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The Honorable Pat Miller, Director Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, Tennessee 37243

filed electronically in docket office on 05/01/07

IN RE: Petition of Tennessee American Water Company to Change and Increase Certain Rates and Charges So as to Permit it to Earn a Fair and Adequate Rate of Return on its Property Used and Useful in Furnishing Water Service to its Customers

Docket No. 06-00290

Dear Director Miller:

Pursuant to your request during the hearing in the above referenced docket, held Thursday, April 26, 2007, please find the transcript of the Direct Examination of TRA Staff Economist, Jerry Kettles, from Docket No. 05-00258.

Please feel free to contact me should you need anything further.

Vance L. Brokmel

Assistant Attornev General

CERTIFICATE OF SERVICE

I hereby certify that a copy of the foregoing is being forwarded via electronic mail and U.S. mail, to:

Richard Collier Tennessee Regulatory Authority 460 James Robertson Parkway Nashville, Tennessee 37243

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David C. Higney Grant, Konvalinka, & Harrison PC Republic Centre, Suite 900 1800 Republic Centre 633 Chestnut Street Chattanooga, TN 37450-0001

on this the day of May, 2007.

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Vance L. Broemel

1	BEFORE THE TENNESSEE RE	EGULATORY AUTHORITY						
2								
3	IN RE:							
4	PETITION OF THE CONSUMER ADVOC							
5	WHETHER ATMOS ENERGY CORP. SHOULD BE) REQUIRED BY THE TENNESSEE REGULATORY) Docket No. AUTHORITY TO APPEAR AND SHOW CAUSE) 05-00258 THAT ATMOS ENERGY CORP. IS NOT)							
6								
7	OVEREARNING IN VIOLATION OF TENNESSEE) LAW AND THAT IT IS CHARGING RATES THAT)							
8	ARE JUST AND REASONABLE							
9								
10	TRANSCRIPT OF F	PROCEEDINGS						
11	Wednesday, Augus	st 30, 2006						
12	VOLUME							
13								
14	APPEARANCES:							
15	For Atmos Energy Corp.:	Ms. Misty Kelley						
16		Mr. Clinton Sanko						
17	For Atmos Intervention Group:	Mr. Henry Walker						
18	For Atmos Energy Marketing:	Mr. Melvin Malone						
19	For Consumer Advocate:	Mr. Vance Broemel						
20	For Chattanooga Gas:	Ms. Jennifer Brundige						
21	For TRA Investigative Staff:							
22								
23								
24	Reported By:							
25	Teri A. Campbell, RPR, CCR							
	NASHVILLE COURT REPORTE	RS (615) 885-5798						
		1						

1

2	(August 30, 2006 - Volume VI)
3	WITNESSES PAGE
4	JERRY KETTLES:
5	Direct Examination by Mr. Hotvedt 5 - 10
6	DAVID FOSTER:
7	Direct Examination by Mr. Hotvedt 20 - 27
8	Cross-Examination by Mr. Walker 27 - 28
9	Cross-Examination by Ms. Kelley 29 - 46
10	Redirect Examination by Mr. Hotvedt 45 - 53
11	HAL NOVAK:
12	Direct Examination by Mr. Walker 57 - 65
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14	Cross-Examination by Mr. Sanko 67 - 87
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16	EXHIBIT
17	NUMBER DESCRIPTION PAGE
18	8 7/14/06 E-mail to David Foster from
19	Dan McCormac 57
20	
21	
22	
23	
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25	
	NACINITALE COURT REPORTERS (C15) 995 5709
	NASHVILLE COURT REPORTERS (615) 885-5798
	2
1	(The aforementioned cause came on to
2	be heard on Wednesday, August 30, 2006, beginning at
3	approximately 3:50 p.m., before Chairman Sara Kyle,
	Page 2

4	Transcript 083006 Vol VI.txt Director Pat Miller, and Director Ron Jones, when the
5	following proceedings were had, to -wit:)
6	
7	MR. BROEMEL: I have an announcement
8	to make that we think you will like to hear. It's not
9	about the whole case, but it's about a large part of
10	the case. At the break, the parties all discussed
11	this. We've agreed with your approval, of course, to
12	waive cross-examination of each cost of capital
13	witness. They would each be permitted to give a
14	summary like Dr. Brown did up to 20 minutes; that is,
15	Mr. Kettles and Dr. Murry. Then their testimony would
16	go in without any cross-examination.
17	We believe this would speed the
18	hearing up. I suppose, of course, if the directors
19	wanted to ask questions, that would be fine. But we
20	think that would bring us a long way to moving this
21	case along. I'll let the other parties confirm that
22	that's their understanding.
23	MS. KELLEY: Yes. Atmos is in
24	agreement.
25	MR. HOTVEDT: The TRA Staff is in
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	3
1	agreement. We would expect the directors to ask
2	questions. And Mr. Walker is just walking in and so is
3	Mr. Malone they need to agree and Ms. Luna. We
4	assume you'll agree. I'm sorry.
5	MS. BRUNDIGE: I'm sure Ms. Luna
6	wouldn't appreciate that. Page 3
	raye J

O

7	MR. HOTVEDT: I'm sorry. It's late.						
8	DIRECTOR JONES: Mr. Malone, I think						
9	Mr. Broemel has						
10	MR. BROEMEL: The parties during the						
11	break discussed waiving cross-examining the cost of						
12	capital experts and letting them each put on a summary						
13	up to 20 minutes the remaining experts; that is						
14	Mr. Kettles and Dr. Murry. Then all the parties would						
15	waive cross-examination. So the case would go much						
16	more quickly. Atmos has agreed to that as well as the						
17	TRA staff.						
18	MR. WALKER: No problem.						
19	MR. MALONE: No problem.						
20	DIRECTOR MILLER: As long as we get to						
21	ask questions because I've got some questions of						
22	Mr. Kettles.						
23	DIRECTOR JONES: Certainly we'll						
24	proceed in that manner. So, at this point, has						
25	Dr. Brown finished?						
	NASHVILLE COURT REPORTERS (615) 885-5798						
	4						
1	MR. BROEMEL: He's finished his						
2	summary. As we said, if the directors or anyone has						
3	questions of any of these people, that's of course						
4	fine. Otherwise. That concludes our case.						
5	DIRECTOR MILLER: Let me see if I have						

6 7 Transcript 083006 Vol VI.txt

DIRECTOR JONES: Are there any

questions of Dr. Brown.

questions of Dr. Brown?

9	Transcript 083006 vol vI.txt DIRECTOR MILLER: My brain tells me					
10	there are no questions from me.					
11	DIRECTOR JONES: Dr. Brown, I have no					
12	questions. You can be excused. Thank you.					
13	MR. HOTVEDT: The TRA staff would like					
14	to call Jerry Kettles.					
15	DIRECTOR JONES: Mr. Kettles, raise					
16	your right hand.					
17						
18	JERRY KETTLES,					
19	was called as a witness, and having been duly sworn,					
20	was examined and testified as follows:					
21	•					
22	DIRECT EXAMINATION					
23	BY MR. HOTVEDT:					
24	Q. Please state your name for the record.					
25	A. Jerry Kettles.					
	NASHVILLE COURT REPORTERS (615) 885-5798					
1	Q. Mr. Kettles, have you previously filed					
2	testimony, rebuttal testimony, and exhibits in this					
3	case?					
4	A. Yes, I have.					
5	Q. Do you have any corrections? Were there					
6	any typographical errors in any of that?					
7	A. I have two corrections; one in my rebuttal					
8	and one in my direct.					
9	Q. What is the typographical correction in					
10	your direct?					
11	A. On page 1, line 17 and 18, starting at, "I Page 5					

- joined the TRA in June 2000. I have held the position
- of TRA Economist since 2002."
- 14 Q. What was the precise date you actually
- became the TRA Economist?
- 16 A. I became the TRA Economist in March 2003.
- 17 The sentence should read, "I joined the TRA in
- 18 June 2000. I have held the position of TRA Economist
- 19 since 2003."
- 20 Q. Thank you. What is the other correction
- 21 that you would like to make?
- 22 A. On Page 4 of my rebuttal testimony starting
- 23 on line 9. "A 50 percent equity ratio is not
- 24 supportable given the company's own projections,
- 25 analyst projections and the ruling of another

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6

- 1 regulatory agency."
- I would like that to read, "A 50 percent
- 3 equity ratio is not supportable given the company's own
- 4 projections and analyst projections." That's deleting
- 5 the phrase "and the ruling of another regulatory
- 6 agency."
- 7 Q. Is that the entire corrections?
- 8 A. Yes, that is.
- 9 Q. Thank you. Mr. Kettles, did you prepare a
- 10 summary of what the direct, your rebuttal, and your
- 11 exhibits go to?
- 12 A. Yes, I have.
- 13 Q. Would you please give it to us.

	Transcript 083006 Vol VI.txt
14	A. Unfortunately, I didn't bring any visual
15	aids. I'll try to keep this brief.
16	My approach to cost of capital analysis is
17	quite simple. I developed a capital structure for
18	Atmos, debt cost estimates; I utilized the CAPM of the
19	DCF models to develop equity
20	Q. Talk into the mike and slow down.
21	A. Excuse me. I utilized the capital asset
22	pricing model and the discounted cash flow model to
23	develop equity returns by investors. I took this
24	information, the capital structure of the debt cost and
25	equity return information, and basically determined a
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-	
1	weighted cost of capital that describes the overall
2	return by the company. This is the standard ratemaking
3	procedure for cost of capital.
4	I derived my capital structure by looking
5	at the company's September 30, 2005 data report and its
6	SEC 10-K filing and projected for the year. I
7	calculated a capital structure that is approximately
8	43 percent equity and 57 percent long-term debt. The
9	cost of debt I propose in this proceeding is 5.77
10	percent.
11	For determining the cost of equity, I
12	implement the capital asset pricing model and two
13	variants of the DCF model. The DCF model variants
14	incorporate different growth rates corresponding to two
15	factors investors value. Income stemming from
16	dividends and the value of the stock is measured by Page 7

- 17 earnings per share growth. The estimates demonstrate
- 18 considerable variants.
- 19 As Atmos increases its dividends by 2 cents
- 20 per year, its dividend growth rate is quite low. The
- 21 DCF model utilizing dividend growth produces equity
- returns between 6.17 percent and 7 percent. When
- 23 implementing the DCF model utilizing earnings per share
- 24 information, the equity return estimates increase from
- between 11.17 percent and 12 percent. Based on these

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8

- 1 estimates, I selected my capital asset pricing model
- 2 estimate of 10.75 percent to represent Atmos' equity
- 3 return.

- 4 Overall, based upon my proposed capital
- 5 structure, debt cost, and equity return estimates, I
- 6 calculated a required return of 7.9 percent. By
- 7 comparison, the company proposes a 9 percent return,
- 8 while the Consumer Advocate proposes a 6.6 overall
- 9 return.
- 10 In my rebuttal testimony, I address a
- 11 limited set of issues. First, I address the
- 12 hypothetical capital structure proposed by the company.
- 13 My testimony is directed at the analysis provided by
- 14 Dr. Murry, but also applies to Atmos' witness Sherwood
- 15 as well.
- 16 I show the analyst projections and the
- 17 company's own projections of equity ratio do not
- 18 support a 50 percent capital structure. The

19	preponderance of estimates show that Atmos will not				
20	reach a 45 percent equity ratio until 2010 showing that				
21	50 percent is not reasonable.				
22	With respect to Dr. Murry's testimony, I				
23	also note several similarities between our equity cost				
24	estimates generated by both our capital asset pricing				
25	model and the cash flow model.				
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	9				
1	Concerning Dr. Brown's testimony, I address				
2	two claims concerning the implementation of the CAPM				
3	model. First, I counter the assertion that arithmetic				
4	averages are inappropriate in measuring market returns.				
5	Secondly, I counter the assertion that long-term				
6	government securities are not the appropriate proxy for				
7	risk-free rates in the CAPM model. For each of these				
8	arguments, I cite the Ibbotson Associates text as \cdot a				
9	source.				
10	And that concludes my summary. I'm ready				
11	for your 50 questions, Director Miller.				
12	DIRECTOR MILLER: Okay. Now I'm				
13	sorry.				
14	DIRECTOR JONES: No. Go ahead.				
15	DIRECTOR MILLER: Explain this chart				
16	to me that Dr. Brown I'll give it to you. It's from				
17	page 8 of 38 of Dr. Brown's rebuttal testimony where he				
18	outlines your equity estimates and Dr. Murry's and				
19	compares it to his. I've got a copy here if you want				
20	it.				
21	THE WITNESS: I've got mine right Page 9				

22

here.

23	DIRECTOR MILLER: It starts out						
24	attacking your 12.5 percent market rate estimate.						
25	THE WITNESS: All right. You'd lke me						
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	10						
1	to explain how I got 12.5 percent?						
2	DIRECTOR MILLER: Yes.						
3	THE WITNESS: Basically, I determined						
4	the 12.5 percent by looking at the Ibbotson's text. I						
5	found one figure that supported a 12.3 percent						
6	long-term growth rate. This is the arithmetic average.						
7	That spans from 1926 to 2004.						
8	What I also wanted to do was I wanted						
9	to incorporate some returns on small stocks as well						
10	because we're trying to get a picture of the overall						
11	economy. We've got big companies. We've got little						
12	companies. We've got a lot in between.						
13	What I chose to proxy the small market						
14	returns was returns on small stocks held for 20 years.						
15	When I combined those, I ended up with a market rate of						
16	12.5 percent. So basically it's a combination of rates						
17	from small companies and large companies over a long						
18	period of time.						
19	DIRECTOR MILLER: But he says						
20	Ibbotson's, you know, no longer forecasts above						
21	10 percent.						
22	THE WITNESS: Well, you know, it's						
23	really interesting because if you read the whole						

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                                                             11
 1
      things.
 2
                       One of the first things you'll notice
      is the article states that Ibbotson started doing these
 3
      calculations back in 2001. What you notice is that
 4
 5
      when you look at the yearbooks -- I looked at I think
 6
      the 2004 yearbook and I have looked at the most recent
      2006 yearbook -- I don't see the 9.6 number anywhere in
 7
      the standard tables we use.
 8
 9
                       The other thing we find is that the
      arithmetic averages that are reported -- I found I
10
      think 12.4 percent for the year I looked at. And the
11
      number has been revised down to 12.3 percent.
12
                       Now, what's important about this is
13
14
      the 2006 yearbook came out after this article came out,
15
     from my understanding. And those numbers still exist.
     Roger Ibbotson is still the research director at
16
17
     Ibbotson Associates. So my interpretation of the
     article as presented by Dr. Brown is they're talking
18
19
      about geometric returns and they're talking about some
20
     averaging.
21
                       In addition, once I read that article,
22
     I was really intriqued by the assertions in the
23
     article. So I did a serach of the academic literature
     using Econolit. I found one article from Dr. Ibbotson.
24
25
     It was a preprint article available from Yale
```

article -- and there is an excerpt there. There's like

I think five pages to the article. You notice lots of

24

25

1	University preprints you know, associate of
2	economics department. The data he uses in there is
3	actually from the Ibbotson's yearbook and it contains
4	the higher 10 percent number.
5	So I'm a little confused at, you know,
6	the basis of the article or what the article was
7	getting at. I do understand that there's a you kow,
8	there's always a controversy in the economics
9	literature about how you measure that. So, as far as I
10	know, Ibbotson is still the research director at
11	Ibbotson and the numbers have been consistent, you
12	know, over the years I've been able to look at it.
13	DIRECTOR MILLER: Okay. Take us
14	through the risk-free rate.
15	THE WITNESS: All right. The
16	risk-free rate. What I did is I looked at 20 and
17	30-year U.S. securities the 20 and 30-year T-Bonds.
18	What I found was that at the time I looked at it, the
19	rate on the 20-year was basically in the range of 5 and
20	a quarter. What I did is I went ahead and capitalized
21	an expected quarter point increase by the Federal
22	Reserve into our risk-free return because my intention
23	was to try to look out to September 30.
24.	Now, apparently, my Fed-watching
25	skills have declined given the recent Federal Reserve

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- 1 rates. But that's how I derived the number of
- 2 5.5 percent. Basically, 5.25 percent for a 20-year
- 3 note at the time and adding a quarter point to it. You
- 4 subtract those two numbers and you get 7 percent.
- 5 That's the risk premium.
- 6 DIRECTOR MILLER: Would your testimony
- 7 be different now given what the Fed has done?
- 8 THE WITNESS: You know, I sort of --
- 9 you know, I think you can drive yourself crazy looking
- 10 at it. I was checking -- I got the Federal Reserve
- 11 August 25th, 20-year bond yield information. It was
- 12 trading in the low 12s. At the same time, I think what
- 13 you find is that the three-month rate has actually
- 14 crept up over 5.
- 15 So, I mean, you know, based on the
- information I had at the time, I think my estimate is
- 17 reasonable. But at the same time, I think we have to
- 18 look at the recent economic developments including the
- 19 Fed action and the recent Consumer Price Index numbers
- 20 as well.

- 21 As a side note in this, Dr. Brown
- 22 reports the Beta as being .87. That .87 is derived
- 23 from my comparable companies. My actual estimate for
- 24 Atmos specifically is .75 which takes that number down
- to 10.75, which you'll find in my testimony.

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- 1 DIRECTOR MILLER: Thank you. Could
- you explain the size bias in the CAPM model and comment Page 13

- 3 on whether the adjustment recommended in Dr. Murry's
- 4 rebuttal testimony is justified? And you can tell I
- 5 formulated that question on my own.
- 6 THE WITNESS: I can tell.
- 7 Basically, my approach to the
- 8 testimony is to provide the simplest implementation of
- 9 the models. When you read any textbook, the first
- 10 model you see is the straight CAPM model. That's the
- 11 estimate I propose. Size adjustment basically descends
- 12 from a body of academic literature that I think starts
- 13 with economist bonds and Regon bond. These are
- 14 actually cited in the Ibbotson's text. What they found
- 15 was that firm size is explanatory in basically looking
- 16 at returns. Correlated to that is that small firms,
- 17 when you look at Beta which measures systematic risk,
- it doesn't tell the whole story of the average returns.
- 19 It just doesn't do it. So the solution was, to sort of
- 20 conform to the CAPM model, was to adjust up the
- 21 estimates for small firms. Okay?
- Now, I chose not to do this. One,
- 23 because I was trying to do the simplest implementation.
- 24 Secondly -- well, frankly, though, Ibbotson's concludes
- 25 that you should do this. I give the Ibbotson's text

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15

- 1 credit for this. They're very good at laying out the
- 2 arguments against it.

- 3 My rationale or what I would have
- 4 argued here earlier is that we would probably think

5	Transcript 083006 Vol VI.txt that just applying an adjustment due to firm size may					
6	not be granular enough. What I would argue is we					
7	probably want to look at the industry or something					
8	specific about the industry.					
9	Now, there is information in there.					
10	Basically, they go by two-digit SIC codes, which is					
11	basically very broad measures of industrial activity.					
12	What they find is, yeah, small firms do tend to earn					
13	more, but they're not very definitive about it. So I					
14	think that, you know, until we get something more					
15	definitive about industry size, I think we should					
16	consider both the firm size adjustment and the standard					
17	CAPM model.					
18	There are things that, you know,					
19	jumped out at me in reading the Ibbotson's text on					
20	this. They stated the size adjustment is cyclical.					
21	Now, that was really interesting. Actually, it					
22	mentioned that it changed every few years. Now, the					
23	implication as I understand it is that we may					
24	positively adjust a small stock at one time. But over					
25	the course of rates in effect, that number may switch.					
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	16					

So, basically, I look at it as

something that statistically shows up in the CAPM, you

know, that you could adjust for and we should consider

that. But at the same time, I really wonder if the

literature is granular enough to take into account the

features of the market, the sector, and of the firm

itself before you adjust.

Page 15

Transcript 083006 Vol VI.txt 8 DIRECTOR MILLER: How would using an 9 attrition year ending September 30, 2007 impact the 10 capital structure of the cost of capital 11 recommendations? 12 THE WITNESS: You can find a lot of 13 this in my rebuttal testimony. Basically, when you look at the analyst estimate out to 2007, I think the 14 15 value line gives you 43/57, which is basically what I 16 have. Also what I understand is the company in -- the

which I reviewed after I filed my testimony, provided some revised estimates. Those are unfortunately up in

company in some discovery to the Consumer Advocate,

20 my office right now. But I think basically going out

one year, 43/57, you know, is basically where we would

22 end up.

17

23 As far as the cost of capital

24 information, we've had a lot of uncertainty in the

25 economy over the past month. To try to forecast out

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4							
1	basically	risk-tree	interest	rates	out	another	vear.

- 2 that's a pretty Herculean task right now. So basically
- 3 what I would, you know, say is let's stick with the
- 4 estimates we have now. And if we have a problem, we
- 5 can look at them again when that time comes.
- 6 DIRECTOR MILLER: Thank you,
- 7 Mr. Kettles. I appreciate it.
- 8 CHAIRMAN KYLE: That's all I have -- I
- 9 don't have any.

10	Transcript 083006 Vol VI.txt DIRECTOR JONES: Mr. Kettles,
	· ·
11	Dr. Brown started out in developing his equity return
12	by dividing the comparable or in between dividend
13	companies and capital gains companies. Did you follow
14	that similar methodology?
15	THE WITNESS: NO.
16	DIRECTOR JONES: You did not?
17	THE WITNESS: No, I did not.
18	DIRECTOR JONES: Okay. That's all I
19	have. Thank you.
20	DIRECTOR MILLER: Why not? To follow
21	up, why not?
22	THE WITNESS: Well, basically and I
23	think this is very explicit in Dr. Brown's testimony.
24	You'll notice in the early part of his direct testimony
25	he states opinions. Basically, he places a high
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	18
	10
1	emphasis on basically dividend paying companies and
2	avoiding capital gains speculation.
3	How can I put this? The market
4	doesn't care about that. The market is what the market
5	deserved administration the market to the market
6	does. And simply limiting the market to the group of
O	companies you think satisfy your own subjective beliefs
7	
	companies you think satisfy your own subjective beliefs
7	companies you think satisfy your own subjective beliefs about it colors the analysis. You're not getting the
7	companies you think satisfy your own subjective beliefs about it colors the analysis. You're not getting the full impact of the market and that's going to bias your
7 8 9	companies you think satisfy your own subjective beliefs about it colors the analysis. You're not getting the full impact of the market and that's going to bias your results.

- move his direct and rebuttal testimony into the record?
- 14 DIRECTOR JONES: Without objection.
- MS. KELLEY: No objection.
- MR. HOTVEDT: The staff would like to
- 17 call David Foster.
- 18 DIRECTOR JONES: Mr. Foster, raise
- 19 your right hand please.
- 20 ///
- 21 ///
- 22 ///
- 23 ///
- 24 ///
- 25 ///

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19

- 1 DAVID FOSTER,
- was called as a witness, and having been duly sworn,
- 3 was examined and testified as follows:

- 5 DIRECT EXAMINATION
- 6 BY MR. HOTVEDT:
- 7 Q. Please state your name for the record.
- 8 A. David Foster.
- 9 Q. Mr. Foster, did you previously file direct
- 10 and rebuttal testimony in this case along with some
- 11 exhibits?
- 12 A. Yes, I did.
- 13 Q. Do you have any corrections you want to
- 14 make to that testimony or those exhibits?