy group. What
20 methodology did you use to test whether or not that's
21 accepted in this industry?
22 A. You're referring to the criteria that I
23 used to select my comparable companies?
24 Q. Right.
25 A. It's fairly widely recognized that

1 selecting companies that were operating within the same
2 industries, that's why they call it a pure play analysis,
3 is probably the most critical aspect of picking companies
4 that are comparable to the company you're trying to
5 compare them to.
6 Q. Move to strike that as nonresponsive.
7 The question is, what methodology did you
8 use to determine that that is an accepted procedure, the
9 criteria that you used? You list certain criteria, right?
10 A. (Witness nodded.)
11 Q. Is that correct? You have to answer
12 verbally.
13 A. Yes.
14 Q. What methodology did you use under the
15 Supreme Court standard to determine whether or not that's
16 acceptable?
17 A. The methodology is a commonly recognized
18 way to come up with a comparable group is through looking
19 at companies within the same industry. I don't know that
20 you have a scientific methodology for that. It's -- I
21 recall specifically seeing something from a mergers and
22 acquisitions conference where they indicated the No. 1
23 issue to look at when choosing comparable companies is
24 whether a company's in the same industry, because that's
25 the way you determine whether or not they're in an

1 industry that has equivalent business risk and other sorts
2 of risk that are involved with that, such as regulation
3 and things of that nature.
4 I don't think that there's -- there's any
5 scientific issue there as far as understanding that --
6 that that will give you a comparable group of companies.
7 MR. HERSCHMANN: Move to strike that again
8 as nonresponsive. Let me --
9 MR. FRANSON: Well --
10 MR. HERSCHMANN: You can say objection and
11 it's preserved. I mean --
12 MR. FRANSON: Well, hold on. There's also
13 going to be a response here. You have a --
14 MR. HERSCHMANN: If you're going to give a
15 speaking objection, I'm going to ask the witness to step
16 out, or we can take a break and we can make a record and
17 then go forward. I mean, I'm going to get the answer to
18 these questions. We can go about it different ways.
19 MR. FRANSON: That's not what we're talking
20 about.
21 MR. HERSCHMANN: All right.
22 MR. FRANSON: Why don't I --
23 MR. HERSCHMANN: Well, let me -- we'll go
24 on for a second, and then we'll take a break and make a
25 record.

1 MR. FRANSON: No, we aren't going to move
2 on. The problem is --

3 MR. HERSCHMANN: Hold it. Hold it. Let's
4 do this. Let's take a break. You can step out, stop the
5 video, then we can make a record. We don't have to have
6 speaking objections with the witness here. All right?
7 So --

8 MR. FRANSON: Now, wait a minute. Why do
9 you want the witness out? You made all your objections in
10 front of the witness. Why do you want the witness out?
11 What's the purpose of that?

12 MR. HERSCHMANN: Because the rules require
13 that you either make an objection, you can move to strike
14 the testimony, you can state the basis for the objection.

15 MR. FRANSON: That's what I'm trying to do,
16 and that's what you're not allowing me to do.

17 MR. HERSCHMANN: You can say objection
18 form, which is really all you need to do to preserve it.
19 Right? After that, there are no other objections. And if
20 you're going to make a speech as to -- and I don't know
21 what you're going to say yet.

22 MR. FRANSON: That's the problem, you
23 don't.

24 MR. HERSCHMANN: That -- that's why if it's
25 going to be any type of speaking objection, all right,

1 MR. HERSCHMANN: We're doing this pursuant
2 to the federal rules, which are applicable, or to the
3 Missouri rules, which are applicable in depositions. I
4 can pull out the statutes that tells you it's applicable.
5 I'm sure you know that. So we're taking the deposition in
6 compliance with the rules. The rules specifically say
7 what type of objection you can make.

8 MR. FRANSON: Which Missouri rule says
9 that?

10 MR. HERSCHMANN: I think I can get them.
11 Just a minute.

12 MR. FRANSON: What I'm trying --

13 MR. HERSCHMANN: Wait a minute. I'll get
14 them. I have no problem getting the book out.

15 MR. FRANSON: What I'm trying to do is
16 state my objection. I'm not in any way suggesting you
17 can't ask your questions and get answers.

18 MR. HERSCHMANN: Right. Right. If you --

19 MR. FRANSON: But if you would let me
20 finish --

21 MR. HERSCHMANN: Well, I don't -- well, my
22 only concern is I don't know what you're going to say, and
23 normally the objection is to form. Everything else is
24 preserved. Right? So if you want me to, you know, pull
25 out the rules that apply, all right, then I'll pull out

1 then I'm going to excuse the witness. If you want to say
2 objection and want to address it during a break, I'm more
3 than happy to do that.

4 MR. FRANSON: Okay. Is it my turn now?

5 MR. HERSCHMANN: Well, I don't know what
6 you're going to do. If you're going to tell me --

7 MR. FRANSON: That's right.

8 MR. HERSCHMANN: Then let's do this. Let's
9 take a break. We can discuss it off the record and then
10 come back on.

11 MR. FRANSON: No, I don't want to discuss
12 it off the record. I want to discuss it on the record.

13 MR. HERSCHMANN: Well, we can do it on the
14 record. I'm not going to let you make --

15 MR. FRANSON: Then let's do it on the
16 record.

17 MR. HERSCHMANN: Then let's go off the
18 video. We're going to take a break off the video. You
19 can leave the transcript. Can you step out of the room,
20 please?

21 MR. FRANSON: No, he is not going to step
22 out. You seem to have this desire --

23 MR. NIEHAUS: Still on the record?

24 MR. FRANSON: Yeah, I want still on the
25 record.

1 the rules that apply.

2 MR. FRANSON: Okay. At some point is it my
3 turn?

4 MR. HERSCHMANN: Sure. As long as it's not
5 a speaking objection, it's always your turn.

6 MR. FRANSON: Okay. You have made repeated
7 motions to strike based on nonresponsive. The problem I'm
8 having with that is, just because you don't like his
9 answer, that does not mean it's nonresponsive. So what
10 I'm asking is, each time you do that, we can do it one of
11 two ways. one, we can respond at that point, or two,
12 later on we can take it up with the RLJ if you ever offer
13 any or all of this into evidence or anyone else does.

14 But I want it clear that just because you
15 don't like his answer, that does not mean he's not being
16 responsive.

17 MR. HERSCHMANN: Oh, I completely agree
18 with you. I'm doing this solely to preserve the record so
19 if we go to court one day, the court's going to rule upon,
20 whether it be the RLJ level or in -- at the courthouse,
21 we're going to get a ruling from a judge as to whether or
22 not the question I asked and the answer he gave is
23 responsive.

24 It's my subjective view, but I need to
25 preserve the record that way. That's the only way to do

1 it.

2 MR. FRANSON: That's fine.

3 MR. HERSCHMANN: If I had the ability to
4 strike the testimony, I'd strike it left and right. No
5 one's provided me with that authority. So --

6 MR. FRANSON: Okay.

7 MR. HERSCHMANN: *I apologize, then, because*
8 *I didn't understand where you were going. All right. Let*
9 *me just -- a couple questions, and then we'll take a*
10 *break. Okay?*

11 BY MR. HERSCHMANN:

12 Q. Have you read -- well, let's start with
13 Professor Morin. You said there were two textbooks that
14 you primarily rely upon. Do you remember giving testimony
15 in the 2001 case, you said Professor Morin's testimony
16 and -- I'm sorry -- Professor Morin's book and there was
17 another book. Do you remember the name of that?

18 A. Yes. It was David Parcell's book, *The Cost*
19 *of Capital, A Regulatory Practitioner's Guide.*

20 Q. Do either one of those primary sources use
21 the criteria that you list in your testimony as to how to
22 select comparable companies?

23 A. I don't recall if there's any as far as the
24 specifics. I do believe that within those textbooks it
25 refers to selecting companies within the same industry.

1 order to be able to review and determine what's
2 appropriate within a growth rate. If you have a new
3 company, then the information that you have is fairly
4 limited.

5 Now, as far as how they specifically
6 address that in the textbook, I don't recall.

7 Q. Have you ever seen any textbook that have
8 used the criteria that you've used in your testimony here
9 to select the comparable companies?

10 A. All these criteria?

11 Q. Yes.

12 A. In their entirety? I don't recall
13 specifically anything where it sets out the specific
14 criteria I have here.

15 Q. And is it accurate that you just adopted
16 this criteria from what was given to you in the prior
17 prepared testimony, or at least most of the criteria?

18 A. Part of it. I believe I added something as
19 far as the capitalization. This is adopted from testimony
20 that I wrote in the last MGE rate case. I don't see that
21 it's inappropriate. I think it's very appropriate
22 criteria and continues to be pertinent to the case at
23 hand.

24 Q. I understand that's your opinion. What I'm
25 trying to understand is whether or not you made any effort

1 That is one thing I recall that's extensively throughout
2 both of those textbooks, whether or not it's -- if it's a
3 natural gas company, whether or not it's in the natural
4 gas industry; if it's an electric company, whether or not
5 it's within the electric industry. I think you'll find
6 that within that textbook there's quite a few references
7 to using, you know, those type of companies as comparable
8 companies.

9 Q. You repeated several times that it'd be in
10 the natural gas industry, and I know that you've been
11 deposed previously as to whether or not these criteria
12 have anything to do with comparable risks. Do you
13 remember that?

14 A. Yes.

15 Q. And I think it's three times now that
16 you've said that they're in the natural gas industry.
17 Other than being in the natural gas industry, are there
18 any other criteria that you used that have been accepted
19 by either Parcell or Professor Morin?

20 A. I don't recall. They may -- they may have
21 a couple of them as far as the capitalization less than
22 5 billion; of course, not that specific amount. They may
23 have something in there. Whether or not there's enough
24 information available, obviously that's something that any
25 analyst has to -- you have to have enough information in

1 to validate the criteria that you've used based on
2 accepted methodologies in the regulatory finance by either
3 using Professor Morin, Professor Parcell or any other
4 recognized expert in the industry?

5 A. I think this might help with the --

6 Q. I'm sorry.

7 A. -- with the iss-- well, could you define
8 methodology? You keep on saying regulatory methodology.
9 Please define methodology. What do you mean by
10 methodology?

11 Q. Did you use -- well, withdrawn.

12 Did you use any type of methodology in your
13 testimony in this case?

14 A. Yes, I did.

15 Q. Okay. What methodology did you use?

16 A. The methodology I used incorporates many
17 things as far as all the cost of capital models that I
18 used, the criteria I used to select comparable companies,
19 the various ways of estimating growth rates within the
20 discounted cash flow model, the evaluation of the current
21 interest rate environment.

22 There are many things. This is not
23 something you can narrow down to one specific thing that
24 is a methodology that encompasses the entire cost of
25 capital analysis. There are many things that come into

1 play.

2 And picking comparable companies based on
3 the fact that they're in the same industries is entirely
4 appropriate and probably the most important criteria to
5 use, which I'd like to add that the subset of my
6 comparable companies is within Mr. Dunn's comparable
7 companies.

8 Q. Did you consult with Mr. Dunn before you
9 gave your testimony?

10 A. No. I read his testimony.

11 Q. And the criteria that you've used you used
12 over and over again -- withdrawn.

13 You said when you wrote the testimony in
14 2001 you used this criteria, and previously you told us
15 that you got the testimony from someone else and the
16 criteria were already there, right?

17 A. Yes.

18 Q. So you didn't create these criteria out of
19 the blue yourself, someone else handed it to you, meaning
20 Mr. Bible, right?

21 A. I confirmed that they were appropriate. I
22 don't -- I don't write testimony unless I'm comfortable
23 with the criteria that's used.

24 Q. Now, you've said now I think it's five
25 times that the companies in the same industry, and

1 the debt at Panhandle was -- was less costly than actually
2 the debt at the gas distribution level. I believe one of
3 the concerns within the Panhandle acquisition was whether
4 or not there was going to be any increased cost of capital
5 that's going to result from that acquisition being
6 attempted to be passed on to the MGE ratepayers.

7 Q. And you didn't want that to happen, right?

8 A. No. I think it's inappropriate for that to
9 happen.

10 Q. You wanted Panhandle to be segregated,
11 right?

12 A. We attempted to have Panhandle segregated.

13 Q. And eventually Staff signed a stipulation,
14 right?

15 A. I don't think we agreed that it was
16 segregated.

17 Q. Are you saying that Staff signed a
18 stipulation reaching an agreement with Southern Union that
19 was then so ordered by the Missouri Commission and you
20 didn't agree with the terms that were part of it?

21 A. I submitted testimony and there was a
22 Stipulation & Agreement that was achieved. Obviously
23 there's individuals that are in charge that decide what's
24 appropriate for a Stipulation & Agreement. There are many
25 times there are things that are in Stipulation & Agreement

1 Mr. Dunn actually used all the companies that are in the
2 natural gas LDC industry, right?

3 A. I'd say he used companies that are actually
4 not just natural gas distribution, they're -- they have
5 some nonregulated, more so -- more nonregulated in his
6 comparable companies than are in my comparable companies.
7 That would explain why the business risk profile in some
8 of his companies is higher than what a typical natural gas
9 distribution company is.

10 Q. Do you recall submitting testimony in
11 relationship to Southern Union's acquiring Panhandle?

12 A. Yes.

13 Q. Were you truthful in that testimony?

14 A. Yes.

15 Q. Did you review that testimony with other
16 members of the Missouri Staff prior to submitting it?

17 A. Yes, I did.

18 Q. Anything in that testimony that you now
19 realize was completely incorrect?

20 A. I don't know if there's anything in there
21 that was completely incorrect. Not that I recall.

22 Q. Was there anything that you've changed your
23 testimony saying, I've looked at it now and I was wrong
24 when I said these things?

25 A. Well, I was surprised to find that the --

1 that -- that I don't necessarily -- you know, that aren't
2 part of my issues. So, I mean, there's been confirmation
3 that there's not separation of Panhandle and Southern
4 Union.

5 Q. Make sure we're clear. Do you disagree
6 with the terms of the stipulation that was signed by the
7 Staff and Southern Union and then ordered by the
8 Commission? Are there terms of that stipulation that you
9 disagree with?

10 A. There were compromises made. I'm not
11 saying that I disagree with them. I'm saying there's
12 compromises that are made in any type of Stipulation &
13 Agreement.

14 Q. And you told us previously that there is no
15 claim that Southern Union or MGE have violated any
16 agreements or orders with the Missouri Commission or
17 Staff, right?

18 A. Not as of this point in time, no.

19 Q. Is Panhandle's debt nonrecourse to Southern
20 Union?

21 A. Yes, it is.

22 Q. Do you have any reason to believe that
23 that's been changed, that the debt that is now passed on
24 to Southern Union can affect MGE customers?

25 A. The -- the debt is rec-- nonrecourse. That

1 doesn't mean that there isn't any possibility of impact on
2 MGE's customers in the future.

3 Q. Do you have a reason to believe that
4 nonrecourse debt is going to impact MGE's customers in the
5 future?

6 A. If -- the debt itself being nonrecourse is
7 really not the issue. As I explained in my testimony, at
8 one time Southern Union had a business risk profile of
9 three. Panhandle on a stand-alone basis had a business
10 risk profile of five. Now on a consolidated basis, the
11 business profile of Southern Union on a consolidated basis
12 is now a four.

13 Now, if that's happened, then because of
14 the fact that Southern Union consolidated, which includes
15 MGE, has a higher business risk profile, the credit rating
16 agencies are going to require more stringent financial
17 ratios in order for Southern Union, which includes MGE, to
18 maintain any specific credit rating.

19 So yes, it is having an impact on the way
20 Southern Union is going to be able to finance MGE's
21 operations.

22 Q. What's the basis for that statement?

23 A. Standard & Poor -- my review of Standard &
24 Poor's analysis.

25 Q. How often do you personally consult with

1 that's correct.

2 Q. What is your definition of nonrecourse?

3 A. If Panhandle should go bankrupt, then the
4 debtholders of -- of the Panhandle debt cannot go after
5 Southern Union's assets if bankruptcy should occur.

6 Q. What are the priorities that you understand
7 to exist in a bankruptcy proceeding as it relates to debt,
8 common equity, preferred stock, bondholders? What's your
9 general understanding?

10 A. Obviously the common stockholders are last
11 in line. Then comes preferred, depending on what type of
12 preferred. There's some hybrids out there nowadays. I
13 believe Southern Union had some TOPrS, which is a -- it's
14 a hybrid. So that would be more or less classified as
15 debt, and more subord-- that would be subordinate to the
16 senior debt. And then comes debt, as far as within the
17 context of a bankruptcy proceeding.

18 Q. You mentioned TOPrS. What do you
19 understand TOPrS to be? What does the acronym stand for?

20 A. Trust obligated preferred securities. It's
21 something that I believe Enron initiated back in the early
22 '90s. They were one of the first ones to use the
23 security, and it was a way to issue a security that had
24 the characteristics of debt, the tax deductibility of
25 debt, but at the same time it was receiving some weight as

1 anyone at Standard & Poor's?

2 A. It depends. It's just if there's specific
3 questions on maybe a research report or -- or maybe some
4 issues we have going on with a case. Once every few
5 months.

6 Q. Who do you talk to at Standard & Poor's?

7 A. I don't talk to any one consistent analyst,
8 because obviously there's various analysts that follow
9 companies. I believe I've talked to Judith Waite at one
10 time. I've talked to -- some of these names, I'm
11 just -- are not coming to mind. I know there's one that I
12 talk to more often than not, and for whatever reason, his
13 name's not coming to mind.

14 Q. Has anyone from Standard & Poor's told you
15 testimony that you just gave us or is that your
16 interpretation of their change in risk profile?

17 A. It's documented within Standard & Poor's
18 reports.

19 Q. So this is not your opinion, you're just
20 telling us what you think Standard & Poor's says?

21 A. I'm telling you what I know what Standard &
22 Poor's says.

23 Q. But you didn't write any commentary on
24 that, you're reading someone else's stuff and you're --

25 A. Yes. I'm relying on their commentary,

1 equity with credit rating agencies.

2 Q. You understand that TOPrS is trust
3 originated preferred securities?

4 A. Trust originated preferred securities,
5 correct. And it goes by quite a few different names, just
6 like some of these other trade-type financings, there's --
7 sometimes it's hard to narrow down because there's all
8 sorts of names for them.

9 Q. Do you understand that Merrill Lynch
10 created TOPrS, not Enron?

11 A. Enron used it. I don't know that Merrill
12 Lynch -- I mean, if they created it, I don't know.

13 Q. Do you know if the Missouri Commission ever
14 considered whether TOPrS are debt or equity?

15 A. I believe they did.

16 Q. What did they determine?

17 A. They determined it was equity.

18 Q. You said that Southern Union and Panhandle
19 were not segregated. What do you mean by that? In what
20 way are they not segregated?

21 A. For all intents and purposes, their
22 operations are, you know, considered part of the corporate
23 family. I've seen some comments with Standard & Poor's
24 that indicates that cash is going to flow freely between
25 Panhandle and Southern Union because it is an integral

1 part of the business. There really isn't anything
2 specifically separating the two, which is evidenced by the
3 fact that they have the same credit rating and Standard &
4 Poor's have said that they will continue to have the same
5 credit rating because they view it as a consolidated
6 enterprise and the credit risk of one is the same as the
7 credit risk of another, and because of the fact that they
8 feel that management will pay the debt service at Southern
9 Union or Panhandle in however way it can, regardless where
10 the money comes from.

11 Q. Can Southern Union guarantee any of
12 Panhandle's obligations?

13 A. I believe that was a condition in the
14 merger case where it was said that we would not allow them
15 to.

16 Q. And did Southern Union agree to that
17 condition?

18 A. It's in the Stipulation & Agreement, so I
19 believe that's the case.

20 Q. So are you now saying that Southern
21 Union -- it's your testimony that Southern Union intends
22 to violate that agreement?

23 A. I'm indicating what Standard & Poor's says,
24 that if there's -- if the management needs to do it, they
25 will -- cash will go to pay the debt service at -- at

1 MR. FRANSON: At some point here in the
2 next few minutes, could we take a break?

3 MR. HERSCHMANN: Sure. Literally I'm
4 almost there.

5 THE WITNESS: Let me back up. You wanted
6 to know one other -- one other person I talked to at
7 Standard & Poor's, Todd Shipman. I don't know why I just
8 thought about that, but I did.

9 BY MR. HERSCHMANN:

10 Q. Not a problem. Thank you. Todd Shipman?

11 A. Todd Shipman.

12 Q. So -- we're almost at a break. I apologize
13 we've gone this long.

14 Now, you said the investors are the whole
15 range. You mean shareholders, bondholders, preferred
16 stock, the full range of investors, right?

17 A. Anybody that invests capital into the
18 company, that's correct.

19 Q. And when S&P gives a credit rating, what
20 are they taking about?

21 A. They're talking about the creditworthiness
22 of the company as far as its ability to meet the interest
23 expense on the debt outstanding.

24 Q. And when you have a credit rating, they
25 rate your debt, right?

1 Panhandle or Southern Union.

2 Q. I want to make sure I'm very clear on this.
3 Are you now saying that Standard & Poor's says that if
4 Panhandle goes into bankruptcy, Southern Union is going to
5 violate an Order of this Missouri Commission to which the
6 Staff had stipulated and signed an agreement with Southern
7 Union based on what S&P says?

8 A. I'm not saying that they will violate. I'm
9 just indicating that this is what Standard & Poor's sees
10 as far as when they evaluate the creditworthiness of the
11 company.

12 Q. Did you ever contact S&P and tell them, by
13 the way, while I'm talking to you, you said this, but are
14 you aware of the order and the stipulation that says
15 Southern Union is prohibited from doing it and has agreed
16 not to do it?

17 A. No, I haven't talked to them specifically
18 about that.

19 Q. Do you recall that the Supreme Court talks
20 about balancing the interests of customers and investors?

21 A. Yes.

22 Q. What do you understand investors to be?

23 A. Investors can be the whole range, your debt
24 investors, your equity investors, your preferred stock
25 investors, the whole gambit.

1 A. They can rate specific debt issuances.
2 They also have a corporate credit rating which evaluates
3 the overall creditworthiness of the company.

4 Q. And Southern Union's BBB credit rating --
5 withdrawn.

6 What is the rating on Southern Union's
7 debt?

8 A. Right now it's BBB with S&P.

9 Q. And do you agree that the stipulation and
10 order from the Missouri Commission forbids the flowing of
11 cash freely between the Panhandle and Southern Union
12 entities?

13 A. I believe there was a condition that
14 referred to restrictions on cash down to Panhandle, not
15 necessarily cash up from Panhandle.

16 Q. And you have no reason to believe, sitting
17 here today, that Southern Union has or will violate that
18 agreement, right?

19 A. I don't have any evidence that they
20 violated.

21 Q. Or that they will do it, right?

22 A. I don't know if they will violate it.

23 Q. Do you have any evidence?

24 A. I don't have any evidence. I mean,
25 obviously if it is violated in the future, that would have

1 to be determined at that point in time.
2 Q. Right. I'm asking you, sitting here today,
3 do you have any evidence that Southern Union intends to
4 violate any provisions of the agreement?
5 A. No, I don't have any evidence that Southern
6 Union intends to violate that provision.
7 MR. HERSCHMANN: Why don't we take a break?
8 MR. NIEHAUS: We're going off the record at
9 10:30 a.m. Off the record.
10 (A BREAK WAS TAKEN.)
11 MR. NIEHAUS: We're back on the record at
12 11:04 a.m.
13 BY MR. HERSCHMANN:
14 Q. Before we broke -- and, again, I apologize
15 for the exchanges that counsel and I have had, and we've
16 agreed not to talk over each other -- you mentioned seeing
17 Professor Morin's book that I had sitting here, and you
18 told us earlier that you had read his book; is that right?
19 A. Yes.
20 MR. HERSCHMANN: Can you mark this, please,
21 as Exhibit 2?
22 (MURRAY EXHIBIT NO. 2 WAS MARKED FOR
23 IDENTIFICATION BY THE REPORTER.)
24 BY MR. HERSCHMANN:
25 Q. Can you take a look, just take a moment to

1 read Murray Exhibit 2 to yourself.
2 MR. FRANSON: Mr. Herschmann, this Murray
3 Exhibit 2, besides having some information about
4 Dr. Morin, has other things in the background, various
5 equations and things like that.
6 MR. HERSCHMANN: I'll show you the book.
7 That's what --
8 MR. FRANSON: Oh, okay. So it is actually
9 the back cover of the book. Okay. Thank you.
10 MR. HERSCHMANN: So the record is clear --
11 MR. FRANSON: That's what I needed to know.
12 MR. HERSCHMANN: -- what Murray Exhibit 2
13 is is a photocopy of the back portion of this book that
14 was published in 1994.
15 THE WITNESS: It's fun rate of return type
16 of equations. That's what's on the back, for purposes of
17 the record. Yes, I've read it.
18 BY MR. HERSCHMANN:
19 Q. And would you agree that Dr. Mor-- I'm
20 sorry -- Professor Morin is an expert on regulatory
21 finance?
22 A. I believe he's an authoritative figure,
23 that's correct.
24 Q. And do you believe Professor Morin to be
25 one of the leading authoritative figures in the country on

1 regulatory finance?
2 A. He's one of the most widely quoted, that's
3 correct.
4 Q. And you've testified previously that you
5 read his book and relied upon it, right?
6 A. I've read his book and relied on portions
7 of his book.
8 Q. Anything in Professor Morin's book that you
9 deem to be incorrect?
10 A. I've had disputes with some of his
11 judgments on the discounted cash flow model and whether or
12 not it deserves an upward or a downward adjustment because
13 of some contradictions I found within his book.
14 Q. You're not a professor of finance, right?
15 A. No, I'm not.
16 Q. You don't lecture at any universities,
17 right?
18 A. No, I don't.
19 Q. You're not -- you've never lectured on
20 finance for the regulatory industry at the Center for the
21 Study of Regulatory Industry, right?
22 A. No, I haven't.
23 Q. Do you have a bachelor's degree in
24 electrical engineering?
25 A. No, I don't.

1 Q. Do you have a Ph.D. in finance?
2 A. No, I don't.
3 Q. You haven't lectured at Wharton, right?
4 A. No, I haven't.
5 Q. You haven't lectured at Dartmouth College,
6 right?
7 A. No.
8 Q. You don't give any seminars on regulatory
9 finance, right?
10 A. No.
11 Q. You haven't written any articles about it,
12 right?
13 A. No.
14 Q. Have you been quoted in any regulatory
15 finance periodicals or books as being an authoritative
16 figure?
17 A. Not that I'm aware of.
18 Q. Have you ever been qualified as an expert
19 in any court in the country?
20 A. I've been qualified as an expert in front
21 of the Missouri Public Service Commission, but not -- I
22 haven't testified in court.
23 Q. Okay. Let me -- please listen to my
24 question carefully, then. With all due respect, I move to
25 strike the last part -- the last answer as not responsive.

1 Has any court, any judge sitting in a
2 courtroom, either state or federal level, designated you,
3 admitted you as an expert witness?
4 A. Not in court, no.
5 Q. Did you ever read Dr. Morin's earlier
6 treatise on the cost of capital that was published in
7 1984?
8 A. Maybe portions of it.
9 Q. Where did you obtain that version of the
10 book?
11 A. We had that in our department as well.
12 Q. Have you ever acted as an -- withdrawn.
13 Have you ever submitted any testimony on
14 behalf of any companies previously?
15 A. No, I have not.
16 Q. Have you ever appeared before any other
17 commissions other than the Missouri Commission?
18 A. No, I have not.
19 Q. Do you ever receive any calls for any
20 consultation from any regulatory agencies asking for your
21 opinion on rates of return?
22 A. Not specifically on rates of return, no.
23 Q. And it's your testimony that things that
24 are contained in Dr. Morin's book that you've acknowledged
25 as one of the leading cited treatises in the country you

1 disagree with?
2 A. There's a contradiction, yes, there is.
3 Q. Did you ever contact Dr. Morin to inform
4 him that you disagree with what he says?
5 A. No.
6 Q. Did you ever send any letters to the
7 publishers to say that Dr. Morin is wrong?
8 A. No.
9 Q. Have you ever heard any court rule that
10 Dr. Morin's application of the information as contained in
11 his book is inaccurate?
12 A. I'm not aware of such.
13 Q. Did you determine that Dr. Morin was wrong
14 back in 2001 when you submitted your testimony in this
15 case?
16 A. No.
17 Q. Now, you told us previously that in
18 preparing your testimony you consulted with the two
19 attorneys that were here, right?
20 A. Yes.
21 Q. And you spoke to Mr. Schwarz, right?
22 A. Yes.
23 Q. And can you tell us what you discussed with
24 each of the attorneys about your testimony?
25 MR. FRANSON: Objection as to

1 attorney/client.
2 MR. HERSCHMANN: Are you instructing him
3 not to answer?
4 MR. FRANSON: On that question, yes, I am.
5 BY MR. HERSCHMANN:
6 Q. Let me see if I can break it down. What
7 did you discuss with Mr. Schwarz -- withdrawn.
8 Mr. Schwarz is one of the attorneys at the
9 Commission, right?
10 A. Yes, he is.
11 Q. What did you discuss with Mr. Schwarz as it
12 relates to the submission of your testimony in this
13 matter?
14 MR. FRANSON: Objection, and the witness is
15 directed not to answer on the basis of attorney/client
16 privilege.
17 BY MR. HERSCHMANN:
18 Q. Did you discuss -- well, withdrawn.
19 Did you provide drafts of your submitted
20 prepared testimony to any attorneys for review prior to
21 submission?
22 A. Yes, I did.
23 Q. And which attorneys did you provide it to?
24 A. Mr. Bob Berlin, Mr. Robert Schallenberg,
25 Mr. Tim Schwarz.

1 Q. Is Mr. Schallenberg an attorney?
2 A. Did I say Mr. Schallenberg?
3 Q. Yes.
4 A. I'm sorry. I meant Mr. Robert Franson.
5 Q. And did you receive comments back from any
6 of the attorneys on your testimony?
7 A. Yes, I did.
8 Q. Did you adopt those comments into your
9 testimony?
10 MR. FRANSON: Objection as to
11 attorney/client, and the witness is directed not to answer
12 that question.
13 BY MR. HERSCHMANN:
14 Q. You mentioned previously that in
15 relationship to Panhandle, there's the potential that it
16 could affect MGE customers. Do you remember that
17 testimony?
18 A. Yes.
19 Q. And did you mean that it could affect MGE
20 customers in relationship to rates?
21 A. Yes.
22 Q. How do rates get imposed in the state of
23 Missouri?
24 A. I don't understand your question.
25 Q. Well, can MGE just increase their rates if

Page 78

1 they wanted to?
2 A. Unilaterally?
3 Q. Right.
4 A. No.
5 Q. Do they actually have to file an
6 application with the Missouri Commission?
7 A. Yes, they do.
8 Q. And then do Staff become a party to that
9 proceeding?
10 A. Yes, we do.
11 Q. Does the Office of the Public Counsel
12 become a party to the proceeding?
13 A. Typically they do. Yes, they do.
14 Q. Is there potential for other parties to
15 intervene and join the matter?
16 A. Yes.
17 Q. And then after that occurs, does the
18 Missouri Commission make a decision whether or not to
19 authorize an increase in rates?
20 A. If it proceeds to hearing and goes through
21 the full litigation process, that's correct.
22 Q. So if, for argument's sake, you were right
23 that S&P's statement that cash will flow freely between
24 Panhandle and Southern Union and it would impact Missouri
25 ratepayers, Southern Union would have to go back to the

Page 80

1 Commissioners themselves are going to allow Southern Union
2 to disregard the Commission's order as it relates to
3 Southern Union's acquisition of Panhandle?
4 A. No, I do not.
5 Q. Now, when you selected your proxy group,
6 you pulled information from 2002; is that right?
7 A. For the -- yeah, for selection of the
8 criteria. Let me just refer to my testimony here.
9 Q. Sure.
10 A. Actually, the information in order to -- to
11 determine the comparable group was based on the natural
12 gas industry summary from Edward Jones as of
13 December 31st, 2003. So that, you know, is not
14 necessarily 2002 calendar year information.
15 Q. When you took the five-year averages, and
16 if you look at Schedule 15-2, you selected that from 1997
17 and 2002, right?
18 A. Yes.
19 Q. And were the 2003 financial numbers
20 available to you as of April 15th of 2004?
21 A. I didn't do my study as April 15, 2004.
22 That's the date the testimony was filed. The time the
23 study was being performed, the only information that we
24 had at our disposal was ValueLine's rating reports as of
25 December 19, 2003.

Page 79

1 Missouri Commission to get approval, right?
2 Let me withdraw that question. That wasn't
3 clear. I apologize.
4 You told us that S&P has said that cash
5 will flow freely between Panhandle and Southern Union,
6 right?
7 A. Yes.
8 Q. And you told us you had a concern that
9 Missouri ratepayers may be impacted negatively by Southern
10 Union's investment of Panhandle, right?
11 A. That's a possibility, yes.
12 Q. And the only way that the ratepayers can be
13 impacted negatively is if the rates go up, right?
14 A. I disagree with that.
15 Q. Well, let's talk about on a financial
16 basis. If Southern Union -- withdrawn.
17 If MGE wants to charge more money to
18 Missouri ratepayers, they have to get permission, right?
19 A. Yes.
20 Q. And the Missouri Commission can say no,
21 right?
22 A. Yes.
23 Q. And they can get no increase, right?
24 A. It's a possibility, yes.
25 Q. Do you have any reason to believe that the

Page 81

1 Q. Do you know whether or not -- or how many
2 weeks before your testimony was submitted that 2003
3 numbers came out?
4 A. I don't recall.
5 Q. If the 2003 numbers were available several
6 weeks before you submitted your testimony, was there a
7 reason you didn't use 1998 to 2003?
8 A. The study had already been performed. I
9 didn't see any reason to -- I don't know if it was
10 available or not. A lot of times the information that is
11 available is estimates because the annual reports that are
12 filed by the companies can be fairly late in the game and
13 when we're already doing our analysis.
14 Q. If the 2003 information was available and
15 that would drastically change the numbers contained on
16 Schedule 15.2 and forward, would that cause you any pause
17 in changing your recommendations?
18 A. No.
19 Q. When you did the 1997 to 2002, did you take
20 the numbers in 1997 and the numbers in 2002, or did you
21 use the data for all the preceding -- succeeding years?
22 Do you understand my question?
23 A. I don't understand your question.
24 Q. Sure. When you took the annualized
25 compound growth rates, did you take the numbers in 1997

1 and the numbers in 2002 and then determine what the growth
2 rate is, or did you take 1997, 1998, 1999, 2000, 2001 and
3 then 2002?

4 A. What you're referring to is -- and I'm
5 going to kind of add some words to what you -- the
6 question you asked. What you're referring to is an
7 arithmetic average, I believe, of 1997, 1998, 1999, 2000,
8 2001, 2002. If you're doing an arithmetic average, you
9 would be looking at all those specific dates.

10 I'm using a compound average which looks at
11 the beginning and the ending point, which determines a
12 compound growth rate for that period of time. So I don't
13 know if you understand exactly what I just explained to
14 you, but I believe that gets to the heart of your
15 question.

16 Q. So the answer would be, you looked at the
17 information in 1997 and 2002 and then made your
18 calculations, right?

19 A. That's how you calculate a compound growth
20 rate, yes.

21 Q. And did you ever look at the information in
22 '98 or '99 or one of the intervening years to see whether
23 there were any anomalies during those years that may
24 impact your calculations?

25 A. No. And let me just clarify something.

1 You said any information within 1998 through 2001. If
2 there were anomalies within that data, that's not going to
3 affect that compound growth rate. That compound growth
4 rate is based on 1997 and 2002, as you just indicated.

5 Q. And is it then accurate that you looked at
6 five years and ten year datas and then averaged the five
7 year and ten year datas together?

8 A. Yes.

9 Q. In some portion of your testimony you talk
10 about attempting to back out Panhandle from Southern
11 Union. Do you recall that?

12 A. I recall that. I don't recall the specific
13 page.

14 Q. I think it's going to be page 22.

15 A. Starts at 21.

16 Q. Start at 21, exactly right. Thank you.

17 A. I recall that, and I see it now.

18 Q. Can you tell us what methodology you used
19 to back out Panhandle from Southern Union?

20 A. Quite simple. I just looked at the
21 Southern Union's balance sheet as of December 31st, 2003,
22 which could be an annual report or a response to a Data
23 Request from us, the Staff. And then I just looked at
24 Panhandle's 10K, which was filed at the SEC as of
25 December 1st, 2003.

1 And when I reviewed that, I realized that
2 Southern Union was attributing 646,818,000 common equity
3 to Panhandle's operations, along with the assumed debt of
4 1.205 billion -- that's a round figure -- of long-term
5 debt, which includes current maturities on that debt.

6 And then in order to determine what the
7 capital structure may be if you excluded Panhandle, you
8 would have to take both of these items out. And that was,
9 like I said, specifically within the 10K filed with the
10 SEC by Panhandle itself. So I have no reason to dispute
11 the accuracy of those numbers.

12 Q. Are you a CPA?

13 A. No, I'm not.

14 Q. The methodology that you just described,
15 does that conform to Generally Accepted Accounting
16 Principles?

17 A. I don't know.

18 Q. Did you consult with anyone at the Missouri
19 Commission to find out whether your proposed methodology
20 had anything to do with GAAP?

21 A. Not specifically with GAAP. I talked about
22 the process that I did with a couple of people.

23 Q. Who did you discuss it with?

24 A. Bob Schallenberg.

25 Q. What did Mr. Schallenberg tell you?

1 A. He seemed to think it was appropriate,
2 being that it was SEC financial statements and that's the
3 equity that Panhandle would -- associates with -- or
4 excuse me -- Southern Union associates with Panhandle,
5 which is very close to the purchase price above and beyond
6 the assumed debt. So it's only reasonable to assume that
7 that's the equity that is associated with Panhandle.

8 Q. When you say it's only reasonable to
9 assume, you're saying that as a layperson, right, not as
10 an accountant?

11 A. No, I'm not an accountant.

12 Q. So you don't have any expertise to provide
13 in relationship to whether or not that is in conformity
14 with the Generally Accepted Accounting Principles, right?

15 A. I don't have accounting expertise, but it's
16 just something that, if you're going to exclude
17 Panhandle's operations, there's obviously equity
18 associated with that, with its -- you know, with the
19 financing of that -- of that operation, which is proven by
20 the fact that Southern Union paid cash above and beyond
21 the assumed debt. I mean, what else would you call that?

22 Q. Well, obviously I'm not an accountant. So
23 what I'm trying to get at, this is your layperson's
24 opinion as to how you should go about doing that?

25 A. This is my financial analysis expert

Page 86

1 opinion.

2 Q. Did you just become an accountant in the
3 last question?

4 A. No. I said this is my financial analysis
5 expert opinion. I'm a financial analyst.

6 Q. Are you telling us that, as a financial
7 analyst, you have the expertise to determine the proper
8 way under accounting principles to back out Panhandle from
9 Southern Union's consolidated capital structure?

10 A. I'm saying from a financial analyst
11 perspective, I realize that any time an acquisition is
12 made, some of that includes debt, some of that includes
13 equity. And this 646,818,000 of common equity closely
14 approximate the cash price paid for Panhandle of
15 662 million. So just from analyzing the numbers, which is
16 what financial analysts do, this seems quite appropriate,
17 and it's also -- the equity is filed with the SEC in the
18 10K.

19 Q. If it turns out that your process is
20 completely wrong under accounting principles, does that
21 change your opinion at all?

22 A. I'd have to see what -- what you think is
23 wrong with it.

24 Q. It wouldn't be from me, sir. I'm asking if
25 it turns out that GAAP says your process is completely

Page 88

1 MR. FRANSON: Objection, because again
2 attorney/client privilege.

3 MR. HERSCHMANN: You're going to again
4 instruct him not to answer that?

5 MR. FRANSON: He's again instructed not to
6 answer.

7 BY MR. HERSCHMANN:

8 Q. Do you recall making an adjustment in your
9 testimony of 32 basis points in relationship to MGE?

10 A. Yes, I did.

11 Q. What were you trying to adjust for when you
12 made that calculation?

13 A. The risk differential between MGE and the
14 comparable companies.

15 MR. HERSCHMANN: Can we just take a
16 one-minute break?

17 MR. NIEHAUS: We're going off the record at
18 11:28 a.m. Off the record.

19 (A BREAK WAS TAKEN.)

20 MR. NIEHAUS: We're back on the record at
21 11:39 on Tape 2.

22 BY MR. HERSCHMANN:

23 Q. Mr. Murray, when we were talking about you
24 using the 2002 data and I asked you if the 2003
25 information was available, would you update your

Page 87

1 wrong, would that change your opinion?

2 A. No, because I think this is the equity
3 associated with Panhandle.

4 Q. And you're as sure of that answer as
5 everything else you've put in your testimony, right?

6 A. Yes.

7 Q. Can you tell us for each of the attorneys
8 that reviewed your testimony exactly what changes they
9 suggested to you? First question.

10 MR. FRANSON: Objection, attorney/client
11 privilege, and the witness is directed not to answer that
12 question.

13 BY MR. HERSCHMANN:

14 Q. Can you tell us, did you adopt any of the
15 attorneys' changes in your testimony prior to submitting
16 it in this case?

17 MR. FRANSON: Same objection. And again,
18 the witness is directed not to answer that question.

19 BY MR. HERSCHMANN:

20 Q. Did you ever have any meetings with the
21 attorneys that you've mentioned and any other Staff
22 members at the Commission in relationship to this case?

23 A. Yes, I did.

24 Q. Tell us what was discussed in those
25 meetings.

Page 89

1 calculations if there were some significant changes, the
2 question is, would you make those adjustments?

3 A. No.

4 Q. What is the reason that you would not make
5 adjustments if the information was available to you prior
6 to submitting your testimony?

7 A. Because I reviewed the information I have
8 as far as growth rates and I noticed that the historical
9 and projected were fairly close. And I don't know that,
10 especially when you're doing a proxy group analysis, that
11 there's going to be that much of a difference if you
12 update a few of the historical numbers.

13 I'm not just looking at the historical
14 numbers when I determine what is an appropriate growth
15 rate. And so just because there may be some updated
16 historical information or what have you, I don't know that
17 the -- the growth prospects have fundamentally changed
18 that much.

19 Q. Did you even look at the 2003 numbers prior
20 to preparing your testimony in this case?

21 A. No.

22 Q. Did you discuss with anyone the changes in
23 the economy between 2001, 2002 and 2003?

24 A. We discuss the changes in the economy on a
25 frequent basis within our department as far as the

Page 90

1 financial and the capital markets.
2 Q. Do you think that stocks generally
3 increased between 2002 and 2003 or not?
4 A. They did.
5 Q. Have you discussed the increase in the
6 price of stocks and the overall economy with anyone at the
7 Commission in relationship to your testimony?
8 A. In relation to the testimony, I don't
9 believe so.
10 Q. Did you discuss with Mr. Schallenberg the
11 fact that, hey, if we use the 2003 numbers, all the
12 calculations are going to go up?
13 A. No, I did not.
14 Q. You agree this case is important to MGE,
15 right?
16 A. Yes, I do.
17 Q. It's important to the ratepayers, right?
18 A. Yes, it is.
19 Q. It's important to the Staff of the
20 Commission, right?
21 A. Yes, it is.
22 Q. It's important to the Commissioners
23 themselves, right?
24 A. Yes, it is.
25 Q. And yet you quote information that's from

Page 92

1 MR. HERSCHMANN: Take a lunch break.
2 MR. NIEHAUS: Going off the record at
3 11:43 a.m.
4 (AN OFF-THE-RECORD DISCUSSION WAS HELD.)
5 MR. NIEHAUS: We're back on the record at
6 11:43 a.m.
7 BY MR. HERSCHMANN:
8 Q. I'm sorry. I forgot to ask you this.
9 During the breaks, did you have the occasion to talk to
10 anybody?
11 A. Just talked to them within the room.
12 Q. Okay. Did you talk to anybody about your
13 testimony?
14 A. No.
15 Q. Did you talk to anyone from the Public
16 Counsel's office during the breaks?
17 A. No.
18 MR. HERSCHMANN: Okay. Why don't we take
19 our break?
20 MR. NIEHAUS: We're going off the record at
21 11:44 a.m.
22 (A BREAK WAS TAKEN.)
23 MR. SWEARENGEN: We are finished for today.
24 MR. FRANSON: And does that mean you don't
25 plan to resume this any time soon without notice and

Page 91

1 as recently as 2004 in your testimony, right?
2 A. I do.
3 Q. And yet when it comes to the actual
4 financial numbers that would impact your total
5 recommendations, you didn't make the effort to use the
6 most available financial information, right?
7 A. I used the most available information I had
8 at the time I did the study.
9 Q. ValueLine cut you off in April of 2004?
10 A. ValueLine never cut us off. It was the
11 information we had when we were doing the study.
12 Q. You have access to ValueLine whenever you
13 want, right?
14 A. Yes.
15 Q. You could have access to ValueLine up until
16 the day you submitted your testimony, right?
17 A. Yes, we do.
18 Q. And if ValueLine had come out with more
19 recent numbers prior to your submitting and preparing your
20 testimony, you still didn't make the effort to use those
21 calculations, right?
22 A. No.
23 Q. You're still telling us you complied with
24 Hope and Bluefield, right?
25 A. Yes, I am.

Page 93

1 things like that?
2 MR. SWEARENGEN: Of course not.
3 MR. FRANSON: Okay. That's what I thought.
4 Staff will -- Mr. Murray will waive presentment, but not
5 signature on the written transcript.
6 And I also note Mr. Micheel didn't make it
7 back, but Staff had no redirect. I have no idea whether
8 Mr. Micheel had any questions or not, but that's all I
9 have to say.
10 (PRESENTMENT WAIVED; SIGNATURE REQUESTED.)
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25

Associated Court Reporters
1-888-636-7551

Page 94

1 CERTIFICATE OF REPORTER

2 STATE OF MISSOURI)

) ss.

3 COUNTY OF COLE)

4
5 I, KELLENE K. FEDDERSEN, RPR, CSR, CCR, and
6 Notary Public within and for the State of Missouri, do
7 hereby certify that the witness whose testimony appears in
8 the foregoing deposition was duly sworn by me; that the
9 testimony of said witness was taken by me to the best of
10 my ability and thereafter reduced to typewriting under my
11 direction; that I am neither counsel for, related to, nor
12 employed by any of the parties to the action to which this
13 deposition was taken, and further that I am not a relative
14 or employee of any attorney or counsel employed by the
15 parties thereto, nor financially or otherwise interested
16 in the outcome of the action.
17
18

19 KELLENE K. FEDDERSEN, RPR, CCR
Notary Public, State of Missouri
(Commissioned in Cole County)
20 My commission expires 3/28/05.
21
22
23
24
25

Page 96

1 ERRATA SHEET

2 Witness: David Murray
In Re: MGE Tariffs/GR-2004-0209

3
4 Upon reading the deposition and before subscribing
thereto, the deponent indicated the following changes
should be made:

5
6 Page Line Should read:
7 Reason assigned for change:
8 Page Line Should read:
9 Reason assigned for change:

10
11 Page Line Should read:
12 Reason assigned for change:
13 Page Line Should read:
14 Reason assigned for change:

15
16 Page Line Should read:
17 Reason assigned for change:
18 Page Line Should read:
19 Reason assigned for change:

20
21 Page Line Should read:
22 Reason assigned for change:
23 Page Line Should read:
24 Reason assigned for change:

25
26 Page Line Should read:
27 Reason assigned for change:
28 Page Line Should read:
29 Reason assigned for change:

30
31 Page Line Should read:
32 Reason assigned for change:
33 Page Line Should read:
34 Reason assigned for change:

35 Reporter: Kellene K. Feddersen, RPR, CSR, CCR

Page 95

1 SIGNATURE PAGE

2 STATE OF MISSOURI)

) ss.

3 COUNTY OF COLE)

4
5 I, David Murray, do hereby certify:
6 That I have read the foregoing deposition;
7 That I have made such changes in form and/or
8 substance to the deposition as might be necessary to
9 render the same true and correct;
10 That having made such changes thereon, I hereby
11 subscribe my name to the deposition.
12 I declare under penalty of perjury that the
13 foregoing is true and correct.
14 Executed the ____ day of _____, 2004, at
15 _____
16
17

18 DAVID MURRAY

19 Notary Public:

20 My commission expires:
21 _____
22
23

24 KF/DAVID MURRAY
MGE Tariffs/GR-2004-0209
25

Page 97

1 Midwest Litigation Services
714 West High Street
2 P.O. Box 1308
Jefferson City, MO 65102
3
4 Phone (573)636-7551 * Fax (573)636-9055

5 May 4, 2004

6 Robert Franson
Missouri Public Service Commission
200 Madison Street, Suite 800
7 P.O. Box 360
Jefferson City, MO 65102

8 In Re: MGE/GR-2004-0209

9 Dear Mr. Franson:

10 Please find enclosed your copy of the deposition of David
Murray taken on May 4, 2004, in the above-referenced case.
11 Also enclosed is the original signature page and errata
12 sheet.

13 Please have the witness read your copy of the transcript,
14 indicate any changes and/or corrections desired on the
errata sheet and sign the signature page before a notary
public.

15 Please return the errata sheet and notarized signature
16 page to Mr. Herschmann for filing prior to trial date.
17 Thank you for your attention to this matter.
18 Sincerely,

19
20 Kellene K. Feddersen, RPR, CSR, CCR
21 Enclosure
cc: Eric Herschmann
22
23
24
25

Office only
IN DATE: _____

SENT OUT DATE _____

Job # _____

Reporting Job Sheet

Page: 1 of 1

court memo ☐ yes ☒ no

Reporter: Kellene Feddersen

Videographer: John Niehaus

Today's date: 5-05-04

Date of Job: 5/4/2004

Case #: GR-2004-0209

Case Style: MGE tariffs

Job For: ☐ Taylor ☒ ACR ☐ Spherion ☐ Esquire ☐ Other

Request # 13323

Deposition(s) of/page count: David Murray - 97 pgs.

☒ regular ☐ expert

wait time :

Appearance hrs: 4.5 Miles:

Behalf of: MGE

Signature: ☐ Waived ☒ Read & Sign Sig page to: Franson

☒ Original to: Jim Swearengen

☒ Copy ☒ Condensed ☒ ASCII ☐ e-transcript ☐ email email address eherschmann@kasowitz.com
Office only (Exhibits _____ Video _____ Sent out via _____)

☒ Copy to: Robert Franson

☐ Condensed ☒ ASCII ☐ e-transcript ☐ email email address
Office only (Exhibits _____ Video _____ Sent out via _____)

☐ Copy to:

☐ Condensed ☐ ASCII ☐ e-transcript ☐ email email address
Office only (Exhibits _____ Video _____ Sent out via _____)

☐ Copy to:

☐ Condensed ☐ ASCII ☐ e-transcript ☐ email email address
Office only (Exhibits _____ Video _____ Sent out via _____)

☐ Copy to:

☐ Condensed ☐ ASCII ☐ e-transcript ☐ email email address
Office only (Exhibits _____ Video _____ Sent out via _____)

☐ Copy to:

☐ Condensed ☐ ASCII ☐ e-transcript ☐ email email address
Office only (Exhibits _____ Video _____ Sent out via _____)

Exhibit instructions: attach

Delivery:

☐ Normal ☐ 5 day ☐ 4 day ☐ 3 day ☐ 2 day ☒ 1 day ☐ same day ☐ AM ☐ PM

Expedited by: mGE

Special Instructions: also e-mail to cdodds@watsonbishop.com - complimentary - cocounsel with Swearengen and Herschmann

Special Billing Instructions: Bill Swearengen rough ascii

KELLENE K. FEDDERSEN
1511 Vieth Drive, Jefferson City, MO 65109
kf65109@aol.com

In Re: MGE Tariffs
Cause No. GR-2004-0209
Date of Job: May 4, 2004

Depositions of: David Murray, 97 pages, behalf MGE

BILL TO: Jim Swearengen
Brydon, Swearengen and England
312 East Capitol Ave
P.O.Box 456
JC,MO 65101

97 pgs., Orig. & 1 cc @ \$3.84 (overnight)	pp	\$372.48
Attendance of Reporter		\$67.50
Jurat		\$ 1.00
Rough ASCII		\$72.75
In-house video\$.50pp		\$48.50

TOTAL: \$562.23

.....

BILL TO: Robert Franson
Missouri PSC
200 Madison street, Suite 800
P.O.BOX 360
JC,MO 65102

97 pgs., Copy @ \$.70	pp	\$67.90
	TOTAL:	\$67.90

A	address 13:19 30:16 51:2 56:6 addressed 18:17 addressing 36:15 adjust 88:11 adjustment 22:19 72:12 88:8 adjustments 22:21 89:2,5 admitted 74:3 adopt 77:8 87:14 adopted 56:15,19 affect 61:24 77:16,19 83:3 affects 7:15 affidavit 5:7 after 16:5,6 18:11,12 20:9,22 21:22 28:14 42:20,24 50:19 64:4 78:17 again 14:20 39:11 44:17 49:7 58:12 70:14 87:17 88:1,3,5 agen 39:22 agencies 62:16 65:1 74:20 agency 39:22 ago 5:17 14:1 agree 27:10 32:6 53:17 60:20 66:16 69:9 71:19 90:14 agreed 60:15 67:15 70:16 agreement 60:18,22 60:24,25 61:13 66:18,22 67:6 69:18 70:4 agreements 19:9 61:16 ahead 21:18 44:3 Air 39:24 alerted 36:14 Allen 3:4 6:15,16 20:4 20:9 Allen's 20:4 allow 66:14 80:1 allowing 50:16 almost 68:4,12 along 14:14 84:3 already 43:13 58:16 81:8,13 always 53:5 America 27:12 amongst 36:3 amount 55:22 amounts 22:13 analysis 8:6 24:21	25:25 28:10 37:17 37:20 39:24 48:2 57:25 62:24 81:13 85:25 86:4 89:10 analyst 55:25 63:7 86:5,7,10 analysts 63:8 86:16 analyzing 86:15 and/or 95:7 97:13 anniversary 33:12 announced 43:5 annual 81:11 83:22 annualized 81:24 anomalies 82:23 83:2 another 38:25 39:2,6 54:17 66:7 answer 4:10,12 30:21 32:17 41:7,10 42:15 46:15 48:11 49:17 53:9,15,22 73:25 76:3,15 77:11 82:16 87:4,11,18 88:4,6 answering 4:15 answers 24:15 25:8 52:17 anybody 29:18 37:1 68:17 92:10,12 anyone 6:25 36:24 37:4,12 42:8 53:13 63:1,14 84:18 89:22 90:6 92:15 anything 9:4 11:21,22 20:23 25:18 29:21 32:15 33:6 55:12 56:13 59:18,20,22 66:1 72:8 84:20 anything's 26:2 apologize 17:12 54:7 68:12 70:14 79:3 appeared 43:1 74:16 appears 30:18 94:7 applicable 8:19 52:2,3 52:4 application 75:10 78:6 applied 14:12 applies 24:8 25:8 apply 9:24 13:3 22:7 26:3 52:25 53:1 applying 17:20 appropriate 32:1,7 56:2,21 58:4,21 60:24 85:1 86:16 89:14 approval 79:1 approximate 86:14 approximately 16:8	April 20:16 21:10,14 22:2,6,7 23:1,3,5,7 80:20,21 91:9 area 15:19 areas 12:6 argue 36:4 argument 31:9 argument's 35:21 78:22 arithmetic 82:7,8 arrive 13:8 45:14 arrived 40:8 article 17:4,5,6,11,13 articles 16:25 73:11 asked 29:13 38:5,15 53:22 82:6 88:24 asking 25:2,3,20 29:1 31:20 45:7 53:10 70:2 74:20 86:24 aspect 48:3 assets 64:5 assigned 6:2 15:6 23:15 43:7,9 96:6,7 96:9,10,12,13,15,16 96:18,19,21,22 Assistant 2:16 assisted 15:22 16:1 associated 21:9 22:14 85:7,18 87:3 associates 85:3,4 assume 85:6,9 assumed 44:24 84:3 85:6,21 attached 3:11 41:24 attachment 15:13,18 21:4 attempted 60:6,12 attempting 83:10 attention 33:13 97:17 attorney 2:3,7,11 4:4 31:13,15 77:1 94:14 attorneys 6:2,2 36:13 38:4 75:19,24 76:8 76:20,23 77:6 87:7 87:15,21 attorney/client 76:1,15 77:11 87:10 88:2 attributing 84:2 audit 21:7,8 23:1 August 41:5 Austin 2:12 authoritative 71:22,25 73:15 authority 54:5 authorize 78:19 authorized 34:7,13,16	35:14,18,22 36:2 37:5,12 42:10 available 21:22 22:6,6 23:9 55:24 80:20 81:5,10,11,14 88:25 89:5 91:6,7 Avenue 1:11 2:8 average 82:7,8,10 averaged 83:6 averages 80:15 aware 7:7,10,12 10:4 26:6,9 29:7 33:25 35:3 67:14 73:17 75:12 a.m. 1:9 70:9,12 88:18 92:3,6,21 A1 15:12,18
	B	bachelor's 72:23 back 3:19 8:9 12:2 13:22 14:17,21 15:1 15:2,8 23:24 24:5,13 24:25 26:17 27:16 28:5,20 30:2 37:8 44:6,15 51:10 64:21 68:5 70:11 71:9,13 71:16 75:14 77:5 78:25 83:10,19 86:8 88:20 92:5 93:7 background 71:4 balance 20:8,11 83:21 balancing 67:20 bankrupt 64:3 bankruptcy 64:5,7,17 67:4 Barnes 3:3 6:7 43:8 base 34:1,4 based 8:12 13:25 20:22 22:19,21 23:5 23:7 37:19 44:16 53:7 57:1 58:2 67:7 80:11 83:4 basically 38:19 Basin 31:21 basis 14:20 47:4 50:14 62:9,10,11,22 76:15 79:16 88:9 89:25 BBB 69:4,8 bearing 29:5 become 78:8,12 86:2 before 1:12 4:15 7:21 8:23 10:17,25 11:25 21:4,17 28:9,9 32:5 37:24 39:5 42:12 43:20 58:8 70:14		

74:16 81:2,6 96:3 97:14 beforehand 35:1 beginning 82:11 behalf 9:8 13:13 46:18 74:14 behind 32:6 being 4:1,16 21:16 33:24 43:5,6,10,14 44:7 53:15 55:17 60:5 62:6 73:15 80:23 85:2 believe 15:5,9 16:2 19:19 26:23 29:21 31:20 32:11 41:19 41:25 43:4,15 45:22 54:24 56:18 60:2 61:22 62:3 63:9 64:13,21 65:15 66:13,19 69:13,16 71:22,24 79:25 82:7 82:14 90:9 BENSON 2:4 Berlin 2:16 6:3 38:16 76:24 besides 33:6 71:3 best 30:20 94:9 better 9:6 between 1:9 4:16 27:3 35:5 65:24 69:11 78:23 79:5 88:13 89:23 90:3 beyond 85:5,20 Bi 14:13 Bible 10:17,19 14:11 14:13 25:11 37:21 39:8,17,20 40:8 41:11 42:13,24 43:2 43:12,18 58:20 Bible's 24:17 41:2 billion 55:22 84:4 BISHOP 2:11 bit 9:6 14:25 blue 26:15,22 58:19 Bluefield 9:21 26:15 26:22 29:25 91:24 board 39:5 Bob 6:2,3 38:16,16 76:24 84:24 bondholders 64:8 68:15 book 3:19 16:9,12,14 23:9,11,14,16 31:1,1 31:9,16,22 52:14 54:16,17,18 70:17 70:18 71:6,9,13 72:5	72:6,7,8,13 74:10,24 75:11 books 16:22 18:21 73:15 boss 14:23 37:21 38:22 40:10 both 14:14 55:2 84:8 bounce 38:1 42:23 bounced 42:25 Box 1:15 2:8,17,21 97:2,7 break 49:16,24 50:4 51:2,9,18 54:10 68:2 68:12 70:7,10 76:6 88:16,19 92:1,19,22 breaks 92:9,16 Broadway 2:4 broke 70:14 BROPHY 2:11 Brydon 1:10 2:7 burden 19:3 burden's 19:2 business 49:1 59:7 62:8,9,11,15 66:1 C C 2:1,6 calculate 82:19 calculated 43:13 44:7 calculation 88:12 calculations 15:24 22:8 44:22,25 82:18 82:24 89:1 90:12 91:21 calendar 80:14 call 18:24 48:2 85:21 calls 46:7 74:19 came 7:24 8:2 11:3 13:25 14:4,8 19:24 39:5 41:12 45:9 81:3 canned 40:12 41:12 47:12 capital 13:9 18:8 20:8 21:9 22:9,13,13,15 31:4 37:20 54:19 57:17,25 60:4 68:17 74:6 84:7 86:9 90:1 capitalization 55:21 56:19 Capitol 1:11 2:8 card 39:23 care 7:19 carefully 73:24 CARLSON 2:10 case 1:4 7:9 8:19,20 9:19,21 15:4,22 16:2	21:7 22:3 24:17,23 24:25 25:13 26:3,11 26:24 27:17,25 29:4 29:14,25 31:9,10,16 31:21,21,23,24 32:3 32:4,9,12,16 35:25 36:4,10 40:15 41:18 42:11,22 43:7,10,11 46:18,22 54:15 56:20,22 57:13 63:4 66:14,19 75:15 87:16,22 89:20 90:14 97:11 cases 8:20,22 9:24 10:6,8,25 15:6,6,9 24:2 25:17,22,23 26:3 28:6,8,11,14,16 28:19,21,25 29:1,9 29:19,20,22 31:2,4 31:23 40:17 47:3 cash 12:12 47:16,18 57:20 65:24 66:25 69:11,14,15 72:11 78:23 79:4 85:20 86:14 caught 33:13 43:20 cause 1:20 81:16 cc 97:21 CCR 1:14 94:5,18 96:24 97:20 Center 72:20 certain 36:5 44:24 48:9 CERTIFICATE 94:1 certify 94:7 95:5 change 9:5 38:15,19 63:16 81:15 86:21 87:1 96:6,7,9,10,12 96:13,15,16,18,19,21 96:22 changed 12:13 13:8 26:2 27:23 59:22 61:23 89:17 changes 20:21 22:12 23:3,5 24:18 87:8,15 89:1,22,24 95:7,10 96:4 97:13 changing 81:17 characteristics 64:24 charge 7:8 60:23 79:17 check 29:14 31:13 checking 29:9 31:15 choosing 48:23 CHRISTINA 2:10 Chuck 3:4 circumstances 32:24	citation 31:10 citations 30:25 31:4 cited 29:20,23 31:2,21 32:16 74:25 City 1:11,16 2:9,18,22 97:2,7 claim 19:7 35:2 61:15 claiming 9:14 claims 19:11,14 clarify 82:25 classes 14:4 classified 64:14 cleanup 38:19 clear 22:4 42:7,15 43:5 53:14 61:5 67:2 71:10 79:3 clearly 4:11 close 85:5 89:9 closely 86:13 coached 14:13 cold 45:20 Cole 1:12,19 94:3,19 95:3 colleague 43:8 colleagues 6:4,5 college 11:25 12:5,9 13:2 14:4,18 18:17 28:24 73:5 Columbia 12:17 13:1 come 10:25 38:23 44:12 48:18 51:10 57:25 91:18 comes 20:21,21 64:11 64:16 66:10 91:3 comfortable 58:22 coming 11:6 63:11,13 commentary 63:23,25 comments 65:23 77:5 77:8 commission 2:14 6:23 11:1,3,6 16:6,17 19:9 39:19 40:8,20 40:25 41:5,9 46:19 60:19 61:8,16 65:13 67:5 69:10 73:21 74:17 76:9 78:6,18 79:1,20 84:19 87:22 90:7,20 94:20 95:19 97:6 commissioned 1:19 94:19 Commissioners 80:1 90:22 commissions 17:19 74:17 Commission's 80:2	common 20:7 64:8,10 84:2 86:13 commonly 48:17 companies 41:8 44:8 44:12 47:23 48:1,3 48:19,23 49:6 54:22 54:25 55:7,8 56:9 57:18 58:2,6,7,25 59:1,3,6,6,8 63:9 74:14 81:12 88:14 company 4:4 12:15 15:14,16,17 20:24 27:17 34:25 39:23 45:8,16,18 48:4 55:3 55:4 56:3 59:9 67:11 68:18,22 69:3 company's 48:24 comparable 44:8,12 47:23 48:4,18,23 49:6 54:22 55:7,12 56:9 57:18 58:2,6,6 59:6,6 80:11 88:14 compare 48:5 complaints 35:4,7,7,10 35:12 completely 53:17 59:19,21 86:20,25 compliance 52:6 complied 91:23 comply 45:23 47:8 compound 81:25 82:10,12,19 83:3,3 compromises 61:10,12 computer 8:13 25:4 concern 9:11 26:1 52:22 79:8 concerns 60:3 conclusion 19:25 46:8 conclusions 37:24 condition 66:13,17 69:13 conference 48:22 confirmation 61:2 confirmed 58:21 conform 84:15 conformity 85:13 considered 65:14,22 consistent 45:9 63:7 consolidated 62:10,11 62:14 66:5 86:9 constantly 9:1 consult 58:8 62:25 84:18 consultation 74:20 consulted 17:18 75:18 consumer 35:8
---	--	---	--	---

<p>contact 17:23 67:12 75:3 contacted 18:1,3 contained 5:11 7:21 8:13 15:18 74:24 75:10 81:15 context 13:5 64:17 continue 66:4 continued 47:12 continues 56:22 contradiction 75:2 contradictions 72:13 control 34:21,25 35:19 conversations 7:2 37:4 37:11 copy 16:10 31:10 97:10,13 corporate 65:22 69:2 correct 4:21,22 5:12 11:8,9 12:4 13:13 14:10 16:7,8 17:25 28:23 45:7 48:11 64:1 65:5 68:18 71:23 72:3 78:21 95:9,13 correction 7:11,13 corrections 5:13,16,19 5:22,23 42:1,5 97:13 cost 13:9 18:8 31:3 45:9,13,16,17,20 54:18 57:17,24 60:4 74:6 costly 60:1 costs 21:10 22:14 counsel 2:15,16,19,21 6:15,21 20:5 29:13 70:15 78:11 94:11 94:14 Counsel's 92:16 country 71:25 73:19 74:25 County 1:12,19 94:3 94:19 95:3 couple 5:17 6:4 18:10 23:12 54:9 55:21 84:22 course 12:8 18:9 36:20 55:22 93:2 court 10:2 24:8 26:5 26:11,14,20 27:2,4,8 27:9,11,14,19 29:5 30:6,7,9,12,13,15,15 30:24,25 31:4 33:19 47:9 48:15 53:19 67:19 73:19,22 74:1 74:4 75:9</p>	<p>courthouse 53:20 courtroom 74:2 courts 26:8 27:5,7 court's 26:8,15,21 53:19 cover 3:19 15:19 71:9 CPA 84:12 create 58:18 created 24:13 65:10,12 credit 39:22,22,23 62:15,18 65:1 66:3,5 66:6,7 68:19,24 69:2 69:4 creditworthiness 67:10 68:21 69:3 criteria 46:20 47:19,22 48:9,9 54:21 55:11 55:18 56:8,10,14,16 56:17,22 57:1,18 58:4,11,14,16,18,23 80:8 critical 48:3 CSR 1:14 94:5 96:24 97:20 current 32:23 57:20 84:5 currently 43:16 curriculum 12:10,16 customer 39:15 customers 33:21,24 61:24 62:2,4 67:20 77:16,20 cut 91:9,10</p>	<p>61:25 62:4,6 64:4,7 64:15,16,16,24,25 65:14 66:8,25 67:23 68:23,25 69:1,7 84:3 84:5,5 85:6,21 86:12 debtholders 64:4 December 20:11 21:19 22:11,22 23:2 44:1 80:13,25 83:21,25 decide 24:14,15 60:23 decided 28:7 32:8 decision 78:18 decisions 10:3 26:8 30:1,6,7,9,12,13,15 30:16,24,25 declare 95:12 deductibility 64:24 deem 23:4 72:9 define 57:7,9 definition 64:2 degree 72:23 Dennis 3:2 department 8:6 11:7 11:12,16,18 16:12 28:10 32:5 38:22 39:2,6 74:11 89:25 department's 26:1 depending 64:11 depends 63:2 deponent 96:4 deposed 55:11 deposition 1:7 5:8 52:5 94:8,13 95:6,8,11 96:3 97:10 depositions 13:25 52:3 described 84:14 deserves 72:12 designated 74:2 desire 51:22 desired 97:13 detail 28:5 determination 8:23 determine 12:22,22 13:4 37:18,19 48:8 48:15,25 56:1 65:16 75:13 80:11 82:1 84:6 86:7 89:14 determined 43:25 65:17 70:1 determines 82:11 difference 46:14 89:11 differences 33:1 different 20:6,7 29:11 32:23 41:23,25 49:18 65:5 differential 88:13</p>	<p>direct 3:15,17 4:2,20 15:14,15 21:19 directed 12:9 76:15 77:11 87:11,18 direction 94:11 disagree 61:5,9,11 75:1,4 79:14 discount 12:19 13:9 discounted 12:12 47:16,18 57:20 72:11 discover 5:15 discuss 5:25 19:24 32:7 37:24 38:8 51:9 51:11,12 76:7,11,18 84:23 89:22,24 90:10 discussed 4:16 6:5 7:4 7:5 8:17 10:16 20:12 33:19 38:11 42:8 75:23 87:24 90:5 discussing 6:13 11:22 discussion 22:1 27:21 92:4 discussions 6:19 disposal 80:24 dispute 35:24 84:10 disputes 36:3 72:10 disregard 80:2 distinguished 29:10,20 distribution 59:4,9 60:2 dividend 12:18,19 18:19 division 35:8 documented 63:17 documents 43:22 DODDS 2:10 doing 4:14 13:12 14:24 21:13 31:19 44:24 52:1 53:18 67:15 81:13 82:8 85:24 89:10 91:11 done 15:23 40:3,7,15 DOUGLAS 2:20 down 25:3 33:10 57:23 65:7 69:14 76:6 downward 72:12 Dr 71:4,19 74:5,24 75:3,7,10,13 draft 43:12 drafts 41:17,19,21 76:19 drastic 33:2,6 drastically 81:15 due 73:24</p>	<p>duly 94:8 Dunn 3:3 36:20 58:8 59:1 Dunn's 58:6 during 51:2 82:23 92:9 92:16 duties 23:15 D.C 18:6</p>
				<p>E E 2:1,1,20 3:14 each 10:25 27:5,6 30:2 53:10 70:16 75:24 87:7 earlier 70:18 74:5 earliest 16:14 early 64:21 earn 34:20,22,24 35:16,19 45:16,17 earned 35:22 earning 36:2 earns 45:18 ease 39:10 East 1:11 2:8,12 economic 37:20 economy 89:23,24 90:6 editions 18:22 Edward 80:12 efficiently 30:17 effort 56:25 91:5,20 either 50:13 54:20 55:19 57:2 74:2 electric 27:17 55:4,5 electrical 72:24 else's 63:24 embedded 21:9 employed 11:7,11 94:12,14 employee 94:14 enclosed 97:10,11 Enclosure 97:21 encompasses 57:24 end 20:18 ending 82:11 Energy 1:20 2:2 15:22 18:14 Energy's 1:4 engineering 38:24 39:13 72:24 England 1:11 2:7 enough 55:23,25 Enron 64:21 65:10,11 enterprise 66:6 entire 23:10,14 57:24 entirely 58:3</p>

entirety 24:3 28:21 56:12 entities 69:12 environment 14:8 18:8 37:20 57:21 equations 71:5,16 equities 44:7 equity 11:14,22 13:16 16:23 17:1,16 20:7 24:22 36:16 42:14 42:21 45:7,9,13,15 45:16,17,19,21 64:8 65:1,14,17 67:24 84:2 85:3,7,17 86:13 86:13,17 87:2 equivalent 49:1 Eric 2:3 4:3 97:21 errata 96:1 97:11,14 97:15 especially 89:10 essence 30:2 establishing 28:16 estimate 12:14 estimates 81:11 estimating 57:19 evaluate 33:25 67:10 evaluates 69:2 evaluation 57:20 even 89:19 event 33:10 eventually 60:13 ever 10:5,8 14:7 16:20 16:22,25 17:23 29:13,18 31:19 35:16,22 41:11,15 44:6,11,15 46:2,23 46:25 47:3,7 53:12 56:7 65:13 67:12 73:18 74:5,12,13,16 74:19 75:3,6,9 82:21 87:20 every 46:18,21,22 63:4 everything 52:23 87:5 evidence 47:1 53:13 69:19,23,24 70:3,5 evidenced 66:2 evidentiary 21:25 evolved 31:6 exactly 4:16 18:11 25:14 36:14 82:13 83:16 87:8 Examination 3:15 4:2 examined 1:8 except 42:5 exchanges 70:15 exclude 85:16	excluded 84:7 excuse 46:21 51:1 85:4 Executed 95:14 exhibit 3:10,17,19 4:24 5:3,11 7:21 70:21,22 71:1,3,12 EXHIBITS 3:16 exist 64:7 expanded 26:14,21 expanding 26:7 expands 27:17,18 expense 68:23 expenses 11:25 experience 12:24 14:3 39:7,17,21 40:2,21 40:24 41:6 experiencing 39:10 expert 36:3 47:4,9 57:4 71:20 73:18,20 74:3 85:25 86:5 expertise 85:12,15 86:7 expires 94:20 95:19 explain 10:23 27:1 28:1,5 41:11 45:25 59:7 explained 14:11 40:16 62:7 82:13 explaining 28:17 extending 27:22 extends 27:18 extensively 55:1 extent 6:3 36:23 extraordinary 20:23 extremely 45:20	Feddersen 1:14 94:5 94:18 96:24 97:20 federal 46:25 52:2 74:2 feel 31:24 32:6 37:15 66:8 feels 13:8 felt 14:12 25:12 few 12:19,19 55:6 63:4 65:5 68:2 89:12 figure 71:22 73:16 84:4 figures 71:25 file 8:8 16:11 78:5 filed 15:14 20:20 21:17 22:23 35:4,7,12 80:22 81:12 83:24 84:9 86:17 filing 97:16 filling 38:21 finance 12:7,7,10 14:15 18:5 57:2 62:20 71:21 72:1,14 72:20 73:1,9,15 financial 8:6 12:16 14:15 25:25 28:10 43:2 62:16 79:15 80:19 85:2,25 86:4,5 86:6,10,16 90:1 91:4 91:6 financially 94:15 financing 85:19 financings 65:6 find 55:5 59:25 84:19 97:10 fine 54:2 finish 52:20 finished 92:23 first 5:15 10:12,24 11:3 14:7 15:2,6,24 16:10,17 23:10,22 24:11 28:7 32:8 36:10 40:8 64:22 87:9 five 58:24 62:10 83:6,6 five-year 80:15 flow 12:12 47:16,18 57:20 65:24 72:11 78:23 79:5 flowing 69:10 follow 63:8 followed 29:10 following 96:4 follows 4:1 follow-up 29:22 follow-ups 29:19	forbids 69:10 Force 39:24 foregoing 94:8 95:6,13 forgot 92:8 form 8:13 50:18 52:23 95:7 forward 8:21 49:17 81:16 found 14:19 42:2 72:13 four 15:8 62:12 framework 33:8 Franson 2:15 6:3 18:24 19:2 38:16 46:7,12 49:9,12,19 49:22 50:1,8,15,22 51:4,7,11,15,21,24 52:8,12,15,19 53:2,6 54:2,6 68:1 71:2,8 71:11 75:25 76:4,14 77:4,10 87:10,17 88:1,5 92:24 93:3 97:5,9 freely 65:24 69:11 78:23 79:5 frequent 89:25 FRIEDMAN 2:4 from 8:25 13:25 14:1,4 14:18,22 15:8 22:16 23:2,3 24:17 25:25 30:8 32:13 35:25 36:1,24 37:2 38:23 41:3,19 46:13 48:21 53:21 56:16,19 58:15 60:5 63:14 66:10 67:15 69:10 69:15 74:20 77:5 80:6,12,16 83:10,19 83:23 86:8,10,15,24 90:25 92:15 front 50:10 73:20 full 68:16 78:21 fun 71:15 fundamentally 89:17 further 94:13 future 45:3 62:2,5 69:25	gave 4:12 7:25 10:19 10:20 38:18 40:7 43:22 53:22 58:9 63:15 general 1:5 2:16 27:4 42:9 64:9 generally 13:11 30:11 37:5,12 40:17 84:15 85:14 90:2 generation 33:4,7,17 gets 24:20 82:14 getting 52:14 give 16:20 24:15 29:11 40:5 44:3 49:6,14 73:8 given 12:23 13:9 28:18 29:21 56:16 gives 68:19 giving 54:14 go 18:9 28:17 29:1 31:8,12 44:2,6,15 46:13 49:17,18,23 51:17 53:19 64:3,4 66:25 78:25 79:13 85:24 90:12 goes 65:5 67:4 78:20 going 4:5 8:21 15:8 20:6 21:22 22:7 23:1 23:2,5 25:5 29:15 31:25 36:4 44:1,3 45:14,15 49:13,14 49:15,17 50:1,20,21 50:25 51:1,6,6,14,18 51:21 52:22 53:19 53:21 54:8 60:4,5 62:4,16,20 63:4 65:24 67:4 70:8 80:1 82:5 83:2,14 85:16 88:3,17 89:11 90:12 92:2,20 gone 68:13 good 29:15,17 Gordon 12:18 gotten 30:11,24 graduated 12:5 greater 28:5 group 44:20 47:19 48:18 49:6 80:5,11 89:10 groups 47:13 growth 12:18,18 18:19 56:2 57:19 81:25 82:1,12,19 83:3,3 89:8,14,17 GR-2004-0209 1:4 guarantee 66:11
--	--	--	---	---

guess 25:20 guidance 40:7 Guide 54:19	hours 1:9 hybrid 64:14 hybrids 64:12 Hyneman 3:4	29:11 38:18 43:3,13 44:2 55:24,25 56:3 71:3 75:10 80:6,10 80:14,23 81:10,14 82:17,21 83:1 88:25 89:5,7,16 90:25 91:6 91:7,11 initial 37:24 43:24,24 initially 43:7,9 initiated 64:21 insight 8:1 40:5 instead 14:23 20:11 44:4 instruct 88:4 instructed 88:5 instructing 76:2 INSTRUCTIONS 3:8 3:10 Insurance 11:8,12,16 11:19 integral 65:25 intends 66:21 70:3,6 intensive 14:20 intent 12:21 intents 65:21 interact 27:5 interest 57:21 68:22 interested 94:15 interests 67:20 interpretation 63:16 intervene 78:15 intervening 82:22 investment 79:10 investor 12:22 investors 67:20,22,23 67:24,24,25 68:14 68:16 invests 68:17 involved 49:2 involvement 15:25 Island 32:10,15,21,24 33:9 iss 57:7 issuances 69:1 issue 6:13 30:17 36:6 47:18 48:23 49:5 62:7 64:23 issues 7:9,24 8:2 13:19 34:1 36:15 39:16 46:19 61:2 63:4 items 22:1 84:8 it'd 55:9 It'll 29:11	Jefferson 1:12,16 2:9 2:18,22 97:2,7 job 35:16 John 3:1,1,3 6:9,10 36:20,21 38:17,20 join 78:15 joined 16:6 joining 16:6,19 39:19 40:20,24 41:4 Jones 80:12 judge 53:21 74:1 judgments 72:11 Judith 63:9 June 11:5,7 16:15 17:3 20:10 23:9 43:18,23 43:25 jurisdiction 9:11,15,25 31:16 jurisdictional 27:7,7 29:5 jurisdictions 17:19 just 7:18 8:20 9:7 14:23 15:10 20:18 22:4,24 27:1,4 28:15 31:15,20 32:6 33:12 35:16 36:16 38:19 42:5,7 44:2 45:18 52:11 53:8,14 54:9 56:15 59:4 63:2,11 63:15,19 65:5 67:9 68:7 70:25 77:25 80:8 82:13,25 83:4 83:20,23 84:14 85:16 86:2,15 88:15 89:13,15 92:11	50:20 51:5 52:5,22 52:24 55:7,10 59:20 61:1 63:11,21 65:11 65:12,13,22 68:6,7 69:22 71:11 80:13 81:1,9 82:13 84:17 85:18 89:9,16 knowledge 39:3 known 20:20
H hand 56:23 handed 28:11,14 29:18 40:12,14 58:19 handing 5:2 28:25 handle 5:21 happen 44:3 45:3 60:7 60:9 happened 62:13 happy 51:3 hard 65:7 hate 37:16 having 33:7 53:8 62:19 71:3 95:10 heard 46:2,23 75:9 hearing 21:17,23,25 78:20 hearings 20:22 heart 82:14 HELD 92:4 help 11:24 39:10 57:5 helped 39:6 helping 38:22 39:8,11 Herschmann 2:3 3:15 4:2,3,23 5:1 19:1,5,6 26:17,25 37:8 38:7 46:10,14,16 49:7,10 49:14,21,23 50:3,12 50:17,24 51:5,8,13 51:17 52:1,10,13,18 52:21 53:4,17 54:3,7 54:11 68:3,9 70:7,13 70:20,24 71:2,6,10 71:12,18 76:2,5,17 77:13 87:13,19 88:3 88:7,15,22 92:1,7,18 97:16,21 hey 90:11 hierarchy 27:2 High 1:15 97:1 higher 38:6 59:8 62:15 highlighted 28:12,19 him 7:5,6 19:24 20:2,3 20:12 37:23,24 42:16,23,25 75:4 76:2 88:4 historical 89:8,12,13 89:16 hit 33:12 hold 49:12 50:3,3 Hope 9:19 26:15,22 29:25 91:24	I idea 31:22 42:19 93:7 ideas 18:7 38:1 IDENTIFICATION 4:25 70:23 identify 30:7 ignorance 32:11 ignorant 35:11 impact 7:11 62:1,4,19 78:24 82:24 91:4 impacted 79:9,13 Implement 1:4 important 7:9 45:13 58:4 90:14,17,19,22 imposed 77:22 improve 9:1,5 inaccurate 45:21 75:11 inappropriate 56:21 60:8 include 20:24 included 34:4 36:5,5 includes 22:12 62:14 62:17 84:5 86:12,12 inclusion 8:4 incorporates 57:16 incorrect 59:19,21 72:9 increase 1:5 77:25 78:19 79:23 90:5 increased 60:4 90:3 indeed 20:13 INDEX 3:16 indicate 97:13 indicated 20:10 42:12 48:22 83:4 96:4 indicates 29:22 65:24 indicating 66:23 67:9 indication 45:15 individual 7:7 38:21 individuals 37:14 60:23 industries 40:21 48:2 58:3 industry 39:18 47:15 47:21 48:19,24 49:1 54:25 55:4,5,10,16 55:17 57:4 58:25 59:2 72:20,21 80:12 inform 75:3 information 21:22	J JAMES 2:6	L label 12:20 language 38:19 large 7:11 last 10:11 21:3 56:20 64:10 73:25,25 86:3 late 81:12 later 18:20 27:18 38:17 53:12 law 1:10 2:3,7,11 lawyer 21:13 layperson 85:9 layperson's 85:23 LDC 59:2 leading 71:25 74:25 least 13:11 25:25 42:17 56:17 leave 19:3 51:19 lecture 72:16 lectured 72:19 73:3,5 lectures 16:20 left 54:4 legal 23:20,23 25:16 25:19 28:16 46:8,11 46:19,20 less 7:8 21:15 31:5 45:17 55:21 60:1 64:14 let 8:9 21:2 24:12 25:15 41:2 46:11 49:8,23 51:14 52:19 54:8 68:5 73:23 76:6 79:2 80:8 82:25 letters 75:6 let's 8:24 9:7 15:2 25:16 27:3 43:4 44:3 50:3,4 51:8,8,15,17 54:12 79:15 level 27:9,11 53:20 60:2 74:2 lies 14:25 lifted 30:2 like 13:6 20:10 21:13 22:12 25:12 31:25 32:4 39:11 53:8,15 58:5 65:6 71:5 84:9	
		K K 1:14 94:5,18 96:24 97:20 KASOWITZ 2:4 keep 8:7 57:8 Kellene 1:14 94:5,18 96:24 97:20 kept 8:25 14:18 KF/DAVID 95:23 Kiebel 6:9,10 38:18,20 kind 22:12 82:5 knew 42:22 know 7:5 8:5 9:2,5,18 12:13 13:25 14:22 14:22 20:7 23:19 25:5,11,15,18,20,23 28:2 29:2 31:12 32:9 32:14,20 35:6 36:13 37:17 38:5 39:7,9,21 39:25 46:4 48:19		

<p>93:1 likely 31:12 limited 42:22 56:4 line 64:11 96:5,7,8,10 96:11,13,14,16,17,19 96:20,22 list 36:18 48:9 54:21 listen 73:23 listened 18:7 listing 18:21 Literally 68:3 litigation 1:14 78:21 97:1 little 9:6 14:25 28:5 32:23 40:2 LLC 2:11 LLP 2:4 ll:44 92:21 LONDON 2:11 long 53:4 68:13 longer 33:20 longstanding 25:24 30:19 long-term 84:4 look 5:3 7:23 9:2 14:17 22:9,17 23:1,2 28:6 44:6,15 48:23 70:25 80:16 82:21 89:19 looked 10:9 35:21 36:6 36:21 47:3 59:23 82:16 83:5,20,23 looking 7:8 34:3 38:2 42:14 48:18 82:9 89:13 looks 20:10 82:10 lot 21:18 29:11 38:1 40:2,3 81:10 lower 38:6 lunch 92:1 Lynch 65:9,12</p> <hr/> <p>M</p> <p>made 5:14 6:14 7:6,12 19:23,25 24:18 42:1 42:15 43:17 45:2,4 50:9 53:6 56:25 61:10,12 82:17 86:12 88:12 95:7,10 96:4 Madison 2:17,22 97:6 main 24:19 mainly 31:1 39:15 maintain 62:18 major 12:6 46:22 make 4:15 5:16 7:6,10 7:18 8:23 15:10</p>	<p>19:23 21:2 22:4,19 22:21,25 23:5 35:13 43:4 44:2 46:14 47:8 49:16,24 50:5,13,20 51:14 52:7 61:5 67:2 78:18 89:2,4 91:5,20 93:6 makes 45:20 making 19:7,11 21:12 34:12 88:8 management 38:24 39:13 66:8,24 manager 14:24 manipulated 12:13 many 21:25 31:4 57:16 57:22,25 60:24 81:1 March 43:6 mark 4:23 70:20 marked 4:24 5:2 70:22 markets 90:1 Marshall 3:2 material 42:4 Matt 3:3 6:7 43:8 matter 1:4 4:20 5:5 76:13 78:15 97:17 maturities 84:5 may 1:9 6:19 14:4 22:5 27:10,22 35:7 40:4 41:19 42:1 55:20,20 55:22 79:9 82:23 84:7 89:15 97:4,11 maybe 13:4 34:24 42:3 42:18 63:3,3 74:8 mean 8:3,9 21:12 23:13 30:13,18 32:13 33:9,10 34:2 45:20 49:11,17 53:9 53:15 57:9 61:2 62:1 65:12,19 68:15 69:24 77:19 85:21 92:24 meaning 58:19 means 28:2 29:9 meant 77:4 measurable 20:21 media 33:13 meet 34:9 68:22 meetings 87:20,25 members 38:8,12 59:16 87:22 memory 15:9 mentioned 16:9 23:8 29:24 46:12,15 64:18 70:16 77:14 87:21 merger 66:14</p>	<p>mergers 48:21 Merrill 65:9,11 methodologies 18:18 47:7 57:2 methodology 17:24 47:14,15,16,20 48:7 48:14,17,20 57:8,8,9 57:10,12,15,16,24 83:18 84:14,19 MGE 4:5 9:9 10:13 19:8 23:24 24:17 26:24 32:24,24 33:15,23,24 34:5,8 34:19 35:8,16,22 40:15 42:22 56:20 60:6 61:15,24 62:15 62:17 77:16,19,25 79:17 88:9,13 90:14 95:24 96:2 MGE's 62:2,4,20 MGE/GR-2004-0209 97:8 Micheel 2:20 93:6,8 Midwest 1:14 97:1 might 57:5 95:8 Mike 36:22 Mile 32:10,15,21,24 33:9 military 43:11 million 86:15 mind 18:20 63:11,13 minor 39:9 minute 50:8 52:11,13 minutes 68:2 mismanagement 19:14 35:2 Missouri 1:1,4,12,18 1:19,20 2:2,14 9:8 9:12,16 12:17 13:1 14:9 15:15,22 16:19 18:14 19:9 27:3 29:6 30:15 38:25 39:19 40:20,24 41:4,9 46:19 52:3,8 59:16 60:19 61:16 65:13 67:5 69:10 73:21 74:17 77:23 78:6,18 78:24 79:1,9,18,20 84:18 94:2,6,19 95:2 97:6 Missouri's 46:4 mistake 6:14 7:6,14,15 19:23,25 20:6,13 43:17,20 mistakes 7:18 19:24 mistran 42:3</p>	<p>MO 1:16 2:9,18,22 97:2,7 mobilized 37:23,25 38:22 42:13 43:6,10 43:14 model 8:25 12:11,12 12:13,18,18,19,20,21 12:25 13:3,7 14:12 17:20 18:19 47:17 57:20 72:11 modeling 14:3 models 15:1 57:17 moment 5:3 9:7 70:25 money 66:10 79:17 monopolies 30:18 months 16:6 23:12 63:5 monumental 33:10 Mor 71:19 more 7:8 14:20,22 21:15 30:17 31:5,12 33:6 39:9 40:5 45:16 51:2 59:5,5 62:16 63:12 64:14,15 79:17 91:18 Morgan 3:2 Morin 14:16 17:24 18:1,3 54:13 55:19 57:3 71:4,20,24 75:3 75:7,13 Morin's 3:19 16:9 23:8 31:1,9,15 54:15,16 70:17 72:8 74:5,24 75:10 most 48:3 56:17 58:4 72:2 91:6,7 motions 53:7 move 30:21 48:6 49:7 50:1,13 73:24 much 89:11,18 Munn 29:25 Murray 1:7 3:16,18 4:1,3,24 5:2 70:22 71:1,2,12 88:23 93:4 95:5,17,23 96:2 97:11 Mutual 15:10,16 16:3 myself 20:13 25:5</p> <hr/> <p>N</p> <p>N 2:1 3:14 name 4:3 54:17 95:11 names 63:10 65:5,8 name's 63:13 narrow 57:23 65:7 natural 1:5 29:25 55:3</p>	<p>55:3,10,16,17 59:2,4 59:8 80:11 nature 42:4 49:3 near 33:15 necessarily 8:20 42:18 45:5,14 61:1 69:15 80:14 necessary 25:13 95:8 need 5:13,16 25:16,21 50:18 53:24 needed 7:12 24:18 25:21 71:11 needs 31:25 66:24 negatively 79:9,13 neither 94:11 never 25:17,22 35:21 36:6 42:8 72:19 91:10 new 2:5 22:20 56:2 next 68:2 Niehaus 3:1 51:23 70:8,11 88:17,20 92:2,5,20 nobody 38:14 noddled 48:10 nonrecourse 61:19,25 62:4,6 64:2 nonregulated 59:5,5 nonresponsive 30:22 48:6 49:8 53:7,9 normally 52:23 Northeast 15:15 16:2 18:13 notarized 97:15 notary 1:18 94:6,19 95:18 97:14 note 93:6 nothing 33:15 42:4 notice 1:21 6:14 92:25 noticed 20:5 89:8 November 41:3 Nowack's 36:23 nowadays 64:12 nuclear 33:3,4,7,11,17 number 34:14 35:15 42:3 numbers 7:16 21:14 21:18 22:5,7,10,20 22:22 23:2,3,4,5 25:9 43:18,23 80:19 81:3,5,15,20,20,25 82:1 84:11 86:15 89:12,14,19 90:11 91:4,19 NY 2:5</p>
--	--	---	--	---

O	ones 33:2 64:22	P	pertinent 56:22	53:25
oath 19:19	one's 54:5	P 2:1,1	Phone 97:3	preserved 49:11 52:24
objection 18:24 29:15	one-minute 88:16	page 5:8 30:5 32:14	photocopy 3:19 71:13	presume 4:9
29:16 46:7 49:10,15	only 7:14 22:17 42:22	83:13,14 95:1 96:5,7	Ph.D 73:1	pretty 30:19 33:2,9
50:13,14,17,25 51:2	52:22 53:25 79:12	96:8,10,11,13,14,16	picking 48:3 58:2	42:15
52:7,16,23 53:5	80:23 85:6,8	96:17,19,20,22	picture 44:3	previous 24:17 26:24
75:25 76:14 77:10	operate 30:17	97:11,14,16	Pipeline 29:25	40:15 42:15
87:10,17 88:1	operates 32:25	paid 85:20 86:14	plaintiff 27:9	previously 8:10 9:22
objections 50:6,9,19	operating 48:1	Panhandle 59:11 60:1	plan 92:25	26:10 44:11 55:11
obligated 64:20	operation 30:20 85:19	60:3,10,12 61:3 62:9	planned 5:20	58:14 61:14 72:4
obligations 66:12	operations 9:15 33:5,7	64:3,4 65:18,25 66:9	play 48:2 58:1	74:14 75:17 77:14
obtain 31:10 41:12	34:25 62:21 65:22	67:1,4 69:11,14,15	please 4:7,23 26:18	price 12:23 85:5 86:14
74:9	84:3 85:17	77:15 78:24 79:5,10	28:1 34:10 37:7,9	90:6
obtained 16:10	opinion 8:1 13:15	80:3 83:10,19 84:7	45:6 51:20 57:9	primarily 54:14
obviously 4:11 7:7	56:24 63:19 74:21	84:10 85:3,4,7 86:8	70:20 73:23 97:10	primary 40:7 54:20
12:12 14:21 23:15	85:24 86:1,5,21 87:1	86:14 87:3	97:13,15	principle 30:19 32:6,7
24:18 27:6 36:3,20	opportunity 34:20,22	Panhandle's 61:19	point 9:5 10:20 18:12	principles 84:16 85:14
55:24 60:22 63:8	order 39:9 56:1 62:17	66:12 83:24 84:3	34:9 42:18 46:13	86:8,20
64:10 69:25 85:17	67:5,14 69:10 80:2	85:17	53:2,11 61:18 68:1	prior 5:19 6:1 9:18
85:22	80:10 84:6	parameters 47:13	70:1 82:11	11:6,18 13:25 16:19
occasion 92:9	ordered 60:19 61:7	Parcell 11:20 14:17	pointed 42:2,5	17:3 28:21 37:3,10
occur 7:3 64:5	orders 19:8 61:16	55:19 57:3	points 88:9	39:19 40:20,24 41:4
occurred 22:10,12	Oregon 15:9,16 16:2	Parcell's 31:1,22 54:18	Poor 62:23	41:9 42:8 43:13 44:8
44:19	original 3:11 12:21	part 1:20 24:19 32:12	Poor's 62:24 63:1,6,14	56:16 59:16 76:20
occurs 78:17	97:11	34:3 38:25 56:18	63:17,20,22 65:23	87:15 89:5,19 91:19
off 36:1 38:1 42:23,25	originally 20:20	60:20 61:2 65:22	66:4,23 67:3,9 68:7	97:16
51:9,12,17,18 70:8,9	originated 65:3,4	66:1 73:25	portion 23:19 41:2	priorities 64:6
88:17,18 91:9,10	other 9:15 13:4 14:1	parties 78:14 94:12,15	71:13 83:9	privilege 76:16 87:11
92:2,20	17:18,19,19 23:17	parts 25:10	portions 9:4 13:21,24	88:2
offer 53:12	26:8 27:5 30:6,7,12	party 78:8,12	28:19 36:11,12,19	probably 18:10 23:12
office 2:19 6:14 8:14	30:16,24 36:9,11	passed 60:6 61:23	36:22,22 72:6 74:8	40:4 43:6 48:3 58:4
41:22 78:11 92:16	38:3 49:1 50:19	pause 81:16	position 11:24,25	problem 19:5 50:2,22
offices 1:10	55:17,18 57:3 59:15	pay 12:23 66:8,25	possibility 62:1 79:11	52:14 53:7 68:10
OFF-THE-RECORD	65:6 68:6,6 70:16	peer 17:14	79:24	procedure 48:8
92:4	71:4 74:16,17 78:14	penalty 95:12	possible 7:8	proceeding 64:7,17
often 31:3 62:25 63:12	87:21	pending 35:10	potential 77:15 78:14	78:9,12
Oglesby's 36:22	otherwise 94:15	Pennsylvania 26:11,14	practical 14:8	proceeds 78:20
Oh 53:17 71:8	out 18:6 28:25 38:22	26:20 27:3,17,24	Practitioner's 54:19	process 43:16 78:21
okay 4:19 17:3 19:1	39:6,11 42:5 44:7	29:4,5,14 31:24 32:3	precedent 25:24 28:17	84:22 86:19,25
23:8 28:4 38:23 51:4	46:13 49:16 50:4,9	32:9,16 33:18,20	precedents 47:9	produced 1:8
53:2,6 54:6,10 57:15	50:10 51:19,22 52:4	people 84:22	preceding 81:21	product 9:2,5
71:8,9 73:23 92:12	52:14,25,25 56:13	percent 45:19,21	preferred 64:8,11,12	professional 12:1
92:18 93:3	58:18 64:12 81:3	performed 21:8 80:23	64:20 65:3,4 67:24	professor 3:19 16:9
old 40:3	83:10,19 84:8,19	81:8	68:15	17:23 18:1,3 23:8
older 40:2	86:8,19,25 91:18	period 20:11,21,22	prepare 42:19	54:13,15,16 55:19
once 20:12,12 28:18	outcome 94:16	21:16,21 22:2,11,22	prepared 3:17 4:20	57:3,3 70:17 71:20
39:11 43:25 44:17	outside 9:16	24:23 44:4 82:12	5:4 8:10 16:3,3	71:24 72:8,14
63:4	outstanding 68:23	periodicals 73:15	19:18 25:4 56:17	professors 28:25
one 7:14,15 15:9 30:2	over 9:15 16:11,11	perjury 95:12	76:20	profile 59:7 62:8,10,11
38:1,12 40:12,16	58:12,12 70:16	Permian 31:21	preparing 15:23 42:8	62:15 63:16
45:19 53:10,11,19	overall 35:25 69:3	permission 79:18	43:8 75:18 89:20	prohibited 67:15
54:20 55:1 57:23	90:6	person 37:22 40:6 68:6	91:19	projected 89:9
60:2 62:8 63:7,9,11	oversight 9:15	personally 62:25	PRESENT 3:1	projects 39:9
64:22 66:6 68:6,6	own 14:22 27:6 31:11	personnel 36:14 38:3	presentment 3:9 93:4	proper 27:22 86:7
71:25 72:2 74:25	Ozark 15:14 16:2	perspective 14:23	93:10	property 33:19,23
76:8 82:22	18:13	22:16 86:11	preserve 50:18 53:18	proposed 84:19

<p>proposing 13:19 21:7 prospects 89:17 proven 85:19 provide 31:5 43:12 76:19,23 85:12 provided 54:5 providing 18:20 provision 70:6 provisions 70:4 proxy 44:20 47:13,19 80:5 89:10 public 1:2,18 2:14,19 2:21 6:15 19:9 20:5 30:17 73:21 78:11 92:15 94:6,19 95:18 97:6,14 publish 16:22 published 17:14 71:14 74:6 publishers 75:7 pull 52:4,24,25 pulled 80:6 purchase 85:5 pure 48:2 purpose 20:25 21:8 25:13 50:11 purposes 28:17 65:21 71:16 pursuant 1:21 52:1 put 30:2 87:5 P.C 2:7 p.m 1:9 P.O 1:15 2:8,17,21 97:2,7</p> <hr/> <p>Q</p> <p>Quain 3:1 Quain's 36:21 qualifications 47:4 qualified 73:18,20 quality 39:15 quantitative 24:21 question 4:6,10,10,11 4:15 21:3 26:16,19 28:1 29:16,17 30:23 32:13 34:11 37:7,10 41:4 44:10 45:6,10 46:15 48:7 53:22 73:24 76:4 77:12,24 79:2 81:22,23 82:6 82:15 86:3 87:9,12 87:18 89:2 questions 4:6 24:14 25:5,7 29:11 49:18 52:17 54:9 63:3 93:8 quickly 17:12</p>	<p>quite 31:3 55:6 65:5 83:20 86:16 quote 90:25 quoted 72:2 73:14</p> <hr/> <p>R</p> <p>R 2:1 raise 27:10 raised 27:8 ran 41:25 range 42:9,13 67:23 68:15,16 rate 1:5 8:22 10:25 11:10,14,21 12:6,9 12:14 13:9,16 14:19 15:3,23 16:1 17:4,15 17:21 22:16 24:22 25:24 26:3,24 28:18 31:6 34:1,4,7,13,16 34:23 35:14,18,22 36:2,16 37:5,13,15 38:6 39:25 40:15,17 42:10 46:22,22 56:2 56:20 57:21 68:25 69:1 71:15 82:2,12 82:20 83:3,4 89:15 ratepayers 60:6 78:25 79:9,12,18 90:17 rates 16:20,23,25 18:17 24:8 57:19 74:21,22 77:20,22 77:25 78:19 79:13 81:25 89:8 rating 39:22,22 62:15 62:18 65:1 66:3,5 68:19,24 69:2,4,6 80:24 ratios 62:17 Re 96:2 97:8 reaching 60:18 reactor 33:11 read 17:6,11 23:10,14 23:16 24:2 25:17,22 26:17 28:21 31:15 32:13 36:9,12,19,20 37:8 41:2 54:12 58:10 70:18 71:1,17 72:5,6 74:5 95:6 96:5,7,8,10,11,13,14 96:16,17,19,20,22 97:13 reading 31:9 63:24 96:3 real 13:3 realistic 34:14 35:15 reality 44:16,18</p>	<p>realize 27:19,22 59:19 86:11 realized 84:1 really 42:4 50:18 62:7 66:1 reason 4:14 5:18 18:2 18:4 61:22 62:3 63:12 69:16 79:25 81:7,9 84:10 89:4 96:6,7,9,10,12,13,15 96:16,18,19,21,22 reasonable 4:9 12:23 24:21 34:15,23 35:17 42:21 43:1 85:6,8 rebuttal 5:21 15:16 44:5 rec 61:25 recall 7:1 10:13 15:8 15:21 18:11 23:13 25:1,13 26:10,13,20 30:9,14 31:2,14,19 31:20 36:14 38:4 41:14 42:5 48:21 54:23 55:1,20 56:6 56:12 59:10,21 67:19 81:4 83:11,12 83:12,17 88:8 receive 74:19 77:5 receiving 64:25 recent 8:22 91:19 recently 91:1 recognized 47:25 48:17 57:4 recommend 34:7,22 35:17 recommendation 7:12 20:25 34:13 35:14 37:6,13 38:2,14,15 42:10,21 44:13,16 44:18 45:2,4,21 recommendations 17:20 81:17 91:5 recommended 24:22 42:14 recommending 21:8 reconciliation 21:14 record 49:16,25 50:5 51:9,12,12,14,16,23 51:25 53:18,25 70:8 70:9,11 71:10,17 88:17,18,20 92:2,5 92:20 redirect 93:7 reduced 94:10 refer 15:10 80:8</p>	<p>referenced 9:19,21 references 31:16 55:6 referred 12:11,17 20:19 69:14 referring 30:10 47:22 82:4,6 refers 54:25 regarding 17:21 36:17 regardless 66:9 regulated 30:20 39:18 40:21 41:9 regulation 12:11 13:6 25:25 31:6 33:4 49:2 regulations 19:12 regulatory 14:15,15 39:18 40:23 41:5 54:19 57:2,8 71:20 72:1,20,21 73:8,14 74:20 related 10:13 32:9 39:3,18 94:11 relates 9:9 17:4,15 18:13 23:23 33:10 42:10 47:9 64:7 76:12 80:2 relation 90:8 relationship 59:11 77:15,20 85:13 87:22 88:9 90:7 relative 94:13 relied 72:5,6 rely 28:16 54:14 relying 14:23 63:25 remanded 29:10 remember 9:19 24:3,4 54:14,17 55:13 77:16 reminds 20:14 remotely 33:15 render 95:9 repeat 26:16 37:7 repeated 53:6 55:9 rephrase 4:7 report 63:3 83:22 Reporter 4:25 26:19 37:10 70:23 94:1 96:24 reports 63:18 80:24 81:11 representing 4:4 request 18:25 19:3 83:23 requested 3:9 93:10 require 50:12 62:16 requirement 21:1 35:25</p>	<p>research 31:11 63:3 respect 73:24 respond 53:11 response 7:17 49:13 83:22 responsibility 14:25 43:19 responsive 53:16,23 73:25 restrictions 69:14 result 60:5 resume 92:25 return 11:10,14,22,22 12:6,9,14 13:15,16 14:19 15:3,23 16:1 16:20,23,23 17:1,1,4 17:15,15,21 18:18 22:16 24:9,22,22 25:24 28:18 31:6 34:8,13,16,23,24 35:14,18,19,22 36:2 36:15,16 37:5,13,16 38:6 39:25 42:11,14 42:21 44:7 45:7,15 45:18 46:22 71:15 74:21,22 97:15 revenue 20:25 35:25 reversed 10:2 29:10 review 7:20 17:14 34:4 35:6,8 37:1,15,22,23 38:4 41:20 43:2 56:1 59:15 62:23 76:20 reviewed 7:25 36:16 36:21,25 38:16,17 46:25 84:1 87:8 89:7 reviewing 14:14 20:3,4 28:15 Rick 3:2 right 8:10 9:9,12,16,22 9:25 10:3,17,21 12:3 13:16,19,22 14:1,5,9 16:15 18:14 19:12 19:15,20 20:6 21:4 21:24 22:8,20,24 23:6,20,24 24:9 25:5 26:5,8 27:20 28:13 28:22 29:2,18 30:3 32:10,21 33:2,16,21 34:20 35:2,4,10,23 36:7 40:10,13,17 44:13,20,20,22,25 45:3 46:19 47:24 48:9 49:21 50:6,19 50:25 51:7 52:18,18 52:24,25 54:4,8 58:16,20 59:2 60:7</p>
--	---	--	--	---

60:11,14 61:17 68:16,25 69:8,18,21 70:2,18 72:5,14,17 72:21 73:3,6,9,12 75:19,21 76:9 78:3 78:22 79:1,6,10,13 79:18,21,23 80:6,17 82:18 83:16 85:9,14 87:5 90:15,17,20,23 91:1,6,13,16,21,24 risk 49:1,2 59:7 62:8 62:10,15 63:16 66:6 66:7 88:13 risks 55:12 RLJ 53:12,20 Robert 2:15,16 6:3 38:16 76:24 77:4 97:5 Roger 14:16 31:1 Ron 24:17 25:11 37:21 39:8,17,20 42:13 room 51:19 92:11 ROR 39:4 round 84:4 RPR 1:14 94:5,18 96:24 97:20 rule 52:8 53:19 75:9 rules 46:25 50:12 52:2 52:3,6,6,25 53:1 ruling 53:21 rulings 26:15,21 run 41:23 Rural 15:15	Schedule 80:16 81:16 schedules 24:19 25:3,8 41:23 42:1,2,19 43:9 43:15,25 school 12:3 Schwarz 6:20,21 75:21 76:7,8,11,25 scientific 48:20 49:5 SEC 19:12 83:24 84:10 85:2 86:17 second 5:8 49:24 section 46:10,17 securities 22:14 64:20 65:3,4 security 12:24 13:10 64:23,23 see 9:4 14:16 15:13 17:24 22:10,11 29:9 31:17,23 35:21 36:16 44:8 46:11 56:20 76:6 81:9 82:22 83:17 86:22 seeing 42:20 48:21 70:16 seem 51:22 seemed 44:2 85:1 seems 86:16 seen 56:7 65:23 sees 67:9 segregated 60:10,12 60:16 65:19,20 select 28:6 36:12 47:19 47:23 54:22 56:9 57:18 selected 80:5,16 selecting 47:13 48:1 54:25 selection 80:7 seminar 18:6 seminars 73:8 send 75:6 senior 2:15,21 64:16 sense 15:11 44:2 separating 66:2 separation 61:3 series 4:5 service 1:2 2:14 11:20 19:9 39:15 66:8,25 73:21 97:6 Serviced 1:5 services 1:14 35:8 38:24 39:14 97:1 service-type 39:16 set 24:8 sets 56:13 settlement 7:8	several 41:13 55:9 81:5 shareholders 68:15 sheet 83:21 96:1 97:12 97:14,15 shelf 16:12 shepherdize 29:1 shepherdized 10:5,8 27:24 shepherdizing 28:2 29:2,8 Shipman 68:7,10,11 short-staffed 39:7 show 71:6 shutting 33:10 sign 5:7 97:14 signature 3:8,9 93:5 93:10 95:1 97:11,14 97:15 signed 60:13,17 61:6 67:6 significant 23:4 89:1 simple 83:20 since 14:19 22:5,11 29:1 37:23 38:22 Sincerely 97:18 sir 86:24 sit 5:10 25:3 sitting 6:16 24:2 33:23 35:5,9 69:16 70:2,17 74:1 situation 39:12 situations 13:3 43:10 six 16:6 Sixth 2:12 small 36:22,22 solely 53:18 some 4:20 5:13 6:3,19 7:15,24 8:2,4,5,5,6 8:15 9:2,2,3 10:20 13:21,24 14:4,17,17 14:21,22 15:5 18:12 22:5 25:7 28:11,12 32:11 33:1 34:9 36:11,13,15,21 37:24 38:11,18,18 38:19 39:9,9,23 40:14 41:19 42:1,2 43:15 44:22 53:2 59:5,7 63:3,10 64:12 64:13,25 65:6,23 68:1 71:3 72:10,13 82:5 83:9 86:12,12 89:1,15 somebody 10:20 28:11 someone 10:23 25:6	32:2 58:15,19 63:24 something 21:13 27:8 34:8,17,19,24 40:4 42:3 48:21 55:23,24 56:18 57:23 64:21 82:25 85:16 sometime 43:6 sometimes 31:11 65:7 somewhat 8:16 12:14 13:7 23:4 soon 16:12 92:25 sorry 26:16 46:23 54:16 57:6 71:20 77:4 92:8 sorts 49:1 65:8 sources 54:20 Southern 4:4 9:16 19:8,11,15 22:10 34:17 35:2 59:11 60:18 61:3,7,15,19 61:24 62:8,11,14,17 62:20 64:5,13 65:18 65:25 66:8,11,16,20 66:21 67:1,4,6,15 69:4,6,11,17 70:3,5 78:24,25 79:5,9,16 80:1,3 83:10,19,21 84:2 85:4,20 86:9 speak 17:12 speaking 22:16 49:15 50:6,25 53:5 specific 18:2 30:9 31:2 55:22 56:13 57:23 62:18 63:2 69:1 82:9 83:12 specifically 7:23 25:19 37:1 38:5 42:16 48:21 52:6 56:5,13 66:2 67:17 74:22 84:9,21 specifics 24:24 30:14 54:24 speech 50:20 speed 15:1 spoke 75:21 sponsors 18:6 sporadic 23:14 ss 94:2 95:2 staff 2:14 6:21 8:23 9:9 13:13,18 14:9 15:7 16:19 20:24 21:6,6 25:25 29:13 36:13 37:2,4,12,14 38:3,8,11 39:1,2,6 40:17 41:13 59:16 60:13,17 61:7,17	67:6 78:8 83:23 87:21 90:19 93:4,7 staffs 17:18 Staff's 8:14 35:25 36:24 stand 64:19 standard 8:12 10:20 10:24 24:8 25:7,24 45:23,25 48:15 62:23,23 63:1,6,14 63:17,20,21 65:23 66:3,23 67:3,9 68:7 standardized 8:16,18 9:3 standards 23:20,23 25:16,19 31:7 stand-alone 62:9 start 43:24 54:12 83:16 started 14:19 15:7 16:12 18:11 23:13 23:17 24:16 28:9 32:5 Starts 83:15 state 1:1,12,18 27:6,8 46:5 50:14 52:16 74:2 77:22 94:2,6,19 95:2 statement 5:10 62:22 78:23 statements 85:2 states 24:7 26:14,21 27:4,11 30:16 state's 27:9 statistical 39:23 statutes 52:4 step 8:9 15:2 28:5 49:15 50:4 51:19,21 still 7:12 8:18 9:24 12:2 18:16 27:10 51:23,24 91:20,23 stipulated 67:6 stipulation 60:13,18 60:22,24,25 61:6,8 61:12 66:18 67:14 69:9 stock 13:5 64:8 67:24 68:16 stockholders 64:10 stocks 90:2,6 stop 50:4 Street 1:15 2:12,17,22 97:1,6 stricken 8:25 strictly 9:12 strike 30:21 48:6 49:7
--	--	--	---	--

<p>50:13 53:7 54:4,4 73:25 stringent 62:16 structure 20:8 21:9 22:9,14,15 84:7 86:9 studies 12:25 16:4 17:15 study 14:25 28:18 42:20 72:21 80:21 80:23 81:8 91:8,11 studying 14:22 stuff 33:11 63:24 subject 34:6,24 subjective 53:24 submission 76:12,21 submit 5:18 25:4 28:7 submitted 4:19 5:5 7:22 8:10 10:12,15 10:17 11:11,15 15:3 16:5 18:12 19:17 23:22 24:11 36:10 41:12 43:21 46:18 60:21 74:13 75:14 76:19 81:2,6 91:16 submitting 5:20 9:8 13:12 28:21 31:14 37:3,11 45:23 47:4 59:10,16 87:15 89:6 91:19 subord 64:15 subordinate 64:15 subscribe 95:11 subscribing 96:3 subset 58:5 substance 95:8 substitute 31:23 succeeding 81:21 suggested 87:9 suggesting 52:16 suit 31:25 Suite 2:12,22 97:6 summary 80:12 Supreme 10:2 24:8 26:11,14,15,20,21 27:4,9,11,19 33:19 47:9 48:15 67:19 sure 4:15 7:10 21:2 22:4,25 31:13 34:12 40:3,4 47:8 52:5 53:4 61:5 67:2 68:3 80:9 81:24 87:4 surprised 59:25 Swearengen 1:10 2:6,7 24:1 92:23 93:2 sworn 1:8 4:1 94:8 system 8:13 27:14</p>	<p>systems 27:2 S&P 67:7,12 68:19 69:8 79:4 S&P's 78:23</p> <hr/> <p>T</p> <p>take 5:3 8:9 15:2 22:7 28:4 43:11,19 49:16 49:24 50:4 51:9,18 53:12 54:9 68:2 70:7 70:25,25 81:19,25 82:2 84:8 88:15 92:1 92:18 taken 7:19 14:4 70:10 88:19 92:22 94:9,13 97:11 taking 15:7 52:5 68:20 talk 9:7 34:12 41:15 42:16 63:6,7,12 70:16 79:15 83:9 92:9,12,15 talked 42:13 63:9,10 67:17 68:6 84:21 92:11 talking 20:9 30:7 49:19 67:13 68:21 88:23 talks 67:19 Tape 88:21 Tariffs 1:4 Tariffs/GR-2004-0209 95:24 96:2 tax 64:24 telephone 15:5,14,15 15:16 tell 4:7 5:4,23 7:2 18:21 20:2 24:13 28:4 31:8 32:2 39:20 40:1,19,23 42:24 45:22 51:6 67:12 75:23 83:18 84:25 87:7,14,24 telling 35:13 63:20,21 86:6 91:23 tells 52:4 template 24:16 25:6 ten 83:6,7 tend 17:12 term 37:16 terminology 27:23 terms 60:20 61:6,8 test 20:19 47:20 tested 47:7 testified 4:1 27:16 28:20 72:4 73:22 testifying 15:21 26:10</p>	<p>26:13,20 testimonies 30:3 testimony 3:17 4:20 5:5,11,14,16,21,25 7:16,20,24,25 8:1,3 8:6,7,10,13,15,18,24 9:3,8,18 10:12,13,16 10:20,24 11:11,15 13:12,22,24 15:3,13 15:14,15,23 16:1,3,5 18:13 19:18,18,18 20:4,5 21:4,19 23:20 23:23 24:3,5,12,13 24:17,19 25:4,10 26:24 27:19 28:7,8,9 28:12,15,22 29:24 30:1,5 31:3,14 32:3 32:5,14,16,18 34:4,6 36:9,17,18,19,21,24 37:4,11,15,22,25 38:4,10,13,13,15 40:4,13,14 41:3,12 41:17,24 42:7,9,18 44:9 45:24 46:8,17 46:18,21,22 47:5,10 47:12 50:14 54:4,14 54:15,21 56:8,17,19 57:13 58:9,10,13,15 58:22 59:10,13,15 59:18,23 60:21 62:7 63:15 66:21 74:13 74:23 75:14,18,24 76:12,20 77:6,9,17 80:8,22 81:2,6 83:9 87:5,8,15 88:9 89:6 89:20 90:7,8 91:1,16 91:20 92:13 94:7,9 testimony's 21:16 text 14:15 textbook 31:4 55:6 56:6,7 textbooks 14:18 18:16 54:13,24 55:2 Thank 68:10 71:9 83:16 97:17 their 17:20 21:19 24:3 27:6 28:21 33:4 36:2 36:17 56:12 63:16 63:25 65:21 77:25 themselves 80:1 90:23 thereon 95:10 thereto 94:15 96:4 thing 45:13 55:1 57:23 things 14:24 23:17 25:21,22 29:19 31:5 36:5 40:3,7 42:2</p>	<p>44:24 49:3 57:17,22 57:25 59:24 60:25 71:4,5 74:23 93:1 think 7:24 12:23 15:12 21:3 26:2 33:3,12 34:8 35:24,25 36:1 36:13,23 37:17,19 38:5 42:12,15,20 43:19,24 45:5,12 49:4 52:10 55:5,15 56:21 57:5 58:24 60:8,15 63:20 83:14 85:1 86:22 87:2 90:2 thought 7:9 17:11 19:23 32:1 38:18 42:17 45:3 68:8 93:3 three 32:9,15,21,24 33:9 55:15 62:9 through 21:10,19 22:2 23:16 30:6 48:18 78:20 83:1 throughout 7:16 55:1 Tim 6:19 76:25 time 8:7 10:11,12 14:7 15:3 16:10 21:16 23:10,22 24:1,11,23 25:14 32:8 39:6 40:19 42:23 53:10 61:18 62:8 63:10 64:25 70:1 80:22 82:12 86:11 91:8 92:25 timeline 31:5 times 19:17 21:25 55:9 55:15 58:25 60:25 81:10 today 4:5 5:11,19 6:1 11:23 13:12 29:2 35:5,9 41:24 42:6 69:17 70:2 92:23 Todd 68:7,10,11 together 83:7 told 7:5 19:22 20:3 24:1 35:1 58:14 61:14 63:14 70:18 75:17 79:4,8 TOPRS 64:13,18,19 65:2,10,14 TORRES 2:4 total 91:4 towards 12:9 trade-type 65:6 transcript 51:19 93:5 97:13 transposed 42:3 Travis 3:4 6:15 20:4,9</p>	<p>treatise 74:6 treatises 74:25 trial 97:16 tried 8:23 17:23 true 5:12 95:9,13 trued 22:1 true-up 20:15,16,17 20:18,21,23 21:7,8 21:21 22:2,18 23:1 trust 64:20 65:2,4 truthful 19:19 24:5 32:18 59:13 try 4:7 12:22 13:8 15:8 trying 9:1 13:4 37:18 37:18 48:4 50:15 52:12,15 56:25 85:23 88:11 turn 51:4 53:3,5 turns 86:19,25 two 4:16 23:16 53:11 53:11 54:13 66:2 75:18 TX 2:12 type 8:12 50:25 52:7 55:7 57:12 61:12 64:11 71:15 typewriting 94:10 typical 59:8 typically 22:15,17 78:13</p> <hr/> <p>U</p> <p>unaware 35:10 under 19:19 39:8 48:14 86:8,20 94:10 95:12 understand 4:6,16,19 13:11 17:10 21:2,13 22:25 24:7 27:2 29:8 33:18,22 34:10 44:10,17 45:5,6,13 54:8 56:24,25 64:6 64:19 65:2,9 67:22 77:24 81:22,23 82:13 understanding 27:4,13 27:15 49:5 64:9 understood 4:11,11 Unilaterally 78:2 Union 4:4 9:16 19:8,11 19:15 22:10 34:18 35:2 60:18 61:4,7,15 61:20,24 62:8,11,14 62:17,20 64:13 65:18,25 66:9,11,16 66:21,21 67:1,4,7,15</p>
---	---	---	---	---

69:11,17 70:3,6 78:24,25 79:5,16 80:1 83:11,19 84:2 85:4,20 Union's 59:11 64:5 69:4,6 79:10 80:3 83:21 86:9 unique 13:7 United 11:20 24:7 26:14,21 27:3,11 universities 72:16 University 12:17 13:1 unless 58:22 until 21:22 44:4 91:15 update 20:11,19,20,22 21:15,17 22:11,21 24:25 25:8,16,21,22 44:4 88:25 89:12 updated 21:19 24:20 24:25 25:3,12,14,18 44:2 89:15 updating 20:25 21:9 upward 72:12 use 10:25 21:14 27:18 27:23 28:13 32:2,8 37:16 47:13,14,20 48:8,14 54:20 57:11 57:12,15 58:5 64:22 81:7,21 90:11 91:5 91:20 used 12:11 13:6,22 14:7 20:10 27:17 33:20,24 34:5 37:21 43:3 44:12,20 47:19 47:23 48:9 55:18 56:8,8 57:1,16,18,18 58:11,11,14,23 59:1 59:3 65:11 83:18 91:7 useful 14:19 33:20 34:5 uses 33:24 using 17:25 18:18 43:18,23 47:8 55:7 57:3 82:10 88:24 usually 5:21 21:21 38:1 utilities 24:9 30:17,20 39:18 utility 12:11,15 13:6 14:15 18:5,8 33:8 U.S 27:18	ValueLine 91:9,10,12 91:15,18 ValueLine's 80:24 various 36:3 57:19 63:8 71:4 verbally 48:12 verified 20:13 verify 47:14 version 74:9 versus 44:18 very 7:9 56:21 67:2 85:5 video 50:5 51:18,18 Videographer 3:1 VIDEOTAPED 1:7 view 30:19 53:24 66:5 violate 66:22 67:5,8 69:17,22 70:4,6 violated 19:12 61:15 69:20,25 violation 19:8	44:11 45:12 46:10 49:9,12,23 51:5,13 52:21,21 54:12 57:7 57:11 59:25 74:11 76:18 77:25 79:15 85:22 went 14:21 18:5 21:18 were 7:24 11:7 12:2 13:2 15:6 25:10,11 25:23 28:9,11,19,24 32:1 39:7,10 43:15 43:16 44:1 48:1 54:8 54:13 58:16,21 59:13 60:20 61:10 64:22 65:19 75:19 78:22 80:19 81:5 82:23 83:2 88:11,23 89:1,9 91:11 weren't 22:6 28:25 West 1:15 97:1 we'll 7:18 9:2 49:23,24 54:9 we're 9:1 11:22 13:6 15:12 37:18,18 42:7 49:19 51:18 52:1,5 53:21 61:5 68:12 70:8,11 81:13 88:17 88:20 92:5,20 we've 5:2 68:13 70:15 Wharton 73:3 When's 10:11 16:10 while 11:11,15 12:9 67:13 whole 23:16 67:23,25 68:14 widely 47:25 72:2 withdraw 24:12 29:15 29:16 79:2 withdrawn 5:24 8:19 10:11 16:18 34:18 57:11 58:12 69:5 74:12 76:7,18 79:16 witness 1:8 6:15 13:8 13:18 19:4 26:23 37:14 48:10 49:15 50:6,9,10,10 51:1 68:5 71:15 74:3 76:14 77:11 87:11 87:18 94:7,9 96:2 97:13 witnesses 14:1 21:18 36:4,9,11,15,19 word 27:18,18 wording 8:5 words 82:5 work 9:1,5 11:19 14:8	27:2 worked 11:15,20 39:21 41:8 working 11:18 14:24 15:7 16:13 23:13 28:9 43:7 workload 39:10 works 27:14 world 12:1 13:3 wouldn't 14:13 86:24 write 16:25 17:4,8,9 17:13 42:18 58:22 63:23 written 25:12 37:25 73:11 93:5 wrong 59:23 75:7,13 86:20,23 87:1 wrote 17:5 56:20 58:13	81:20,25 82:2,7,17 83:4 1998 25:12 81:7 82:2,7 83:1 1999 82:2,7
	W		X	
	wait 50:8 52:13 Waite 63:9 waiting 44:4 waive 93:4 waived 3:9 93:10 want 4:15 22:4,24,25 31:17 50:9,10 51:1,2 51:11,12,24 52:24 53:14 60:7 67:2 91:13 wanted 7:6 60:10 68:5 78:1 wants 20:24 79:17 Washington 18:6 wasn't 7:10 43:5 79:2 water 16:2 WATSON 2:11 way 5:21 19:2 48:18 48:25 52:16 53:25 53:25 62:19 64:23 65:20 66:9 67:13 79:12 86:8 ways 12:20 49:18 53:11 57:19 weather 45:19 week 23:16 weeks 5:17 81:2,6 weight 64:25 well 5:24 8:22 10:19 12:8 13:2 16:18 18:3 23:18 25:2 28:4 31:11 32:8 34:7 35:1 39:20 40:6 43:23		Y	
			yeah 28:19 51:24 80:7 year 11:4 20:19 45:19 80:14 83:6,7,7 years 13:25 15:8 18:10 40:3 41:13 81:21 82:22,23 83:6 York 2:5	2003 20:10,12 21:20 22:11,22 44:1 80:13 80:19,25 81:2,5,7,14 83:21,25 88:24 89:19,23 90:3,11 2004 1:9 21:10 22:2 80:20,21 91:1,9 95:14 97:4,11 21 83:15,16 212)506-1700 2:5 22 83:14 2230 2:21 25-year 33:12 29th 22:6
			I	
			1 3:17 4:24 5:3,12 7:21 48:22 1st 83:25 1.205 84:4 10K 83:24 84:9 86:18 10:30 70:9 10019-6799 2:5 106 2:12 11:04 70:12 11:28 88:18 11:39 88:21 11:43 92:3,6 1308 1:15 97:2 15 80:21 15th 80:20 15-2 80:16 15.2 81:16 1633 2:4 18 45:19 19 45:19 80:25 1984 74:7 1994 71:14 1997 41:5 80:16 81:19	3rd 41:3 3/28/05 94:20 30th 20:10,16 21:10,14 22:2,7 23:1,3,5,7 43:18,23,25 31st 20:11 21:20 22:11 22:22 23:2 44:1 80:13 83:21 312 1:11 2:8 32 88:9 33 32:14 360 2:17 97:7
				3
				4
				5
V				
validate 57:1 valuation 13:5				

5 55:22
50 40:3
512)479-5900 2:13
573)635-7166 2:9
573)636-7551 1:16
97:3
573)636-9055 97:3
573)751-3234 2:18
573)751-4857 2:23

6

6 30:5
6:00 1:9
646,818,000 84:2
86:13
650 2:22
65101 1:16
65102 2:18 97:2,7
65102-0456 2:9
65102-2230 2:22
662 86:15

7

70 3:19
700 2:12
714 1:15 97:1
78701 2:12

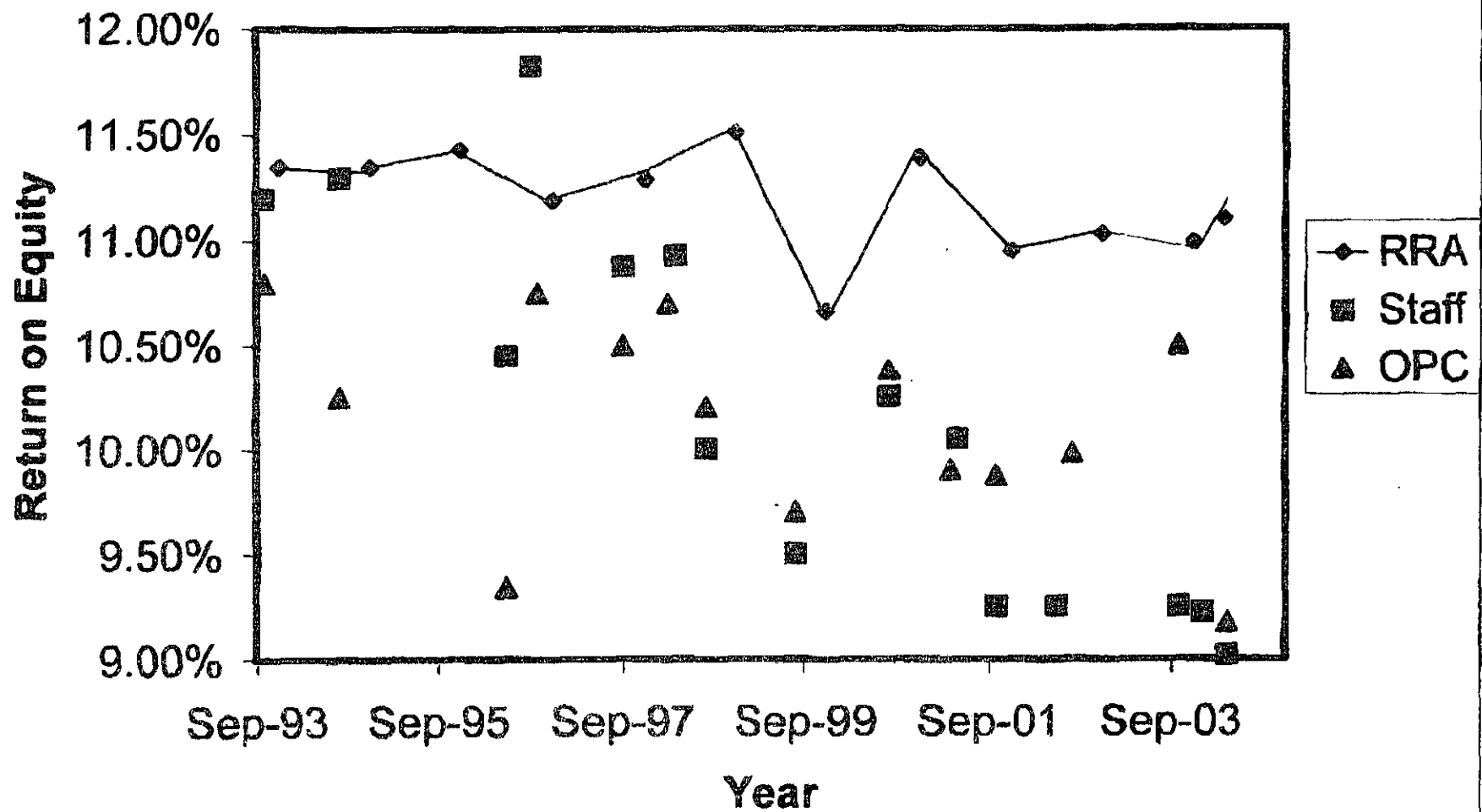
8

8:00 1:9
800 97:6

9

9 45:21
90s 64:22
97 41:9
98 82:22
99 82:22

Return on Equity Comparison



1 exhibits at this time.

2 JUDGE JONES: Is that 88, 89, 90?

3 MR. MEYER: And associated HC for 90.

4 JUDGE JONES: And is there also 1088, 1089,
5 1090?

6 MR. MEYER: Yes.

7 JUDGE JONES: Are there any objections?

8 MR. SWEARENGEN: Company has none.

9 MS. O'NEILL: No objection.

10 JUDGE JONES: Exhibits 87, 88, 89 -- I'm sorry
11 88, 89, and 90 and 1088, 1089 and 1090 are admitted into the
12 record.

13 (Exhibit Nos. 88, 89, 90, 1088, 1089 and 1090
14 were received into evidence.)

15 MR. MEYER: I will tender the witness for
16 cross examination.

17 JUDGE JONES: Is there cross-examination from
18 the Office of Public Counsel?

19 MS. O'NEILL: No questions, your Honor.

20 JUDGE JONES: And any questions from Aquila?

21 MR. SWEARENGEN: I have a few, Judge.

22 JUDGE JONES: Please proceed.

23 CROSS-EXAMINATION BY MR. SWEARENGEN:

24 Q. Good morning, Mr. Murray.

25 A. Morning.

1 Q. How are you today?

2 A. Pretty good. How are you doing?

3 Q. Fine. Thank you.

4 Let me just try with you to frame up the issue
5 in this case, if I can. Is it fair to say that one part of
6 this cost of capital issue is how much equity should be
7 considered in a capital structure for rate-making purposes?

8 A. Capital structure is an issue.

9 Q. Okay. And how much equity --

10 A. Is a part of that capital structure, that's
11 correct.

12 Q. -- is part of that capital structure?

13 And then another piece of that, along the
14 lines of the equity side, is how much should that equity
15 cost, how much return on common equity should be authorized;
16 is that fair?

17 A. That's correct.

18 Q. And you, for the Staff, have used Aquila --
19 the Aquila, Inc. corporate capital structure as of
20 December 31, 2002; is that not correct?

21 A. That's correct. As the test year.

22 Q. That's the test year of capital structure of
23 the parent corporation, Aquila, Inc.?

24 A. That's correct.

25 Q. And what is the equity ratio of that capital

1 structure?

2 A. The equity ratio for purpose of rate making as
3 of test year December 31st, 2002 for Aquila, Inc. is 35.31
4 percent.

5 Q. And that's the equity ratio you think the
6 Commission should adopt in this case for rate-making
7 purposes?

8 A. That's correct.

9 Q. And what is your understanding of what the
10 company thinks the equity ratio should be?

11 A. They base it -- they base their equity ratio
12 on what they term allocated capital structure, which
13 comprises of what they claim is 47.5 percent equity ratio.

14 Q. Now, is it fair to say that you have done a
15 discounted cash flow or DCF analysis of a group of companies
16 to determine what you think the authorized return on equity
17 ought to be as a result of this case?

18 A. Yes.

19 Q. And that's a range -- you've calculated a
20 range of 8.64 to 9.64 percent; is that true?

21 A. That's correct.

22 Q. And what's the midpoint, 9.1?

23 A. 9.14, that's correct.

24 Q. And what is your understanding of the
25 company's position as to the appropriate return on equity in

1 this case?

2 A. The company's position is the 12 to 12.5,
3 which I believe is a midpoint of 12.25.

4 Q. Thank you.

5 Would you agree that equity is the highest
6 cost of capital, generally speaking?

7 A. Generally speaking in the capital structure,
8 that's correct.

9 Q. And so the more equity that is determined to
10 be in the capital structure for rate-making purposes, the
11 greater the revenue requirement?

12 A. Well, it depends on, like I said, the
13 capital -- if the capital structure is optimal, you could
14 have actually less equity in a capital structure and -- and
15 it -- assuming that business risk is held constant, you
16 could have a high rate of return if you have a very
17 leveraged company then one that is -- you know, is at the
18 optimal capital structure. So it's the ultimate rate of
19 return that determines the revenue requirement is my point.

20 Q. Well, if equity is the highest cost of
21 capital, if you have more equity in that capital structure,
22 the revenue requirement associated with that would be
23 greater, would it not?

24 A. Like I said, the rate of return is the
25 ultimate number. If you have more equity in the capital

1 structure, assuming all risk is held constant such as
2 business risk, then that return on equity, because there
3 would be less financial risk, would be -- you know, could be
4 lower and also the cost of the debt could be lower.

5 So, therefore, it's -- it's -- your overall
6 rate of return, it's really hard to determine exactly what
7 is the optimal point where you'll have the lowest cost of
8 capital. So it -- you could have a high cost of capital at
9 100 percent debt level that's higher than if you had some
10 equity in your capital structure.

11 Q. Let's bring it back then to this case and the
12 recommendations of the parties here. You're arguing for a
13 35 percent equity ratio and the company's arguing for a
14 47 percent equity ratio. Given that difference, in your
15 mind, isn't there a significant revenue requirement
16 difference between the two proposals?

17 A. I believe so.

18 Q. And what would that be? Can you quantify
19 that?

20 A. I don't -- I think the two issues combined in
21 the last reconciliation I saw was 20 million, but that's with
22 capital structure and return on equity.

23 Q. So together, capital structure and return on
24 equity results in about a \$20 million difference, in your
25 judgment?

1 A. That's based on some accounting records that
2 I've been told about as far as the reconciliation.

3 Q. Would you agree that all other things being
4 equal, a lower equity ratio should be accompanied by a
5 higher cost of equity, all other things being equal?

6 A. All other being equal such as business risk,
7 that's correct.

8 Q. And a lower equity ratio should be accompanied
9 by a higher cost of debt as a general proposition. Is that
10 a fair statement?

11 A. Assuming you hold everything constant, it's
12 the same company and the same business risk, same -- which
13 includes -- business risk includes all sorts of risk such as
14 regulatory --

15 Q. All other things being equal.

16 A. Everything being equal, that would be a
17 logical -- that's financial theory.

18 Q. Thank you.

19 And for a given firm, would you agree the cost
20 of equity should always be higher than cost of debt because
21 equity returns are subordinated to interest payments?

22 A. I agree with that.

23 Q. Do you have your Direct Testimony there in
24 front of you?

25 A. Yes, I do.

1 Q. If you'd turn to page 5 and there I believe --
2 are you there?

3 A. Yes, I am.

4 Q. Beginning on line 33 you set out part of the
5 decision in what is commonly referred to as the Hope Natural
6 Gas case; is that true?

7 A. Yes.

8 Q. And part of that Hope decision discusses the
9 rate-making process; is that true?

10 A. Yes.

11 Q. And that's the process that we're in before
12 the Commission in connection with this case. Would you
13 agree?

14 A. Yes.

15 Q. And in connection with that, would you agree
16 that, as you've indicated at line 33 of your testimony, that
17 the United States Supreme Court held in that case that the
18 return to the equity owner should be commensurate with
19 returns on investments and other enterprises having
20 corresponding risks?

21 A. I believe that's what was stated in that case
22 in 1944, that's correct.

23 Q. And then as you note on line 35, that decision
24 goes on to state, That return, moreover, should be
25 sufficient to assure confidence in the financial integrity

1 of the enterprise so as to maintain its credit and attract
2 capital?

3 A. That's correct.

4 Q. And over at the top of page 6 of your Direct
5 Testimony at lines 1 and 2, you indicate by I think
6 paraphrasing the Hope case that the Hope case restates the
7 concept of comparable returns to include those achieved by
8 any other enterprises having corresponding risks. Correct?

9 A. That's correct.

10 Q. Then over on page 7 of your Direct Testimony,
11 referring to lines 3 through 5, you state, The courts today
12 still believe that a fair return on common equity should be
13 similar to the return for a business with similar risks.

14 A. Yes.

15 Q. But not as high as a highly profitable or
16 speculative venture. Correct?

17 A. Yes.

18 Q. And I assume that continues to be your
19 testimony today as it was in your Direct Testimony that was
20 filed earlier in this case?

21 A. That's my testimony. I just wanted to clarify
22 that there has been a transition in rate of return analysis
23 where rate of return witnesses recommend the cost of
24 capital -- cost of common equity capital.

25 When making recommendations, I think

1 Dr. Murray earlier had indicated that the DCF model is his
2 primary model and that is a cost of capital model. And
3 so -- and actually this is quite consistent with the cost of
4 service principle of rate of return rate base regulation
5 where the objective of the rate of return analysis is to
6 determine what the -- you know, the cost of capital is to
7 the utility.

8 Q. Right. I'll ask you about that in a minute.
9 I'm just focusing on what the Supreme Court has said about
10 that.

11 My question is, would you agree that what the
12 courts have said with respect to a fair return is the
13 standard that this Commission should follow?

14 A. Like I said, there are other things that have
15 to be taken into consideration. We are looking at cost of
16 capital. Like I said, there's been that transition.

17 Yes, there's a court case there, but as far as
18 I am aware, there's been no challenge on using a cost of
19 capital analysis which is the primary analysis used by many
20 commissions in this country to determine what is a fair
21 recommended rate of return, not a comparable earnings
22 analysis, which this Staff has not done since I've been
23 here.

24 Q. Okay. Let me make sure I understand then.
25 Are you saying that what the court has said in the Hope case

1 and the related cases do not have to be followed by this
2 Commission in determining what the fair rate of return is?

3 A. I'm not a lawyer. I just know that what has
4 occurred has been a transition to a cost of capital
5 analysis.

6 Q. So you would think then that perhaps maybe the
7 Commission isn't following what the court has said. Would
8 that be your testimony?

9 A. I would say if you look at page 4 of my Direct
10 Testimony under the Bluefield there's references to returns
11 generally being made at the same time, part of the country
12 as, you know, another company return achieved by other
13 companies, and then item three where it says, Return -- a
14 return sufficient to assure confidence in the financial
15 soundness of the utility, item three being one of the
16 significant items.

17 And then within the Hope case, as you pointed
18 out, that a return, moreover, should be sufficient to assure
19 confidence in the financial integrity of the enterprise so
20 as to maintain its credit and attract capital. I feel that,
21 you know, the Commission needs to adhere to that and a cost
22 of capital recommendation that is reasonable will allow
23 that.

24 Q. Okay. Thank you.

25 I take it you wrote that portion of your

1 testimony starting with your discussion of the Bluefield
2 case on page 4 over through I guess page 7 we just talked
3 about?

4 A. Yes.

5 Q. I think what you just said in response to two
6 questions ago, that you think what the Commission is doing
7 does comport to those cases?

8 A. Yes, I do.

9 Q. Okay. And would you agree then that the
10 standard for a fair return, which has been cited in your
11 testimony and has been cited by the courts and regulatory
12 bodies, speaks in terms of returns being earned by companies
13 of comparable risk?

14 A. That may be one of the standards that is
15 considered.

16 Q. You have some doubt about that? You say it
17 may be?

18 A. I just cited that there were three items, and
19 one of those is the financial soundness and ability to
20 attract capital. There are several items that are
21 mentioned. That's both in the Hope and Bluefield case.

22 Q. Look over at page 5 of your Direct Testimony,
23 if you would. And down in line -- beginning on line 33
24 where you quote the Hope case.

25 A. Yes.

1 Q. And does it not say that, By that standard,
2 the return to the equity owners should be commensurate with
3 returns on investments and other enterprises having
4 corresponding risks?

5 A. Yes. And then it says, That return, moreover,
6 should be sufficient to assure confidence in the financial
7 integrity of the enterprise so as to maintain its credit and
8 attract capital.

9 Q. Fine. Thank you.
10 Would you agree that risk is extremely
11 important to what we are doing here today?

12 A. Yes.

13 Q. Is it possible for you to determine through
14 publications what returns utilities are actually earning?
15 Is that possible to determine?

16 A. There is -- obviously Mr. John Reed referred
17 to Regulatory Research Associates. I, myself, do not
18 regularly look at that -- you know, that information.

19 Whenever I do my analysis to recommend a cost
20 of capital, I'm looking at economic models, cost of capital
21 models which are the discounted cash flow model, the capital
22 asset pricing model and the risk premium model.

23 But if I were so inclined to want to review
24 that, such as seeing an S&P report -- basically when I was
25 reviewing some comments from S&P to find out what type of

1 allowed ROEs are being -- are being ruled on in other states
2 commissions I can -- you know, I can come across that
3 obviously.

4 Q. Okay. That wasn't really my question. My
5 question wasn't what was being allowed. My question was,
6 can you determine in some instances what companies are
7 actually earning?

8 A. I can review Value Line information, but
9 those -- you have to take that with a grain of salt because
10 obviously with the companies that are followed by Value
11 Line, they're just like much -- you know, any other utility
12 company out there. They have other operations within --
13 within their consolidated operations that are not just
14 utility -- a regulated utility.

15 Q. Well, let me ask you this. If I'm an investor
16 and I want to invest in a utility company and I want to know
17 what return that company is earning, is there some way for
18 me to find that out?

19 A. If you're investing in a consolidated utility
20 and you're going to invest in a stock that comprises all the
21 operations of that utility, yes, you can use Value Line to
22 determine what the earned ROE was in any given past year for
23 the last 15 years maybe.

24 Q. What about Empire District Electric Company?
25 How would you characterize that company?

1 A. It's predominantly a regulated electric
2 distribution utility and -- well, integrated utility, I'm
3 sorry. But they do have -- you know, they get involved in
4 some nonregulated investments as well.

5 Q. And can you go to some publication or some
6 source and find out what they're actually earning?

7 A. Are you referring to Empire and the
8 consolidated operations or are you referring to Empire
9 Missouri jurisdictional utility operations?

10 Q. I'm talking about Empire.

11 A. Consolidated operations, like I said, Value
12 Line -- you could refer to Value Line and find out exactly
13 what they're earning.

14 Q. And would you believe that information to be
15 accurate?

16 A. For consolidated operations, I would.

17 Q. Would that be true with any other figures that
18 Value Line might publish for any other utility companies?

19 A. They're usually accurate. Sometimes they're
20 revised a year or two later because of certain accounting
21 changes.

22 Q. You mentioned authorized returns. Is there
23 some way for you to determine or verify what regulatory
24 agencies are authorizing for utility companies?

25 A. Mr. John Reed, he cited Regulatory Research

1 Associates. I believe that to be the -- you know, one of
2 the main research organizations out there that, quote,
3 allowed ROEs in various jurisdictions.

4 Q. Is there another way to determine that
5 information other than referring to that source?

6 A. I believe C.A. Turner Utility Reports may have
7 some allowed ROE indications, but I don't believe they have
8 the dates of those allowed ROEs. So that information,
9 especially if it's going back you know 10 years from now,
10 would be of limited use because that obviously reflects a
11 different economic and capital market environment than we
12 have now.

13 Q. Can you access in some fashion, electronically
14 or otherwise, the decisions issued by other state agencies,
15 for example, the Kansas Corporation Commission?

16 A. If I was inclined to -- to look at their
17 website, I'm sure I could.

18 Q. Have you ever done that?

19 A. Maybe in context of the last Aquila case to
20 see what the witness Mr. John Dunn was doing in the Westar
21 Energy Case I looked at their website. But as far as
22 looking at their allowed ROEs, I don't know that I gave that
23 much consideration.

24 Q. Have you ever looked at any decisions of other
25 Public Utility Commissions or Public Service Commissions and

1 read those decisions where they discussed the authorized
2 returns that they were allowing for the companies under
3 their jurisdiction?

4 A. No.

5 Q. You never have?

6 A. No. I -- there's many things that go on -- I
7 have -- I have enough stuff to do here as far as doing my
8 economic analysis using the DCF model and the capital asset
9 pricing model. As far as what goes on in the specifics of
10 cases throughout this country, I would be working 24/7 to be
11 able to keep up with that.

12 Q. Turning to page 1 of your Direct Testimony,
13 you state there that you're currently employed as a
14 financial analyst for the Missouri Public Service
15 Commission?

16 A. Yes.

17 Q. And is that your present position today?

18 A. Actually, I've been reclassified. I'm an
19 auditor.

20 Q. And what does that mean?

21 A. It just means I have a different title.

22 Q. Okay. Your job functions are still the same?

23 A. I'm identified as a financial analyst, just to
24 let you know.

25 Q. And am I correct that you're the only Staff

1 witness who's testifying in this case with respect to cost
2 of capital issues?

3 A. Yes.

4 Q. Over at page 2 of your Direct Testimony at
5 line 16 you state, My testimony is presented to recommend to
6 the Commission a fair and reasonable rate of return for
7 Aquila, Inc., d/b/a Aquila Networks MPS and Aquila Networks
8 L&P. Correct?

9 A. Correct.

10 Q. Then there's a following question on that page
11 which is, Have you prepared any schedules to your analysis
12 of the cost of capital for MPS and L&P? And your answer is,
13 Yes; is that correct?

14 A. That's correct.

15 Q. And MPS and L&P are the Missouri operating
16 divisions of Aquila; is that true?

17 A. That's correct.

18 Q. And would you agree with me that those
19 operating divisions have hard assets in the ground here in
20 Missouri?

21 A. Yes.

22 Q. And what would those assets consist of, to
23 your knowledge?

24 A. Generation and distribution facilities,
25 transmission facilities.

1 Q. Anything else that just comes to find?

2 A. Those are the main assets that I know are
3 associated with the regulated electric utility. They may
4 have some obviously natural gas distribution as well and
5 storage maybe.

6 Q. And would you agree that those assets have
7 been financed in some fashion?

8 A. Yes.

9 Q. And that would be with some amount of debt and
10 some amount of equity?

11 A. Yes.

12 Q. And would you agree that those assets that you
13 have described generally are the assets that are subject to
14 this Commission's jurisdiction?

15 A. That's correct.

16 Q. I think you mentioned this earlier in response
17 to one of my questions. Turning to the bottom of page 5 you
18 mention that the -- what the Hope case stands for, in your
19 opinion, and you noted that these returns that are
20 authorized by regulatory agencies should be sufficient to
21 assure confidence in the financial integrity of the
22 enterprise so as to maintain its credit and to attract
23 capital. Correct?

24 A. That's correct.

25 Q. Given that, would you agree with me that one

1 of your responsibilities as the Staff's chief financial
2 witness in this case is to make sure that the Staff's
3 recommendation in this proceeding did not impair the
4 financial health of Aquila's MPS and L&P operations?

5 A. My duty is to recommend a fair and reasonable
6 rate of return for MoPub and St. Joe operations, which a
7 fair and reasonable rate of return would not impair the
8 financial health of MPS and L&P.

9 Q. So your answer would be yes, that you would
10 consider that to be one of your responsibilities?

11 A. Yes.

12 Q. And in connection with that, would you agree
13 with me that as the Staff's chief financial witness in this
14 case, you can't make your recommendation in a vacuum?

15 A. No.

16 Q. You don't agree with that?

17 A. Repeat the question. I'm sorry.

18 Q. Would you agree with me that as the Staff's
19 chief financial witness, you can't simply make a cost of
20 capital recommendation in a vacuum?

21 A. That's true, I can't make it in a vacuum.
22 There's many things you have to look at, economic market,
23 capital market environment, correct.

24 Q. And would one of the things you would have to
25 look at would be the ramifications of your recommendation

1 with respect to the financial integrity of Aquila's
2 operating divisions. Wouldn't you agree with that?

3 A. Yes. I would test the reasonableness of my
4 recommendation, that's correct.

5 Q. You would test it with respect to the
6 financial integrity of the operating divisions?

7 A. When you refer to "financial integrity," I
8 assume you're referring to my pre-tax interest coverage
9 calculation that is --

10 Q. Well, let me ask you this. What is your
11 definition of financial integrity?

12 A. Financial integrity would -- we would like to
13 see utility companies with a triple B investment grade
14 credit rating. Of course, that's not possible with some
15 companies because of the fact that they're associated with
16 other operations.

17 Q. If you would, please, turn back to page 5 of
18 your testimony.

19 A. Yes.

20 Q. At the bottom, The return should be sufficient
21 to assure confidence in the financial integrity of the
22 enterprise.

23 And in this case the enterprise is MPS and
24 L&P. Correct?

25 A. That's correct.

1 Q. So as to maintain its credit and to attract
2 capital.

3 Do you agree with that?

4 A. Yes.

5 Q. Okay. And, therefore, do I understand you to
6 say that you would test your recommendation in this case
7 against L&P and MPS's ability to maintain this credit and
8 attract capital?

9 A. Unfortunately, this is -- I'm just going to
10 get into what is difficult about when you're evaluating or
11 trying to determine what -- you know, what rate of return is
12 going to attract -- be able to attract capital, maintain the
13 credit rating of MoPub and St. Joe.

14 Q. Well, let me ask you this. Can you answer
15 that question yes or no and then give an explanation? Can
16 you do that?

17 A. Repeat the question, please.

18 Q. Well, the question is, you've come up with a
19 recommendation and you said you've tested that against
20 something. And my question is, have you tested that, in
21 accordance with the Hope case, against it should be
22 sufficient to assure confidence in the financial integrity
23 of the enterprise so as to maintain its credit and attract
24 capital? Have you tested your recommendation with that
25 standard in mind?

1 A. Yes.

2 Q. Okay. Let me ask you, earlier you indicated
3 that you agreed that the legal precedent for a fair rate of
4 return speaks in terms of returns being earned by companies
5 of comparable risk. And you said that risk was important in
6 this process; is that true?

7 A. Yes.

8 Q. And is it your belief that you've tried to
9 apply that legal principle in this case in your testimony?

10 A. I took all the considerations that were
11 indicated in the Hope and Bluefield case as far as things
12 that should be weighed to determine what is reasonable.

13 Q. In connection with that, you have proceeded to
14 select a group of six companies which you believe to be of
15 comparable risk to Aquila; is that true?

16 A. Comparable to MoPub and St. Joe, that's
17 correct.

18 Q. And those companies are set out in your
19 testimony in various schedules; is that true?

20 A. That's correct.

21 Q. And what are those companies? Can you just
22 rattle off the names for us, please?

23 A. Cleco, DPL, DQE Hawaiian Electric, IDACORP,
24 NSTAR.

25 Q. And, once again, would it be your testimony

1 that your goal here is to be consistent with the Hope case
2 and find a group of other enterprises having corresponding
3 risks to Aquila's MPS and L&P operations?

4 A. That's correct.

5 Q. Now, with respect to risk, would you agree
6 with me that what we're talking about basically are two
7 types of risk, one being business risk and the other
8 financial risk?

9 A. That's correct.

10 Q. And would you agree that business risk is the
11 risk which reflects items that could impact the business
12 operations of a company?

13 A. All sorts of items, that's correct.

14 Q. Can you give us some examples for electric
15 utilities?

16 A. Regulatory economic management, which
17 competition doesn't play as much a part with a regulated
18 utility, but just certain environmental factors, etc.

19 Q. Weather is that --

20 A. Weather exactly.

21 Q. -- a business risk?

22 How about rate of economic growth in the
23 service area? Is that a business risk?

24 A. That's a risk. That's part of economic risk.

25 Q. Whether or not the company would have nuclear

1 generation in its generation mix, would that be a business
2 risk?

3 A. That's correct.

4 Q. And then would you agree there's another type
5 of risk called financial risk?

6 A.. Yes.

7 Q. And I think looking at your Surrebuttal
8 Testimony at pages 7 and 8, if you could turn to that,
9 please.

10 A. Yes.

11 Q. There in your Surrebuttal Testimony at the
12 bottom you talk about financial risk and you offer a
13 definition of -- or a generally accepted definition of
14 financial risk; is that true?

15 A. That's correct.

16 Q. And that definition appears at the top of
17 page 8?

18 A. Yes.

19 Q. And according to you, that generally accepted
20 definition of financial risk is the ability of a company to
21 meet its debt obligations; is that true?

22 A. That's true.

23 Q. What is the source of your generally accepted
24 definition of financial risk as you have defined it there on
25 page 8?

1 A. General knowledge.

2 Q. General knowledge?

3 A. I mean, I've went to college and had a finance
4 curriculum, I've been working here for some time. I
5 couldn't tell you exactly if I -- I didn't have a specific
6 textbook where I came up with this definition, if that's
7 what you're asking.

8 Q. That was going to be my next question. Did
9 you have a textbook in college that had that definition of
10 financial risk in it that you recall?

11 A. It may not have had this specific wording.
12 Obviously that would be plagiarism.

13 Q. Looking again at your definition, the ability
14 of a company to meet its debt obligations, isn't that really
15 interest coverage?

16 A. Yes. Cash coverage of their debt service.

17 Q. And so it's really not an accepted definition
18 of financial risk?

19 A. No. It's one of the things that the credit
20 agencies look at as far as determining -- as far as your --
21 you could have a large amount of debt in a capital structure
22 at a very -- at a lower interest rate and the ability of the
23 company to meet that debt service is going to be determined
24 by, you know, the cash flow coverage.

25 And I know that S&P, when they discuss

1 financial risk indicators, these are the exact ratios
2 they're talking about. It's the coverage of the interest
3 payments that they -- otherwise, if they can't cover it, you
4 know, they're at risk of a default.

5 Q. Have you ever heard anyone say that a
6 definition of financial risk is a measure of a degree of
7 debt leverage in a company's capital structure?

8 A. I'd say that's the textbook definition.

9 Q. You have textbooks at college that had that
10 definition in them?

11 A. And I think there's other textbooks I've seen
12 that have different definitions. Just as there are many
13 different regulatory textbooks that have different ideas on
14 them.

15 Q. I think you hit on this earlier talking about
16 risk and you may have thrown it in the category of business
17 risk, but in your mind is there such a thing as regulatory
18 risk?

19 A. Yes.

20 Q. And what is that?

21 A. Just the risk of outcome of proceedings once a
22 rate case starts. Obviously investors are very concerned,
23 as with Aquila in this case, Aquila's investors, as to the
24 outcome of the proceeding as far as, you know, the decisions
25 that are going to be made.

1 Q. And all of these risks that we've talked about
2 here this morning, would you agree that they should be
3 considered in the selection of comparable or proxy companies
4 for a cost of capital analysis?

5 A. Yes.

6 Q. And these are items that are critically
7 important, are they not, to a cost of capital analysis?

8 A. Risk is important, yes.

9 Q. Out of curiosity, I know you talk about your
10 definition of financial risk in your Surrebuttal Testimony
11 on pages 7 and 8. Anywhere in your Direct or Rebuttal
12 Testimony did you discuss your definitions of business risk
13 or financial risk, do you recall?

14 A. Do you want me to review that right now?
15 Because I don't recall offhand.

16 Q. You don't recall offhand?

17 A. There's a lot of testimony here obviously.

18 Q. I'm not going to ask you to do that, but maybe
19 while we're on a break you could just glance through that
20 and we can come back to that later.

21 A. Sure.

22 Q. Turn, if you would, please, to page 26 of your
23 Direct Testimony.

24 A. Excuse me. I'm taking a note here. Okay.
25 Sorry.

1 Q. Yeah. That's fine. Page 26 of your Direct
2 Testimony, please.

3 A. Yes.

4 Q. I would refer you there to line 8 where you
5 indicate that your Schedule 11 to your Direct Testimony
6 presents a list of market traded electric utility
7 companies --

8 A. Yes.

9 Q. -- monitored by Value Line?
10 And how many companies were on that list, just
11 approximately, do you know?

12 A. Quite a few. Anywhere from --

13 Q. Order of magnitude.

14 A. It's a -- I mean, if you take a look at
15 Schedule 11, obviously I don't have time to count up all the
16 rows, but there's probably 50 to 80, somewhere in there.

17 Q. And it's from that list that you selected your
18 six proxy companies. Is that a fair statement?

19 A. That's correct.

20 Q. And then starting on line 9 you state, The
21 criteria that I used to select the comparable companies are
22 as follows. And you list eight items there; is that true?

23 A. That's correct.

24 Q. Now, looking at the first criteria that you
25 use to select your proxy companies, stock publicly traded,

1 would you agree with me that this criteria really has
2 nothing to do with risk as you have defined risk?

3 A. Well, if a stock's not publicly traded, it may
4 have liquidity risk issues. If it's not publicly traded,
5 then there's not a market -- a recognized market where that
6 stock could be traded, so liquidity risk would be an issue.

7 Q. What kind of risk is liquidity risk? Is that
8 a business or a financial risk?

9 A. It's just -- I'm using an analogy. Before
10 ebay, it might have been hard to sell some fairly unique
11 items, but now that that market's been created, people that
12 have unique interests, there's a market there now to buy and
13 sell, so -- that they normally wouldn't be able to sell that
14 and they may have had to offer a hire premium in order to be
15 able to sell something that there really wasn't a market.
16 So if a stock's not publicly traded, obviously you won't
17 have somewhere to go to just offer that -- that stock.

18 Q. And there's a risk that you can assign to
19 that?

20 A. Well, a general -- a general conceptual risk,
21 yes.

22 Q. And then refer to item No. 2, Information
23 printed in Value Line. That's your second criteria?

24 A. Yes.

25 Q. Would you agree that that has nothing to do

1 with risk, whether or not information is published in Value
2 Line?

3 A. Well, obviously investors -- if they're trying
4 to get information on investments that they want to -- that
5 they're considering investing in, it's important to have as
6 much information as possible.

7 And with Value Line being an independent
8 research service, if -- you know, if they have that
9 information available to them by a recognized research
10 service, that may minimize the risk of them, say, having to
11 make a private equity investment in a company that's not
12 followed by Value Line where they have to rely specifically
13 on a company.

14 Q. Well, I thought you indicated earlier that a
15 financial risk -- and you said the textbook definition was
16 the amount of leverage in the capital structure; is that
17 true?

18 A. Yes. But I think you just said general risk
19 and I --

20 Q. All we're talking -- we're talking about
21 business and financial risk. And my question is, do you
22 define financial risk to mean the amount of leverage in the
23 capital structure; is that true?

24 A. Yes.

25 Q. Now, what does whether or not information is

1 printed in Value Line have to do with the amount of leverage
2 in the capital structure?

3 A. It has nothing to do with the amount of
4 leverage.

5 Q. Okay. And look at your criteria No. 5, Ten
6 years of data available. Would you agree with me that that
7 has nothing to do with business or financial risk, whether
8 or not 10 years of data is available?

9 A. Okay. Let's just clarify. When you're
10 referring to business and financial risk, obviously you're
11 referring to the risk of the company. Does not necessarily
12 mean that this is the risk the investor may be taking by
13 investing in a stock when 10 years of data is not available.

14 Q. I'm talking about the definitions that you
15 gave us earlier. You said what business risk was and you
16 defined that and you gave us some examples and you said what
17 financial risk was, the amount of leverage in the capital
18 structure.

19 So my question is, with those definitions in
20 mind, what does the fact that whether or not 10 years of
21 data is available have to do with either of those risks?

22 A. Well, if you have 10 years of data to evaluate
23 the trends in capital structure within any given company,
24 you can evaluate the financial risk over time.

25 Q. But what does the fact of whether or not that

1 data is available have to do with the actual business or
2 financial risk of the company?

3 A. Well, if the data is not available, you don't
4 have any trends to look at as far as what type of financial
5 risk that the company, you know, typically incurred as far
6 as its leverage.

7 Q. You don't have anything to look at, but what
8 does that fact have to do with the actual business or
9 financial risk of the company?

10 A. As far as whether that's available has nothing
11 to do with the company specifically.

12 Q. Okay. And look at No. 8, No Missouri
13 operations. Would you agree with me that whether or not a
14 particular company has utility operations in Missouri has
15 nothing to do with business or financial risk?

16 A. Obviously every jurisdiction has its own
17 regulatory risk as you referred to, so there could be some
18 risk factors there.

19 Q. There could be some regulatory risk?

20 A. Exactly.

21 Q. But not business or financial risk?

22 A. No, regulatory is part of business risk.

23 Q. Would it be fair to say that these items I've
24 focused on, Items 1, 2, 5 and 8, those criteria really don't
25 relate to risk but if they do, it's only in a very remote

1 sense and you just simply used those to help narrow down
2 your sample of companies?

3 A. If you're going to just pick out those
4 specific items, I'll agree with that.

5 Q. Turn to your Rebuttal Testimony, if you would,
6 please, page 25.

7 A. Yes.

8 Q. There on lines 12 and 13 of page 25 of your
9 Rebuttal Testimony you say, Because smaller utilities
10 operate in a regulated environment just as large utilities
11 do, making an adjustment for firm size is not appropriate?

12 A. Yes.

13 Q. And then at the bottom I think of page 24 and
14 the top of page 25 you cite a study that you believe
15 supports that proposition; is that true?

16 A. That's correct.

17 Q. Do you know whether or not this Commission has
18 ever made an upward adjustment in rate of return to reflect
19 and recognize the small size of a utility company?

20 A. I don't believe they have, but -- not as far
21 as my personal experience.

22 Q. Okay. If they had, would you think that the
23 Commission had made a mistake?

24 A. That would not have been my recommendation.
25 The Commission obviously weighs the evidence of any case.

1 Q. That's fair. I understand.

2 In any event, that wouldn't have been your
3 recommendation and you would testify today that an
4 adjustment for size, in your judgment's, not appropriate; is
5 that true?

6 A. That's correct.

7 Q. Then turning back to your Direct Testimony
8 again, please, at page 26 where you listed your criteria
9 there your third criteria states, Total capitalization less
10 than 5 billion; is that true?

11 A. That's correct.

12 Q. And that's a criteria related to size. Would
13 you agree?

14 A. Yes, it is.

15 Q. But you also testified that an adjustment for
16 size should not be considered; is that true?

17 A. Yes.

18 Q. So wouldn't you agree that that criteria,
19 No. 3, really isn't a valid selection metric for measuring
20 risk?

21 A. No. I wouldn't say that's necessarily the
22 case. Obviously, you know, size is something that analysts
23 think -- think about. But as far as what I'm rebutting is
24 whether or not a specific size premium adjustment should be
25 made especially when it's a division of a larger utility.

1 I don't think there's anything wrong with
2 trying to limit the size of -- for purpose of selecting your
3 comparable companies initially, but as far as -- you know,
4 if you don't choose comparable companies, if you just choose
5 to eliminate the -- you know, the size requirement, then you
6 want to make a size adjustment, my point is you -- if you
7 want to avoid that, make sure you use a -- you know, use a
8 selection criteria that takes that into consideration if
9 there is a chance.

10 My point is there's nothing conclusive on a
11 size premium adjustment -- excuse me, a size premium
12 adjustment being made.

13 Q. If size is a valid selection metric -- which
14 is what you're saying, isn't it?

15 A. I'm saying it's a metric that I used and it
16 just -- it brings -- it eliminates -- it tries to eliminate
17 that possible argument coming from the company because I
18 know it's used every time.

19 Q. What is that?

20 A. That a size premium adjustment should be made.
21 So it just heads off that possibility.

22 Q. And what companies have made that?

23 A. Just about every company that comes in here, I
24 believe.

25 Q. And do you know how has the Commission reacted

1 to that? Do you know?

2 A. I think I just indicated I didn't know whether
3 they made a size premium adjustment.

4 Q. And if your knowledge on that subject was
5 incorrect and, in fact, there is a case or cases where the
6 Commission has made an upward adjustment and return because
7 of the small size of a company, would that change your view
8 on this topic?

9 A. No.

10 Q. What companies did you eliminate through the
11 use of your third criteria, the size criteria?

12 A. Okay. We're going to have a lengthy list
13 here.

14 Q. How many were there? Are they set out in your
15 testimony?

16 A. Yeah. They're set out on Schedule 11.

17 Q. And how can I identify those looking at your
18 Schedule 11?

19 A. Look at column 3, total capitalization less
20 than 5 billion. And then every -- every company where the
21 answer is no was eliminated.

22 Q. So if size doesn't matter, then those should
23 all be put back in; is that true?

24 A. I'm saying size can be -- I'm arguing against
25 any size premium adjustment. I'm not indicating that it's

1 not something that should be considered when you're
2 narrowing down your comparable companies.

3 Q. Well, we're not talking here about the return
4 on equity or premium adjustment though. We're talking about
5 your selection of comparable companies here. You ended up
6 with 6 companies out of maybe 80 you indicated, and I'm
7 trying to figure out how you utilized the Hope standard of
8 risk in selecting those 6 companies.

9 And your item No. 3, total capitalization less
10 than \$5 billion, appears to be inconsistent with later
11 testimony that suggests no adjustment should be made for
12 size.

13 A. I don't agree it's inconsistent. I -- once
14 again, I'm trying to come up with comparable companies and
15 head off -- basically I realize companies make this argument
16 for a size premium adjustment, you know, over and over. As
17 far as quantifying this specific adjustment, I don't agree
18 with that. And if you want to try to head that off, which I
19 did, you put in a total capitalization less than a certain
20 amount to try to head off that argument.

21 Q. Let's go in that direction. Let's assume that
22 argument has some validity and this Commission may make such
23 an adjustment and allow a return to a small company.
24 Shouldn't those companies be put back in the pool?

25 A. No. Because, once again, I would not agree

1 with the size premium adjustment.

2 Q. Okay. And if the Commission has found
3 otherwise, your opinion would differ from what the
4 Commission has found; is that true?

5 A. Sure.

6 Q. Okay. Take a look at your No. 4 criteria
7 there on page 26, Greater than 70 percent of revenues
8 received from electric utility operations.

9 A. Yes.

10 Q. And I think you indicated that the application
11 of that criteria eliminated 20 additional companies?

12 A. Yes.

13 Q. Were any of those companies what we would
14 refer to as combination companies?

15 A. You refer to combination. Can you define what
16 you mean by --

17 Q. Well, what's your understanding of a
18 combination company?

19 A. I think there was a definition given earlier
20 that a combination company would be a electric and natural
21 gas company. I'm just wanting to make sure you're not
22 referring to diversified company, which diversified
23 companies get into much of the nonregulated energy market
24 trading, etc., etc.

25 Q. Would you except as a definition of a

1 combination company one that was in both regulated natural
2 gas and regulated electric operations?

3 A. That may be a portion of their operations,
4 that's correct.

5 Q. Is Ameren a combination company, for example?

6 A. Ameren has natural gas and electric
7 operations, that's correct.

8 Q. And how about Aquila?

9 A. Aquila has natural gas, electric operations.

10 Q. Would the fact that the combination company
11 might not have more than 70 percent of its revenues from
12 electric utility operations simply reflect the sale of
13 its -- of natural gas by its natural gas distribution
14 operations?

15 A. I don't know. I relied on C.A. Turner Utility
16 Reports for this. I don't know what they look at as far as
17 to determine their percent of revenues -- electric revenues
18 as far as the specific details.

19 Q. Well, let me ask you just -- let's talk about
20 AmerenUE, for example. Do you know whether or not they get
21 more than 70 percent of their revenues from electric
22 operations?

23 A. AmerenUE, I believe they do. Obviously that's
24 the largest part of their operations.

25 Q. Let's assume that they got 65 percent of their

1 revenues from electric operations and the remainder
2 35 percent from natural gas operations. Applying your
3 criteria No. 4, you would eliminate them, is that true,
4 because they don't have more than 70 percent -- 70 percent
5 or greater?

6 A. Assuming that's the case, that's correct.

7 Q. Yeah. Just assuming that with me.

8 A. That would be Ameren Corps, the consolidated
9 Ameren Corporation.

10 Q. Just pick X company.

11 A. Any company, yes.

12 Q. It doesn't matter what company it is.

13 If 65 percent of its revenue is from regulated electric
14 operations, 35 percent of natural gas regulated operations,
15 you would eliminate them; isn't that true?

16 A. And let's clarify. With C.A. Turner it does,
17 in --

18 Q. Well, forget about C.A. Turner. Just the
19 hypothetical question, some company, any company, The Jim
20 Swearngen Utility.

21 A. Well, I still need to clarify. Just electric
22 operations, in general, not regulated electric operations.
23 It's very hard to find any -- you know, any type of source
24 out there, unfortunately, that really breaks down the
25 regulated electric and nonregulated electric. It's a very

1 real problem.

2 Q. I understand that. What I'm trying to get
3 your rationale here for that 70 percent cut-off point. And
4 my question to you is, 65 percent come from regulated
5 electric operations, 35 from regulated gas. Just assume
6 that to be the case. You would eliminate that company?

7 A. Exactly.

8 Q. That's right.

9 And let me ask you this. Just because
10 35 percent of that company's revenues came from regulated
11 gas operations, that would not necessarily reflect a higher
12 operating risk for that company, would it?

13 A. When you refer to "operating," are you
14 referring to business risk?

15 Q. Sure.

16 A. I mean, with any given company it's not
17 necessarily going to -- as far as the percent of revenues,
18 there are all sorts of things that come into play that are
19 going to determine the overall risk level of a company such
20 as management and what have you.

21 This is just something to -- in order to try
22 to achieve electric utilities, which is what MoPub and
23 St. Joe are. And that's what's -- the subject of this case,
24 I should say, is what MoPub and St. Joe are because
25 obviously they have gas operations and steam operations, but

1 the subject of this case is their electric operations.

2 Q. Is it your view that gas operations are more
3 risky than electric operations?

4 A. I think there is a general view that gas
5 operations used to be riskier than electric operations, but
6 obviously with deregulation and many electric utility
7 companies being involved with nonregulated activities,
8 there's probably been some shift in that. And -- and that's
9 something that may change that.

10 Q. So you wouldn't subscribe to the belief that
11 gas operations are necessarily more risky than electric
12 operations?

13 A. I'm saying it's very hard to tell at this
14 point in time.

15 Q. Would you agree that as a general proposition,
16 there's little difference in risk between a regulated
17 electric utility and a regulated gas distribution utility?

18 A. No. Because with vertically integrated
19 regulated electric utility, you have generation and
20 purchased power. Obviously with natural gas you have
21 distribution and they have to purchase that gas. So, no, I
22 wouldn't say they're the same risk. And that's why
23 I -- with the gas case I selected natural gas utility
24 companies.

25 Q. Would you say there's little difference in

1 that risk?

2 A. I haven't quantified that.

3 Q. So you don't know?

4 A. I don't know.

5 Q. Would you agree with me that your criteria

6 No. 4 is not really a measure of risk?

7 A. No. I'd say it is -- it's a very big measure
8 of risk. The predominant criteria when choosing comparable
9 companies is to make sure that those comparable companies
10 are in the same general type of business operations, which
11 is a very big reflection of risk, which is the business risk
12 the company operates in.

13 Q. The same type of business operations?

14 A. Yes. I say that's -- that's probably the
15 number one in selecting comparable companies.

16 Q. And I think you indicated that Aquila is a
17 combination company; is that right?

18 A. Yes.

19 Q. And that perhaps some of the companies that
20 you eliminated by applying your criteria No. 4 is a direct
21 result of the fact that those are combination companies and
22 derive significant revenues from their natural gas
23 operations; is that true?

24 A. But we're looking at the electric operations
25 of MoPub and St. Joe. I'm trying to evaluate the electric

1 operations of MoPub and St. Joe, not the gas operations.

2 That was evaluated in a gas case.

3 Q. I understand that. But are you not, through
4 your selection criteria, attempting to find companies of
5 comparable risk?

6 A. Of comparable risks to electric operations,
7 correct.

8 Q. And what does the greater than 70 percent of
9 revenues received from electric utility operations have to
10 do with risk given the fact that you testified you didn't
11 think there was a difference between the risk for an
12 electric utility and the risk for a natural gas company?

13 A. Let me clarify. I didn't say I didn't think
14 there was a difference between the risk of natural gas and
15 electric utility. I said as far as quantifying that, I do
16 not know at this point in time, especially because of the
17 fact that electric utilities have become involved in
18 nonregulated activities.

19 Q. But you're convinced there is a difference in
20 risk?

21 A. I'm sure there is some difference and it
22 depends on the comparable groups you pick out.

23 Q. What is more risky, a natural gas company or
24 an electric company? Just that -- a pure natural gas
25 company and a pure electric utility company, just assume

1 that hypothetically. Which one is -- all other things being
2 equal, which one is riskier?

3 A. Can you please define pure gas?

4 Q. That's all they're in, just a pure play
5 regulated electric utility company.

6 A. Vertically integrated?

7 Q. Yeah. They don't do anything else.

8 A. They generate --

9 Q. Right.

10 A. -- electricity?

11 Q. Sure.

12 A. Nuclear generation?

13 Q. You make the assumption.

14 A. There are a lot of assumptions. You pointed
15 out already there's a lot of different business risks that
16 may come into play for an electric utility versus a natural
17 gas utility.

18 In -- the general understanding before a lot
19 of electric companies got into nonregulated activities was
20 that electric utilities were less risky than natural gas
21 utilities. However, with electric utilities veering off
22 into many nonregulated activities and still being classified
23 as electric utility companies, I would venture to say that,
24 you know, you cannot make that general classification.
25 And -- and I'm not trying to make that general

1 classification here in this case.

2 Q. Let me ask you, you mentioned no nuclear
3 operations. That's item No. 6 in your selection criteria?

4 A. Yes.

5 Q. And item No. 7, At least investment grade
6 credit rating?

7 A. Yes. That's very important.

8 Q. And why is that important?

9 A. Because that entails all business and
10 financial risk.

11 Q. If you just focused on those two items, six
12 and seven, as screening criteria, would you agree that your
13 sample group would be much larger than the six companies
14 that you selected?

15 A. I don't know. I didn't do that analysis.

16 Q. You didn't do what analysis?

17 A. To determine if my sample group would be
18 larger if I just used those.

19 Q. Do you have any idea at all?

20 A. No. I didn't look at that.

21 Q. So are you then saying that you did not
22 eliminate from your sample group any companies based on
23 items 1 through 5 and item 8?

24 A. Oh, I eliminated those, but there's many
25 companies there that I -- obviously when the lines become

1 blank, I didn't even bother to look at whether or not it's
2 an investment grade credit rating or if there's nuclear
3 operations. So it's really hard for me to tell.

4 Q. If you eliminated companies by applying
5 criteria 1 through 5 and 8, wouldn't it stand to reason that
6 if you didn't apply those criterias, those companies would
7 have not been eliminated?

8 A. You would think so.

9 Q. But you don't have any idea how many that --

10 A. No. I have no idea.

11 Q. Now, one of your proxy companies is DPL, Inc.;
12 is that true?

13 A. That's correct.

14 Q. And what is DPL, Inc.?

15 A. Dayton Power & Light.

16 Q. And where is it located?

17 A. Ohio.

18 Q. And what kind of business is it in?

19 A. It's obviously an electric utility.

20 Q. You say it's located in Ohio. Do you know
21 what --

22 A. I mean, that's -- I think of Dayton Power &
23 Light. Obviously my geography's not great, but yeah, that's
24 my general understanding.

25 MR. SWEARENGEN: Could we take a brief recess?

1 Maybe we want to break for lunch and come back early.

2 JUDGE JONES: Why do you need to take a recess
3 now?

4 MR. SWEARENGEN: I just need to check some
5 materials and maybe I can shorten this.

6 JUDGE JONES: Does anyone have any objection
7 to that?

8 Well, let's go ahead and break for lunch then.
9 It's a quarter till noon and why don't we come back at
10 one o'clock.

11 MR. SWEARENGEN: Thank you.

12 JUDGE JONES: Actually go ahead and make it 15
13 after 1:00 so we can catch the stragglers. We're adjourned
14 until 1:15.

15 (A recess was taken.)

16 JUDGE JONES: We're back on the record with
17 Case No. ER-2004-0034 and we're continuing with the
18 cross-examination of Staff's witness David Murray.

19 Mr. Swearengen, you may proceed.

20 MR. SWEARENGEN: Thank you, Judge.

21 BY MR. SWEARENGEN:

22 Q. Before lunch, Mr. Murray, we were talking
23 about the proxy companies that you had selected which are
24 set out in various schedules attached to your testimony.
25 And I asked you about Dayton -- or DPL and I believe you

1 were describing what DPL is. What was your answer?

2 A. It's a holding company for Dayton Power &
3 Light, which is their main electric utility for DPL, which I
4 think you asked where they are located and I indicated in --
5 I said that was in Dayton, it was Dayton, Ohio.

6 Q. Dayton, Ohio. And it's a regulated subsidiary
7 of DPL, Inc. Is that your understanding?

8 A. Yes.

9 Q. And have you read any of the financial
10 literature in connection with DPL?

11 A. The information I may have read on DPL is from
12 Value Line and maybe some Standard and Poor's credit rating
13 research reports.

14 Q. Are you aware then that on December 10 of 2003
15 Standard and Poor's rating services announced that it had
16 lowered DPL's corporate credit rating, including the credit
17 rating of its regulated subsidiary from triple B to double
18 B?

19 A. I believe that was pointed out actually in
20 Dr. Murry's testimony.

21 Q. And were you aware of that fact when you put
22 together your testimony in this proceeding?

23 A. No, I was not.

24 Q. Would you agree that by lowering the credit
25 rating from triple B to double B, that DPL is no longer

1 investment grade?

2 A. I would agree with that.

3 Q. And, therefore, as a result, DPL would not
4 meet your criteria No. 7, At least an investment grade
5 rating?

6 A. If I were to update my study, that's correct.

7 Q. So based on that, would you agree with me that
8 DPL should be removed from your proxy group by your own
9 definition?

10 A. If I updated the study, I would agree with
11 that. But, no, since when I did the study they were
12 investment grade, they met that criteria at that time.

13 Q. And when did you do that study?

14 A. Probably shortly before -- I believe a lot of
15 the -- a lot of the research, Value Line reports that I used
16 were dated October 3rd, 2003, testimony was filed
17 December 9th. So within that time frame. I'm sure it was
18 whenever I was looking at that. Maybe -- to be honest with
19 you, as far as specific dates that I was preparing the
20 study, I can't tell you.

21 Q. Let me ask you this. You're not disputing the
22 fact that the credit rating has been lowered from triple B
23 to double B for that company?

24 A. No.

25 Q. And you would agree that it, therefore, would

1 not meet one of your screening criteria; is that true?

2 A. If the study was updated, that's correct.

3 Q. And your testimony here on the stand, would
4 you consider that to be an update to your study?

5 A. No. I'm standing by the testimony that was --
6 that's been filed. We're discussing some of the things that
7 may have occurred since my testimony was filed, but I
8 haven't changed my recommended return on equity nor has any
9 other witness in this case.

10 Q. I'm not asking you about that. I'm asking you
11 about your selection of that particular company as one of
12 the six companies in your proxy group. And I think -- where
13 do you set out the criteria that you used to select the
14 companies for your proxy group? Where do I find that?

15 A. Schedule 11, I believe.

16 Q. Is it anywhere in your Direct Testimony?

17 A. Oh, as far as the Direct Testimony? I believe
18 we talked about that earlier when we were talking about
19 risk.

20 Q. What page is that on?

21 A. I'll have to -- page 26.

22 Q. Page 26. And if I look there and I look at
23 criteria No. 7, it says, At least investment grade rating?

24 A. Yes.

25 Q. And you used that criteria to eliminate six

1 additional companies from the pool of companies that you
2 were looking at that; is that true?

3 A. At that time, that's correct.

4 Q. And now you're saying that you recognize or
5 you will admit or concede that DPL does not meet that
6 criteria; is that true?

7 A. Yes.

8 Q. But, nonetheless, it's your testimony that in
9 representing to this Commission what they ought to do in
10 terms of appropriate capital structure and return for this
11 company, based on your own testimony, they ought to use the
12 results of a company that no longer meet your criteria. Is
13 that what you're saying?

14 A. The analysis I did at the time contemplated a
15 triple B credit rating, so the data I was looking at at the
16 time reflected that triple B credit rating. I have not
17 bothered to look at any additional information as far as the
18 financial information for -- for the discounted cash flow
19 analysis of DPL since they've been downgraded.

20 Q. So the fact that that company no longer meets
21 your own criteria doesn't concern you at all?

22 A. I wouldn't say it doesn't concern me, but it
23 doesn't change my recommendation.

24 Q. And why is that?

25 A. Because I evaluated all of my comparable

1 companies when I arrived at my recommendation of the 9.6--
2 excuse me, 8.64 to 9.64. And all the -- I mean, there were
3 more than -- there are more than just -- there's more than
4 just one company in that comparable group.

5 Q. Let me ask you this. All other things being
6 equal, if you were to do this study today, all other things
7 being equal except DPL is no longer investment grade credit
8 rating, wouldn't you agree that you would eliminate them
9 from your proxy group?

10 A. I would eliminate them, but I'm not saying
11 that my recommendation would change.

12 Q. Okay. And that being the case, you'd be left
13 in your proxy group with just five companies, all other
14 things being equal; is that true?

15 A. Well, who knows what might happen with some of
16 the other companies.

17 Q. No. I understand that. I said all other
18 things being equal, nothing else changes, assuming all other
19 facts being equal.

20 A. If you want to make that assumption, that
21 would be the case.

22 Q. Okay. Now, DQE, Inc. is in your proxy group;
23 is that correct?

24 A. That's correct.

25 Q. And what is that company?

1 A. It's a predominantly electric utility. I
2 believe that they operate I believe mainly in the state of
3 Pennsylvania, electric distribution. I know they had some
4 other operations they just sold. Obviously we're familiar
5 with the fact that they had AquaSource, they sold that to
6 Philadelphia Suburban, but they're an electric utility.

7 Q. Have you reviewed any financial literature
8 with respect to that company?

9 A. Value Line and Standard and Poor's
10 information, once again.

11 Q. Are you aware of a Value Line report dated
12 December 5, 2003, which indicates that potential investors
13 should exercise caution before taking a stake here, meaning
14 making an investment in this company?

15 A. I didn't review the December Value Line sheet.

16 MR. SWEARENGEN: May I approach the witness,
17 your Honor?

18 JUDGE JONES: Yes, you may.

19 BY MR. SWEARENGEN:

20 Q. Mr. Murray, I just handed you a document, a
21 Value Line document. Can you tell the Commission what that
22 is, please?

23 A. Yes. It's a Value Line -- what they refer to
24 as tariff sheet for Dukane Light. For whatever reason,
25 they've changed it to Dukane Light. It used to be DQE on my

1 tariff sheet. And it's a report issued by Value Line as of
2 December 5th, 2003 with financial information and some
3 written analysis.

4 Q. Now, the statement that I indicated was
5 contained in that document appears at the very end of it; is
6 that not true?

7 A. Yes. It reads that through 2008, I believe --
8 it's hard to read, I think it is a fax copy -- potential
9 investors should exercise caution before taking a stake
10 here, which would actually drive the dividend yield up.

11 Q. And why would it drive the dividend yield up?

12 A. If there's commentary from analysts within the
13 investment community to use caution when investing in stock,
14 then obviously the stock price of that company may
15 depreciate because there's a caution.

16 It's just -- obviously the -- as we know,
17 there's very few sell orders put out there by Wall Street
18 analysts, but as far as some more independent analysts, if
19 they're telling investors to exercise some caution, they
20 may, you know, choose to, you know, either decrease their
21 position or may choose not to buy the stock. And when that
22 price goes down, the dividend yield would go up. And the
23 cost of -- therefore, the cost of capital to that company
24 goes up.

25 Q. Is that because it's becoming riskier?

1 A. Obviously they believe there's some risk;
2 otherwise, they wouldn't say use some caution.

3 Q. Have you done any detailed study of this
4 company at all?

5 A. Just what's in my schedules and my general
6 knowledge through Value Line, Standard and Poor's.

7 Q. Are you aware then that DQE is trying to
8 divest itself of past investments and financial energy
9 services as well as telecommunications operations?

10 A. Yes. They're divesting about three units.
11 We're very familiar with AquaSource because they operate in
12 the state of Missouri.

13 Q. And are you aware that the company has an
14 ongoing Internal Revenue Service investigation involving its
15 tax returns for the period 1994 through 1997?

16 A. I believe I saw something to that extent. I
17 believe it was in the S&P report.

18 Q. And isn't it true that the company cut its
19 dividend by 25 percent in 2003?

20 A. I'll take your word for the percentage, but I
21 do know they cut their dividend.

22 Q. Am I correct in understanding your testimony
23 and schedules that you use DQE's 25.5 percent equity ratio,
24 which was its equity ratio at the end of 2002, in the
25 calculation of your proxy equity ratio average of

1 36.8 percent?

2 A. That's correct.

3 Q. Would you agree that all other things being
4 equal, the financial risk for that company, for DQE, exceeds
5 that of the other companies in your proxy group?

6 A. All other things being equal, correct.

7 Q. So then, in summary, assuming that your proxy
8 group has some validity, one of those companies, DPL, fails
9 to meet one of your own criteria No. 7, At least investment
10 grade credit rating. Correct?

11 A. Not at the time.

12 Q. It does as we speak here today though, does it
13 not?

14 A. If I were to update the study, you would be
15 correct.

16 Q. And a second company, DQE, would it be fair to
17 say that company has so much uncertainty surrounding it
18 that -- especially given its low equity ratio, that it was
19 forced to reduce its dividend in 2003 and there's a warning
20 from Value Line to investors about investing in that
21 company?

22 A. Yes. I took all those things into
23 consideration when I came up with my overall recommendation
24 in this case.

25 Q. Let me ask you this. If you eliminated those

1 two companies from your group of six proxy companies, would
2 you agree then that the average equity ratio of your proxy
3 group would be raised from 36.8 percent to about 43 percent?

4 A. I'll take your word for the average.

5 Q. Then do you have any reason to dispute that?

6 A. No. I don't have --

7 Q. Is that a difficult calculation to make?

8 A. Well, I'd have to average four --

9 Q. How long would it take you to do that?

10 A. I could do it right now.

11 Q. Okay.

12 A. What was the number you indicated?

13 Q. 43 percent.

14 A. 42.6 to be exact, but you're right.

15 Q. Okay. Thank you.

16 Now, before lunch we had a discussion about
17 financial integrity. Do you recall that discussion?

18 A. Yes.

19 Q. And you indicated that based on the United
20 States Supreme Court Hope decision, the return that this
21 Commission authorizes should be sufficient to assure a
22 confidence in the financial integrity of MPS and L&P; is
23 that true?

24 A. Yes.

25 Q. So to maintain the credit of those entities

1 and to attract capital; is that true?

2 A. Yes.

3 Q. And that's still your testimony this
4 afternoon?

5 A. That's correct.

6 Q. Thanks.

7 Turn to page 31 of your Direct Testimony, if
8 you would.

9 A. Yes.

10 Q. There at the bottom of page 31, beginning on
11 line 18 and continuing over on the top of page 32, you
12 discuss the calculation on the pre-tax interest coverage
13 ratio; is that correct?

14 A. Yes.

15 Q. First of all, what is a pre-tax interest
16 coverage ratio?

17 A. It's just earnings before interest and taxes
18 divided by interest. Just done -- trying to give an idea
19 what the coverage of the interest expense might be.

20 Q. On page 32 at line 6 and 7 you say, This range
21 of pre-tax interest coverage ratios falls between the lower
22 quartile and median quartile for a triple B related electric
23 utility. Correct?

24 A. Yes. And actually, I'm sorry, I didn't make
25 this correction, but it shouldn't indicate median quartile.

1 It should just indicate median.

2 Q. So I should strike quartile?

3 A. Yes. I apologize.

4 Q. And I think you testified earlier that a
5 triple B rating is the minimum rating for an electric
6 utility to be considered investment grade?

7 A. That's correct.

8 Q. And then you go on from that point and discuss
9 on page 32 and later a rate of return for Aquila's MPS and
10 L&P operations; is that true?

11 A. Yes.

12 Q. And, once again, let me ask you to make sure
13 that we're clear. Would you agree in order for a return to
14 assure confidence in the financial integrity of the
15 enterprise, which is the words the Supreme Court uses but in
16 this case that would be MPS and L&P, would it be your
17 intention that your recommendation in this case will result
18 in MPS and L&P as stand-alone entities existing at an
19 investment grade level?

20 A. I'm -- I never tried to give the impression
21 that I knew exactly what their credit rating would be on a
22 stand-alone basis, because that's a very hard thing to
23 determine. I -- my recommended rate of return is fair and
24 reasonable.

25 Now, if -- if the -- if that were to want to

1 be determined, I am aware that S&P and Moody's both have
2 services that the company could pursue. I think Moody's
3 refers to it as rating assessment service. S&P refers to it
4 as a rating evaluation service.

5 That indicates that if you -- if they were
6 wanting -- if a company was wanting to try to assess the
7 creditworthiness of a stand-alone company or stand-alone
8 entity which could be a division, the company could pursue
9 such a -- such an endeavor with Moody's and S&P.

10 And that would give -- that would be the only
11 true way to give an independent and full-fledged, detailed
12 analysis of what MoPub and St. Joe would be rated on a
13 stand-alone basis. You can't just look at the quantitative
14 ratios that's published by S&P for their targets because
15 obviously, as we pointed out earlier, a lot of times those
16 ratios are not falling within those targets.

17 And I'm aware from my conversations with
18 Standard and Poor's and Moody's, that they compare the
19 actual ratios that occur to companies -- other companies in
20 the same industry, their actual ratios.

21 And that's why the financial medians are
22 important to look at because they look at those in
23 conjunction with those -- with those benchmarks. And -- but
24 I am aware that Moody's and Standard and Poor's has
25 indicated that they wouldn't be, you know, surprised if --

1 with this current environment where there are companies that
2 have a lot of nonregulated activities and that there's
3 proceedings going on in commissions where there's a dispute
4 as to what the credit rating might be if the division were
5 stand-alone, you know, that they -- you know, that they
6 would possibly entertain the possibility of a company -- the
7 commission would have to work with the company, but the
8 company could request such an analysis to be done, which
9 would be about as detailed and objective as you can get in
10 determining what the -- what the integrity of the company
11 would be.

12 Q. Well, you're the chief financial witness
13 testifying in this case for the Staff of the Public Service
14 Commission; isn't that true?

15 A. Yes.

16 Q. And I think you said this morning that you
17 agreed -- and, once again, taking you back to the Hope case,
18 that the return that this Commission authorizes -- and
19 they're going to look at your recommendation in doing
20 that -- should be sufficient to assure confidence in the
21 financial integrity of the enterprise so as to maintain its
22 credit and to attract capital?

23 A. Yes.

24 Q. And given that standard, what have you done to
25 test whether or not your recommendation in this case, if