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February 5, 2009

VIA FEDERAL EXPRESS

Public Utilities Commission of Ohio Attention: Renee Jenkins Docketing Division 180 E. Broad Street, 10th Floor Columbus, OH 43215 2009 FEB - 6 AM IO: 28

RE: DP&L ESP Filing, Case No. 08-1094-EL-SSO et al

Dear Ms. Jenkins:

Enclosed are: (1) fourteen (14) copies of The Dayton Power and Light's Notice of Filing Depositions; and (2) deposition transcripts of:

- a. Gonzalez, Wilson
- b. Ibrahim, Amr A.
- c. Duann, Daniel J.
- d. Yankel, Anthony J.
- e. McClelland, Barry E.
- f. Pullins, Steven W.
- g. Fein, David I.
- h. Woolridge, J. Randall 🗸
- i. Bowser, Joseph G.
- j. Sawmiller, Daniel J.
- k. Murray, Kevin M.
- 1. Dickstein, Shelley J. (awaiting transcript)
- m. Frye, Mark R. (awaiting transcript)
- n. Higgins, Kevin C. (awaiting transcript)

Very truly yours,

R. Holtzman Hedrich

R. Holtzman Hedrick

RHH/tes Enclosures



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BEFORE

THE PUBLIC UTILITIES COMMISSION OF OHIO

In the Matter of the : Application of The : Dayton Power and Light : Company for Approval of : Electric Security Plan :	Case No. 08-1094-EL-SSO
In the Matter of the : Application of The : Dayton Power and Light : Company for Approval of : Revised Tariffs :	Case No. 08-1095-EL-ATA
In the Matter of the : Application of The : Dayton Power and Light : Company for Approval of : Certain Accounting : Authority Pursuant to : Ohio Rev. Code Section : 4905.13	Case No. 08-1096-EL-AAM
In the Matter of the : Application of The : Dayton Power and Light : Company for Approval of : its Amended Corporate : Separation Plan :	Case No. 08-1097-EL-UNC
TELEPHONE DEP	OSITION OF
J. RANDALL WOO	DLRIDGE, Ph.D.

FEBRUARY 3, 2009

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1.12.11

	Page 2		Page 4
1		1	APPEARANCES (Continued):
2	J. RANDALL WOOLRIDGE PAGE	2	
3		3	
4	By Mr. Faruki4	4	JACQUELINE L. ROBERTS
5	25 ·····	5	and RICHARD REESE, ESQ.
6		6	10 West Broad Street
7	Documents received and	7	Suite 1800
8	EXHIBITS marked for identification	8	Columbus, Ohio 43215
9		9	(614) 466-8574
10		10	Attorneys for Office of
11		1.1	Ohio Consumers' Counsel
12	(NO EXHIBITS MARKED)	12	
13	(,)	13	
14		14	J. RANDALL WOOLRIDGE, Ph.D.,
15		15	having been duly sworn, was examined and
16		16	testified as follows:
17		17	
18		18	BY MR, FARUKI:
19		19	Q. Professor, my name is Charlie Faruki.
20		20	I introduced myself a couple minutes ago. I
21		21	· · ·
22		22	Tell me what materials you have
23		23	before you?
24		24	A. I have my testimony and I have the
25		25	testimony of Dr. Makholm.
	Page 3		Page 5
1	Telephone deposition of J.	1	Q. Anything else?
2	RANDALL WOOLRIDGE, Ph.D., Witness, on behalf of		A. Nothing, no, I don't I mean, there's
	The Dayton Power and Light Company, pursuant to		
	- THE DAVIOR FOWER AND LIGHT COMPANY. DUISUANTU .	3	some value linevano inal sori oi ining suung
3		3 4	some Value Lines and that sort of thing sitting here. That's it
3 4	the Ohio Rules of Civil Procedure, taken in the	4	here. That's it.
3 4 5		4 5	here. That's it. Q. You are a professor at Pennsylvania
3 4 5	the Ohio Rules of Civil Procedure, taken in the offices of J. Randall Woolridge, Ph.D., Penn State	4	here. That's it. Q. You are a professor at Pennsylvania State University in the College of Business
3 4 5 6	the Ohio Rules of Civil Procedure, taken in the offices of J. Randall Woolridge, Ph.D., Penn State University, Business Building, Suite 302, State	4 5 6 7	here. That's it. Q. You are a professor at Pennsylvania State University in the College of Business Administration; is that right?
3 4 5 6 7	the Ohio Rules of Civil Procedure, taken in the offices of J. Randall Woolridge, Ph.D., Penn State University, Business Building, Suite 302, State College, Pennsylvania, February 3, 2009, commencing at or about one forty-five o'clock p.m., Eastern Standard Time, before Deborah Zitin,	4 5 6 7 8	 here. That's it. Q. You are a professor at Pennsylvania State University in the College of Business Administration; is that right? A. Yes.
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3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	the Ohio Rules of Civil Procedure, taken in the offices of J. Randall Woolridge, Ph.D., Penn State University, Business Building, Suite 302, State College, Pennsylvania, February 3, 2009, commencing at or about one forty-five o'clock p.m., Eastern Standard Time, before Deborah Zitin, Registered Professional Reporter - Notary Public. APPEARANCES: FARUKI IRELAND & COX, PLL BY: CHARLES J. FARUKI, ESQ. 500 Courthouse Plaza, S.W. 10 North Ludlow Street Dayton, Ohio 45402 (937) 227-3705 Attorneys for The Dayton Power	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22	here. That's it. Q. You are a professor at Pennsylvania State University in the College of Business Administration; is that right? A. Yes. Q. For how long have you had that position? A. Over twenty-five years. Q. And let me ask you a couple of questions about your qualifications, which are listed in Appendix A to your testimony, if I could. I counted seventy-six cases in which you provided testimony on behalf of an office of consumers' counsel or public advocate in various jurisdictions. Would you accept that number, subject to check? A. Yes. Q. Is it accurate that most of your
3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	the Ohio Rules of Civil Procedure, taken in the offices of J. Randall Woolridge, Ph.D., Penn State University, Business Building, Suite 302, State College, Pennsylvania, February 3, 2009, commencing at or about one forty-five o'clock p.m., Eastern Standard Time, before Deborah Zitin, Registered Professional Reporter - Notary Public. APPEARANCES: FARUKI IRELAND & COX, PLL BY: CHARLES J. FARUKI, ESQ. 500 Courthouse Plaza, S.W. 10 North Ludlow Street Dayton, Ohio 45402 (937) 227-3705	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 9 20 21 22 23	here. That's it. Q. You are a professor at Pennsylvania State University in the College of Business Administration; is that right? A. Yes. Q. For how long have you had that position? A. Over twenty-five years. Q. And let me ask you a couple of questions about your qualifications, which are listed in Appendix A to your testimony, if I could. I counted seventy-six cases in which you provided testimony on behalf of an office of consumers' counsel or public advocate in various jurisdictions. Would you accept that number, subject to check? A. Yes.

	Page 6		Page 8
1	other academic interests, I'm excluding that.	1	disequilibrium, in terms of where you know,
2	Most of your testimony in	2	there's so much volatility that I feel, you know,
3	utility rate matters has been on behalf of such	3	investors are trying to sort out the data, and try
4	offices, that is consumers' counsel or public	4	to come up with some idea of what the expected
5	advocates?	5	returns are in different markets.
6	A. Yes, and a few industrial groups, but	6	Q. I see at the bottom of page two, line
7	predominantly, yes, the former.	7	twenty-three, you use the term disequilibrium, as
8	Q. Have you had occasion to comment on	8	you just did.
9	testimony from Dr. Makholm previously?	9	What do you mean by that?
10	A. No.	10	A. Volatility, when there's lots of
11	Q. Do you know him?	11	,
12	A. No.	12	difficulty valuing things.
13	Q. Do you agree with me that there are	13	Q. Is the effect of the conditions that
14	differences of professional opinion that occur	14	you are describing, one that tends to call for an
15	with regard to the issue of appropriate capital	15	equity cost at the upper end of the range?
16	structure?	16	A. Well, I've estimated a range and used a
17	A. Yes.	17	number at the upper end of my range, yes.
18	Q. Same question, sir, with regard to	18	Q. And, is the reason that you use a
19	differences of professional opinion, with regard to how to calculate rate of return?	19 20	number at the upper end of the range, these current market conditions?
20	A. Yes.	20	A. Yes.
22	Q. Can you describe for me the objective	22	Q. If you turn the page, and I'm at the
	of the rate of return calculation?	23	top of page three, Professor, are there risks that
24	A. Well, the objective is to calculate a	24	are presented to a company, a utility of DP&L's
	return required by investors.	25	
	Page 7	_	Page 9
	Q. And when you say return required by	1	A. I don't understand your question.
2	investors, you mean in the future?	2	Q. You know the approximate size of DP&L
3	A. An expected return, yes.	3 4	do you not? A. Yes.
	Q. Take a look at page two of your	+ 5	Q. I'm asking whether, from a financial
5	testimony, if you will. In a sentence that ends on line	1	risk standpoint, the current market conditions
1	twenty-one of page two, Professor, you refer to	7	present any risks to DP&L?
8	the current volatile capital market conditions?	8	A. Well, I mean, they present risks to all
9	A. Yes.	9	companies, obviously, in terms of their operating
10	Q. Would you give us a brief summary of	10	environment and to their to the capital market
11	those?	11^{-1}	environment, where they go to the markets for
12	A. Well, I think I do in my testimony. I	$12^{}$	capital.
13	give a brief summary of, you know, the events of	13	Q. And, can you be more specific about the
14	the last six months or so, and I've documented	14	risks presented to a utility of DP&L's size?
15	some of the volatility issues in stocks and bonds	15	A. Well, I mean, the risks are of the
16	and that sort of thing, the efforts of the	16	economic downturn and how it may affect the deman
17	government and the federal reserve board to	17	for electric service.
18	resolve what started as a mortgage crisis, to sub	18	Q. On page three you are talking, in
19	prime, to credit crisis, to an economic downturn.	19	answer to question five, lines twelve and
20	Q. What is the effect of the current	20	thirteen, about the capital structure, which you
21	volatile capital market conditions on the attempt	21	describe as extremely equity rich.
22	to calculate rate of return for a utility, such as	22	Would you explain that comment?
23	DP&L?	23	A. Well, I think I provide data in my
24	A. Well, I think I mentioned in my	24	testimony that electric utilities generally have
1	testimony. I think there's been periods of		much less common equity in their capital

	Page 10		Page 1
1	structures than proposed by Dayton Power and	1	A. I mean, it provides an indication of
2	Light.	2	what's happened in the past, and investors are
3	Q. Are you saying that the capital	3	aware of that.
4	structure proposed by DP&L is inappropriate?	4	And, presumably, that's given
5	A. Yes.	5	that in some cases that's the only data they have
6	Q. For what reason?	6	to form expectations.
7	A. Because the capital structures of other	7	Q. Is it accurate that a current stock
8	electric utilities have much less common equity in	8	price reflects all of the information that is
9	them.	9	available and relevant to the market?
10	Q. I understand that's true, but why is it	10	A. I believe that's fairly accurate, yes.
11	inappropriate for DP&L to have the capital	11	Q. Is another way of saying that the
12	structure or the equity component that it proposes	12	current stock price represents the market's
13	here?	13	assessment of the common stock's current value?
14	A. Well, I mean, the management can	14	A. Yes.
1.5	propose a capital structure. As I indicate in my	15	Q. In the discounted cash flow or DCF
	testimony, it's more equity than they've in their	16	model, when one is estimating required return on
17	testimony in their capital structure in the	17	common equity, is it true that you should measure
18	past, but it's certainly if you look at	18	the expected dividend yield and the corresponding
19	companies in the marketplace that we estimate	19	growth rate concurrently?
20	capital costs from, that they have much less	20	MS. ROBERTS: Charlie, I'm
	common equity in their capital structures.	21	sorry, I couldn't quite hear your question.
22	Q. On page four you are talking about the	22	Could you say that again?
23	fact that you use both historic and projected	23	This is Jackie.
24	growth rate measures, for example on line ten?	24	MR. FARUKI: Sure, Jackie.
25	A. Yes.	25	I'll have the reporter read it
	Page 11		Page 1
	_	7	
	Q. And what is your reason for using	1	back. She'll probably do a better job than
2	historic growth rate measure, as well as	2	Ι.
3	projected?	3	(The Department heals a
	A. I believe that historic gives you a	4 5	(The Reporter read back a
5	baseline to work from.	56	preceding portion of the testimony as directed:
6	Q. Is the idea of using historic data to	-	
	average out the ups and downs of the past periods?	7	"Q. In the discounted cash flow or DCE model, when one is estimating
8	A. Well, no, you know, obviously, investors have historic data. All investor	8	or DCF model, when one is estimating
9		9 10	required return on common equity, is it
10	information sources give you historic data and	10 11	true that you should measure the expected
11	some of them also make projections.	11 12	dividend yield and the corresponding growth
12	So, obviously, it's something that investors see.	12 13	rate concurrently?") THE WITNESS: I have one
13			
14	Q. I understand it's something they see,	14 15	question.
15	but why is the use of historic data of help or	15 16	By concurrently, what do you mean?
16	assistance in trying to determine anticipated growth rates?	16	
1.8	5		BY MR. FARUKI:
	A. Because I believe it's something that	18 19	
19	investors are aware of, and it has a it's an	20	Q. For the same time periods?
20	input into how they develop expectations. Ω		A. Again, I don't understand your you mean for the same at the same moment in time?
21	Q. Does the use of historic data fail to	21 22	
22	capture the unique conditions of the present	22	Q. No, not necessarily the same moment in time.
23	market?	23 24	Should the measurements of
24	A. I mean, it may or it may not.Q. Do you think it does at this point?	24 25	these two numbers be for the same time period?
1.2.11	CALL FACE VEHICLEUR DE LE LEURS 21 FEIN FEDELLE /	1	1 1 1 1 1 1 1 1 1 1

4 (Pages 10 to 13)

	Page 14		Page 16
			-
		1	sort of thing.
2		2	Q. Do you agree that using historical
3	1 0	3	stock price, along with current growth
4		4	expectations, or combining an updated stock price
5		5	with past growth expectations, tends to bias
6		6	downward the market required rate of return on
7		7	common?
8	· · · · · · · · · · · · · · · · · · ·	8	A. No, not necessarily.
9		9	Q. Why do you say that?
10		10	A. I mean, if historic growth rates are
11		11	good measures of expectations, it shouldn't do
12		12	that.
13		13	Q. And do you know with respect to DP&L
14	the preferable way to do this?	14	you said not necessarily before, which is why I'm
15	A. I mean, according to theory, it's	15	asking this.
16	1 2 2	16	Do you know with respect to
17	they're really all growing at the same rate.	17	DP&L, if using historic stock price data in the
18	Q. That may be according to the model, but	18	calculation tends to bias the number downward?
19	in reality they don't necessarily all grow at the	19	A. I guess, I'm not sure what you mean by
20	same rate; do they?	20	historic stock price information.
21	A. No.	21	I don't think I used any
22	Q. My statement was correct?	22	historic stock price information. Other than I
23		23	used six months of dividend yields to estimate a
24	Q. It was the way I asked my question,	24	dividend yield.
25	Professor; not you.	25	But, I mean, that's the only
	Page 15	5	Page 17
1	A. Sorry about that.	1	thing I would have used in terms of a historic
2		2	stock price.
3	· · · · · · · · · · · · · · · · · · ·	3	Q. All right, that was the fault of my
4	generally more stable than the other two measures	4	question, Professor.
5	•	5	Let me amend that to say, use
6		1	of historic dividend information, does that tend
8		0	to bias the resulting number downward? A. No.
1		8	
9		9	Q. Why not? A Bassure it really is a matter of
10	· · · ·	10	A. Because it really is a matter of
11	dividends rather than earnings?	11	getting a measure of what the dividend yield is.
12	A. Well, there are not a lot of sources of formants of dividende	12	Part of it is I mean, one
13	forecasts of dividends.	13	reason I use six months, as well as a current
14	Q. What sources are there?	14	dividend is the earnings forecasts and the
	A. Value Line is the only one that I'm	15	dividends forecasts, they come out over time.
15		16	They don't come out at the day that you make that
16	aware of.	1	
16 17	Q. That's the only one I'm aware of, too.	17	calculation. They tend to come out over a period
16 17 18	Q. That's the only one I'm aware of, too. I thought maybe there was another.	18	of time.
16 17 18 19	Q. That's the only one I'm aware of, too.I thought maybe there was another.As used in the DCF model,	18 19	of time. So, you're really linking up
16 17 18 19 20	 Q. That's the only one I'm aware of, too. I thought maybe there was another. As used in the DCF model, growth commonly has two components, dividends and 	18 19 20	of time. So, you're really linking up the projections in the historic data with the
16 17 18 19 20 21	 Q. That's the only one I'm aware of, too. I thought maybe there was another. As used in the DCF model, growth commonly has two components, dividends and market appreciation. 	18 19 20 21	of time. So, you're really linking up the projections in the historic data with the dividend yield.
16 17 18 19 20	 Q. That's the only one I'm aware of, too. I thought maybe there was another. As used in the DCF model, growth commonly has two components, dividends and market appreciation. Would you agree with that? 	18 19 20	of time. So, you're really linking up the projections in the historic data with the dividend yield. Q. Take a look at page five of your
16 17 18 19 20 21	 Q. That's the only one I'm aware of, too. I thought maybe there was another. As used in the DCF model, growth commonly has two components, dividends and market appreciation. Would you agree with that? A. I guess, I'm not sure. I don't believe 	18 19 20 21	of time. So, you're really linking up the projections in the historic data with the dividend yield.
16 17 18 19 20 21 22	 Q. That's the only one I'm aware of, too. I thought maybe there was another. As used in the DCF model, growth commonly has two components, dividends and market appreciation. Would you agree with that? A. I guess, I'm not sure. I don't believe 	18 19 20 21 22	of time. So, you're really linking up the projections in the historic data with the dividend yield. Q. Take a look at page five of your

5 (Pages 14 to 17)

	······································		
	Page 18		Page 2
	1 Makholm and yourself?	1	in the DCF models, ones that you would agree that
	2 A. Yes.	2	are simply matters of professional difference?
	Q. With regard to the first one, the sole	3	A. I don't know if I would call it
. ,	4 use of upwardly biased EPS growth rate	4	professional difference. I think the issue of
	5 projections, why do you call them upwardly biased	5	historic in both cases there's a lot of
	6 EPS growth rate projections?	6	empirical evidence that supports my position on
	7 A. Well, I mean, I provide some studies in	7	this, and it's by well-known academics, and it's
	8 my testimony that, certainly, the growth rate	8	by investment banking firms, it's by, you know,
	9 projections of Wall Street analysts have been	9	chief financial officers.
1		10	So, I mean, it's my opinion
1		11	there's a lot I have there's a lot of
1		12	empirical research that supports my position, and
1		13	I cite that in my testimony.
1		14	Q. I'm sorry, where would that be cited?
1		15	A. Well, I mean well, again, I'd go
1		16	back to pages it's really contained in the
		17	pages between seventy-two and eighty-three, is
18	-	18	where most of that is, and the studies and, as
1	8 · ·	19	well as the studies I performed on analysts'
20		20	growth rate forecasts, and those are really
2		21	highlighted in my testimony between pages sixty
22		22	and sixty-six.
2:		23	Q. Thank you.
1	¹ premium, can you summarize your disagreement with		Let me ask you some questions
2.	5 Dr. Makholm on that?	25	about your comparable group. Have you examined
	Page 19		Page 21
	A. I mean, I discuss it in my testimony.	1	whether the companies in your comparable group
1	2 I mean, Dr. Makholm uses two	2	have changed their earnings retention strategies?
	3 measures, one are historic stock and bond returns	3	A. No.
	and the second approach is, he applies a DCF	4	Q. Do you know whether dividends paid,
	5 model, the S&P 500. And if you look at my	5	relative to earnings per share, have decreased for
	5 testimony, and it really goes from pages	6	the companies in that group?
.	7 fifty-nine through sixty-six, I provide an	7	A. Specifically, I'm not sure, no. I
6		8	mean, I have not included that as part of my
		9	analysis.
10		10	I've
	-	11	Q. Go ahead. I thought you were finished.
		12	Go ahead.
		13	A. No, I'm sorry, no, that was my fault.
		14^{13}	I mean, I've reviewed their
114			
15	0	15 16	retention rates. I've used their retention rates,
116	1	16	but I haven't really analyzed their retention
17		17	rates over time.
18		18	Q. If companies are retaining a larger
11	2 Prowin rates, unniccled prowin rates, as a prowth 1	19	portion of their earnings, does the use of dividend payout growth rates understate the effect
1 ~ ~	-	<u> </u>	avagend navour growth rates understate the effect
20	rate for the DCF model for the S&P, and it goes	20	
21	 rate for the DCF model for the S&P, and it goes back to the problem of the upwardly biased 	21	on growth of the increase in retained earnings?
21 22	 rate for the DCF model for the S&P, and it goes back to the problem of the upwardly biased analysts' growth rate projections. 	21 22	on growth of the increase in retained earnings? A. No, not necessarily.
21 22 23	 rate for the DCF model for the S&P, and it goes back to the problem of the upwardly biased analysts' growth rate projections. Q. Are both of these disagreements you 	21 22 23	on growth of the increase in retained earnings? A. No, not necessarily. I mean, retention rates tend to
21 22 23 24	 rate for the DCF model for the S&P, and it goes back to the problem of the upwardly biased analysts' growth rate projections. 	21 22	on growth of the increase in retained earnings? A. No, not necessarily.

1	Page 22		
-	Their earnings are going down. So, it's changing	1	shares outstanding?
2	their retention rates.	2	A. I don't know.
3	I mean, I think, you know,	3	Q. Do you agree that capitalization, as
4	retention rates tend to change, go up and down	4	well as equity ratios, are affected by a company's
5	over time, and that's for all companies.	5	earnings retention strategy?
6	Q. Would you agree, however, that if	6	A. Now, what do you mean by
7	retention rates are increasing for the companies	7	capitalization? Their market capitalization?
8	in your comparable group, that means that the use	8	Q. Yes, sir.
9	of dividend growth is an inappropriate growth rate	9	A. Now, how do you define that?
10	to consider in the DCF model?	10	Q. How do I define market cap?
11	A. No.	11	A. Yes.
12	Q. Doesn't the use of dividend growth rate	12	Q. How do you define it?
13	in the DCF model for company for a group of	13	A. The price per share times the number of
	companies that is not that is increasing its	14	shares outstanding.
14	retention rate, mean that that factor is not fully	15	Q. Over time does a company's earnings
15		16	retention strategy affect the total amount of
16	capturing reasonable going forward growth expectation?	17	market capitalization, as you've just defined it?
17	A. No.	18	A. It may and it may not.
18		19	Q. If companies are adjusting their
19 20	Q. Why do you say no?	3	
	A. Because, as I said, you know, retention	20	retention strategies to retain a larger portion of
21	rates go up, retention rates go down. They change	21	their earnings, wouldn't those strategies affect
22	over time.	22	capitalization and equity ratios?
23	Obviously, you can't change	23	A. Again, it may or it may not. Again, as
24	you know, companies are not going to change their	24	I said, these retention ratios go up; they go
25	retention rates forever, and in arriving at growth	25	down.
	Page 23		Page 25
1	expectation, you have to take into account that	1	It depends you know, the
2	these go up and down over time.	2	dividends tend to stay stable, the earnings go up
3	I mean, they don't go one	3	and go down relative, but the companies tend to
4	direction forever, because, obviously, then the	4	keep their dividends strategies fairly stable.
5	retention would be zero, if they continued to	5	Q. Have you examined whether these
	increase it. So, it's going to go up and down	6	capitalization and equity ratios have been
1 7	over time depending on earnings, because companies	7	changing in your comparable group for this case?
	أمعتم مأمسم أنبذاه مليامه ببلمينغمام سمميا مغام سمغ		
8	tend to keep relatively stable dividends and	8	A. I haven't looked at that specifically,
8 9	earnings go up and earnings go down.	9	A. I haven't looked at that specifically, but, as I said, they go up and down over time.
8 9 10	earnings go up and earnings go down. Q. You've used Value Line estimates for	9 10	A. I haven't looked at that specifically,but, as I said, they go up and down over time.Q. Let me turn to a different subject.
8 9 10 11	earnings go up and earnings go down. Q. You've used Value Line estimates for growth and book value; is that right?	9 10 11	 A. I haven't looked at that specifically, but, as I said, they go up and down over time. Q. Let me turn to a different subject. In your growth rate analysis
8 9 10 11 12	earnings go up and earnings go down. Q. You've used Value Line estimates for growth and book value; is that right? A. Yes.	9 10 11 12	 A. I haven't looked at that specifically, but, as I said, they go up and down over time. Q. Let me turn to a different subject. In your growth rate analysis you elected to use median rather than means; is
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8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 earnings go up and earnings go down. Q. You've used Value Line estimates for growth and book value; is that right? A. Yes. Q. Are those values calculated by multiplying Value Line's estimate of future total capitalization, by Value Line's estimate of the company's common equity ratio, and then dividing that product by the number of common shares outstanding? A. Can you repeat that? You're talking the reference, I didn't Q. Are these Value Line estimates calculated by multiplying Value Line's estimate of 	9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I haven't looked at that specifically, but, as I said, they go up and down over time. Q. Let me turn to a different subject. In your growth rate analysis you elected to use median rather than means; is that right? A. What growth rate analysis? Q. I didn't write the page number down. Let me see if I can find that. There was a portion of your testimony where you explained that you elected to use the median and you distinguished that from the average. Do you remember where that is? A. No.

7 (Pages 22 to 25)

	Page 26		Page 28
1 1	reference let me check to see. I should know.	1	to everyone, as well.
2	I do remember where it is.		Q. How does the mean give equal weight to
3	Hold on.	3	everyone, when the magnitude of the numbers that
4	Q. Sorry, I failed to write it down,	4	are being used differ?
5	Professor.	5	A. Well, I mean, they're both given the
6	A. That's all right. I got it here	6	same weight. It's an ordinal measure as opposed
7	someplace. Page thirty, line seventeen, eighteen,	7	to a cardinal measure. So, they're both given the
8	I just was trying to pick up the reference you	8	same weight.
9	were thinking about and then I figured it out.	9	Q. Did you make a calculation that
10	Q. Yes, thank you.	10	eliminated median EPS growth rates from your
11	And why did you use both mean	11	analysis?
		12	•
	and median in this analysis?	13	A. Did I make no, not that I'm aware of.
13	A. Just because I'm trying to get a	}	
14	measure of central tendency. With a number of	14	Q. If you eliminated dividends per share,
15	these you know, if a distribution is symmetric	15	book value per share, and the median EPS growth
16	without outliers, the mean and median should be	16	rates from your calculation, do you know what the
17	about the same.	17	effect would be on the mean of your comparable
18	And in this case there are a	18	groups earnings?
19	lot of numbers that are not symmetric. The	19	A. No.
20	distributions are not symmetric. So, I try as	20	Q. You don't know?
21	a way of getting a measure of central tendency, I	21	A. No.
22	include both.	22	I mean, I don't think that's
23	Q. When you use the term measure of the	23	the right thing to do, but I haven't made that
	central tendency, what are you talking about?	24	calculation.
25	A. Well, there's different measures of	25	Q. And why would you say that's not the
	Page 27		Page 29
1	central tendency. The mean is the average. The	1	right thing to do?
2	median is the middle observation. The mode is the	2	A. Well, I'll just point to my testimony.
3	most common observation.	3	· · · · ·
۰ ۳		-	I explain it there.
4	So, there's different measures	4	I explain it there. I think the best explanation is
4	So, there's different measures of central tendency, trying to get an indication	4	
4 5		4 5	I think the best explanation is
4 5	of central tendency, trying to get an indication	4 5 б	I think the best explanation is probably I mean, it's in my general discussion
4 5 6	of central tendency, trying to get an indication of what's where the central tendency is in the	4 5 б	I think the best explanation is probably I mean, it's in my general discussion of growth, which is between pages twenty-eight and
4 5 6 7	of central tendency, trying to get an indication of what's where the central tendency is in the distribution. Q. Are there significant differences	4 5 6 7	I think the best explanation is probably I mean, it's in my general discussion of growth, which is between pages twenty-eight and thirty.
4 5 6 7 8	of central tendency, trying to get an indication of what's where the central tendency is in the distribution.	4 5 6 7 8	I think the best explanation is probably I mean, it's in my general discussion of growth, which is between pages twenty-eight and thirty. Q. I think there's a difference between
4 5 6 7 8 9	of central tendency, trying to get an indication of what's where the central tendency is in the distribution. Q. Are there significant differences between the means and medians that you present in your growth rate analysis?	4 5 6 7 8 9	I think the best explanation is probably I mean, it's in my general discussion of growth, which is between pages twenty-eight and thirty. Q. I think there's a difference between you and Dr. Makholm, also, with regard to using mid year book values for shares; is that right?
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		1	
1	Page 30		Page 32
1	create a mid year value?	1	issue.
2	A. I'm not sure. He may have.	2	Q. With regard to a different portion of
3	Q. Did you know of anything wrong with	3	this section on page eight-five, I think it's line
4	such a methodology?	4	thirteen and fourteen, Professor, you indicate
5	A. Again, I'm not sure. I would have	5	that, in your view, DP&L should not earn an
6	to I'd have to look at that. I haven't really	6	overall rate of return on the fuel deferral
	looked at it that closely.	7	because it is not a capital investment; is that
	MR. FARUKI: Let's go off the	8	1
8		9	right? A. Yes.
9	record.	1	
10	(Discussion off the record)	10	Q. Are you familiar with rate based
11	(Discussion off the record)	11	calculations in Ohio?
12		12	A. Just very generally.
13	BY MR. FARUKI:	13	Q. Do you agree that the rate base
14	Q. Could you take a look at page	14	includes more items than capital investments, such
15	eighty-five of your testimony, Professor?	15	as coal inventories, working capital from lead lag
16	A. Okay.	16	studies and accumulated deferred income tax
17	Yes.	17	balances?
18	Q. On page eighty-five, and I have a	18	A. Yes.
19	reference in particular to line three and line	19	Q. All of the rate base items have the
20	thirteen, you're indicating that DP&L is	20	opportunity to earn an overall rate of return
21	requesting a return on the fuel deferrals at an	21	grossed up for income taxes; is that correct?
22	overall rate of return grossed up for deferred	22	A. Yeah, I mean, the deferrals somewhat
23	income taxes; is that right?	23	have different characteristics, is what I mean,
24	A. Yes.	24	
25	Q. And your reference in your footnote	25	characteristics than that.
	Page 31		Page 33
	_		_
	there on page eighty-five is to Mr. Campbell's	1	Q. Before we get to I'll ask you about
2	testimony on page five?	2	that in a minute, but the rate base items that I
			······································
3	A. Yes.	3	mentioned, all have the opportunity to earn an
4	Q. Does Mr. Campbell's testimony refer to	4	overall rate of return grossed up for current
4	Q. Does Mr. Campbell's testimony refer to a gross up for deferred income taxes?	4 5	overall rate of return grossed up for current federal income taxes; correct?
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4	Q. Does Mr. Campbell's testimony refer to a gross up for deferred income taxes?A. I believe it does. I don't have it right here in front of me, but as I remember, it	4 5	overall rate of return grossed up for current federal income taxes; correct?A. Yes.Q. Is it your view that fuel deferral is
4	 Q. Does Mr. Campbell's testimony refer to a gross up for deferred income taxes? A. I believe it does. I don't have it right here in front of me, but as I remember, it was a deferred a gross up for income taxes, I 	4 5 б 7 8	overall rate of return grossed up for current federal income taxes; correct?A. Yes.Q. Is it your view that fuel deferral is dissimilar, in some way, from these items?
4 5 6 7	 Q. Does Mr. Campbell's testimony refer to a gross up for deferred income taxes? A. I believe it does. I don't have it right here in front of me, but as I remember, it was a deferred a gross up for income taxes, I guess, and that was my understanding as I remember 	4 5 7 8 9	 overall rate of return grossed up for current federal income taxes; correct? A. Yes. Q. Is it your view that fuel deferral is dissimilar, in some way, from these items? A. Somewhat, yes.
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9 (Pages 30 to 33)

1	Page 34		Page 36
1	rate of return?	1	and TCR deferrals that you reference in your
2	A. Because it's an amortizing asset. It		testimony, are not comparable to the fuel deferral
3	goes away.	3	here either in magnitude or period of recovery?
4	Q. Let me ask you about page eighty-eight.	4	A. Well, they're shorter and smaller, I
5	I think it's really a response	5	believe.
6	to the question at the bottom of page eighty-five.	6	Q. On the bottom half of page eighty-six,
7	You are indicating that the	7	and I believe the top of page eighty-seven, you
8	Commission has only allowed interest rate returns	8	are expressing your opinion that the proper
9	on deferrals for American Electric Power's	9	carrying charge for the balance of the fuel
10	windstorm deferral and Transmission Cost Recovery	10	deferral should be the cost of long term debt; is
11	Rider deferral; is that correct?	11	that right?
12	A. Yes, I mean, those are just some	12	A. Yes.
13	examples I cited.	13	Q. Do you know well, let me back up.
14	Q. Are you familiar with the recovery	14	You do know that the possible
15	periods for those deferrals?	15	V 1
16	A. I don't remember exactly what they are.	16	costs is ten years as you said; right?
17	Q. Aren't they both for one year?	17	A. Yes.
18	A. I mean, they're short-term, but I don't	18	Q. And do you know the source of the
19	know exactly for how long.	19 20	funding for the cash outlays by DP&L to fund the
20	Q. But you remember they were relatively short-term?	20	expenditures of those size? A. No.
21	A. Yes.	21	Q. Due to the size of these expenditures,
23	Q. Were the amounts of those deferrals	23	is it reasonable to believe that they're going to
24	relatively small when compared to the estimated	24	be funded in the ratio of the overall cost of
1	fuel deferral balance at issue here?	1	DP&L's capital weighting?
	, <u></u>		
	Page 35		Page 37
1	A. I don't recall.	1	A. I do not know.
2	Q. Do you know how long the possible fuel	2	Q. Is it reasonable for DP&L to carry
3	and recovery I'm sorry, possible deferral and recovery period is for deferred fuel costs?	5	these costs for a long period of time, with only a
4 5	recovery beriod is for deferred fuel costs?		dabt notions where it's acting to cost the component
1 2	• •	4	debt return, when it's going to cost the company
	A. I think it can be up to ten years.		more than that to carry them?
6	A. I think it can be up to ten years.Q. Would you accept up to twelve years,	4 5 6 7	more than that to carry them? A. Well, again, it's going to amortize
6 7	A. I think it can be up to ten years.Q. Would you accept up to twelve years,two years of deferral and ten years of recovery?	6 7	More than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact
6 7 8	A. I think it can be up to ten years.Q. Would you accept up to twelve years,two years of deferral and ten years of recovery?A. Yes, I mean, I guess I was talking	6 7 8	more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over
6 7 8 9	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. 	6 7 8 9	more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over
6 7 8 9 10	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. 	6 7 8 9 10	more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years.
6 7 8 9 10 11	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. Do you recall the order of 	6 7 8 9 10 11	 more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years. Q. I understand it's there and it
6 7 8 9 10 11 12	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. Do you recall the order of magnitude of either the 2009 or 2010 deferrals? 	6 7 8 9 10 11 12	 more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years. Q. I understand it's there and it
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6 7 8 9 10 11 12 13 14 15 16	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. Do you recall the order of magnitude of either the 2009 or 2010 deferrals? A. Yeah, I do. Q. Tell me what those are, please? A. I think they are in the area of a hundred million. 	6 7 8 9 10 11 12 13 14 15 16	 more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years. Q. I understand it's there and it disappears. But the company is going to pay more than the amount represented by your proposed carrying charge in order to carry these funds; isn't it?
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6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. Do you recall the order of magnitude of either the 2009 or 2010 deferrals? A. Yeah, I do. Q. Tell me what those are, please? A. I think they are in the area of a hundred million. Q. Would you accept a hundred and sixty-three million in 2009, and fifty-two million approximately, in 200 I'm sorry, I'll withdraw that. 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20	 more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years. Q. I understand it's there and it disappears. But the company is going to pay more than the amount represented by your proposed carrying charge in order to carry these funds; isn't it? A. Well, I mean, it's going to I mean, it's like I just view it like a it's like a mortizes itself. And it just appears that the appropriate charge for something like that should
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. Do you recall the order of magnitude of either the 2009 or 2010 deferrals? A. Yeah, I do. Q. Tell me what those are, please? A. I think they are in the area of a hundred million. Q. Would you accept a hundred and sixty-three million in 2009, and fifty-two million approximately, in 200 I'm sorry, I'll withdraw that. Would you accept fifty-two million in 2009 and a hundred and eleven million in 2010? 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23	 more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years. Q. I understand it's there and it disappears. But the company is going to pay more than the amount represented by your proposed carrying charge in order to carry these funds; isn't it? A. Well, I mean, it's going to I mean, it's like I just view it like a it's like a mortgage. It's there. It goes away. It amortizes itself. And it just appears that the appropriate charge for something like that should be their debt cost rate.
6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22	 A. I think it can be up to ten years. Q. Would you accept up to twelve years, two years of deferral and ten years of recovery? A. Yes, I mean, I guess I was talking about the recovery, as opposed to the deferral. Q. Maybe I asked you this. Do you recall the order of magnitude of either the 2009 or 2010 deferrals? A. Yeah, I do. Q. Tell me what those are, please? A. I think they are in the area of a hundred million. Q. Would you accept a hundred and sixty-three million in 2009, and fifty-two million approximately, in 200 I'm sorry, I'll withdraw that. 	6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24	 more than that to carry them? A. Well, again, it's going to amortize itself over, you know and I forget the exact figures, but, you know, it amortizes itself over ten years. So, it's there and it disappears over ten years. Q. I understand it's there and it disappears. But the company is going to pay more than the amount represented by your proposed carrying charge in order to carry these funds; isn't it? A. Well, I mean, it's going to I mean, it's like I just view it like a it's like a mortizes itself. And it just appears that the appropriate charge for something like that should

	Page 38		Page 4
1	A. Because it's a special item in a way.	1	exhibit JRW-4, I show the makeup of the group, and
2	Again, it's not a capital	£	as it turns out, the group, itself, has, you know,
3	investment. It's not like something that's in	3	average operating revenue of two point nine
4	you know, like coal or something that's in your	4	billion, net plant of five point two billion.
5	inventory and it's going to go there forever.	5	So, the intention is to
6	This is something that's there	6	capture, in terms of the universe of electric
7	and it disappears.	7	utilities, smaller primary electric utilities.
8	Q. That being the case, why do you select	8	Q. And the idea of a proxy group, it is to
9	the debt cost?	9	be constructed to be representative of the company
10	A. Because it's short-term, relatively	10	that's being investigated or examined?
11	short-term, and it amortizes. It's like an	11	A. Yes.
12	amortizing mortgage.	12	Q. If that is the case, then why would you
13	Q. Let me change subjects again. I want	13	use a median as opposed to a mean average when
14	to go back to the mean and median issues, and this	14	conducting a proxy group analysis?
15	would be directing you to approximately page	15	A. I don't understand your question.
16	eighteen, Professor.	16	MR. FARUKI: Off the record.
17	A. Okay.	17	
18	Yes.	18	(Discussion off the record)
19	Q. Actually, not on that page.	19	· · · · · · · · · · · · · · · · · · ·
20	Is it accurate that medians are	20	BY MR. FARUKI:
21	commonly used in statistics when outliers in the	21	Q. If you would look at your exhibit
22	sample would otherwise bias results?	22	JRW-10, that lists your thirteen company proxy
23	A. I mean, yes, that's what I said in my	23	group; right?
24	testimony.	24	A. Yes.
25	Q. But here, when you have composed your	25	Q. And you've got mean and median figures
	Page 39		Page 41
1	comparable group, all the utilities are comparable	1	in your bottom two rows?
2	to the subject company, DP&L right?	2	A. Yes.
3	A. I really don't know what you're	3	Q. And given the purpose of a proxy group,
4	talking I mean, I'm looking at page eighteen.	4	why are you using a median here?
5	Q. I think I gave you the wrong page	5	A. I explained that in my testimony.
6	number reference, so let me retract that.	6	I mean, there was some
7	A. I'm kind of lost here, yes.	7	number you know, these are not just symmetric
8	Q. I was actually back, flipping through	8	distributions, and there tend to be outliers in a
9	your schedules, Professor, on your comparable	9	lot of these.
10		1	
1 1 1	group. So, I don't have a page of testimony to	10	So, it's just another measure
11	give you.	10	of central tendency I'm pulling into it.
12	give you. Is it accurate that when you	11 12	of central tendency I'm pulling into it. Q. Are you saying there were outliers in
	give you. Is it accurate that when you are doing your comparable group studies for the	11	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying
12	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities	11 12 13 14	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median?
12 13 14 15	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L?	11 12 13 14 15	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the
12 13 14 15 16	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L? A. Well, I mean, what I try to do is	11 12 13 14 15 16	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the median.
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12 13 14 15 16 17 18 19	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L? A. Well, I mean, what I try to do is select publicly traded utilities, which have I mean, first of all, they're primarily electric utilities and they're also electric utilities that	11 12 13 14 15 16 17 18 19	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the median. Q. Take a look at I'll withdraw that. With regard to your Exhibit JRW-11, Professor
12 13 14 15 16 17 18 19 20	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L? A. Well, I mean, what I try to do is select publicly traded utilities, which have I mean, first of all, they're primarily electric utilities and they're also electric utilities that have a relative or, are small, given the	11 12 13 14 15 16 17 18 19 20	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the median. Q. Take a look at I'll withdraw that. With regard to your Exhibit JRW-11, Professor A. Yes.
12 13 14 15 16 17 18 19 20 21	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L? A. Well, I mean, what I try to do is select publicly traded utilities, which have I mean, first of all, they're primarily electric utilities and they're also electric utilities that have a relative or, are small, given the universe of utilities.	11 12 13 14 15 16 17 18 19 20 21	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the median. Q. Take a look at I'll withdraw that. With regard to your Exhibit JRW-11, Professor A. Yes. Q the pricing model analysis
12 13 14 15 16 17 18 19 20 21 22	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L? A. Well, I mean, what I try to do is select publicly traded utilities, which have I mean, first of all, they're primarily electric utilities and they're also electric utilities that have a relative or, are small, given the universe of utilities. So, I mean, that's why I put in	11 12 13 14 15 16 17 18 19 20 21 22	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the median. Q. Take a look at I'll withdraw that. With regard to your Exhibit JRW-11, Professor A. Yes. Q the pricing model analysis A. Yes.
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12 13 14 15 16 17 18 19 20 21 22	give you. Is it accurate that when you are doing your comparable group studies for the DCF analysis, what you've done is select utilities that are comparable to DP&L? A. Well, I mean, what I try to do is select publicly traded utilities, which have I mean, first of all, they're primarily electric utilities and they're also electric utilities that have a relative or, are small, given the universe of utilities. So, I mean, that's why I put in	11 12 13 14 15 16 17 18 19 20 21 22	of central tendency I'm pulling into it. Q. Are you saying there were outliers in this particular proxy group, or are you saying that that's, in general, why you use the median? A. It's a general reason to use the median. Q. Take a look at I'll withdraw that. With regard to your Exhibit JRW-11, Professor A. Yes. Q the pricing model analysis A. Yes.

11 (Pages 38 to 41)

	Page 42	-	Page 44
	1 Q. Yes, sir.	1	Q. Were you gathering all the studies you
	2 A. In some cases, yes.	2	could on this subject?
	3 Q. You used historical equity risk premium	3	A. Every one I could find.
	4 in this calculation; is that right?	4	Q. Is it accurate that many of these
	5 A. As I explained in my testimony, I used	5	reported returns are lower than the risk free rate
	6 a little bit of everything.	6	at the applicable time?
	7 I used historic I mean,	7	A. I don't understand your question.
ſ	8 there's three ways to get an equity risk premium.	8	Q. Well, the time period you have here is
	9 Using historic returns, using surveys and looking	9	historical and that or, I should say time
1	0 at what are called ex ante models, where you look	10	periods, plural, that you have here are
1	1 at studies over time that measure expected return	11	historical, and this data is backward looking, not
1	2 and compare those to risk free rates to get a risk	12	forward looking; right?
1	3 premium.	13	A. Certainly.
1	4 So, I used all three	14	And Dr. Makholm used the same
1	5 approaches. So, one approach was using historical	15	data, but he relied only on one of the historical
1	6 returns.	16	studies, the Ibbatsan study.
1	7 Q. To the extent you're using historical	17	MR. FARUKI: Why don't we take
1		18	ten minutes, Professor.
1	9 A. Yes. I mean, that's one way of looking	19	••-
2	· · · -	20	(At this point, a short recess
2		21	was taken, after which time the deposition
2	2 to get there.	22	resumed.)
2	Q. Why do you say there's some issues with	23	
2	4 that?	24	BY MR. FARUKI:
2	5 A. Well, I mean, I explained that in my	25	Q. Professor, again, on page eighty-three
	Page 43	1	Page 45
ľ	2	1	1430 14
	7 4 4		· C · · · · · · · · · · · · · · · · · ·
	1 testimony.	1	of your testimony you have a section headed, the
	2 I mean, there's in my	2	Financial Performance of Dayton?
	I mean, there's in my testimony, between pages seventy-one and pages	2 3	Financial Performance of Dayton? A. Yes.
	I mean, there's in my testimony, between pages seventy-one and pages seventy-one and eighty I explained, you know, some	2 3 4	Financial Performance of Dayton?A. Yes.Q. Would you tell me how that fits into
	I mean, there's in my I mean, there's in my testimony, between pages seventy-one and pages seventy-one and eighty I explained, you know, some of the empirical issues that have been evaluated,	2 3 4 5	Financial Performance of Dayton?A. Yes.Q. Would you tell me how that fits into the rest of your analysis?
	I mean, there's in my testimony, between pages seventy-one and pages seventy-one and eighty I explained, you know, some of the empirical issues that have been evaluated, discussed, reviewed in studies of using historic	2 3 4 5 6	Financial Performance of Dayton?A. Yes.Q. Would you tell me how that fits into the rest of your analysis?In other words, I've read the
	I mean, there's in my testimony, between pages seventy-one and pages seventy-one and eighty I explained, you know, some of the empirical issues that have been evaluated, discussed, reviewed in studies of using historic returns as measures of as ways to measure ex	2 3 4 5	Financial Performance of Dayton? A. Yes. Q. Would you tell me how that fits into the rest of your analysis? In other words, I've read the section, and I'm sure it's just me, Professor, but
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