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1 BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

2	
3	In the Matter of the :
1	Application of Columbus:
4	Southern Power Company for: Approval of its Electric:
5	Security Plan; an : Case No. 08-917-EL-SSO
	Amendment to its Corporate:
6	Separation Plan; and the:
	Sale or Transfer of :
7	Certain Generating Assets.:
8	In the Matter of the :
Ü	Application of Ohio Power:
9	Company for Approval of :
	its Electric Security : Case No. 08-918-EL-SSO
10	Plan; and an Amendment to:
	its Corporate Separation:
11	Plan. :
12	
13	PROCEEDINGS
1 /	1.C. M. W. L. 1. W. D. T 1M. C C.
14	before Ms. Kimberly W. Bojko and Ms. Greta See,
15	Hearing Examiners, at the Public Utilities Commission
16	of Ohio, 180 East Broad Street, Room 11-C, Columbus,
17	Ohio, called at 9:00 a.m. on Friday, November 21,
18	2008.
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1	INDEX	
2		
3	WITNESSES PA	GE
4	Philip J. Nelson	10
5	Cross-examination by Ms. Grady Redirect examination by Mr. Conwa Recross-examination by Ms. Grady	10 xy 100 103
6	•	103
7	William K. Castle Direct examination by Mr. Nourse	110
,	Cross-examination by Mr. White	111
8	Cross-examination by Mr. Randazzo	
9	Cross-examination by Mr. Etter	113
	Jay F. Godfrey	
10	Direct examination by Mr. Nourse	122
	Cross-examination by Mr. Etter	123
11	•	
	Gregory A. Earl	
12	Direct examination by Mr. Resnik	134
	Cross-examination by Mr. Randazzo	135
13	Cross-examination by Mr. O'Brien	136
	Cross-examination by Mr. Idzkowski	i 140
14	Examination by Mr. Bojko	157
	Redirect examination by Mr. Resnik	159
15		
	Karl G. Boyd	
16	Direct examination by Mr. Nourse	161
	Cross-examination by Mr. Reese	162
17	Cross-examination by Mr. Maskovy	
	Cross-examination by Mr. O'Brien	237
18	Cross-examination by Mr. Jones	256
	Redirect examination by Mr. Nourse	264
19		

20			
21			
22			
23			
24			
25			

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1	INDEX			
2				
3	COMPANY EXHIBITS		ID'D	REC'D
4	7 - Direct Testimony of Philip J. Nelson	V.IV	107	
5	7A - Revised PJN-1, PJN-4,	PJN-13	V.IV	107
7	8 - Direct Testimony of William K. Castle	109	121	
	9 - Direct Testimony of Jay F. Godfrey	121	131	
9 10	10 - Direct Testimony of Gregory A. Earl	134	160	
11	11 - Direct Testimony of Karl G. Boyd	161	268	
12	OCC EXHIBITS	ID'	D REC	C'D
1314	6 - Company Response to C for Production No. RPD	-	•	106
	7 - Company Response to Interrogatory Request No.		89	106
1617	8 - OCC RPD-7-93 Attachn	nent 1	117	121
18	9 - Company Response to O Interrogatory Request N		178	268
19	IEU EXHIBITS	ID'	D REC	C'D

20	2 - AEP 3Q08 Earnings Release	V	.IV	108
21	OHA EXHIBITS	ID'D	REC'	D
22	1 - Company Response to OHA Interrogatory Request No. 2-3		269	
23				
24				
25				

1	Friday Morning Session,
2	November 21, 2008.
3	
4	EXAMINER BOJKO: Let's go back on the
5	record.
6	This is a continuation of case number
7	08-917, 08-918-EL-SSO In the Matter of AEP's
8	Applications for Electric Security Plans, et al.
9	Let's go around the room and just do a
10	brief, brief appearances to make sure who is in the
11	room at this time.
12	Mr. Resnik.
13	MR. RESNIK: Marvin Resnik, Dan Conway,
14	and Steve Nourse for the companies.
15	MR. MASKOVYAK: Joe Maskovyak and Mike
16	Smalz for APAC.
17	MR. O'BRIEN: Tom O'Brien, Rick Sites for
18	the Ohio Hospital Association.
19	MR. JONES: Good morning, your Honor, On

- 20 behalf of the staff of the Public Utilities
- 21 Commission of Ohio, Werner Margard, Tom Lindgren, and
- 22 John Jones.
- MS. ELDER: Betsy Elder and Howard
- 24 Petricoff for Integrys Energy and Constellation New
- 25 Energy.

1	MS. GRADY: On behalf of the residential
2	ratepayers of the company, Janine L.
3	Migden-Ostrander, Consumers' Counsel, Maureen Grady
4	and Terry Etter.
5	MR. RANDAZZO: Lisa McAlister, Joseph
6	Clark, Sam Randazzo for the Industrial Energy Users
7	of Ohio.
8	MR. BOEHM: On behalf of the Ohio Energy
9	Group David Boehm and Michael Kurtz.
10	MR. WHITE: For the Kroger Company, Matt
11	White, John Bentine, and Mark Yurick.
12	EXAMINER BOJKO: Thank you.
13	Mr. Nelson, you recall you're still under
14	oath.
15	THE WITNESS: Yes.
16	EXAMINER BOJKO: I believe we left off
17	with Ms. Grady.
18	MS. GRADY: That's correct, your Honor.
19	

- 20 PHILIP J. NELSON
- 21 having been previously sworn, as prescribed by law,
- 22 was examined and testified as follows:
- 23 CROSS-EXAMINATION
- 24 By Ms. Grady:
- Q. Good morning, Mr. Nelson.

- 1 A. Good morning.
- Q. Let's go to your testimony, page 4, and
- 3 I'm going to direct your attention to lines 13 and
- 4 14, and you indicate there that SB 221 provides for a
- 5 broader cost-based adjustment than the EFC
- 6 methodology in that it includes all prudently
- 7 incurred fuel, purchased power, and environmental
- 8 components in the ESP. Do you see that reference?
- 9 A. Yes.
- 10 Q. When you use the term "prudently
- 11 incurred," that term applies to all the components
- 12 you mentioned on line 14, that is, SB 221 provides
- 13 that the SSO may include prudently incurred fuel,
- 14 prudently incurred purchased power, and prudently
- 15 incurred environmental components?
- 16 A. Yes. But the only qualifier is that it
- 17 does say "incurred," so to me the prudence test is
- 18 after we got the fuel in place and we would have a, I
- 19 think, an annual audit under Commission's rules so

- 20 that's when the prudence test, I believe, would have
- 21 to come in.
- Q. Now, when you refer to the environmental
- 23 components, are those the costs that are prudently
- 24 incurred to comply with environmental laws and
- 25 regulations as you understand SB 221?

- 1 A. Yes, I believe that's the case.
- Q. Do you know the source in 221 of the
- 3 environmental component portion?
- 4 A. I'm not sure how to answer that question.
- 5 Are you asking me the source in the statute itself
- 6 for environmental or --
- 7 Q. Yes. Can you point to a specific
- 8 provision within SB 221 that permits the recovery of
- 9 the environmental component or the environmental
- 10 cost? Do you know the specific statute for a
- 11 reference? And if you don't, that's fine as well.
- 12 A. 143(B)(2)(a) has the environmental
- 13 allowances in that section specifically. They're
- 14 also -- in Senate Bill 221 there's some language
- 15 "without limitation" and so forth, so not all
- 16 environmental perhaps is specifically detailed in a
- 17 particular section. It may come under a broader
- 18 category.
- 19 However, it seems apparent to me that

- 20 when you read Senate Bill 221, the intention was for
- 21 us to get our environmental costs. Environmental is
- 22 prevalent in that it is -- it's also handled under
- 23 the MRO section of the bill. It specifically
- 24 mentions environmental in that section, I believe.
- Q. Yes. I guess that was my point. When I

- 1 looked at the -- when I look at 221, I see a
- 2 reference to the environmental components under
- 3 4928.142(D)(4), and that's the MRO section.
- 4 A. Yes.
- 5 Q. And I was searching for similar language
- 6 on the SSO section and wasn't finding that.
- 7 A. Yeah. The ESP section I don't think has
- 8 the same language around environmental, though it
- 9 has, as we talked about, a broader "without
- 10 limitation" and I've kind of looked at, you know,
- 11 that it is in the MRO, it seemed that, you know, that
- 12 they envision that we should get environmental
- 13 recovery specifically, so even though it wasn't --
- 14 that same language wasn't taken over to the ESP side
- 15 of the bill, other than, you know, specific mentions
- 16 for like allowances, I felt that it was the intention
- 17 of the bill to allow us to recover environmental
- 18 costs.
- Q. Now, going to page 4 of your testimony,

- 20 lines 18 through 21, you indicate that the company
- 21 did not propose to include capital carrying costs on
- 22 the environmental capital in the fuel adjustment
- 23 clause. Do you see that?
- 24 A. Yes.
- Q. But, Mr. Nelson, recovery for the

- 1 carrying costs on the environmental capital is being
- 2 sought in some other form, correct?
- 3 A. That's correct.
- 4 Q. And you merely testified as to the amount
- 5 of the costs or the quantification; is that correct?
- 6 A. I provide a quantification of it, though
- 7 I am supporting the concept that we should get that
- 8 as well.
- 9 Q. The environmental carrying costs would be
- 10 included in the SSO rate as you understand it, and
- 11 Mr. Roush would testify to that?
- 12 A. Yes. He would have taken the number I
- 13 provided him and designed a rate to recover it.
- Q. And due to the fact that the capital
- 15 carrying cost on the environmental capital is not
- 16 being recovered through the fuel adjustment clause,
- 17 the company is not proposing, is it, in the ESP any
- 18 trueup or a tracker associated with the carrying cost
- 19 associated on the environmental investment; is that

- 20 correct?
- A. That's correct, we did not propose a
- 22 tracker for that item.
- Q. And there's no trueup either.
- A. That's correct.
- Q. So whatever carrying costs are currently

- 1 built into the ESP remain there forever.
- A. Well, the ESP is a three-year plan.
- Q. I'm sorry, remain there for three years
- 4 then at least, at a minimum.
- 5 A. Yes. That's correct.
- 6 Q. Let's go back for a moment, Mr. Nelson,
- 7 to your first exhibit. That would be PJN-1, and it
- 8 really doesn't -- for purposes of my questions it
- 9 really doesn't matter whether we're on PJN-1 Exhibit
- 10 7 or Exhibit 7A, so that does not make a difference.
- In terms of the PJN-1, this exhibit would
- 12 show the fuel component of the current SSO for CSP;
- 13 isn't that correct?
- 14 A. Yes, that's correct.
- Q. And the corresponding exhibit for Ohio
- 16 Power would be PJN-4.
- 17 A. Yes.
- Q. Now, if I look at PJN-1, we see the
- 19 allocation factor allocating, for instance, the

- 20 SB 221 FAC accounts at the 1999 level.
- 21 A. Yes.
- Q. And what you're trying to do there is
- 23 allocate those accounts to internal load; is that
- 24 correct?
- A. Yes. Some of the costs should be

- 1 assigned to the off-system sales, and in the case of
- 2 Ohio Power, there would also be assignment to other
- 3 members of the AEP companies or AEP.
- 4 Q. And when you allocate or assign some of
- 5 that to off-system sales, the reverse of that is
- 6 true, that you are allocating costs to the internal
- 7 load, correct?
- 8 A. Yes, that's correct.
- 9 Q. Now, the allocation factor that you've
- 10 shown here, that has never been approved by the Ohio
- 11 Commission, has it?
- 12 A. No, and I wouldn't think it would be.
- Q. And why do you think it wouldn't be?
- 14 A. It's a dynamic allocator. The
- 15 methodology would be approved but not a particular
- 16 percentage.
- 17 Q. Has the methodology been approved by the
- 18 Ohio Commission, to your knowledge?
- 19 A. In a sense I believe so because in the

- 20 old EFC provisions there would always have been
- 21 allocations of fuel costs to off-system sales and
- 22 away from the internal customer, and I'm continuing
- 23 that methodology for these additional items.
- Now, we don't have the ability back in
- 25 '99 to be as precise at looking at which units were

- 1 actually running and assigning these costs based on
- 2 which units were assigned to off-system sales. So
- 3 what I did is I had to use a proxy for that, so I
- 4 went back and analyzed the kWhs assigned to internal
- 5 load versus off-system and assigned on that basis.
- Now, the fuel cost itself, the old EFC or
- 7 the NEC would have been done in the manner I
- 8 described. It would have been the algorithm where at
- 9 each hour you determine which plant is running for
- 10 off-system sales and assign that amount.
- 11 Q. So in the company's most recent EFC
- 12 proceeding, this allocation methodology which you
- 13 present here today would have been used by the
- 14 company and approved by the Commission. Is that your
- 15 testimony today?
- A. And I'm assuming when you say "the most
- 17 recent EFC," that would have been the vintage
- 18 '99 cases?
- 19 Q. Yes.

- A. Yes. That would underlie the number
- 21 shown on line 10. You see that 1.373, that would
- 22 have reflected that methodology.
- Q. I guess I was looking at the allocation
- 24 that occurs in the following lines from line 18
- 25 through 31.

- 1 A. There we'd have to do, as I said, a proxy
- 2 for determining that. The method I used was to
- 3 review that period 1999 and assign these costs
- 4 according to the megawatt-hours assigned internal
- 5 versus off-system because that wasn't a part of the
- 6 old EFC, so those costs wouldn't have been available
- 7 in the algorithm.
- 8 Q. Now, when we use the phrase "internal
- 9 load," are we talking about retail jurisdictional
- 10 customers?
- 11 A. We're talking about retail and firm
- 12 wholesale.
- Q. Now, on line 36 of PJN-1 you have a --
- 14 you have the RSP rate adjustment. Do you see that?
- 15 A. Yes.
- Q. And you have 3 percent per year for three
- 17 years. Do you see that?
- 18 A. Yes.
- 19 Q. That represents a compound rate, does it

- 20 not, Mr. Nelson? In fact, in the RSP you get
- 21 3 percent increase for '06, an additional increase
- 22 for '07, and an additional 3 percent for '08.
- A. Yes, that's correct. And I believe I
- 24 give you the compound percentage in my testimony.
- Q. And that compound rate is then applied to

- 1 line 35, the 2.166 cents?
- 2 MR. CONWAY: Just for the record, you're
- 3 keying your discussion off of the original PJ --
- 4 MS. GRADY: I'm sorry.
- 5 MR. CONWAY: That's okay, you explained
- 6 at the outset. I just want to make sure everyone
- 7 understood you were looking at the original figures.
- 8 MS. GRADY: Yes.
- 9 Q. And that compound rate, let's use the
- 10 more revised because that probably is more
- 11 appropriate. You applied that compound rate that you
- 12 indicate in your testimony to line 35, and in 7A that
- 13 line 35 is 2.175.
- 14 A. Yes, that's correct, and results in a
- 15 rate adjustment of 0.202.
- Q. And the 2.175 reflects the addition of
- 17 the frozen EFC rate in 1999 plus the additional
- 18 SB 221 FAC accounts; is that correct?
- 19 A. Yes.

- Q. And again, we're talking about for
- 21 Columbus Southern Power.
- 22 A. We are.
- Q. Now, if we talked about Ohio Power, you
- 24 would have done the same calculation and that would
- 25 be shown on PJN-4.

- 1 A. That's correct.
- 2 Q. And in that instance you would have
- 3 applied the RSP rate adjustment, the 7 percent per
- 4 year for three years.
- 5 A. That's correct. I think it's a compound
- 6 of 22.5 percent.
- 7 Q. Thank you.
- 8 Now let's go to PJN-2, Mr. Nelson. In
- 9 PJN-2 you present the company's calculation of the
- 10 fuel adjustment clause for the base period; is that
- 11 right?
- 12 A. PJN-2 is the forecast for 2009.
- Q. I'm sorry. And PJN-2 reflects Columbus
- 14 Southern Power while PJN-5 would be Ohio Power.
- 15 A. That's correct.
- 16 Q. Now, this exhibit, Mr. Nelson, is based
- 17 on the projected or forecasted amounts for 2009?
- 18 A. Yes, it is.
- 19 Q. Okay. And at the time that this exhibit

- 20 was developed what was the -- let me strike that.
- As we sit here today what are the actual
- 22 latest known data for the SB 221 FAC accounts? What
- 23 period would that cover up to?
- A. The latest known. I haven't done any
- 25 sort of calculation on the latest known.

- 1 Q. Would you imagine that you have the
- 2 SB 221 FAC account information at least through 2008,
- 3 of September?
- 4 A. Yeah, we'd have actual data through
- 5 September '08.
- 6 Q. Would you have actual data beyond
- 7 September 2008?
- 8 A. Yes, we should have probably through
- 9 October now.
- Q. Now, on PJN-2 the 2009 forecast, do you
- 11 know what months that would consist of actual and
- 12 what months would be forecasted for purposes of your
- 13 exhibit?
- 14 THE WITNESS: Could you repeat that,
- 15 please?
- 16 (Record read.)
- 17 A. For 2009 it's all forecasted information.
- 18 Q. Entirely forecasted.
- 19 A. Yes.

- Q. Have you looked at the actual SB 221 FAC
- 21 accounts for 2009 to see how they match up with the
- 22 forecasted 2009 amounts shown on PJN-2.
- MR. CONWAY: Could I have that question
- 24 reread, please?
- 25 (Record read.)

- 1 MR. CONWAY: I'm going to object because
- 2 as the witness just explained, that the forecast is a
- 3 forecast, it's not actuals.
- 4 EXAMINER BOJKO: Could you rephrase your
- 5 question, please, Ms. Grady?
- 6 MS. GRADY: Sure.
- 7 Q. For purposes of the ESP plan presented
- 8 and for purposes -- let's focus on the FAC component
- 9 which you're testifying to. You are, and "you" being
- 10 the company, you are proposing to use the FAC for
- 11 2009 based on total forecast. You are not proposing
- 12 FAC based upon any actual fuel cost; is that correct?
- A. No, that's not correct. In a normal fuel
- 14 proceeding you'd normally -- you'd do a projection of
- 15 what you anticipate fuel to be and you would then
- 16 true up the actual fuel for the same period. In this
- 17 instance it's no different other than when I had the
- 18 caveat that we've got the cap of 15 percent, so my
- 19 numbers aren't taken right to revenue. Normally you

- 20 just start charging what's shown on PJN-2, which is a
- 21 3.649 in rates effective January 1st, and then you
- 22 would true up the actual to that rate, so you'd
- 23 compare your actual cost to your actual revenues.
- 24 Your difference would be deferred.
- In this instance we're not putting in the

- 1 full amount because we have a phase-in plan. We'll
- 2 have a lower revenue in 2009 so we expect to build a
- 3 big deferral right off the bat, but we're always
- 4 going to be comparing a forecast to an actual, and
- 5 the customer will always get billed in the final
- 6 state, the actual fuel cost.
- Q. And why not, Mr. Nelson, why not use
- 8 actual information as opposed to forecast information
- 9 for this purpose?
- 10 A. Well, we have to put in a rate January
- 11 1st, 2009, and we don't have any actual. We're
- 12 still in '08.
- Q. But you do have actuals. We just
- 14 established that you have actuals at least up through
- 15 September 2008 for the FAC components.
- 16 A. Well --
- 17 Q. And those would be the latest known
- 18 actuals, correct?
- 19 A. Yes. But to be frank, it just wouldn't

- 20 make sense. When you do a fuel clause, you're
- 21 putting in the anticipated expense that you expect to
- 22 experience in that period and then you true up to
- 23 that. It's a matching principle. You want to match
- 24 revenues received to the costs in the same period.
- 25 If not, then you're going to get distortions in your

- 1 income statement, you can't really true up one period
- 2 to a past period. That doesn't make sense to me.
- 3 You have to true up to the same period.
- 4 So if you're comparing January '09 costs
- 5 to something, you should be comparing it to January
- 6 '09 revenues for that item.
- Q. I'm not sure that I followed that, but I
- 8 will move on.
- 9 A. Okay.
- Q. Would the forecast for 2009 have been
- 11 developed by you or someone under your supervision?
- 12 And I'm talking about specifically about the 221 FAC
- 13 accounts forecast for 2009 as shown on PJN-2.
- 14 A. They would have been prepared -- the
- 15 underlying data would have been prepared by numerous
- 16 groups within AEP. Everybody has budgets and are
- 17 required to submit budget forecasts and so I can't
- 18 say it's any one particular group. Obviously, our
- 19 fuel supply group would have a big role in it because

- 20 they forecast the underlying fuel costs that feed the
- 21 forecast, but a number of parties are involved.
- But were you actually -- I'm sorry, were
- 23 you specifically referring to the SB 221 accounts?
- Q. Yes, I was.
- A. Okay. Well, they would have probably a

- 1 little bit lesser role in that, the fuel supply
- 2 group. They would have a very prominent role in the
- 3 pieces above that line.
- 4 Q. Now, the company's filing, Mr. Nelson, to
- 5 your knowledge did not present any data on the
- 6 forecast or prices of fuel for the SB 221 FAC
- 7 accounts for any other period than 2009; is that your
- 8 recollection?
- 9 A. When we filed the information, yes, we
- 10 filed 2009 only.
- 11 Q. Now, the allocation factor for the
- 12 environmental accounts that's shown on lines 20
- 13 through 22 of PJN-2, is that based on 1999 or 2009
- 14 data?
- 15 A. No; that's based on 2009 data.
- Q. Let's go to page 6 of your testimony,
- 17 Mr. Nelson. Specifically I want to direct your
- 18 attention to lines 2 through 3, and there you
- 19 indicate that: "The Companies will include in the

- 20 FAC any new environmental related chemicals that may
- 21 be required in the future." Do you see that
- 22 reference?
- 23 A. Yes.
- Q. The only chemical that you expect at this
- 25 time that will be required into the future is the

- 1 activated carbon; is that correct?
- 2 A. That's one that I'm aware of that could
- 3 occur in this period, the three years we're talking
- 4 about for the ESP.
- 5 Q. You're not anticipating, are you,
- 6 Mr. Nelson, any new chemicals to recover costs
- 7 related to CAMR, C-A-M-R?
- 8 A. No, I wouldn't think so. I think if we
- 9 anticipate something, normally we put it in the
- 10 forecast, and I'm not aware of anything in the
- 11 forecast at this point.
- 12 Q. Is it your understanding that CAMR's been
- 13 vacated by the courts?
- 14 A. No. My understanding -- well, I may not
- 15 be up to speed on it. I don't know where it stands,
- 16 to be frank. I know CAMR -- I'm sorry, the mercury
- 17 rule I think has been vacated. I'm a little confused
- 18 on where CAIR stands.
- 19 Q. So CAMR is the mercury rule.

- 20 A. Yes.
- Q. What does CAMR, what do the acronyms
- 22 stand for?
- A. I think it's Clean Air Mercury Rule, but
- 24 that's a guess.
- Q. And the other standard you mentioned is

- 1 CAIR.
- A. Yes.
- Q. Can you tell me what those acronyms stand
- 4 for?
- 5 A. I think it's Clean Air Interstate Rule.
- 6 Q. So it's your understanding that CAMR has
- 7 been vacated but not necessarily CAIR.
- 8 A. I just don't know the status of CAIR.
- 9 Q. Now, on page 8 of your testimony you
- 10 speak of a three-step process to identify the FAC
- 11 component of your most recent SSO. Do you see that
- 12 testimony?
- 13 A. Yes.
- Q. And on lines 19 through 21, I'm going to
- 15 focus on the third step, and that's where you make
- 16 "an adjustment for subsequent rate changes" -- and
- 17 I'm going to focus on that word, "subsequent" rate
- 18 changes -- "to arrive at a base FAC component that is
- 19 equal to the fuel cost presently in the most recent

- 20 SSO." The subsequent rate changes that you are
- 21 referring to there are then described on page 9,
- 22 lines 22 through 23; is that correct?
- A. Yes, that's where I start the discussion.
- Q. And the first of those subsequent rate
- 25 changes are the 3 and 7 percent generation increase

- 1 granted in the RSP cases. Do you see that?
- 2 A. Yes.
- Q. And that is 04-169; is that correct?
- 4 A. That's correct.
- 5 Q. And those were yearly increases each year
- 6 from 2006 through 2008.
- 7 A. Yes, that's correct.
- 8 Q. And the company has done a calculation,
- 9 has it not, to identify how much revenue was produced
- 10 on an annual basis for 2008 with respect to the
- 11 increases produced under 04-169?
- 12 A. Yes.
- 13 Q. Has the company done a calculation
- 14 identifying how much revenue in total was produced
- 15 for the periods of 2006 and 2007 associated with
- 16 04-169?
- 17 A. No. It doesn't seem relevant. You want
- 18 to take -- identify what's in your current rates, the
- 19 last step, the highest step, so you'd want to have

- 20 escalating rates by the 22.5 percent and then
- 21 calculate the annual effect of -- the last year would
- 22 be the highest year.
- Q. Because of the compounding?
- 24 A. Yes.
- Q. Now, the 2008 annual revenue would be

- 1 shown on PJN-13?
- 2 A. Yes.
- Q. And that was supplied to you by
- 4 Mr. Roush?
- 5 A. Yes, it was.
- 6 Q. So that would show that there was
- 7 \$270 million associated with the 3 and 7 percent
- 8 increase for 2008; is that right?
- 9 A. Yes, on an annualized basis, though I'm
- 10 not sure if that -- yes, I think that's using 2008
- 11 kWh.
- 12 Q. Now, the RSP 3 and 7 generation case that
- 13 we've been discussing had more than a 3 and a
- 14 7 percent increase in it, didn't it?
- 15 A. The RSP I believe had other components.
- 16 I don't recall specifically, I don't remember what
- 17 they were.
- Q. For purposes of PJN-13 how did you
- 19 separate the 3 and 7 revenue from the RSP general

- 20 revenue in that case?
- A. The reason I used the 3 and 7 is that we
- 22 have a rate component that I've identified, I've
- 23 unbundled the fuel component at the start, and I know
- 24 that the total generation rate, say it was -- I'm
- 25 going to just use an example -- we started the period

- 1 at, say, \$40 per megawatt-hour. I know there was a
- 2 component of that \$40 that had already been
- 3 identified in the unbundling case for fuel.
- 4 So I know if you apply 7 or 3 percent to
- 5 that total, I'm making the assumption, though it
- 6 wasn't specific in the RSP case if 3 or 7 was for
- 7 fuel or anything else, but the SSO rate was increased
- 8 by 3 percent and 7 percent each year. So I now know
- 9 at the start, you know, what my SSO rate is total. I
- 10 know what the fuel component is of that SSO rate, so
- 11 I made the assumption that -- I think a fairly
- 12 logical assumption -- that the fuel component of that
- 13 rate also escalated by 3 and 7 percent.
- Now, other components of the RSP were
- 15 probably not relevant to the fuel component.
- 16 Q. That would be your determination,
- 17 correct?
- 18 A. Yes.
- Q. Does Mr. Roush, if you know, present

- 20 testimony on how he separated the 3 and 7 revenue
- 21 from the RSP general revenue in that case?
- A. In which case?
- Q. In the 04-169 for purposes of your
- 24 PJN-13.
- MR. CONWAY: Could I have that question

1	reread?
2	(Record read.)
3	MR. CONWAY: Could I have a
4	clarification? I'm not following personally the
5	difference between the 3 and 7 revenue and the
6	general revenue. Maybe you've explained what the
7	distinction is in your question, but
8	MS. GRADY: I think it goes back a couple
9	questions to the cross.
10	EXAMINER BOJKO: I think the witness has
11	been following this.
12	Can you answer her question?
13	A. I believe so. The way I interpret her
14	question is she's asking whether Mr. Roush did
15	anything in was it the 469 case? to identify
16	and separate fuel from total generation rates, and,
17	of course, in 469 we wouldn't have been doing that.
18	There was no need to. There was no fuel clause at
19	that time.

- However, since we had no changes from
- 21 2001 through 2005, what you could do is go back to
- 22 the unbundling case to determine the fuel component.
- 23 EXAMINER BOJKO: You mean no changes to
- 24 the fuel components?
- THE WITNESS: Or any generation.

- 1 Generation didn't change at all between that period.
- 2 The total rate didn't change. The fuel rate didn't
- 3 change.
- 4 EXAMINER BOJKO: From 2001 to 2005?
- 5 THE WITNESS: Yes.
- 6 So we didn't do anything specific in that
- 7 case. There wouldn't have been any purpose. But now
- 8 you can look back at those cases and carve out the
- 9 appropriate FAC in our current SSO rate.
- Q. (By Ms. Grady) And I guess that was my
- 11 question, is if Mr. Roush presents testimony on how
- 12 he did it, because I think your testimony today was
- 13 that you got the information from Mr. Roush. He
- 14 separated that out.
- 15 A. Well, I don't think that was my
- 16 testimony. You asked about one item that was on
- 17 PJN-13.
- 18 Q. Okay.
- 19 A. And who supplied me the annual revenue

- 20 associated with the 3 and 7 for 2008.
- 21 Q. Yes.
- A. And Mr. Roush did do that calculation for
- 23 me, but I don't think that relates at all to the
- 24 discussion we've just had.
- Q. I'm sorry, I didn't mean to

- 1 mischaracterize your testimony, Mr. Nelson.
- 2 A. No problem. Just trying to clarify.
- 3 EXAMINER BOJKO: Mr. Conway.
- 4 MR. CONWAY: Excuse me, counsel, for
- 5 interrupting you. I think there was a reference to
- 6 469 in the testimony, and I think it was --
- 7 EXAMINER BOJKO: 04-169.
- 8 MR. CONWAY: -- 04-169 to clear it up and
- 9 not have to do it later.
- 10 EXAMINER BOJKO: The RSP proceeding is
- 11 what you were referencing, 04-169, Mr. Nelson?
- 12 THE WITNESS: Yes.
- MS. GRADY: Thank you for that
- 14 clarification.
- 15 Q. (By Ms. Grady) Now, on PJN-13 under the
- 16 2008 revenue increase for 3 and 7 in the RSP
- 17 4 percent case, you reflect the revenue associated
- 18 with the compounded rate increase; is that correct?
- 19 A. Yes, because in 2008 you have had the

- 20 full compounding at that point.
- Q. But it is an annual revenue increase and
- 22 not -- a revenue increase that goes back to 2006 and
- 23 2007, correct?
- A. Yes. Every number on this schedule is on
- 25 an annual basis, so it's consistent. That's usually

- 1 the way we present numbers in rate proceedings is on
- 2 an annualized -- annual basis.
- Q. And that annual revenue produced by the 3
- 4 and 7 in the 4 percent case is then used to offset
- 5 the fuel and environmental costs requested be
- 6 increased under the ESP; is that correct?
- A. No. This schedule is just informational.
- 8 What I've done, and I describe this schedule towards
- 9 the end of my testimony, I think we want to go to the
- 10 text to put this in the proper context.
- 11 And the question and answer begins on
- 12 page 20 of my testimony. So after I've done what I
- 13 think is the appropriate method to identify what the
- 14 FAC is in the 2008 standard service offer --
- 15 Q. Yes.
- 16 A. -- and I've also provided, we haven't
- 17 talked about it yet, but an offset for my
- 18 environmental capital carrying costs. I then just
- 19 thought it would be useful to this Commission to see

- 20 how that compared to the revenues received under the
- 21 3 and 7 case and the various other proceedings that
- 22 we have been before the Commission for.
- But you'll recall that the 3 and 7 wasn't
- 24 specifically for environmental or fuel; it was meant
- 25 to -- it was a general increase to our total

- 1 generation rate. And I just wanted to show that just
- 2 in my case where I'm dealing with just two components
- 3 of the companies' cost. I provided credits in a
- 4 sense to the customer accounting for all that revenue
- 5 received under those proceedings.
- 6 So it's just a, more of an informational
- 7 text to show that my, you know, I've accounted for
- 8 the revenue provided, but the actual methodology to
- 9 calculate each component would stand on its own, that
- 10 is, I've done a methodology to identify the FAC in
- 11 the current SSO. I've done a calculation to request
- 12 environmental carrying costs, and I've provided, you
- 13 know -- and I've increased the fuel rate in the
- 14 current SSO by the 3 and 7, and on the side of the
- 15 environmental calculation I've offset it with capital
- 16 identified in the RSP 04-169 case as well as
- 17 subsequent cases.
- 18 Q. So if I asked you that -- if we go back
- 19 to PJN-13, is that the offset just to show a

- 20 reduction in environmental costs? Would that be a
- 21 way to characterize it? As opposed to an offset for
- 22 FAC?
- A. No, I don't think that's the right
- 24 characterization of the schedule. We jumped into one
- 25 line on the schedule towards the bottom --

- 1 Q. Yes.
- A. -- and if it would be helpful I'd walk
- 3 you through the rest of the lines to show --
- 4 Q. Could you?
- 5 A. Yeah.
- 6 Q. Could you do that for me?
- A. Why don't we stick with just the first
- 8 column, just do one company and make it easiest.
- 9 Let's do Ohio Power Company.
- 10 Q. Okay.
- 11 A. I've taken the load of Ohio Power and
- 12 multiplied it by the fuel component of 3 and 7.
- 13 That's the 0.323.
- 14 Q. Yes.
- 15 A. Maybe it would be helpful just to flip
- 16 back and tie that to the schedule. It should be on
- 17 PJN-4, and you'd have to look at the original. I
- 18 didn't update for the minor changes that would have
- 19 flowed through from the corrected sheet since this

- 20 particular schedule is just informational, not that
- 21 important, and the number would be very similar.
- So you get 94 million associated with
- 23 fuel related to 3 and 7, okay? Then the next step is
- 24 I provided an offset to my environmental capital that
- 25 we're requesting because we only want the incremental

- 1 that we didn't recover in other proceedings before
- 2 the Commission, and if we turn to PJN-8, now look at
- 3 that and also PJN-13, on the environmental side
- 4 you'll see for Ohio Power 84 million as the carrying
- 5 cost.
- 6 Q. You're talking about PJN-8, the line
- 7 entitled Jurisdictional Revenue Requirement?
- 8 A. That's correct. And you'll also see that
- 9 on PJN-13.
- 10 O. Yes.
- 11 A. And it says "Environmental Carrying Cost
- 12 would offset for RSP Estimates and 4 percent Case."
- Okay. Now, up above that line is -- or,
- 14 up above that item we just talked about on PJN-13 is
- 15 another number, and that's 224 million. How did I
- 16 get that? Well, that would have been the
- 17 jurisdictional revenue requirement if I hadn't
- 18 provided any offset on the environmental, that is,
- 19 going back to PJN-8 -- I'll let people catch up.

- I start with total environmental
- 21 investment of about \$2.4 billion for Ohio Power
- 22 Company. You can see that I've offset about
- 23 \$1.5 billion of that saying that was in some manner a
- 24 subject of prior cases.
- 25 Q. Yes.

- 1 A. So I come up with a net incremental of
- 2 900 million. So where does the 224 come from on
- 3 schedule 13? That is if I didn't provide that credit
- 4 of 1.5 billion, the carrying costs would have been
- 5 \$224 million, so the quantification of that credit is
- 6 140 million, okay?
- 7 The next step is to add the two pieces.
- 8 We've said that the value of the 3 and 7 on the fuel
- 9 side was 94 million for Ohio Power Company. The
- 10 value of the credit or offset on the environmental
- 11 side is 140 million, so I've provided value just in
- 12 my two components of \$234 million.
- Then what I do next is just say, well,
- 14 how did that compare -- and this is just as I said,
- 15 more for informational -- to the total revenue
- 16 received in -- from the 3 percent component of the
- 17 RSP and the --
- MR. CONWAY: Excuse me, Mr. Nelson. I'm
- 19 sorry to interrupt again, but just to make sure it's

- 20 clear, you said the 3 percent. Did you mean the
- 21 7 percent?
- THE WITNESS: Yes.
- MR. CONWAY: Okay.
- 24 THE WITNESS: Yes. In Ohio Power's case
- 25 it would be 7 percent and 3 percent for CSP.

1	So what I've identified next is, and as I
2	said, Mr. Roush provided me the value of the
3	7 percent as \$190 million, that's what the value is
4	in 2008 because it's been compounded. It's up to
5	22-1/2 percent at that point.
6	Now, the environmental cases that we had
7	since that time resulted in very little incremental
8	revenue for Ohio Power Company because of the method
9	we used when we made those filings. We were only
10	asking for incremental CAIR and CAMR that we hadn't
11	previously anticipated.
12	Q. Okay.
13	A. And we had anticipated most of the CAIR
14	and CAMR expenses for Ohio Power Company in our
15	original estimate so it results in very little
16	revenue requirement, and if you review the case file,
17	I think we ended up with a 5 million annual increase
18	there.

So the sum of those two components is

19

- 20 195 million related to the 7 percent piece, the RSP,
- 21 and subsequent 4 percent cases which recovered
- 22 environmental, incremental environmental carrying
- 23 costs.
- So then I just compare the two. I
- 25 provide credit of 234 million, and from these cases

- 1 for these components I've only actually received
- 2 195 million.
- Now, what I could have done is maybe
- 4 limited my credits to provide no more than these, but
- 5 I didn't do that. I just said that we're comfortable
- 6 with the numbers. What I'm getting at is we were a
- 7 little conservative perhaps on Ohio Power.
- 8 And again, remember that the 3 and
- 9 7 percent increases granted were not to recover just
- 10 fuel, there were other things. They were not
- 11 designed to recover just environmental, there would
- 12 have been other things. So that's really the purpose
- 13 of this exhibit, is just to put it in perspective.
- Q. So are you saying, and I'm trying to
- 15 follow you, Mr. Nelson, I really am, that the total
- 16 value of the RSP in the RSP 4 percent case
- 17 adjustment, that line that shows 234 for OPCO and 104
- 18 for CSP, that adjustment has been made as opposed to
- 19 the adjust -- or, as opposed to anything else on this

- 20 schedule?
- A. Yes, those adjustments have been made.
- Q. And that where you show below the 2008
- 23 revenue increase for 3 and 7 in the 4 percent case,
- 24 that's just informational in a sense.
- A. Well, it's informational. It provides a

- 1 comparison basis.
- Q. But it's not reflected in the FAC or the
- 3 environmental piece of your case.
- 4 A. No; that's correct. The 234 million is
- 5 the value for environmental and FAC.
- 6 Q. I think I understand.
- 7 A. Okay.
- 8 Q. Under your methodology, Mr. Nelson, would
- 9 you agree with me that the larger the annual revenue
- 10 that you calculate is produced for 2008 by the 3 and
- 11 7 and in the 4 percent cases, the greater the offset
- 12 to fuel and environmental costs under the ESP filed
- 13 by the company?
- 14 THE WITNESS: Could I have that question
- 15 read back?
- 16 (Record read.)
- 17 A. No, I don't think I can agree with that
- 18 statement. Recall that the -- again, we're going to
- 19 take you back to the total G rate, we'll just use an

- 20 example, and the FAC component of that rate. I'll
- 21 use simplifying examples just to throw out your
- 22 numbers, which are ballpark, but don't hold me to
- 23 them.
- Q. Okay.
- A. Let's use the assumption that the total G

- 1 rate was 40 mils. We would have applied this 3 and
- 2 7 percent, let's say it's Ohio Power, 40 mils. We
- 3 would apply 7 percent to that 40 mils. That was our
- 4 request in the RSP case, so that would have generated
- 5 a revenue and we think, based on what Mr. Roush has
- 6 provided, that would provide about \$190 million by
- 7 the final year annually.
- 8 What I'm doing in the fuel is you would
- 9 apply the 7 percent not to the total 40 mils, but by
- 10 the fuel components of that, it's 20 mils. And
- 11 that's the methodology I've used. So it would be the
- 12 22.5 percent times the 20 mils. That would give you
- 13 how much fuel revenue has grown and that's the
- 14 relevant number.
- 15 Again, the 190 is just informational that
- 16 I've got it accounted for everything, including fuel
- 17 and environmental plus other stuff, and I'm just
- 18 comparing the two, but it doesn't drive how I've
- 19 arrived at my --

- Q. I understand. Maybe I misspoke or maybe
- 21 you misunderstood. We were speaking of the total
- 22 value of the RSP in the RSP 4 percent case
- 23 adjustment. I was looking at the line on PJN-13 with
- 24 the 234 and the 104 for CSP, and I guess my question
- 25 is, is if we concluded that the annual revenue

- 1 produced by the RSP in the RSP 4 percent case should
- 2 be increased, wouldn't that mean that we would have a
- 3 greater offset to the fuel and environmental costs
- 4 that are requested to be recovered by the company?
- 5 A. Well, I'm hesitating. I wouldn't want to
- 6 apply that logic necessarily to schedule 13. I think
- 7 what you'd need to do is apply it to the individual
- 8 calculations that --
- 9 O. Yes.
- 10 A. -- is the FAC and the environmental, and
- 11 I have some sound logic for varying what I did on my
- 12 individual schedules. I don't want to lump it all
- 13 into one general statement.
- 14 Q. I understand.
- 15 A. But if you determine that the fuel
- 16 component of the current SSO is higher, I think, you
- 17 know, that would have an impact. If you determined
- 18 it was lower, that would have an impact, vice versa,
- 19 or, the same thing with environmental.

- Q. Mr. Nelson, I'm going to move now to
- 21 another area. I'm going to go to page 12 of your
- 22 testimony where you begin talking about allocation
- 23 factors developed to assign costs to internal load.
- 24 And there specifically on lines 13 through 14 -- let
- 25 me strike that.

1	Yesterday you spoke briefly with
2	Mr. Yurick about your testimony here about the
3	stacking of the companies' generation resources and
4	an assignment of the highest cost resources to
5	off-system sales. Do you recall those questions?
6	A. Yes.
7	Q. Can you explain to me, Mr. Nelson, how
8	purchased power fits into the stacking of generation
9	resources and assignment of highest cost resources to
10	off-system sales?
11	A. Yes. That would be part of the
12	considered part of the resources and would be lined
13	up with our own generation in determining which is
14	assigned to off-system sales, unless a purchase is
15	made for a specific jurisdiction. For example, wind
16	in some areas would be assigned to internal
17	customers.
18	Q. So are you saying that purchased power

19 then is added to your generation resources stack, and

- 20 then it goes -- it is -- it along with all the other
- 21 generation resources are assigned on the basis of
- 22 highest cost resources going to off-system sales?
- A. Yes. That's a general statement.
- Q. So under the approach that the company
- 25 takes in the stacking of generation resources, if you

- 1 go out and purchase, and it's an expensive purchase,
- 2 that purchase would then, generally speaking, go to
- 3 off-system sales if off-system sales are made?
- 4 A. Yes. If that purchase isn't dedicated to
- 5 internal load, it would go -- be assigned -- if it's
- 6 very high cost, most likely it's going to get
- 7 assigned to off-system sales.
- 8 Q. And in turn if the purchase is a normal
- 9 purchase and it is a real cheap purchase, under the
- 10 way your generation resources are stacked that would
- 11 go to internal load if it was not dedicated.
- 12 A. Yes. If it was such that it fit in the
- 13 stack and was less expensive than our own resource,
- 14 an economic purchase, then it would be assigned to
- 15 internal load.
- Q. Now, for 2009 if we look at PJN-3, line
- 17 67, it would show that 5,698,470 megawatt-hours are
- 18 going to off-system sales as compared to a total of
- 19 approximately 29 million 530 on line 71.

- THE WITNESS: I'm sorry, could you repeat
- 21 those figures? I might have been this the wrong
- 22 column.
- Q. And it could be possible that I'm in the
- 24 wrong column, which is probably more likely than you
- 25 being in the wrong column.

- 1 A. Well, you can be in any column you want.
- 2 I just want to make sure I'm in the same column.
- Q. And you're not going to tell me if I'm
- 4 wrong when I'm in the column. I was looking at
- 5 the -- I was looking at the Column B I believe where
- 6 you show that under the total off-system allocation
- 7 of sources you show 5,698,470, I assume that's
- 8 megawatt-hours as going to off-system sales, and then
- 9 I compare that to the total sales I believe shown on
- 10 line 71 of 29 million 530.
- 11 MR. CONWAY: You're asking him to compare
- 12 line 67 to line 71?
- MS. GRADY: Yes.
- Q. And is that a comparison, if I look at
- 15 those two lines, the 69 and 71, am I comparing how
- 16 much off-system sales were made compared to total
- 17 sales?
- MR. CONWAY: Now I'm going to ask again
- 19 for another clarification. You said line 69. Then

- 20 is it line 67?
- MS. GRADY: I'm sorry, it is 67. Thank
- 22 you, Mr. Conway. You're the record-keeper. I like
- 23 it.
- A. He keeps me straight as well sometimes.
- Yes, I think that's a valid comparison,

- 1 that if you -- you start with total sources. That's
- 2 identified on line 59, and then the number you cite
- 3 for off-system sales which appears on line 67, that's
- 4 the number that's been assigned to off-system sales
- 5 in this instance.
- 6 EXAMINER BOJKO: What's NER?
- 7 THE WITNESS: Net energy requirement.
- 8 EXAMINER BOJKO: Oh, requirement, okay.
- 9 Thank you.
- THE WITNESS: And there's also a term net
- 11 energy cost.
- 12 EXAMINER BOJKO: Right, that's why I
- 13 didn't know.
- 14 THE WITNESS: Net energy requirement is
- 15 the megawatt side, and then NEC is net energy cost
- 16 which is the dollar side.
- Q. So given that the analysis we just went
- 18 through, the data would show that, at least for the
- 19 period reflected here -- and I assume this is your

- 20 forecasted 2009 period; is that right?
- A. That's correct.
- Q. -- that 1/5 or about 20 percent of the
- 23 sales went to off-system sales.
- A. In the forecast. You said "went to."
- 25 We're anticipating will go to.

1 Q. Would go to, thank you	1	Q.	Would	go to,	thank	you.
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- 2 And who are your off-system sales made
- 3 to, Mr. Nelson?
- 4 A. The primary market is the PJM market.
- 5 Q. Do you make off-system sales pursuant to
- 6 contracts with third parties?
- A. Well, off-system sales are generally
- 8 defined as opportunity sales. If you have a contract
- 9 and it's a longer term contract, it may be treated as
- 10 a firm load requirement.
- 11 Q. And when you mean opportunity, are you
- 12 talking about economic sales? Is that synonymous
- 13 with opportunity sales?
- 14 A. You're getting a bit beyond my expertise,
- 15 but I think that's probably a fair characterization.
- 16 If we bid our generation into PJM at a certain price
- 17 and then if it is accepted, then we make that sale.
- 18 That's for the excess generation.
- 19 Q. And off-system sales could be made on

- 20 peak time or off-peak time as well?
- 21 A. Sure.
- Q. Do you know, Mr. Nelson, in round numbers
- 23 what AEP's total annual system peak is for the
- 24 internal or retail customers?
- A. AEP's total peak?

- 1 Q. Yes.
- A. In round numbers, it used to run about --
- 3 I have to think whether I'm dealing with east or west
- 4 or both, but I would say it was in the 20,000 range.
- 5 Q. And that's MWh?
- 6 A. We're talking peak?
- 7 Q. Yes.
- 8 A. MW.
- 9 Q. MW, I'm sorry.
- And what months are considered peak for
- 11 AEP?
- 12 A. If you're considering all AEP --
- 13 Q. Yes.
- 14 A. -- then we would be a summer peaking
- 15 utility in total.
- MR. CONWAY: Could I have that answer
- 17 reread, please?
- 18 (Record read.)
- MR. CONWAY: Thank you.

- Q. And by summer would you mean -- what
- 21 months would you mean?
- A. Most likely it's going to be June to
- 23 August, but the definition I think might be made
- 24 through September. I'm not positive. But generally
- 25 we would peak in the period I described, the shorter

- 1 period.
- Q. Do you know, Mr. Nelson -- and certainly
- 3 if you don't and if this is getting too far afield of
- 4 your expertise, you can certainly so indicate. Do
- 5 you know during peak or near peak times what the
- 6 level of off-system sales is projected for 2009?
- A. Well, I think you have a flaw in your
- 8 logic. Peak is a point in time, so you'd have -- you
- 9 know, a peak would occur at a certain hour --
- 10 Q. Yes.
- 11 A. -- of a month, and I don't know what you
- 12 mean by, why would -- I'm not sure what you mean by
- 13 or want that information for, and we wouldn't -- it
- 14 wouldn't be useable information for me. That's why I
- 15 made that comment.
- Q. I think that perhaps one of my questions
- 17 there could go to Mr. Roush. Would he be more
- 18 appropriate to answer questions with respect to
- 19 off-system sales and the demand being supplied to

- 20 off-system sales during peak time?
- A. I would doubt it. The first thing that I
- 22 -- I don't understand your interest in AEP in total,
- 23 I'm not sure he would have that sort of information.
- 24 That's not information that's typically available.
- But it seems to me that, you know, it

- 1 depends on your peak at the time. If it's a
- 2 coincident peak, you may have a lot devoted to
- 3 internal load at that point because that means that
- 4 everybody's using power. We'd generally have less to
- 5 sell at that peak period. I don't think anyone would
- 6 readily have that type of information available.
- Q. You're not willing to give anybody up; is
- 8 that right?
- 9 A. No. But feel free to ask Mr. Roush. He
- 10 may be able to answer it. I just have my doubts.
- 11 Q. Mr. Roush would be familiar with the
- 12 schedule IRPD for interruptible service; is that
- 13 correct?
- 14 A. Yes. I wouldn't be the one to ask on
- 15 interruptible.
- Q. Let's go to page 15 of your testimony,
- 17 Mr. Nelson. You indicate there -- and I'm looking at
- 18 lines 21 through 23. You indicate there that: "The
- 19 Companies has made significant capital investment in

- 20 environmental facilities and are requesting capital
- 21 carrying costs on those facilities that are not
- 22 currently reflected in rates." Do you see that
- 23 statement?
- 24 A. Yes.
- Q. When you say that the capital investment

- 1 is not currently reflected in rates, are you saying
- 2 there that you haven't had a general rate case that
- 3 would affect generation rates?
- 4 A. I believe I'd be speaking more to the
- 5 proceedings we've had during the RSP period, and that
- 6 in this instance we're only asking for incremental
- 7 capital spend above what one might consider to have
- 8 been included in those cases.
- 9 Q. Is it your understanding that the
- 10 environmental -- or, that the capital investment that
- 11 you're testifying to for the environmental facilities
- 12 has not been included in the company's rate base in
- 13 any particular case?
- 14 A. Yes, that's a fact. If you've defined
- 15 rate base as a cost of service, that additional rate
- 16 case, these investments are all capital spending
- 17 since 2001 so we wouldn't have had a general rate
- 18 case.
- Q. But you've had a number of cases since

- 20 2001; is that correct?
- A. We've had the RSP cases and --
- 22 Q. Yes.
- A. -- that's why I say -- that's what I'm
- 24 referring to, is that we did -- 4 percent is obvious
- 25 we had an environmental component included in those

- 1 cases. I'm going beyond that and saying, well, let's
- 2 assume that the 3 and 7 escalators also were relief
- 3 from the environmental burden, so I've also given
- 4 credit to that.
- 5 So that's why I come up with \$1.5 billion
- 6 offset to the actual spend during this period and
- 7 only are asking for a \$900 million incremental
- 8 capital that you apply a return to.
- 9 Q. I appreciate your need to put that in the
- 10 record.
- 11 Are the carrying costs on the facilities
- 12 that you are requesting, are they already reflected
- 13 in rates currently?
- 14 THE WITNESS: Could you reread that?
- 15 (Record read.)
- 16 A. No. I believe the previous answer would
- 17 have responded to that, and my interpretation is
- 18 that, you know, by offsetting the total spend with
- 19 the 1.5 billion that I've identified from cases

- 20 during the RSP period means -- and subtracting that
- 21 out, I believe the 900 million -- and I'm talking
- 22 about Ohio Power Company at this point because we've
- 23 been going through Ohio Power Company and I sometimes
- 24 forget I'm only talking about one company -- but we
- 25 start --

1	Let's turn to, so I won't make those
2	mistakes, PJN-8. I tend to dwell on Ohio Power
3	Company because it is the bigger company and, of
4	course, has made more of an environmental spend, but
5	there is also 563 million spent during this period by
6	CSP for environmental. And, of course, I've provided
7	a credit for CSP at 387 as an offset. For Ohio Power
8	I mention it's about 1.5 billion offset.
9	Q. Now, for determining the base on which
10	the carrying charges are applied, how did the company
11	value the environmental investment?
12	A. It's what's on the books of the company.
13	Q. And what's on the books of the company
14	since those let me ask you this. What's on the
15	books of the company related to that investment,
16	especially given the fact that it's never been in
17	rate base under a traditional sense?

A. What's in or out of rate base doesn't

19 affect the books of the company.

18

- Q. Well, what is on the books of the
- 21 company? Would that be the original cost of the
- 22 investment, or would the investment be reduced by
- 23 depreciation and other things that we normally see
- 24 when an investment is rate based?
- A. Well, it would be accounted for in

- 1 separate accounts. You'd have the original
- 2 investment in some accounts, and then, of course, if
- 3 it's in service and you've depreciated it, you'd have
- 4 an accumulated depreciation reserve.
- 5 Q. So the base on which you calculate the
- 6 carrying charges, would that reflect just the
- 7 original cost, or would it reflect the accumulated
- 8 depreciation reserve offset?
- 9 A. It would reflect the original cost. The
- 10 reason I explain in my testimony is I've used a
- 11 levelized carrying cost. We haven't specific -- if
- 12 you did a rate-base type calculation, you would have
- 13 different components. You would have depreciation
- 14 expense. You'd have your other expenses associated
- 15 with that investment plus the return component.
- 16 Generally what would happen is you'd
- 17 have -- you'd start pretty high when the plant
- 18 initially went in, and then over time that would be
- 19 fully depreciated over its life. So what I've done

- 20 is used a levelized carrying cost that accounts for
- 21 that, and in a sense it's a conservative approach
- 22 because this equipment is relatively new so it
- 23 wouldn't have been depreciated very much. We're only
- 24 dealing with this short period. Some of it just went
- 25 in service. Some of it is yet to go in service.

1	If you did a traditional rate base
2	calculation which I didn't want to get into
3	because we're not in cost-of-service rate-making here
4	and didn't want to file, you know, a cost-of-service
5	type calculation you'd probably end up with a
6	somewhat higher cost than the 84 million I've
7	calculated, for example, for Ohio Power Company.
8	Q. But some of this investment has gone back
9	to 2001; isn't that correct? Isn't the period of
10	time that you're looking at investment from 2001
11	through 2008?
12	A. Yes. This is the capital spend from 2001
13	through 2008, and I don't mean to imply that what was
14	spent in 2001 is necessarily didn't necessarily go
15	in service in 2001. It can be CWIP or it could be in
16	plant in service. The longer projects, like an FGD,
17	would take several years to complete.

Q. But for purposes of your calculation it

19 didn't matter to you whether it was plant in service

18

- 20 or CWIP.
- A. No, it didn't, because I've left a
- 22 simplifying assumption by applying a levelized
- 23 carrying cost methodology. It can be CWIP or it
- 24 could be in plant in service.
- Q. And the investments we've been talking

- 1 about, those would be shown on PJN-9; is that
- 2 correct?
- 3 A. That's correct.
- 4 Q. And we would look at the column
- 5 Cumulative for 2008, that would be the 2001 through
- 6 2008 environmental expenditures?
- 7 A. Yes.
- 8 Q. And the cumulative for 2008 would include
- 9 projected expenditures for 2008; is that correct?
- 10 A. Yes. At the time I prepared this exhibit
- 11 there would have been a piece of it forecasted, yes.
- Q. Would that be about six or seven months
- 13 of projections for that cumulative for 2008?
- 14 A. I think that's probably a good estimate.
- Q. Does the company have the actual
- 16 environmental expenditures for the projected months
- 17 that are contained in the cumulative for 2008 column
- 18 in PJN-9?
- 19 A. We would have them. I don't have them

- 20 with me.
- Q. Are those presented anywhere in the
- 22 company's filing?
- A. No, they're not. I wouldn't expect a big
- 24 change in these numbers one way or the other. At one
- 25 point we might have had a data request around that,

- 1 as I recall. I think they were perhaps a little
- 2 higher than my estimates, but I . . .
- Q. Mr. Nelson, are there any changes in the
- 4 cost listed for the cumulative column for 2008
- 5 resulting in the company reacting to court actions on
- 6 CAIR or CAMR?
- A. I don't believe there would be any
- 8 significant change in the numbers related to care or
- 9 CAMR for 2008, no.
- 10 Q. To your knowledge, when you look beyond
- 11 the 2000 cumulative for 2009 through 2011, would you
- 12 expect any changes in the costs listed for those
- 13 periods of time resulting from the company reacting
- 14 to the court actions on CAIR and CAMR?
- 15 A. I believe there could be some change in
- 16 that period, though I think it would tend to be
- 17 rather minimal. We're going to proceed with FGDs and
- 18 so forth because we think other environmental
- 19 regulations are coming down, but the fact is we also

- 20 might have some changes, you know, because of capital
- 21 markets for the forecast numbers.
- Q. And, in fact, you are aware, are you not,
- 23 of -- let me strike that.
- Mr. Nelson, are you aware of statements
- 25 made by -- let me strike that.

1	You are certainly familiar with CEO
2	Michael Morris; is that correct?
3	A. Yes.
4	Q. And are you aware of statements that he
5	recently made as recent as October 14th, 2008, with
6	respect to environmental spending in '09 and '10
7	being adjusted pursuant to the financial situation?
8	A. I don't recall anything specific hearing
9	that statement, but it seems logical.
10	MS. GRADY: May I approach the witness,
11	your Honor?
12	EXAMINER BOJKO: You may.
13	Q. Mr. Nelson, I'm going to hand you a
14	document, and it has a website and it comes from SNI
15	Extra, and I guess I am assuming that is not Saturday
16	Night Live extra, but the title of that document is
17	"AEP Morris warns continuing credit problems could
18	put projects beyond 2009 at risk." And I ask you if

19 you've seen that article and the statements made by

- 20 Mr. Morris contained therein.
- A. I haven't seen this before you handed it
- 22 to me.
- Q. If you could take a moment to review
- 24 that, I would appreciate it.
- MR. CONWAY: Could I have the answer

- 1 reread to the question? I think it was a question,
- 2 the last question.
- 3 (Record read.)
- 4 MR. CONWAY: Your Honors, I would make an
- 5 objection to using the witness as a conduit to read
- 6 into the record statements that some reporter has
- 7 come up with that purport to be Mike Morris's
- 8 comments.
- 9 EXAMINER BOJKO: Ms. Grady.
- 10 MS. GRADY: Well, your Honor, Mr. Nelson
- 11 testifies in this case to the environmental --
- 12 capital carrying costs on environmental costs, and
- 13 that's included in the request before the Commission.
- 14 I'm just exploring to what extent those
- 15 costs are going to change in the 2009 through 2010
- 16 period. Mr. Nelson indicates he doesn't believe they
- 17 will, and now we have information or a statement at
- 18 least being made by the CEO of the company that they
- 19 may be pulling back on the 2010 and 2011

- 20 expenditures. I believe it's relevant.
- 21 EXAMINER BOJKO: The objection is
- 22 sustained. The witness said he isn't familiar with
- 23 the document you're looking at, nor with Mr. Morris's
- 24 statement, so you can ask him if he knows, which I
- 25 think you just stated you did, and he gave his

- 1 opinion and we'll leave it at that.
- Q. Mr. Nelson, would it surprise you if the
- 3 CEO of the company was making statements that the --
- 4 for 2010 and 2011 the company may need to put back on
- 5 environmental expenditures because of the credit
- 6 situation?
- A. No, it wouldn't surprise me. In fact, I
- 8 think I mentioned that in one of my previous answers,
- 9 and I think I was a little mischaracterized in my
- 10 testimony. You had asked me about 2008, whether that
- 11 was going to change, and I said no. And then -- I
- 12 don't think I -- I didn't mean to imply that we might
- 13 not see changes in '9 and '10 and '11.
- Q. And would you expect, in fact, changes in
- 15 the 2009 through the 2011 period related to your
- 16 environmental expenditures?
- 17 A. Well, since this is a forecast, first of
- 18 all --
- 19 Q. Understood.

- A. -- I always expect some changes from a
- 21 forecast, and I will -- I do think, you know, the
- 22 credit markets are going to have some impact on this.
- Q. And if the credit markets continue at
- 24 that present stage -- at the present state, would you
- 25 expect that the environmental spending in the 2009

- 1 through 2011 period may be affected?
- 2 A. Yeah, I would expect that it might be
- 3 impacted.
- 4 Q. And by "impacted" would you mean that it
- 5 would be your expectation that the expenditures shown
- 6 for 2009 through 2011 may be decreased from the
- 7 forecasted amount shown on PJN-9?
- 8 A. That would probably -- that would be my
- 9 expectation, but I can't guarantee that they'd be
- 10 decreased.
- 11 Q. Certainly. It is a forecast.
- 12 A. Yes.
- 13 Q. Now, for purposes of calculating the
- 14 carrying cost, you are requesting to use the
- 15 forecasted figures shown on PJN-9; is that correct?
- 16 A. Well, we better get a little more
- 17 specific. The first column, the Cumulative for 2008,
- 18 that we are requesting carrying costs specifically on
- 19 that period, and Mr. Roush rolls those numbers into

- 20 his rates for 2009.
- The expenditures 2009 through 2011 are
- 22 provided more for informational purposes. We do not
- 23 have a specific charge in the case for those
- 24 expenditures.
- Q. Now, just so I understand, Mr. Nelson,

- 1 you're saying that the cumulative for 2008, the
- 2 expenditures shown there become the basis for the
- 3 environmental carrying charges requested by
- 4 Mr. Roush; is that right?
- 5 A. Yes. Mr. Roush has used -- let's go back
- 6 to I think you were on PJN-8.
- 7 Q. Or PJN-9.
- 8 A. Well, the carrying charges are calculated
- 9 on PJN-8.
- 10 Q. But let's go back to the investment.
- 11 A. Okay.
- 12 Q. The investment's shown on PJN-9.
- 13 A. The specific component for environmental
- 14 recovery in our ESP uses the first column, the 2008
- 15 column.
- Q. So is it your understanding, Mr. Nelson,
- 17 that environmental expenditures for 2009 through 2011
- 18 with respect to those forecasted costs, that the
- 19 company is not requesting environmental -- or,

- 20 carrying charges on those?
- A. That's correct. But I don't want to be
- 22 misleading. We do have a 3 and 7 percent increase
- 23 requested in the ESP. It's designed to recover other
- 24 costs, environmental might have been one of those
- 25 other costs.

- 1 Q. Would the carrying costs have been within
- 2 that 3 and 7?
- 3 A. Yes. We didn't ask for any specific
- 4 recovery on these numbers, so you can interpret it as
- 5 there is no specific, you know, carrying cost beyond
- 6 the 2008 numbers we cited. As I said, these out
- 7 years are for more for informational purposes than
- 8 anything.
- 9 Q. And the carrying cost that is calculated
- 10 on the column Cumulative for 2008, again, that is not
- 11 a carrying cost that will be trued up under the
- 12 company's application.
- 13 A. No, not under the company's application.
- Q. So to the extent that the company's
- 15 expenditures differ from the forecasted amount shown
- on PJN-9, it's insignificant to the company, doesn't
- 17 matter?
- 18 MR. CONWAY: Your Honor, may I have a
- 19 clarification? Are we still talking about the

- 20 cumulative for 2008 figure?
- MS. GRADY: Yes.
- 22 EXAMINER BOJKO: The six to eight months
- 23 projected within that figure?
- MS. GRADY: Yes.
- A. Yes. If you look at PJN-9 we've got

- 1 about \$3 billion of spend through that period. Most
- 2 of that has already occurred and is actual. A small
- 3 part would be forecast, and I think the forecast for
- 4 this point in time would be pretty accurate because
- 5 we're not forecasting way out; we're only looking at
- 6 the next six months. These are ongoing projects.
- 7 So I think I would see no significant --
- 8 I wouldn't see a reason to update the 2008 column
- 9 because I don't think there's a significant change.
- 10 Q. Have you looked at the actual
- 11 expenditures, environmental expenditures, for the
- 12 forecasted months that are contained within the
- 13 schedule and made that comparison?
- MR. CONWAY: Your Honor, I think we
- 15 already -- objection. We already went through this,
- 16 and he already said that he -- my recollection is
- 17 that he said when asked this question a few series of
- 18 questions before is that the forecast could be higher
- 19 or lower, and I think he said he thought that, if

- 20 anything, it might be a little higher.
- 21 EXAMINER BOJKO: I guess I'm not sure
- 22 that's exactly what he said. Why don't we let the
- 23 witness tell us what he said. And I think
- 24 Ms. Grady's question was actually "did you do an
- 25 analysis," but now --

1	MS. GRADY: Have you done a comparison,
2	yeah.
3	EXAMINER BOJKO: Now that you've raised
4	this issue, I think I need to know the answer to
5	that.
6	Did you say that the I thought the
7	statement Mr. Conway made was more pertaining to 2009
8	to 2011 projected costs, but are you saying that the
9	2008 projected costs contained therein might be
10	higher? I just thought I heard you say they were
11	probably pretty close because you know what you're
12	going to do.
13	THE WITNESS: Yeah, for 2008. I thought
14	we were talking about 2008 numbers.
15	EXAMINER BOJKO: Okay. So for 2008
16	projections, do you see an increase, decrease, or
17	stay the same?

THE WITNESS: I'll answer that question.

19 I think she was asking me whether I've done a

18

- 20 comparison.
- 21 EXAMINER BOJKO: No; I know.
- THE WITNESS: Okay.
- 23 EXAMINER BOJKO: I want to clear up
- 24 Mr. Conway's statement because I'm not sure I
- 25 understood that's what you said.

1	THE WITNESS: I haven't looked at it
2	probably within the last month or so, but I did I
3	recall some discovery around could we update these
4	numbers, and at least I recall looking at the
5	updates, and I didn't see a significant difference in
6	what we have on my schedule PJN-9 versus the new
7	estimates.
8	EXAMINER BOJKO: Okay. Thank you, now
9	let's go back to Ms. Grady's question.
10	Can you reread the analysis question?
11	(Record read.)
12	A. I recall looking at some data, I don't
13	know at what point in time it would have been, that
14	is, you know, if I looked at it, say, in October, I
15	might have had actual data through September to
16	compare. But I obviously don't have any actual data
17	for all of 2008 yet.
18	Q. Do you have actual data for the projected
19	months that are contained within PJN-9?

- A. Only for those months that are in the
- 21 books, that is, we probably have something through
- 22 November -- or, I'm sorry, October at this point.
- MS. GRADY: Would this be an appropriate
- 24 time for a break?
- EXAMINER BOJKO: Sure, we can go off the

1	record.
2	(Recess taken.)
3	EXAMINER BOJKO: Let's go back on the
4	record.
5	Please finish, Ms. Grady.
6	Q. (By Ms. Grady) Mr. Nelson, let's go to
7	page 16 of your testimony, and I'm going to focus on
8	lines 2 through 3 where you indicate that:
9	"Investors require both a return on and of their
10	capital expenditures."
11	Now, when you're referring to carrying
12	charges and you're requesting carrying charges in
13	this case, you are referring to a return on and
14	return of investments, it is more than the cost of
15	money; is that correct?
16	A. That's correct.
17	Q. And the return piece comes in when you
18	include elements like depreciation, property expense

19 and administrative and general expenses?

- A. Yes. The depreciation is a good example
- 21 of return of.
- Q. And if we looked at PJN-10, we would see
- 23 that the annual carrying charges you calculate
- 24 include a return, depreciation, federal income taxes,
- 25 property taxes, and general and administrative

- 1 expenses.
- A. That's correct.
- Q. Would you agree with me, Mr. Nelson, that
- 4 the recovery of such expenses is essentially what
- 5 occurs when projects are rate based?
- 6 A. Yes.
- Q. And those are the kind of costs that then
- 8 would be recoverable under rate base methodology in a
- 9 general rate case?
- 10 A. Yes, that's correct. There would
- 11 probably be additional expenses, I'm sorry, like the
- 12 O&M to operate. If this was environmental equipment,
- 13 like the FGD, you'd have the O&M expenses associated
- 14 with the operation of that equipment as well, which
- 15 isn't included in this.
- Q. It isn't included in the carrying cost?
- 17 A. It is not included in the carrying cost.
- 18 Q. So the end result of your carrying charge
- 19 calculation is comparable to what would occur in a

- 20 traditional rate case if those investments were
- 21 included in rate base.
- A. I think it's comparable. Again, it's a
- 23 levelized approach so at any point in time it might
- 24 be a little different, but generally over the life of
- 25 the asset it would be comparable.

- 1 Q. Now, the cost of money, let's talk about
- 2 the cost of money for a moment. The 8.11 percent for
- 3 CSP and Ohio Power reflects the weighted average cost
- 4 of capital that's used by Mr. Nelson on PJN-11, and
- 5 that would include the cost of debt and equity?
- 6 A. That's correct.
- 7 Q. And you are seeking a carrying charge,
- 8 Mr. Nelson, that includes the cost of equity under
- 9 the principle that the company needs a full return on
- 10 its investment and not under any particular authority
- 11 other than that the company needs to recover its
- 12 costs; is that correct?
- 13 A. Yes, that's correct. I'd say the company
- 14 and the investor in the company needs that return.
- Q. And you are seeking to recover
- 16 depreciation, income tax expense, and the
- 17 administrative and general expenses shown on PJN-10
- 18 under the very same principle and not pursuant to any
- 19 particular authority other than the company needs to

- 20 recover its costs; is that correct?
- A. Well, particular authority? I would say
- 22 that we're recovering under Senate Bill 221.
- Q. And what provision of Senate Bill 221
- 24 addresses carrying charges and the inclusion of
- 25 elements within carrying charges?

- 1 A. I think there are several places that
- 2 carrying charge might be mentioned. One I
- 3 specifically remember is with the phase-in plan it
- 4 mentions carrying costs. There may be other sections
- 5 in the statute as well, but that's the one I recall.
- 6 Q. Now, in the sections that you are -- let
- 7 me strike that.
- 8 You mention, Mr. Nelson, that carrying
- 9 charges are mentioned in SB 221. Do you know if
- 10 there is any definition of what is an appropriate
- 11 carrying charge in Senate Bill 221?
- 12 A. I didn't see anything specific to an
- 13 appropriate carrying cost.
- Q. So there is nothing in 221 which would
- 15 state that depreciation, income tax expense,
- 16 administrative and general expenses, federal income
- 17 tax expenses should be recovered as carrying charges
- 18 on environmental investment?
- 19 A. No, nothing specific that I recall.

- Q. Now, in calculating the carrying charges,
- 21 Mr. Nelson, you assume a 25-year life on the
- 22 environmental investment; is that right?
- A. That's correct.
- Q. And that's shown in the shaded column on
- 25 PJN-10?

- 1 A. Yes.
- Q. And if we look at PJN-10, we would see
- 3 that the longer the investment life associated with
- 4 the property, the lower the carrying charge; is that
- 5 right?
- 6 A. That's correct.
- 7 Q. Now, on page 18 of your testimony, you
- 8 speak to Ohio Power Company's revenue requirement
- 9 being reduced to recognize that as the environmental
- 10 plant investment increases, it has an effect on the
- 11 AEP pool capacity charge. Do you see that reference?
- 12 A. Yes.
- Q. And I'm looking at --
- 14 A. Yes.
- Q. -- the question posed on line 11 through
- 16 13.
- Now, speaking for OPCO, rate for OPCO and
- 18 its ratepayers, the greater the environmental
- 19 investment, the lower the revenue requirement due to

- 20 OPCO benefiting from receiving a higher pool capacity
- 21 charge as a surplus member of the pool; is that
- 22 right?
- A. I don't think you can make that
- 24 conclusion.
- Q. And why can't you make that conclusion?

- 1 A. The revenue that's generated through the
- 2 pool capacity receipts is driven by the cost, so it's
- 3 a cost-based calculation, so one corresponds to the
- 4 other, that is, as cost increases, then the capacity
- 5 rate cost of Ohio Power goes up. As the surplus
- 6 company increases, the capacity rate would go up, but
- 7 you'd have both the cost and the revenue rising.
- 8 The reason I'm a little hesitant is
- 9 because I think you used the term "revenue
- 10 requirement," so I'm not sure the context.
- 11 Q. If I said instead that the greater the
- 12 environmental investment, the lower the revenue --
- 13 let me strike that.
- 14 If there's greater investment in
- 15 environmental plant under the pool, do the Ohio Power
- 16 companies benefit, greater investment being made by
- 17 Ohio Power Company?
- A. Yeah, there is a -- there is a return
- 19 component on plant investment under the pool.

- 20 There's a carrying cost applied to the original plant
- 21 investment. Environmental is a subset of the total
- 22 generation plant that that carrying cost would be
- 23 applied to. So in a sense if you're equating the
- 24 benefit with a return component included in the
- 25 carrying cost rate, that's a fair statement.

- 1 Now, there's the other side of it.
- 2 Environmental costs, some costs are also included in
- 3 the capacity segment under the fixed operating rate.
- 4 Obviously that's dollar-for-dollar recovery, that is,
- 5 if their consumable expense goes up, Ohio Power would
- 6 recover some of that through the pool. I think we
- 7 had some of this discussion yesterday.
- 8 Q. Yes. Now, under the company's proposal,
- 9 the revenue requirement for OPCO is reduced by the
- 10 carrying charges for the 2009 period only; is that
- 11 right?
- 12 A. I'll ask you to be a little more
- 13 specific. Are you looking at a particular schedule
- 14 or --
- 15 Q. Let me try -- I didn't have the schedule
- 16 written down, but let me look and see if I can figure
- 17 that one out.
- 18 A. Well, let me take you, I think it's
- 19 probably schedule 8 that's relevant.

- Q. Okay. The proposal PJN-8, and I hesitate
- 21 to get into this because I thought I understood it
- 22 earlier, the 84 -- 84 million jurisdictional revenue
- 23 requirement that we talked about earlier as a credit.
- A. Well, the 84 isn't the credit. The 84 is
- 25 the revenue requirement. Can I walk you through just

- 1 the top of this schedule?
- Q. Yes.
- 3 A. Okay. We'll stick with Ohio Power
- 4 Company, and we'll look at just the first column.
- 5 First item is 2 billion 294 million.
- 6 That's the total environmental spend period 2001
- 7 through 2008.
- Q. Yes.
- 9 A. The next line is what we kind of called
- 10 the capital included in the RSP cases.
- 11 Q. Yes.
- 12 A. I hesitate because it wasn't specific
- 13 recovery for all that but we've given credit for it.
- 14 Next you get to the incremental, and this is what
- 15 we're asking the return on, is the incremental. We
- 16 take that times the carrying cost rate for the
- 17 25-year life of the property. We come up with a
- 18 carrying cost before pool allocation, so that's
- 19 126 million.

- We then apply the 71 percent factor that
- 21 says 29 percent of this cost is being recovered from
- 22 other pool members in the AEP system, so we've
- 23 excluded that, and that in theory would be a
- 24 component of the revenue that we're getting. You
- 25 know, you would just be getting revenue from two

- 1 sources. You'd be getting revenue from the internal
- 2 customer and revenue from other pool members.
- 3 So you apply the 71 percent factor and
- 4 that leaves carrying costs for internal load of
- 5 89 million. Then the jurisdictional allocation
- 6 factor is applied to get to the 84 million that we're
- 7 requesting.
- 8 Q. So for purposes of carrying charges --
- 9 and the carrying charges, again, you said that
- 10 carrying charges, that the capacity pool -- that Ohio
- 11 Power Company benefits from the capacity pool -- let
- 12 me strike that.
- The carrying charges that you have listed
- 14 as 71 percent being allocated to the internal
- 15 customers and the 29 being allocated out, that
- 16 remains stable for 2009, 2010, and 2011, correct, in
- 17 terms of seeking recovery for it?
- 18 A. Yes. Because we're only specifically
- 19 asking for recovery of the 2008 period. I held that

- 20 cost -- that factor could vary. It would vary.
- 21 71 percent, you know, I did a point in time. I think
- 22 it was May 2008. I looked at that ratio and used
- 23 that ratio as a reasonable proxy. But, yeah, it
- 24 could vary over time.
- Q. And you would expect that the more

- 1 environmental investment that you make, the higher
- 2 the allocation to -- the less the allocation to the
- 3 internal load, correct?
- 4 A. No, that's not correct. There's another
- 5 factor in it because we're really talking about the
- 6 capacity equalization rate.
- 7 Q. Yes.
- 8 A. There's also the factor of whose surplus
- 9 and how many megawatts are surplus in the pool.
- 10 Q. But for Ohio Power Company customers,
- 11 would that statement be true, since it is a surplus
- 12 member?
- THE WITNESS: Could you read the question
- 14 back prior to my last answer to make sure I
- 15 understand it?
- 16 (Record read.)
- 17 A. I think you could say that the more
- 18 environmental investment that Ohio Power makes, the
- 19 higher the capacity rate, but it wouldn't affect the

- 20 allocation factor.
- Q. Fair enough. Thank you.
- Mr. Nelson, I'm going to move on to OCC
- 23 Exhibit 6.
- A. If you remind me what OCC-6 is.
- Q. Yes, OCC Exhibit 6 was a document that

- 1 you provided in response to OCC's request for
- 2 production of document 125, and the request was
- 3 provide a copy of all workpapers supporting the
- 4 supplemental information filing of October 16th,
- 5 2008. Do you recall that?
- 6 A. Yes.
- 7 Q. And do you have a copy of that in front
- 8 of you?
- 9 A. Yes, I do.
- 10 Q. Thank you. Now, Mr. Nelson, you are
- 11 listed on that document as someone who is responsible
- 12 for the preparation of that response?
- 13 A. Yes.
- Q. So you are familiar with that document.
- 15 A. Yes.
- 16 Q. Let's go to the first page of that
- 17 document entitled "Income Statement Summery." Do you
- 18 have that?
- 19 A. Yes, I do. For Columbus Southern?

- 20 Q. Yes.
- 21 Can you tell me, and I'm looking down
- 22 about two lines from the top it says: "Memo: Total
- 23 Rate Relief by Class," and then there's a parentheses
- 24 that says "(excluding Goal Seek)." Can you tell me
- 25 what that is intended to mean, if you know?

- 1 A. Well, that's probably only of interest to
- 2 our modelers, but the "excluding Goal Seek," is
- 3 that --
- 4 Q. Yeah. What does that line represent?
- 5 A. Sometimes in a long-range forecast we may
- 6 assume a certain ROE and we may just rather than do a
- 7 precise estimate of rate relief, because you don't
- 8 know what might happen in, say, 2012 for a particular
- 9 company, that you may solve for a particular ROE.
- 10 It's just different ways to model a result, and you
- 11 may say, well, we think we're going to achieve this
- 12 particular ROE, and that's what that means.
- 13 EXAMINER BOJKO: Mr. Conway.
- 14 THE WITNESS: But there are also other
- 15 goal seeks. You could goal seek on an O&M spend.
- 16 It's just a modeling of -- I'm done.
- 17 MR. CONWAY: Your Honor, I think that I
- 18 objected to the use of the exhibit when it was first
- 19 introduced by Mr. Kurtz. Or was it Mr. Randazzo?

- 20 EXAMINER BOJKO: I think it was
- 21 Mr. Kurtz.
- MS. GRADY: Mr. Kurtz.
- MR. CONWAY: I just wanted to reiterate
- 24 my earlier objection, not to interrupt the flow.
- 25 EXAMINER BOJKO: Your continuing

- 1 objection to the use of data responses which are
- 2 underlying workpapers to the data filing that the
- 3 company made on October 16th, 2008, is noted for
- 4 the record.
- 5 MR. CONWAY: Thank you.
- 6 Q. (By Ms. Grady) So for purposes of our
- 7 discussion, when we're trying to determine what the
- 8 pro formas will look like for the ESP of the company,
- 9 we wouldn't necessarily need to be worried about that
- 10 little line; is that right?
- 11 A. The part in parentheses, right, we
- 12 wouldn't have used goal seek in this particular
- 13 forecast. We would have modeled, as we said, and I
- 14 think the Commission required us to model our ESP
- 15 plan as filed.
- Q. Based upon the assumption that you will
- 17 get 100 percent of the relief that you've asked for
- 18 in your ESP.
- 19 A. Yes, exactly as we filed the request.

- Q. Now, do you recall, Mr. Nelson, how
- 21 Mr. Kurtz walked you through the company's projected
- 22 deferred FAC for Ohio Power? Do you recall that?
- A. Yeah, I think we had some discussions on
- 24 the deferral.
- Q. I would like to do the same for CSP. And

- 1 I would assume that we can use this schedule that's
- 2 Attachment 1, page 1 of 12, to look at the fuel
- 3 deferred expenses. So let's take a look at the 2009
- 4 column, and in that column we see 110,093; is that
- 5 right?
- 6 A. Yes.
- 7 Q. And that ties back, does it not, to
- 8 schedules filed in this case, correct?
- 9 A. I think it was pretty close to what we
- 10 filed in this case. I'm not sure.
- 11 Q. And that schedule -- which schedule would
- 12 that have been? And apologize that I don't remember.
- A. I think it was Mr. Assante's LVA-1, is
- 14 what I recall.
- Q. Right, LVA-1. So we would find in
- 16 LVA-1 -- let me get that for a moment. Do you have a
- 17 copy of that schedule?
- 18 A. No.
- MS. GRADY: Could counsel provide that to

- 20 Mr. Nelson?
- Q. If we're looking at LVA-1, we would see
- 22 that for Columbus Southern Power for 2009 we see a
- 23 deferred FAC expense or credit of \$112 million,
- 24 correct?
- 25 A. Yes.

- 1 Q. So that's approximately what is shown on
- 2 OCC Exhibit No. 6, page 1; is that right?
- A. Yes. I consider those the same number.
- 4 Q. Now, let's move to 2010, although
- 5 Mr. Assante did not provide estimates of the deferred
- 6 FAC for 2010 and 2011, you have those estimates in
- 7 this document, correct?
- 8 A. Yes. This document that is pro formas
- 9 would reflect a forecast of FAC for 2010 and 2011.
- Q. And so if I look at 2010, I see a figure
- 11 of 61,325 and there's no parentheses around that
- 12 number, is there?
- 13 A. That's correct.
- Q. So would that mean that instead of
- 15 projecting a need to defer the fuel adjustment clause
- 16 expense, that that would actually reflect an
- 17 overrecovery of the fuel adjustment clause expense?
- 18 A. It is the opposite sign, and what it
- 19 means is using the 15 percent limiter, we were able

- 20 to actually eat into the deferred fuel balance in the
- 21 first year. So yes, that would be -- could be
- 22 considered an overrecovery.
- I want to be a little careful there
- 24 because we do have the phase-in plan, and at some
- 25 point I might, when we get into actual discussions of

- 1 deferrals and the methodology the company has used
- 2 including the 15 percent limiter, I'd like to punt
- 3 those to Mr. Roush if I could.
- 4 Q. Okay. And if we look at 2011, we see
- 5 another number, and that's 48,763 without brackets,
- 6 and that would represent as well not the need to
- 7 defer but overrecovery, to the extent that you accept
- 8 that characterization.
- 9 A. Yes. And in fact, I think if you sum the
- 10 three numbers, you would find that there's no
- 11 deferred fuel balance left for CSP at the end of the
- 12 period.
- Q. Now, to the extent, Mr. Nelson, that it
- 14 would appear in your projections that there is
- 15 overrecovery in 2010 and 2011, is it plausible to
- 16 argue then that perhaps the amount of increase sought
- 17 in those particular years could be adjusted downward
- 18 without the need for deferrals?
- 19 A. Of course, we have -- for the fuel

- 20 clause, which I think we're dealing with here, the
- 21 FAC, we haven't made any particular filing for 2010
- 22 and '11.
- Q. I understand that.
- A. The fuel clause I think, and it's a
- 25 little confused at this point, but I understand will

- 1 be under a quarterly fuel proceeding. At least at
- 2 the start I would expect we would at least report
- 3 quarterly to the Commission where we stood on
- 4 recoveries and so forth, and at some point we could
- 5 adjust rates through that proceeding, but I think the
- 6 focus, of course, right now is establishing a proper
- 7 fuel rate for 2009.
- 8 But what, I think that's, you know --
- 9 this is a forecast as well, as we've talked about, so
- 10 things will change and these numbers will be
- 11 different, but we can adjust, and I think the idea is
- 12 to still, you know, protect the customer from a large
- 13 increase.
- Q. The company is requesting, is it not, a
- 15 15 percent increase in customers' bills from 2009
- 16 through 2011 under their application; isn't that
- 17 correct?
- 18 A. I'm not sure about that statement. I
- 19 think you'd have to ask Mr. Baker.

- Q. Now, Mr. Kurtz yesterday walked you
- 21 through an example where you got to the projected
- 22 return on equity under the pro formas assuming the
- 23 full approval of the plan, and he walked through that
- 24 with you for Columbus Southern Power. Do you
- 25 remember that exercise?

- 1 A. Yes, I do.
- 2 Q. And in that exercise what you did was you
- 3 took the total proprietary capital and divided that
- 4 by the income after income taxes. Do you recall
- 5 that?
- 6 A. I think it's the reverse.
- 7 Q. The reverse? Well, I wasn't a math
- 8 major.
- 9 A. It's the income divided by the equity
- 10 balance.
- 11 Q. If we went through that exercise with
- 12 Ohio Power, would you accept, subject to check, that
- 13 for 2009 the return on equity projected would be
- 14 12.6 percent?
- 15 A. I did the calculation. I got 12.7, but
- 16 we're pretty close.
- 17 Q. That's close enough. Now, for 2010 did
- 18 you do that projection as well?
- 19 A. Yes.

- Q. What did you reach there?
- 21 A. I got 12.3.
- 22 Q. And for 2011?
- A. I got 12.2. Did you get a different
- 24 number?
- Q. I did. But I'm so far off that I must

- 1 have done something wrong.
- A. Okay.
- 3 Q. Now, turning to page 3 of 12 of that
- 4 document and, again, we're talking about OCC Exhibit
- 5 6, I want to direct your attention to the line item
- 6 called Over/Under Fuel Recovery. Do you see that?
- 7 MR. CONWAY: Is that in the adjustments
- 8 to net income that you're looking at?
- 9 MS. GRADY: It's the Cash Flow Statement.
- MR. CONWAY: Yes. Page 3 of 12 but
- 11 within the --
- MS. GRADY: Yes, Adjustments to Net
- 13 Income section.
- Q. Do you see that reference?
- 15 A. Yes, I see. It's very light but I can
- 16 see it.
- 17 Q. Now, how is that different from the
- 18 information shown on page 1 of 12 which we just
- 19 talked about, the deferred fuel expense? Is there

- 20 any connection between the two?
- A. There should be a connection but,
- 22 unfortunately, I can't tell you all the connections.
- Q. Can you tell me any of them?
- A. Well, on page 1, that deferral is the
- 25 difference between the total estimated expense for

- 1 the FAC versus the revenues being collected
- 2 including -- with the limitation of the phase-in
- 3 plan. And I would have a -- I'd have to sit down and
- 4 reconcile that number. I can't really -- I guess I
- 5 should have said I probably can't give you much --
- 6 unless I sat and thought about it and looked at it,
- 7 much explanation, that is.
- 8 Q. How long would you need to sit and think?
- 9 A. Probably a few days.
- 10 Q. Okay. We'll let it go at that.
- 11 A. We'd have to go back to the model and
- 12 trace all this, but I believe everything ties in.
- Q. Okay.
- 14 A. Now, the other thing with modeling, what
- 15 you always have to be aware of is that for
- 16 convenience you may stick an item on a particular
- 17 line. This is a model, forecast model, that we use
- 18 all the time for all our companies and so forth, so
- 19 you never design a model for every data request or,

- 20 you know, it's a reasonable approximation of where
- 21 you're going to be.
- Our model is very detailed. I don't want
- 23 to give that impression, but that's why I can't
- 24 answer these questions. I don't know, you know, what
- 25 exactly is in that line. It says, you know, has a

- 1 label on it, but is that label really descriptive of
- 2 what is in that line. You'd hope it would be, but
- 3 it's . . .
- 4 Q. I appreciate that. Thank you,
- 5 Mr. Nelson.
- 6 Now, if I look also on page 3 of 12, the
- 7 Change in Other Regulatory Assets, that ties back,
- 8 does it not, to the deferred fuel expenses listed on
- 9 page 1 of 12?
- 10 A. It does.
- 11 MS. GRADY: Your Honor, may I approach
- 12 the witness?
- 13 EXAMINER BOJKO: You may.
- MS. GRADY: At this time I would like
- 15 marked as OCC Exhibit No. 7, I believe, the response
- 16 of the company to interrogatory request No. 9-270.
- 17 EXAMINER BOJKO: I'm sorry, what was the
- 18 number again?
- MS. GRADY: 9-270, 9 representing the

- 20 ninth set. We did use some restraint.
- MR. RESNIK: I won't debate that.
- MR. MARGARD: She can't say it with a
- 23 straight face.
- MR. RANDAZZO: What, you kept it under
- 25 300, or in the ninth set?

1 EXAMINER BOJKO: Yeah, they didn't go to a tenth. 3 It will be so marked as OCC Exhibit 7 for identification purposes. MS. GRADY: Thank you. 5 6 (EXHIBIT MARKED FOR IDENTIFICATION.) Q. (By Ms. Grady) Are you familiar with that 7 document? A. Yes. 9 10 Q. And, in fact, you responded to this discovery request, correct? 12 A. Yes. EXAMINER BOJKO: Yes, Mr. Conway? 13 MR. CONWAY: At this point, your Honor, I 14 would observe that based on my brief review, this looks like it's connected to the workpapers that we've been discussing, OCC Exhibit No. 6 and, therefore, is connected to the supplemental filing 19 information, and so I would just note again our

- 20 objection on the record to pursuit of this kind of
- 21 information and placement of it in the record.
- 22 EXAMINER BOJKO: Okay. Your objection is
- 23 noted.
- 24 Please continue, Ms. Grady.
- MS. GRADY: Thank you, your Honor.

- 1 Q. Now, yesterday we had some discussion
- 2 about margins from off-system sales. Do you recall
- 3 those discussions?
- 4 A. Yes.
- 5 Q. And I believe yesterday you testified
- 6 that the margins from off-system sales were not
- 7 included in the fuel adjustment clause; is that
- 8 right?
- 9 A. That's correct.
- 10 Q. Now, if you'd look at this response,
- 11 Mr. Nelson, are the margins that we were discussing
- 12 yesterday the margins that are shown as -- in
- 13 subcomponent A for 2009 as 302,298?
- 14 A. Yesterday I don't believe we were talking
- 15 about any particular margin. I think we were talking
- 16 more about the concept of whether it was included in
- 17 the FAC or not.
- Q. But this would be consistent with that
- 19 discussion; is that correct?

- A. Yes, if it's talking about margins, I
- 21 think it's consistent.
- Q. And we see, just for my understanding,
- 23 the margins that are shown for 2009, 2010, and 2011,
- 24 are those missing zeros? Are there three zeros to be
- 25 added to each one of those?

- 1 A. Yes. They should be in millions -- or,
- 2 thousands, I'm sorry. So it should be 302 million.
- Q. So for 2009 we see a margin related to
- 4 off-system sales of 302,298,000 and for 2010 there's
- 5 a margin of 232,335,000, and for 2011 a margin of
- 6 256,322,000; is that right?
- 7 A. That's correct.
- 8 Q. Now, those margins are combined AEP-Ohio;
- 9 is that correct?
- 10 A. Yes.
- Q. And we know from the filing, do we not,
- 12 that -- let me strike that.
- From the OCC Exhibit 6 we can determine
- 14 the margins on a particular company basis; isn't that
- 15 correct? And I would direct your attention to page 7
- 16 of 12 for Columbus Southern.
- 17 A. I believe you can from these documents,
- 18 but if you'll bear with me, I'll add the two
- 19 companies.

- Q. Thank you.
- A. Yes, I just add the first year and they
- 22 tie out.
- Q. So if we look at page 7 of 12 of OCC
- 24 Exhibit No. 6, we would see that the line entitled
- 25 Off-System Sales really means off-system sales

- 1 margins consistent with OCC Exhibit No. 7 but shown
- 2 for Columbus Southern Power only.
- 3 A. That's correct.
- 4 Q. And if we looked at OCC Exhibit 6, page 8
- 5 of 12, we would see the off-system sales margins for
- 6 Ohio Power.
- 7 A. Yes.
- 8 Q. For that same time period.
- 9 A. That's correct.
- Q. Now, going back to OCC Exhibit 7, in that
- 11 response you state that: "Credits for OSS margins
- 12 are a component of the current SSO and are therefore
- 13 reflected in the ESP." Can you explain that
- 14 statement to me and what you mean there?
- 15 A. Yes. The idea behind that statement
- 16 responding I think to the discovery question, because
- 17 you asked that specifically, is that in the '90s
- 18 cases there would have been some level of off-system
- 19 sales included in that case and, therefore, if you

- 20 assume that we continued those rates into the future,
- 21 there would be some other off-system sales margins.
- 22 And to be more specific, off-system sales margin
- 23 probably would have been treated as a credit to cost
- 24 of service in the old general rate case proceedings.
- Q. So do you know the level of off-system

- 1 sales that would have been included in the 1990s
- 2 cases and the margins associated with that that you
- 3 are now assuming are components of the current SSO?
- 4 A. No, I do not.
- 5 Q. The next statement in that response, in
- 6 OCC Exhibit 7, is that: "The Companies have not
- 7 determined the amount of credits that will flow back
- 8 through the ESP." Do you see that?
- 9 A. Yes.
- Q. Can you explain to me at what point
- 11 they're going to make that determination, if you
- 12 know?
- 13 A. I don't know that we would make that
- 14 determination in the sense that I don't know that
- 15 we'd have any reason to.
- Q. Is the company recommending that credits
- 17 should flow back through the ESP rider for the OSS?
- 18 A. We're not changing that component of our
- 19 standard service offer. I don't think we're

- 20 recommending any change to it. If there's something
- 21 built into the standard service offer for off-system
- 22 sales margins, they would continue, theoretically,
- 23 but we're not specifically doing anything beyond that
- 24 with off-system sales margins, as far as I'm aware.
- 25 Mr. Baker -- you probably want to follow

- 1 up this discussion with Mr. Baker.
- Q. And you said if there's something
- 3 associated with the SSO with regard to off-system
- 4 sales, are you now questioning whether there is a
- 5 component in there that relates to off-system sales?
- 6 THE WITNESS: Could you read my last
- 7 answer back?
- 8 (Record read.)
- 9 Q. I thought I heard you say "if" in your
- 10 response.
- 11 A. If I did --
- Q. Then you didn't mean "if"?
- A. Then I would like to take the "if" out.
- Q. Now, in response, and I'm looking at OCC
- 15 Exhibit 7 in subpart B, you correct OCC and say
- 16 there's no usage on DMR-1 like you guys assumed, but
- 17 you look at DMR-5 for the usage that's reflected in
- 18 the ESP. Do you see that?
- 19 A. Yes.

- Q. And then you go on to say that the
- 21 forecast in the projected financial statements is a
- 22 more recent forecast. Do you see that?
- 23 A. Yes.
- Q. So the projected -- the projected
- 25 financial statements is based upon a different

- 1 forecast than what is contained within the ESP
- 2 filing, is that right, in terms of usage?
- A. I believe so. You might want to follow
- 4 up with Mr. Roush, but I believe he used an earlier
- 5 load forecast.
- Q. Do you know the difference between the
- 7 forecast used for purposes of OCC Exhibit 6 from the
- 8 DMR-5 forecast?
- 9 A. No, I do not.
- Q. Would Mr. Roush be able to address that?
- 11 A. Mr. Roush knows what he used in his
- 12 exhibits. I guess he may be able to.
- Q. Would Mr. Roush know what forecast was
- 14 used for purposes of the income statements on OCC
- 15 Exhibit 6?
- 16 A. He may. Typically I don't know that it
- 17 would have been something that he would have looked
- 18 at. Alls I did was compare the load in this forecast
- 19 versus that schedule, and I know there's a

- 20 difference, but I don't have the numbers in front of
- 21 me.
- Q. Do you recall what the difference was,
- 23 what the magnitude of the difference was, whether the
- 24 forecasted usage was greater in OCC Exhibit 6 than
- 25 DMR-5?

- 1 A. I don't recall.
- 2 MS. GRADY: If I may have a couple
- 3 minutes, or a moment, I may be finishing up with the
- 4 cross. I just need to recheck.
- 5 EXAMINER BOJKO: You may.
- 6 Let's go off the record.
- 7 (Off the record.)
- 8 EXAMINER BOJKO: Let's go back on the
- 9 record.
- Q. Mr. Nelson, we've been talking about OCC
- 11 Exhibit 6, and the assumption under OCC Exhibit 6 is
- 12 that the company receives a hundred percent of what
- 13 they're asking for; is that correct?
- 14 A. Yes.
- 15 Q. Has the company done any runs that would
- 16 show the rate effects under the ESP if the
- 17 projections for FAC numbers are used that are
- 18 contained in OCC Exhibit No. 6?
- 19 A. Well, one thing I could say is I haven't

- 20 done anything outside what we've done here. I'm
- 21 pretty sure that the rate impact for Ohio Power,
- 22 because they keep a deferral through the whole period
- 23 and they build on their FAC deferral, would be in the
- 24 15 percent range for each year of the forecast.
- With CSP, that would be -- there might be

- 1 a change in that 15 percent, that is, there's a
- 2 possibility that that 15 percent would be lower, say
- 3 in the last year perhaps, I kind of recall that, that
- 4 we may not need a full 15 percent in the last year
- 5 under this scenario.
- 6 Q. Didn't the numbers show for 2010 and 2011
- 7 that you might not need the 15 percent because --
- 8 A. We were only dealing with one component
- 9 of the full forecast so I can't make that statement.
- 10 Q. With respect to the fuel adjustment
- 11 clause component, the numbers would show that you
- 12 might not need the 15 percent increase for year 2010
- 13 and 2011, correct?
- 14 A. I don't recall that. I went to 2011
- 15 because I specifically remember seeing something a
- 16 little less than the 15 percent.
- 17 Q. I want to go very quickly to IEU Exhibit
- 18 No. 2, which was entered or which was used yesterday
- 19 during IEU's cross, the third quarter '08 earnings

- 20 release presentation. Do you have that exhibit in
- 21 front of you?
- 22 A. Oh, yes.
- Q. And if you go to the very last page of
- 24 that exhibit, I want to focus your attention on the
- 25 column entitled Ohio Companies, \$148 million in rate

- 1 relief. Do you see that?
- 2 A. Yes.
- Q. And where does that figure come from, and
- 4 what is it attributable to?
- 5 A. I'm not -- I didn't do any analysis on
- 6 this number so I'm not sure what it's composed of.
- 7 We did have the 3 and 7 percent increases at the
- 8 start of 2008, so that would be one component of it.
- 9 Now, we also have probably changes in the
- 10 transmission cost recovery rider and a few other
- 11 things, and then anything that went in partway in '07
- 12 when you compare '08 to '07, if there was a change
- 13 midway through the year, you'd pick up that
- 14 annualization, so it could be composed of a lot of
- 15 different items.
- MS. GRADY: Mr. Nelson, I thank you for
- 17 your time this morning.
- That's all the questions I have, your
- 19 Honors.

- 20 EXAMINER BOJKO: Thank you. Then I guess
- 21 we're to -- Mr. Nelson, you're not off yet.
- THE WITNESS: Oh, I'm sorry.
- 23 EXAMINER BOJKO: Unless your counsel has
- 24 no redirect. You could encourage that outcome, I
- 25 guess.

1	THE WITNESS: I was getting hungry I
2	guess.
3	EXAMINER BOJKO: Mr. Conway, do you have
4	any redirect?
5	MR. CONWAY: Your Honor, it might take a
6	little while for me to go through my notes from the
7	extensive cross-examination for Mr. Nelson, and I
8	wonder if we could defer that until after the lunch
9	hour.
10	EXAMINER BOJKO: That's fine, we'll
11	take we'll come back at 1 o'clock.
12	MR. CONWAY: Okay.
13	EXAMINER BOJKO: We're in recess.
14	(At 11:52 a.m. a lunch recess was taken
15	until 1:00 p.m.)
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1	Friday Afternoon Session,
2	November 21, 2008.
3	
4	EXAMINER BOJKO: Let's go back on the
5	record.
6	Do you have any redirect for Mr. Nelson,
7	Mr. Conway?
8	MR. CONWAY: Just a few questions, your
9	Honor.
10	
11	REDIRECT EXAMINATION
12	By Mr. Conway:
13	Q. Mr. Nelson, do you recall questions from
14	counsel for OCC regarding an income statement summary
15	that is on page 1 of 12 of OCC Exhibit No. 6?
16	A. Yes.
17	Q. And do you recall the questions that
18	addressed several of the values in the fuel-deferred
19	expense line on that income statement summary?

- A. Yes, I do.
- Q. And I believe the values that are in that
- 22 summary on that line that were discussed were the
- 23 roughly \$110 million deferred fuel expense for 2009
- 24 and then the values for 2010 and 2011 of positive
- 25 61 million, approximately, and a positive \$49 million

- 1 approximately. Do you recall that?
- A. Yes.
- Q. And the approximate 61 and 49 million in
- 4 the 2010 and the 2011 years, I believe that you
- 5 pointed out that they essentially were equal to, in
- 6 sum, the value for the 2009 year for the deferred
- 7 fuel expense. Do you recall that?
- 8 A. Yes.
- 9 Q. And I believe that my recollection is
- 10 that OCC's counsel in the course of discussing those
- 11 numbers with you characterized the ones -- the values
- 12 in the 2010 and 2011 periods as overrecovery numbers,
- 13 and -- do you recall that?
- 14 A. Yes.
- Q. And do you agree with that
- 16 characterization?
- 17 A. No. What these numbers represent is one
- 18 of the options that's laid out on page 14 of
- 19 Mr. Roush's testimony where if we had headroom under

- 20 the 15 percent rate cap, that we would first use that
- 21 headroom to decrease the deferrals of 2009.
- Q. Mr. Nelson, do you also recall a series
- 23 of questions from counsel for OCC regarding how the
- 24 companies will recover environmental costs for the --
- 25 that are not being recovered in the FAC but, rather,

- 1 non-FAC costs and the manner in which they might be
- 2 recovered through the non-FAC portion of the standard
- 3 service offer?
- 4 A. Yes.
- 5 Q. And I believe my recollection is that
- 6 there was some conversation at that point about the
- 7 companies' 3 percent and 7 percent annual increases
- 8 for the non-FAC portion of the standard service offer
- 9 rate. Do you recall that also?
- 10 A. Yes.
- 11 Q. Could you tell me your understanding of
- 12 whether the 3 and 7 percent annual increases for the
- 13 non-FAC portion of the SSO beginning in 2009 were
- 14 cost based?
- MS. GRADY: I'm sorry, could I have that
- 16 question reread, please?
- 17 EXAMINER BOJKO: Can everybody hear
- 18 Mr. Conway?
- MS. GRADY: I'm not having any problem

- 20 hearing.
- 21 EXAMINER BOJKO: Could you speak up a
- 22 little bit or use a mic, Mr. Conway.
- MR. CONWAY: Yes.
- 24 EXAMINER BOJKO: The fan has now kicked
- 25 back in so I know I'm having difficulty.

1	Could you read it back, please?
2	(Record read.)
3	A. They were not cost based, 3 and 7,
4	beginning in 2009.
5	MR. CONWAY: Thank you, your Honor. I
6	have no further questions.
7	EXAMINER BOJKO: Thank you.
8	Do we have any recross? Let's start at
9	this end of the table.
10	MR. MASKOVYAK: No, your Honor.
11	MR. JONES: No, your Honor.
12	MS. ELDER: No, your Honor.
13	EXAMINER BOJKO: OCC?
14	MS. GRADY: Yes, your Honor.
15	
16	RECROSS-EXAMINATION
17	By Ms. Grady:
18	Q. Mr. Nelson, we were talking or you were
19	talking with your counsel about the values for

- 20 Columbus Southern Power 2010-2011, the pro forma
- 21 line, Fuel-Deferred Expenses for 2010-2011 as
- 22 contained in OCC Exhibit 6, page 1 of 12.
- 23 A. Yes.
- Q. And you indicated that the amounts shown
- 25 in 2010 and 2011 would be used in a manner described

- 1 by Mr. Roush, and you cited to page 14 of his
- 2 testimony.
- A. Yes. He laid out a couple different
- 4 options, and I think we had some discussion earlier,
- 5 I think Mr. Baker did, around which option the
- 6 company might chose. We chose to model an option in
- 7 these pro formas that I described in responding to
- 8 Mr. Conway.
- 9 Q. And the option that you were referencing,
- 10 are you talking about the fact that if there's an
- 11 overrecovery of the FAC in, for instance, 2010, that
- 12 instead of returning that -- those dollars to
- 13 customers, you would then use that money to draw down
- 14 the deferrals that are collected in the time period
- 15 of 2012 through 2018?
- 16 MR. CONWAY: Objection.
- 17 EXAMINER BOJKO: Mr. Conway.
- MR. CONWAY: It continues to
- 19 mischaracterize Mr. Nelson's testimony, which was the

- 20 point of the redirect, to highlight that, and if
- 21 Mr. Nelson can answer the question, I'll let it pass,
- 22 but it's clearly mischaracterizing his testimony.
- 23 EXAMINER BOJKO: I thought that was
- 24 Ms. Grady's intent, I thought she was trying to
- 25 understand his testimony.

1	Could you clarify if that's not your
2	testimony?
3	THE WITNESS: Yes. It isn't an
4	overrecovery in 2010. What we're saying is that we
5	would use the headroom under the 15 percent, that we
6	could increase the FAC for to recover the prior
7	a piece of the prior underrecovery. So if you think
8	of a normal fuel clause, you usually have a componen
9	to recover your current cost plus a component for
10	over- and underrecovery.
11	In this instance, of course, we have a
12	big underrecovery so we'd use this opportunity since
13	we can, under one of the options is to have the
14	15 percent rate increase. We've increased the FAC
15	rate to recover some of that past underrecovery.
16	Q. And the headroom is created by the fact
17	that the deferred FAC is less than the 15 percent
18	that you're collecting from customers, isn't that
19	correct, under your assumption?

- A. I'm not sure I can answer that. Perhaps
- 21 the questions of headroom are better directed to
- 22 Mr. Roush. He does the limitations.
- MS. GRADY: Thank you, Mr. Nelson.
- 24 EXAMINER BOJKO: Mr. Randazzo?
- MR. RANDAZZO: No questions.

1	EXAMINER BOJKO: Mr. Boehm?
2	MR. BOEHM: No questions, your Honor.
3	EXAMINER BOJKO: Mr. White?
4	MR. WHITE: No questions, your Honor.
5	EXAMINER BOJKO: Thank you, Mr. Nelson.
6	Ms. Grady?
7	MS. GRADY: Yes, your Honor, I'd like to
8	move for admission of OCC Exhibit No. 6 and No. 7 at
9	this time.
10	EXAMINER BOJKO: Any objections to the
11	admission of OCC's Exhibits 6 and 7?
12	MR. CONWAY: Your Honor, the companies
13	continue to object to the relevance of the
14	information that's included in OCC-6 and 7. It's the
15	same objection as we noted before.
16	EXAMINER BOJKO: Yes. Consistent with
17	our prior rulings, your objection is overruled and
18	OCC Exhibits 6 and 7 will be admitted.
19	MS. GRADY: Thank you, your Honor.

- 20 (EXHIBITS ADMITTED INTO EVIDENCE.)
- MR. CONWAY: Your Honor, I'd also like to
- 22 again move for the admission of Mr. Nelson's direct
- 23 testimony, Companies' Exhibit No. 7, as well as his
- 24 updated corrected Exhibits PJN-1, PJN-4, and PJN-13
- 25 which was marked as Companies' Exhibit 7A.

1	EXAMINER BOJKO: Any objections to the
2	admission of Mr. Nelson's testimony 7 or 7A?
3	Hearing none, they will be admitted.
4	(EXHIBIT ADMITTED INTO EVIDENCE.)
5	EXAMINER BOJKO: I believe Mr. Randazzo
6	has one.
7	MR. RANDAZZO: Yes, IEU Exhibit No. 2,
8	your Honor.
9	EXAMINER BOJKO: Any objection to the
10	admission of IEU Exhibit 2?
11	MR. CONWAY: Yes, your Honor.
12	EXAMINER BOJKO: Grounds?
13	MR. CONWAY: Grounds are that the
14	witness, Mr. Nelson, indicated clearly that he did
15	not participate in the preparation of it and only had
16	at most a passing familiarity with it, and the net
17	result of the cross-examination regarding that
18	exhibit was that Mr. Nelson agreed that statements
19	made in the agreement were statements in the exhibit,

- 20 so he did not provide a basis for admission of that
- 21 document into the record.
- 22 EXAMINER BOJKO: Mr. Randazzo.
- MR. RANDAZZO: Your Honor, I'm a bit
- 24 curious here. It sounds like the objection is that
- 25 the document doesn't speak for itself and does not

- 1 self-authenticate. Is counsel contesting the
- 2 accuracy of the information in the document?
- 3 MR. CONWAY: Your Honor, my objection is
- 4 that the exhibit did not relate to Mr. Nelson's
- 5 testimony and, frankly, there is no -- Mr. Nelson is
- 6 not a witness who can provide whatever context would
- 7 be appropriate to explain the data that's included in
- 8 the exhibit. The objection is not that it's an
- 9 inaccurate or not authentic version of the company's
- 10 document.
- 11 EXAMINER BOJKO: And it's a publicly
- 12 filed document, is my understanding.
- MR. CONWAY: Well, there --
- MR. RANDAZZO: Yes, it's on AEP's
- 15 website, your Honor.
- MR. CONWAY: Yes, that's not the
- 17 objection. The objection is that the witness doesn't
- 18 provide a basis for it, and to the extent it needs
- 19 explanation, it's not coming through Mr. Nelson and

- 20 so it's not appropriate at this time, I don't think,
- 21 to bring it into the record.
- 22 EXAMINER BOJKO: The objection's
- 23 overruled. IEU Exhibit 2 will be admitted into the
- 24 record.
- 25 (EXHIBIT ADMITTED INTO EVIDENCE.)

1	MR. CONWAY: Your Honor, in light of the
2	ruling I would request that Mr. Baker be able to
3	provide comments on the context that is necessary in
4	order to make this document useful for the Commission
5	to consider.
6	EXAMINER BOJKO: Well, it is now an
7	exhibit. Mr. Baker hasn't testified yet, so maybe
8	the party intends to use it on him, or I'm assuming
9	that you will also request rebuttal testimony at a
10	later time as well.
11	MR. CONWAY: Okay.
12	EXAMINER BOJKO: With that I believe,
13	AEP, do you have your next witness?
14	MR. NOURSE: Yes, your Honor. AEP calls
15	William Castle.
16	EXAMINER SEE: Good afternoon,
17	Mr. Castle, please raise your right hand.
18	(Witness sworn.)
19	EXAMINER SEE: Thank you. Have a seat.

20	MR. NOURSE: Your Honor, I'd like to mark
21	the Prefiled Direct Testimony of William K. Castle as
22	Companies' Exhibit 8.
23	EXAMINER SEE: The exhibit is so marked.
24	(EXHIBIT MARKED FOR IDENTIFICATION.)
25	

110

1	WILLIAM K. CASTLE
2	being first duly sworn, as prescribed by law, was
3	examined and testified as follows:
4	DIRECT EXAMINATION
5	By Mr. Nourse:
6	Q. Mr. Castle, could you state your full
7	name for the record, please?
8	A. My name's William Kelly Castle.
9	Q. And by whom are you employed and in what
10	capacity, sir?
11	A. AEP Service Corporation, director - DSM
12	and resource planning.
13	Q. Do you have in front of you the document
14	that was just marked Companies' Exhibit No. 8?
15	A. I have a copy of it.
16	Q. Yes.
17	A. Okay.
18	Q. And is that a copy of your prefiled
19	direct testimony in these cases?

- 20 A. Yes.
- Q. Was this document prepared by you or
- 22 under your direction?
- 23 A. Yes.
- Q. Do you have any changes, corrections,
- 25 additions you'd like to make this afternoon?

1	A. No.
2	Q. If I asked you the same questions
3	contained in your testimony, would your answer be the
4	same today under oath?
5	A. Yes.
6	MR. NOURSE: Thank your Honor. The
7	companies would move for Exhibit 8 into the record
8	subject to cross-examination.
9	EXAMINER SEE: Okay. Let's start at this
10	end. Mr. White.
11	MR. WHITE: I just have a few brief
12	questions.
13	
14	CROSS-EXAMINATION
15	By Mr. White:
16	Q. On page 6 and 7 of your testimony you
17	state that the energy efficiency benchmarks and the
18	peak demand reduction benchmarks are to be adjusted
19	for economic growth and mercantile commitments.

- 20 A. Yes.
- Q. Can you explain to me how the benchmarks
- 22 would be adjusted for mercantile commitments?
- A. It's my understanding that as mercantile
- 24 customers commit their resources, those resources
- 25 will be used to satisfy the benchmarks, but there

- 1 needs to be a subsequent increase in the overall
- 2 baseline from which you're making the measurements
- 3 from.
- 4 Q. Okay. And as resources, you mean?
- 5 A. Energy efficiency or peak demand
- 6 resources.
- 7 Q. Okay. Are you aware of whether or not
- 8 the resources that mercantile customers commit, if
- 9 they have implemented these resources before the 2006
- 10 date where the benchmarks are calculated, would those
- 11 be counted towards the mercantile customers'
- 12 commitments?
- A. It's my understanding that that is
- 14 allowed and that we would be pursuing those sort of
- 15 resources.
- 16 Q. Okay.
- MR. WHITE: No further questions, your
- 18 Honor.
- 19 EXAMINER SEE: Thank you.

20	Mr. Kurtz.
21	MR. BOEHM: No questions, your Honor.
22	EXAMINER SEE: Mr. Randazzo.
23	MR. RANDAZZO: I think one.
24	
25	

1	CROSS-EXAMINATION
2	By Mr. Randazzo:
3	Q. Mr. Castle, the benchmarks that you
4	describe on page 2 of your or, reference on page 2
5	of your testimony in describing the purpose of your
6	testimony, is it your understanding that those
7	benchmarks apply irrespective of whether the
8	companies are providing SSOs under or a standard
9	service offer under an electric security plan or a
10	market rate option?
11	A. Yes.
12	MR. RANDAZZO: That's all I have. Thank
13	you.
14	EXAMINER SEE: Mr. Etter.
15	MR. ETTER: Yes, thank you, your Honor.
16	
17	CROSS-EXAMINATION
18	By Mr. Etter:
19	Q. Good afternoon, Mr. Castle. My name is

- 20 Terry Etter. I'm with the office of the Ohio
- 21 Consumers' Counsel, and we just have a few questions
- 22 for you today.
- 23 Let's focus first on Exhibits WKC-1a and
- 24 1b to your testimony. 1a sets out AEP's proposed
- 25 energy efficiency benchmarks for Columbus Southern

- 1 Power for the years 2009 to 2011, and 1b has the
- 2 proposed energy efficiency benchmarks for Ohio Power
- 3 for the same period, correct?
- 4 A. Correct.
- 5 Q. These tables on the left start with
- 6 retail sales, either normalized, actual sales, or
- 7 forecasted sales, and make several adjustments in
- 8 order to determine the proposed energy efficiency
- 9 benchmarks for each company, correct?
- 10 A. That's correct.
- 11 Q. In making the adjustments to retail sales
- 12 do you net out the industrial load lost during the
- 13 period?
- 14 A. Industrial load lost during the period?
- 15 Q. Right.
- 16 A. I believe those figures would include any
- 17 losses that are in there. They would be implicit in
- 18 the actual data that's there.
- 19 Q. So they were netted out?

- A. Sure. These are actual results.
- Q. What is your estimate of the industrial
- 22 loading gigawatts per hour lost over 2006 to 2007?
- 23 EXAMINER SEE: Mr. Etter, I'm going to
- 24 need you to speak up or use the mic, please.
- THE WITNESS: I heard you.

1	Did you hear him?
2	EXAMINER SEE: No, I didn't.
3	Please read the question back.
4	Q. What is your estimate of the industrial
5	load lost in gigawatt-hours over 2006 to 2007?
6	A. I don't have those figures.
7	Q. Now, each table has a column for
8	adjustment for committed mercantile capabilities, bu
9	there are no figures in the column, just the notation
10	that committed mercantile capabilities to help
11	satisfy the benchmark would increase the baseline.
12	Do you know whether AEP has projected
13	mercantile committed energy efficiency for the 2009
14	to 2011 period?
15	A. I don't believe we've committed anything
16	at this point, although we are pursuing it.
17	Q. Now, looking at your direct testimony
18	starting on page 5, lines 19 to 22 and continuing on
19	page 6 over to line 2, you state that the energy

- 20 efficiency savings obtained from the companies'
- 21 programs also meet the advanced energy requirements;
- 22 is that right?
- 23 A. Yes.
- Q. SB 221 requires that 25 percent of AEP's
- 25 generation come from the alternative energy sources

- 1 by 2025; is that right?
- A. Yes.
- Q. And half of that or 12-1/2 percent has to
- 4 be in the form of renewable energy.
- 5 A. That's right.
- 6 Q. So is it true that AEP will not need any
- 7 other advanced energy source in order to meet the
- 8 advanced energy standard?
- 9 A. If my interpretation is correct, that
- 10 would logically follow.
- 11 Q. Now, on page 9, lines 22 and 23 of your
- 12 direct testimony, you state that: "The renewable
- 13 portfolio cost does not exceed the market or existing
- 14 portfolio costs by 3 percent in the years covered by
- 15 this plan." Is that correct?
- 16 A. Yes.
- 17 Q. Have you looked at the renewable
- 18 portfolio costs beyond the three years covered by the
- 19 plan?

- A. No, I haven't.
- Q. Does AEP-Ohio plan to sell any energy
- 22 efficiency credits in the voluntary markets, also
- 23 called white tags?
- A. I don't -- I'm not aware of any plans to
- 25 do that at this point.

- 1 Q. Now, do you have with you today a
- 2 response that you I believe helped prepare to some
- 3 OCC discovery, it's RPD No. 7-93?
- 4 A. I don't have it with me.
- 5 MR. ETTER: Can I approach the witness,
- 6 your Honor?
- 7 EXAMINER SEE: Yes.
- 8 MR. ETTER: And we would like to mark
- 9 this as OCC Exhibit 8.
- 10 (EXHIBIT MARKED FOR IDENTIFICATION.)
- 11 Q. Are you familiar with this document,
- 12 Mr. Castle?
- 13 A. I've seen it.
- 14 Q. Okay.
- 15 A. I think I could probably help you here.
- Q. Well, let's see if you can answer some
- 17 questions about it, then, okay? Let's look first at
- 18 column 6, it's the one labeled "Interruptible
- 19 Demand."

- A. Okay.
- Q. How was that interruptible demand figure
- 22 determined?
- A. How is it figured?
- Q. Yeah. How was the figure determined?
- A. In general terms those are contracts for

- 1 standard interruptible programs that are already in
- 2 place at this point.
- Q. And why is it or why does the
- 4 interruptible demand remain constant for the years
- 5 2008 through 2017?
- 6 A. I think simply because those are
- 7 contracts that are already in place and so we're not
- 8 forecasting additional contracts. These have some
- 9 certainty around them.
- 10 Q. So that would change if there were
- 11 additional contracts or if there were --
- 12 A. Additions or deletions, yes.
- Q. Additions or deletions, okay. Now, in
- 14 footnote (e) of this document it states that the "New
- 15 wind capacity value is assumed to be 13 percent of
- 16 nameplate." How is the 13 percent capacity value
- 17 determined?
- A. Again, I'll give you sort of a general
- 19 answer because I don't actually calculate that, but

- 20 wind being an intermittent resource, it's really sort
- 21 of a statistical look at the fact that the wind may
- 22 be generating at its full nameplate capacity during
- 23 times of system peak, and you would infer from that
- 24 13 percent that on whole, in total over all of our
- 25 wind generation 13 percent of the time it would be

- 1 going at full speed at the system peak.
- Q. Would this value increase as new wind
- 3 turbines came on line?
- 4 A. No, it wouldn't. It just pretty much
- 5 varies with the geography, so if you're in a windy
- 6 part of the country, you might have a higher number
- 7 than 13 percent.
- 8 Q. And footnote (c) mentions under
- 9 Efficiency Improvements, it mentions that the Amos 3
- 10 will have a 35-megawatt energy efficiency improvement
- 11 in 2009. Are the companies planning to use the
- 12 35-megawatt improvement in Amos 3 to meet the energy
- 13 efficiency benchmarks in Revised Code 4898.66?
- 14 A. I know we didn't list that specifically
- 15 in Ms. Sloneker's testimony, but I don't see why we
- 16 wouldn't seek to use that. I don't know what the
- 17 energy impact of that might be. That's a megawatt
- 18 impact there.
- 19 Q. And if you were to use this, would you

- 20 net out the efficiency gains against other plant
- 21 deratings cited in the rest of the footnote?
- A. I'm not sure how that would play out.
- MR. ETTER: That's all I have, your
- 24 Honor. Thank you.
- Thank you, Mr. Castle.

1	EXAMINER SEE: Thank you.
2	Ms. Elder?
3	MS. ELDER: No questions, your Honor.
4	EXAMINER SEE: Mr. O'Brien?
5	MR. O'BRIEN: No questions, your Honor.
6	EXAMINER SEE: Mr. Maskovyak?
7	MR. MASKOVYAK: No questions, your Honor.
8	EXAMINER SEE: Mr. Margard?
9	MR. MARGARD: No questions, your Honor.
10	Thank you.
11	EXAMINER SEE: Any redirect for the
12	witness?
13	MR. NOURSE: No, your Honor.
14	EXAMINER SEE: Thank you, Mr. Castle.
15	THE WITNESS: Thank you.
16	EXAMINER SEE: Mr. Nourse, did you move
17	for the admission of
18	MR. NOURSE: Yes, I did, your Honor. I
19	can re-move if that's helpful.

- EXAMINER SEE: No problem.
- MR. ETTER: And OCC moves for the
- 22 admission of OCC Exhibit 8 also, your Honor.
- 23 EXAMINER SEE: Are there any objections
- 24 to the admission of Companies' Exhibit No. 8, the
- 25 direct testimony of Mr. Castle?

1	There are none, Company Exhibit 8 should
2	be admitted into the record.
3	(EXHIBIT ADMITTED INTO EVIDENCE.)
4	EXAMINER SEE: Are there any objections
5	to the admission of OCC Exhibit 8?
6	MR. NOURSE: No, your Honor.
7	EXAMINER SEE: If that's the case, OCC
8	Exhibit 8 should also be admitted into the record.
9	(EXHIBIT ADMITTED INTO EVIDENCE.)
10	MR. NOURSE: If you're ready, your
11	Honor, the companies call Jay Godfrey to the
12	stand.
13	EXAMINER SEE: Okay.
14	MR. NOURSE: I'd like to mark his
15	prefiled testimony as Exhibit No. 9.
16	EXAMINER SEE: The exhibit will be so
17	marked.
18	(EXHIBIT MARKED FOR IDENTIFICATION.)
19	EXAMINER SEE: Please raise your right

20	hand, Mr. Godfrey.
21	(Witness sworn.)
22	EXAMINER SEE: Thank you
23	Have a seat.
24	
25	

1	
2	JAY F. GODFREY
3	being first duly sworn, as prescribed by law, was
4	examined and testified as follows:
5	DIRECT EXAMINATION
6	By Mr. Nourse:
7	Q. Good afternoon, Mr. Godfrey. Could you
8	state your full name for the record, please?
9	A. Jay F. Godfrey.
10	Q. By whom are you employed and in what
11	capacity?
12	A. American Electric Power Service
13	Corporation. I'm currently the managing director of
14	renewable energy.
15	Q. Do you have a copy of the exhibit we just
16	marked as No. 9?
17	A. If you're referring to my prefiled
18	testimony, yes, I do.
19	Q. Yes. Is that your testimony was that

- 20 prepared by you or under your direction?
- A. Yes, it was.
- Q. Do you have any corrections, additions,
- 23 or changes you'd like to make this afternoon?
- A. No, I do not.
- Q. If I were to ask you all the questions in

1	your prefiled testimony today under oath, would your
2	answers be the same?
3	A. They would.
4	Q. Thank you.
5	MR. NOURSE: Your Honor, the companies
6	would move for admission of Exhibit No. 9 subject to
7	cross-examination.
8	EXAMINER SEE: Any cross for Mr. Godfrey
9	Mr. Maskovyak?
10	MR. MASKOVYAK: No, your Honor.
11	EXAMINER SEE: Mr. O'Brien?
12	MR. O'BRIEN: No, your Honor.
13	EXAMINER SEE: Ms. Elder?
14	MS. ELDER: No, your Honor.
15	EXAMINER SEE: Mr. Etter?
16	MR. ETTER: Yes, just a few questions,
17	your Honor.
18	
19	CROSS-EXAMINATION

- 20 By Mr. Etter:
- Q. Good afternoon, Mr. Godfrey. My name is
- 22 Terry Etter, and I'm with the OCC.
- On pages 4 and 5 of your prefiled
- 24 testimony you mention three specific wind projects
- 25 owned by AEP, Fort Davis, Trent Mesa and Desert Sky.

- 1 The Fort Davis project has been decommissioned; is
- 2 that right?
- 3 A. That's correct.
- 4 Q. And the output from Trent Mesa and Desert
- 5 Sky is sold to unaffiliated utilities under long-term
- 6 contracts?
- 7 A. That's correct.
- 8 Q. How long do these contracts run?
- 9 A. These are long-term contracts that are
- 10 subject to confidentiality provisions. They're both
- 11 located in Texas and so are not affiliated with the
- 12 AEP companies.
- Q. Does AEP have any wind projects that it
- 14 uses for its own purposes?
- 15 A. If by "AEP" you refer to the AEP family
- 16 of companies, yes, we do.
- 17 Q. Are there any specifically in use in
- 18 Ohio?
- 19 A. No, there are not.

- Q. I believe in a discovery response it was
- 21 mentioned that there were projects in Ohio, Indiana,
- 22 West Virginia, Virginia, and Michigan basically for
- 23 the familiarity of AEP personnel to wind projects.
- 24 Are those still in operation?
- MR. NOURSE: Mr. Etter, could you

- 1 indicate which discovery response you're referring
- 2 to, please?
- 3 MR. ETTER: Okay.
- 4 EXAMINER SEE: And also please speak up,
- 5 Mr. Etter, or move the mic closer to you.
- 6 MR. ETTER: Yes, it was in response to
- 7 interrogatory No. 9-281.
- 8 MR. NOURSE: Thank you.
- 9 A. Could you repeat the question?
- 10 Q. Yeah. In response to the
- 11 interrogatory -- I'll read the response. It says:
- 12 "As part of the program to familiarize AEP System
- 13 companies and their customers with distributed
- 14 generation devices, five 10-kilowatt wind turbines
- 15 were installed in 200 at several AEP System Sites in
- 16 Ohio, Indiana, West Virginia, Virginia, and
- 17 Michigan."
- 18 A. Now I recall the context.
- 19 Q. Are those still in operation?

- A. There are still a few that are still in
- 21 operation. I am aware of one of them that is still
- 22 in operation in Fort Davis. We did donate one or
- 23 more of those to other entities. I believe one was a
- 24 technical school. One of the ones in, I think it was
- 25 West Virginia, it was to a technical school. But

- 1 since that time the companies gained vast experience
- 2 elsewhere with utility deployments.
- Q. On page 7 of your testimony you discuss
- 4 renewable energy certificates; how are those used?
- 5 A. Well, renewable energy certificates are
- 6 used typically in states that have renewable
- 7 portfolio standards to represent or affirm that you
- 8 have a specific amount of renewable energy. So it's
- 9 a compliance type mechanism.
- Q. And on page 11 you state that: "AEP-Ohio
- 11 will likely have a need to satisfy a portion of its
- 12 renewable energy obligations by using RECs purchased
- 13 from the broker market." Why is that?
- 14 A. Yes, that's correct. I believe in my
- 15 testimony I refer to the fact that during this
- 16 three-year ESP period we have a requirement that is
- 17 increasing under Senate Bill 221.
- 18 At the same time we in the middle of this
- 19 year went out for proposals. We are in the

- 20 short-list process getting ready to sign at least one
- 21 of those contracts, and that would be for a project
- 22 that gets constructed next year, and so by definition
- 23 if it gets constructed next year and gets put in
- 24 service maybe by the end of next year, you wouldn't
- 25 have any production or RECs in 2009 to satisfy the

- 1 requirements under 221, but you would have production
- 2 and RECs because they're bundled to satisfy the
- 3 requirements in 2010 and 2011.
- 4 Does that help?
- 5 Q. Well, what portion of the obligation will
- 6 likely involve purchased RECs?
- A. We're estimating substantially all of it
- 8 in 2009.
- 9 Q. And how about beyond 2009?
- 10 A. We do not expect that we will need to
- 11 purchase RECs on the open market to meet subsequent
- 12 obligations during the ESP period.
- Q. Does AEP currently have any RECs that
- 14 could be used to satisfy at least a portion of
- 15 renewable obligations, renewable energy obligation?
- 16 A. Yes, it does. AEP-Ohio specifically has
- 17 some RECs left over from its green tariff.
- 18 Q. And do you have an estimate as to what
- 19 portion of the obligation those might be used to --

- 20 for the renewable energy obligation?
- 21 EXAMINER SEE: Speak up, please,
- 22 Mr. Etter.
- MR. ETTER: I'm sorry.
- Q. What portion of those that AEP currently
- 25 has, of the RECs AEP currently has, could be used --

- 1 what portion would those RECs -- what portion of the
- 2 renewable energy obligation would those RECs satisfy?
- 3 I'm sorry.
- 4 A. Sure. I believe the question of how much
- 5 will we have left over at the end of this year and
- 6 then how much will we need to go out into the broker
- 7 market to satisfy what we will need to meet the 2009
- 8 obligations, this is only an estimation because I do
- 9 not know what the final figures are under the green
- 10 tariff. But I think we'll have approximately 25,000
- 11 RECs leftover, and that's just a very rough estimate,
- 12 and a total obligation of approximately a hundred
- 13 thousand for the entire year of 2009. So that would
- 14 leave us short about 75,000. And again, this is very
- 15 approximate. It gives you an order of magnitude.
- 16 Q. Thank you.
- Now, on page 7 of your testimony you
- 18 mention that AEP entered into a long-term agreement
- 19 to purchase in the neighborhood of 4.6 million

- 20 emission reduction offsets. How will those offsets
- 21 be used?
- A. Well, I believe I handled that in the
- 23 response. If you can give me a moment -- do we want
- 24 to talk about the OCC request? Was there a question
- 25 that was pretty close to that?

- 1 Q. Yeah. But if you can -- if you want to
- 2 take a moment and find it, that would be fine.
- 3 A. Sure. Thank you.
- 4 I think I found it. This is a question
- 5 that is similar to interrogatory request 9-287, if I
- 6 could refer to that. But the agreement that I
- 7 referred to in my prefiled testimony related to a
- 8 long-term agreement to purchase carbon offsets,
- 9 emission reduction credits, and it was entered into
- 10 on behalf of AEP Service Corp, on behalf of all of
- 11 the operating companies.
- This is an agreement that does not come
- 13 into play until 2010, and we have not, one, we
- 14 haven't paid for any of these yet because it's pay
- 15 upon delivery, but two, we haven't figured out how
- 16 we're going to allocate these amongst the operating
- 17 companies.
- The 4.6 million credits was an aggregate
- 19 over the life of the contract, so it's substantially

- 20 less, you know, credits on an annual basis. So you
- 21 have a subset of 4.6 million and then you have -- we
- 22 have seven regulated operating companies.
- Q. Now, that would be over a period of eight
- 24 years; is that correct?
- A. That's correct.

- 1 Q. Do you anticipate that any of these
- 2 offsets will be used to meet AEP-Ohio's renewable
- 3 energy obligation?
- 4 A. Under my reading of Senate Bill 221,
- 5 these credits do not qualify under that. This is
- 6 more of a carbon mitigation plan, you know, that the
- 7 company has undertaken.
- 8 Q. Now, on page 17 of your direct testimony
- 9 you state that the O&M renewable prices offered as
- 10 part of AEP's RFP was approximately \$80 per
- 11 megawatt-hour for nonsolar resources and \$300 per
- 12 megawatt-hour for solar resources. Do you see that?
- 13 A. Yes.
- Q. What percentage of the \$80 per megawatt
- 15 hour price for nonsolar resources do you believe is
- 16 the REC value?
- 17 A. Well, if you look at the price -- and
- 18 when I'm referring to the \$80, that would be for the
- 19 all-in price of wind. When you look at that price,

- 20 there's three components. There's the energy value
- 21 which is, you know, in most cases throughout the
- 22 country is the highest value of a bundled price.
- 23 You've got a little bit of capacity value in this, as
- 24 Witness Castle told you that wind is currently
- 25 allocated approximately at 13 percent capacity value,

- 1 so a hundred megawatt wind farm would have
- 2 13 megawatts of capacity value because of the
- 3 coincidence of the wind production vis-a-vis our peak
- 4 load. So you've got a little bit of capacity value,
- 5 a lot of energy value, and then the rest of it by
- 6 definition I guess would be your imputed REC price.
- 7 So if -- again, not knowing exactly what
- 8 the market price of energy is, but if the market
- 9 price of energy is \$50 next year and capacity value
- 10 is \$55, and these are all hypotheticals, and we're
- 11 paying \$80, then, you know, 80 minus 55 would be \$25.
- Q. And is that pretty typical, do you think,
- 13 of what the market does?
- 14 A. Well, the market price for wind energy is
- 15 very resource dependent, and so the market price I'm
- 16 paying for wind in, say, Oklahoma and Texas is going
- 17 to be substantially cheaper, I mean, very much close
- 18 to the market price of energy, whereas the farther
- 19 you move away from the very windy areas in the United

- 20 States, the higher the break-even cost, you know, for
- 21 a bundled product would have to be.
- And so, you know, subtracting out the
- 23 energy value -- which differs by regions, you know,
- 24 your REC prices are going to get bigger.
- MR. ETTER: That's all the questions I

have. Thank you, Mr. Godfrey. 2 EXAMINER SEE: Mr. Randazzo, did you have questions for this witness? 4 MR. RANDAZZO: No questions. 5 EXAMINER SEE: Mr. Kurtz. 6 MR. BOEHM: Mr. Boehm. 7 EXAMINER SEE: I'm sorry, Mr. Boehm. MR. BOEHM: You've just made me about ten 8 years younger. Thank you. 10 I have no questions. Thanks. 11 EXAMINER SEE: Mr. White? MR. WHITE: No questions, your Honor. 12 13 EXAMINER SEE: And Mr. Margard. 14 MR. MARGARD: No questions, your Honor, thank you. 15 16 EXAMINER SEE: Mr. Nourse, any redirect? 17 MR. NOURSE: No questions, thank you. 18 THE WITNESS: Thank you.

EXAMINER SEE: Thank you.

19

- Are you ready to go to the next witness,

 21 Mr. Resnik?
- Can you give me five minutes?
- MR. RESNIK: Whatever.
- EXAMINER SEE: Let's go off the record.
- 25 (Discussion off the record.)

1	EXAMINER SEE: Let's go back on the
2	record.
3	MR. NOURSE: Your Honor, can I renew my
4	motion to admit Exhibit No. 9, please?
5	EXAMINER SEE: Is there any objection to
6	the admission of Companies' Exhibit 9?
7	Hearing none, Companies' Exhibit 9 is
8	admitted into the record.
9	MR. NOURSE: Thank you, your Honor.
10	(EXHIBIT ADMITTED INTO EVIDENCE.)
11	EXAMINER SEE: Let's go off the record.
12	(Recess taken.)
13	EXAMINER BOJKO: Let's go back on the
14	record.
15	Mr. Resnik, would you like to call your
16	next witness?
17	MR. RESNIK: Companies call Mr. Greg
18	Earl.
10	FXAMINER ROIKO: Mr. Farl. please raise

- 20 your right hand.
- 21 (Witness sworn.)
- MR. RESNIK: I have marked as Companies'
- 23 Exhibit No. 10 the Prefiled Direct Testimony of
- 24 Mr. Earl.
- 25 EXAMINER BOJKO: Ten?

1	MR. RESNIK: Ten.
2	EXAMINER BOJKO: The testimony will be so
3	narked.
4	(EXHIBIT MARKED FOR IDENTIFICATION
5	
6	GREGORY A. EARL
7	being first duly sworn, as prescribed by law, was
8	examined and testified as follows:
9	DIRECT EXAMINATION
10	By Mr. Resnik:
11	Q. Please state your name for the record.
12	A. My name is Gregory A. Earl.
13	Q. Mr. Earl, do you have before you a copy
14	of what's been marked as Companies' Exhibit No. 10?
15	A. Yes, I do.
16	Q. Can you identify that exhibit for the
17	record?
18	A. That would be my direct testimony filed
19	in this case.

- Q. Are there any corrections that need to be
- 21 made to your prefiled testimony?
- A. No, there are not.
- Q. If I were to ask you the questions that
- 24 appear in Companies' Exhibit No. 10, would your
- 25 answers be the same as they appear in the testimony?

1	A. Yes, they would be the same.	
2	Q. Thank you.	
3	MR. RESNIK: Your Honor, no further	
4	questions for Mr. Earl. He is available for	
5	cross-examination.	
6	EXAMINER BOJKO: Okay. Did we have a	
7	volunteer to begin? Mr. Randazzo.	
8	MR. RANDAZZO: Yes, just a couple of	
9	questions if I might.	
10		
11	CROSS-EXAMINATION	
12	By Mr. Randazzo:	
13	Q. Mr. Earl, how are you?	
14	A. Good, thank you.	
15	Q. If you would turn to page 5 of your	
16	testimony, please, which is Companies Exhibit No	
17	MR. RESNIK: 10.	
18	MR. RANDAZZO: 10. Thank you. Sorry.	
19	A. I'm there.	

- Q. You discuss the reasons why you've asked
- 21 line extension charges be addressed in this
- 22 proceeding. Are you familiar with the Commission's
- 23 rules that have been issued on line extensions?
- A. Yes, I am familiar with them.
- Q. And were those rules published after you

- prepared your testimony?
 A. Yes, they were.
- Q. Okay. You haven't addressed the effects
- 4 of the rules on your recommendations here, have you?
- 5 A. No, I have not.
- 6 MR. RANDAZZO: Thank you. That's all I
- 7 have.
- 8 EXAMINER BOJKO: Okay.
- 9 Mr. Boehm, you have no questions?
- 10 MR. BOEHM: No questions, your Honor.
- 11 EXAMINER BOJKO: Mr. White?
- MR. WHITE: No questions, your Honor.
- 13 EXAMINER BOJKO: Mr. O'Brien?
- MR. O'BRIEN: Thank you, your Honor.
- 15 Contrary to my previous assertions, I do have one
- 16 question for this witness.
- 17 EXAMINER BOJKO: Could you speak up a
- 18 little bit, please.
- MR. O'BRIEN: Maybe I better turn on this

20	here	microp	hone

21 ---

22 CROSS-EXAMINATION

- 23 By Mr. O'Brien:
- Q. Good afternoon, Mr. Earl. My name is Tom
- 25 O'Brien. I'm representing the Ohio Hospital

- 1 Association in this proceeding.
- A. Good afternoon.
- Q. I have one question for you.
- 4 A. Okay.
- 5 Q. Could you please turn to page 12 of your
- 6 testimony, and the bullet point at the top of that
- 7 page starting on line 1.
- 8 A. I'm there.
- 9 Q. At the bottom of that bullet point the
- 10 sentence says: "In addition, the project will be
- 11 charged 100 percent, plus tax gross up of any premium
- 12 costs required by the customer."
- Could you please give me an idea of what
- 14 would constitutes a premium cost?
- 15 A. Sure. Generally our distribution
- 16 construction would involve overhead facilities. A
- 17 good example of premium costs might be the request by
- 18 the customer to construct line extension facilities
- 19 underground.

- Q. So would it be fair to say -- I'm sorry
- 21 this is a second question. Would it be fair to say
- 22 that a premium cost would be a cost incurred because
- 23 the customer requests facilities that would be
- 24 different than those proposed by the company for the
- 25 same service?

1	A. The distinction to answer your
2	question, let me just start off by describing when we
3	receive a service request, our starting point is a
4	basic service plan, which generally would be the
5	least-cost plan to meet the needs that the customer
6	has requested. If that basic service plan, if
7	there's something different than that basic service
8	plan the customer wants, that would drive the cost of
9	the plan higher. Those costs would be premium
10	service costs.
11	MR. O'BRIEN: Thank you, Mr. Earl.
12	That concludes my cross-examination, your
13	Honor.
14	EXAMINER BOJKO: Mr. Earl, doesn't AEP
15	currently have in place line extension policies that
16	would define what premium service is?
17	THE WITNESS: Yes.
18	EXAMINER BOJKO: Maybe it would be
19	helpful if you tell us what that definition is.

- THE WITNESS: I don't know if I have the
- 21 definition in front of me, though I believe -- well,
- 22 give me a second to look.
- I guess if I could go back to the
- 24 explanation I gave Mr. O'Brien, is that with respect
- 25 to line extensions we have a basic service cost and a

- 1 premium service cost, and the basic service cost
- 2 would be generally the least-cost method for
- 3 providing the service that the customer has
- 4 requested.
- 5 EXAMINER BOJKO: But in your tariff
- 6 schedules there is a specific definition for premium
- 7 service, isn't there? How about this, didn't the
- 8 Commission order or approve I guess a settlement that
- 9 would have contained the definition of premium
- 10 services in 01-2708?
- 11 THE WITNESS: We approved a settlement at
- 12 the time. I'm struggling and I really should know
- 13 this, whether there was a specific definition of what
- 14 premium service costs were.
- 15 EXAMINER BOJKO: I'm not trying to be
- 16 tricky, but the company does have a policy --
- 17 THE WITNESS: I understand. Yes, we do.
- 18 EXAMINER BOJKO: I just wanted to make
- 19 that clear from Mr. O'Brien's questions.

25

20	Let's go to Ms. Elder. Do you have any?
21	MS. ELDER: No questions, your Honor.
22	EXAMINER BOJKO: All right. Let's go to
23 O	CC.
24	

1	CROSS-EXAMINATION
2	By Mr. Idzkowski:
3	Q. Yes, hi, Mr. Earl.
4	A. Good afternoon.
5	Q. I have a few questions about your
6	testimony. You testify on page 3 in your testimony
7	that: "Generally, customers are required to pay a
8	Contribution in Aid of Construction toward the cos
9	of local facilities since they're uniquely benefiting
10	from the construction of such facilities." Correct?
11	A. That's correct.
12	Q. Does AEP also benefit from the
13	construction of such facilities?
14	A. Sure. We benefit from having an
15	additional customer on our system, an additional
16	plant in service, absolutely.
17	Q. Okay. And you state I think in your
18	testimony regarding residential basic up-front

19 residential line extension charges, you say those

- 20 should go up; is that correct?
- MR. RESNIK: I'm sorry, do you have a
- 22 page reference?
- MR. IDZKOWSKI: Yeah. Page 6.
- MR. RESNIK: Thank you.
- Q. There's a chart. Do you have your

- 1 testimony there?
- A. Yes, I do.
- 3 EXAMINER BOJKO: Could you maybe turn you
- 4 your microphone on?
- 5 MR. IDZKOWSKI: Off?
- 6 EXAMINER BOJKO: On. I don't think it's
- 7 on.
- 8 MR. RANDAZZO: I didn't know we could
- 9 request they be turned off.
- 10 EXAMINER BOJKO: I did request that for
- 11 Mr. Boehm or Mr. Bell's clicking the other day.
- MR. IDZKOWSKI: I'll try to sit closer or
- 13 speak up.
- 14 Q. (By Mr. Idzkowski) Did you find that on
- 15 page 6, Mr. Earl?
- 16 A. On page 6, yes.
- 17 Q. So according to this chart, single-family
- 18 development -- that's a dwelling then, correct, a
- 19 single-family dwelling in a development?

- A. Yes, in a development.
- Q. It's going to go from \$375 per lot, and
- 22 if you turn the page one page to page 7, your chart
- 23 says that's going to go up to \$500 per lot.
- A. That's correct.
- Q. So it's going to go up a third, right,

- 1 \$125?
- 2 A. That's correct.
- Q. And in the second line, multifamily
- 4 projects, that would be a condo or apartment building
- 5 or something.
- 6 A. That's correct.
- 7 Q. And that's going to go from a hundred to
- 8 \$200 so that's going to go up a hundred percent.
- 9 A. That's correct.
- Q. And then a single-family dwelling not in
- 11 a development, that would be a house, a single-family
- 12 house away from a development then, correct?
- 13 A. Yes.
- Q. And that's going to go up 33 percent,
- 15 that's going to go up \$125, correct?
- 16 A. Yes, that's correct.
- Q. And you state in your testimony that the
- 18 justification for the increase in charges that a
- 19 major -- I think you call it an underlying driver --

- 20 is the significant increase in material costs,
- 21 namely, steel, copper, and aluminum, correct?
- A. That's correct.
- Q. So these changes in materials have caused
- 24 AEP to request this increase. You're an engineer,
- 25 correct?

- 1 A. Yes, I am.
- Q. You're not a financial or a commodities
- 3 expert?
- 4 A. No, I'm not a financial or commodities
- 5 expert, but I have been involved with this line
- 6 extension issue since its inception in 2001 and was
- 7 involved in the negotiations that took place to
- 8 establish the figures that we're dealing with today
- 9 and was familiar with what the cost of providing
- 10 service to single-family developments, multifamily
- 11 developments and so forth and have had the ability to
- 12 watch the prices --
- Q. The prices of these materials?
- 14 A. Well, prices of the projects on a per-lot
- 15 basis or a per-unit basis to escalate substantially
- 16 since the original charges were put in place.
- 17 Q. Okay. But you're not -- would you say
- 18 you're an expert on the price of metals?
- 19 A. I'm not an expert on the price of metals.

- 20 I consider myself an expert on this particular
- 21 subject, and that's why I'm here today.
- Q. Sure. But then you track the price of
- 23 these metals, aluminum, copper, steel, correct?
- A. No, I do not.
- Q. You do not? Where did you get your

- 1 information that they've gone up?
- 2 A. I think you'll find in Mr. Boyd's
- 3 testimony there's an exhibit that he references that
- 4 shows the escalation of prices in those commodities
- 5 and, you know, that was brought out in my testimony
- 6 as a matter of explanation.
- What my observation particularly was
- 8 relevant to, is the fact that these projects --
- 9 project costs have escalated substantially, and I
- 10 brought in with that observation so that it wouldn't
- 11 just stand alone what the cause may have been. And I
- 12 believe I reference the fact that there are, you
- 13 know -- there's the commodity price increases that
- 14 you would see in Mr. Boyd's testimony and --
- Q. Well, on page 7, if you can look at lines
- 16 8 to 12, the reason I'm asking you these questions is
- 17 because you're just -- on page 7 in those lines I
- 18 think you say: "The underlying driver in these
- 19 project costs increases is the sharp increase in

- 20 material costs over the last several years. Steel,
- 21 copper and aluminum prices have soared."
- So you're testifying about steel, copper,
- 23 and aluminum prices generally, correct, on that line?
- A. I'm testifying about from line 8 to line
- 25 9 the underlying driver of these project cost

- 1 increases is the sharp increase in material costs
- 2 over the last several years.
- Q. Yes.
- 4 A. Transformers, conductors, all the other
- 5 items that go into the construction of a line
- 6 extension.
- 7 Q. Well, to begin, these raw material prices
- 8 have directly impacted AEP's cost. So are you
- 9 familiar with what the raw material prices are for
- 10 metal -- now for metal, copper, or steel?
- 11 A. No more familiar than I am by looking at
- 12 the exhibit that was presented in Mr. Boyd's
- 13 testimony.
- Q. So you can't say if they've gone down
- 15 which, in fact, they have; is that correct?
- MR. RESNIK: Excuse me, can I have that
- 17 question read back, please?
- 18 EXAMINER BOJKO: You may.
- 19 (Record read.)

- MR. RESNIK: Well, I'll object to counsel
- 21 testifying. If he wants to end the sentence before
- 22 the "in fact they have" --
- MR. IDZKOWSKI: I'll strike that part of
- 24 it.
- 25 EXAMINER BOJKO: How about you rephrase

- 1 the question.
- Q. Are you aware that they have? Are you
- 3 aware if they have?
- 4 A. Can you give me a complete question?
- 5 Q. Yes. Are you aware if copper prices have
- 6 fallen since your testimony --
- A. I am not aware.
- 8 Q. -- was written?
- 9 A. I am not aware of that.
- 10 Q. You're not?
- 11 A. No.
- Q. Are you aware that aluminum prices
- 13 evidently have fallen since your testimony?
- 14 A. I'm not aware of that either.
- Q. Or steel prices.
- 16 A. I'm not aware of that either.
- 17 Q. Are you aware of any way that the current
- 18 national and worldwide financial downturn has
- 19 affected the outlook for prices for coal and aluminum

- 20 and steel?
- 21 THE WITNESS: I'm sorry, could you reread
- 22 his question, please?
- 23 (Record read.)
- 24 EXAMINER BOJKO: Mr. Resnik.
- MR. RESNIK: Your Honor, I'm going to

- 1 object, at least to the portion of the question
- 2 concerning coal. Second of all, I'm going to object
- 3 because I think the question mischaracterizes the
- 4 witness's testimony.
- 5 EXAMINER BOJKO: I think I just heard the
- 6 witness say he didn't know as a response to all the
- 7 previous questions, so I think it's going to be
- 8 sustained. I don't think coal was asked before so
- 9 you may ask specific to coal, but that particular
- 10 question's going to be sustained.
- 11 MR. IDZKOWSKI: Your Honor, I misspoke if
- 12 I said coal.
- 13 EXAMINER BOJKO: Okay, then sustained
- 14 permanently in its entirety.
- MR. IDZKOWSKI: If I may approach the
- 16 witness, your Honor.
- 17 EXAMINER BOJKO: You may.
- 18 Q. (By Mr. Idzkowski) Mr. Earl, can you --
- 19 THE WITNESS: Do I have permission to get

- 20 my glasses?
- 21 EXAMINER BOJKO: You may.
- MR. IDZKOWSKI: It is small.
- 23 EXAMINER BOJKO: Could you tell us what
- 24 you just handed the witness while the witness is
- 25 obtaining bifocals?

1	MR. IDZKOWSKI: Yes, I can. It's a
2	printout from a web page of Kitco Corporation. It's
3	a metals retailer. I'm just going to ask him if he's
4	familiar with that.
5	EXAMINER BOJKO: The answer is he already
6	said he wasn't familiar with any of these items, so
7	showing him a document is not going to make him
8	familiar.
9	MR. IDZKOWSKI: Your Honor, he said he
10	was unfamiliar with what? All prices, all matters
11	regarding prices of commodities?
12	EXAMINER BOJKO: What is this document
13	pertaining to?
14	MR. IDZKOWSKI: This document pertains to
15	copper prices.
16	EXAMINER BOJKO: He said copper was one
17	he didn't know about.
18	MR. IDZKOWSKI: He didn't know all
19	right.

- 20 EXAMINER BOJKO: You can't refresh his
- 21 memory if he ever knew about it.
- MR. IDZKOWSKI: No. I was going to ask
- 23 him -- I wasn't going to refresh his memory.
- 24 EXAMINER BOJKO: I think you already
- 25 asked him so sustained.

- 1 MR. IDZKOWSKI: Thank you.
- Q. (By Mr. Idzkowski) Mr. Earl, could you
- 3 take a look at your Exhibit GAE-1, please?
- 4 A. I'm there.
- 5 Q. Thank you. And on the second page of
- 6 that exhibit regarding multifamily, page 1 -- have
- 7 you found that?
- 8 A. Yes.
- 9 Q. There's a blacked-out column on that
- 10 page. Is that column supposed to be identified as
- 11 the number of units?
- 12 A. That's correct.
- Q. If you look at the first few lines, the
- 14 first one lists a two-unit dwelling and that job
- 15 costs \$6,947.
- 16 EXAMINER BOJKO: I'm sorry, which page of
- 17 the exhibit are you on?
- MR. IDZKOWSKI: Page 2.
- 19 EXAMINER BOJKO: Two, thank you.

- MR. IDZKOWSKI: Of Exhibit GAE-1.
- 21 EXAMINER BOJKO: Thank you.
- MR. IDZKOWSKI: It's the second page,
- 23 they're not marked by numbers.
- 24 EXAMINER BOJKO: Thank you. Well, it
- 25 says Multi-Family page 1, right --

- 1 MR. IDZKOWSKI: Yes, it does. Yes.
- Q. (By Mr. Idzkowski) Are you there?
- 3 A. Yes.
- 4 Q. Okay. Do you see where the first local
- 5 facility cost is \$6,947?
- 6 A. Yes.
- 7 Q. And it served two units.
- 8 A. Presumably a duplex.
- 9 Q. Okay. So that's about half that for
- 10 each. It's about \$2,470 per unit.
- 11 A. I don't think your math is correct.
- 12 Q. I'm sorry, what would it be?
- 13 A. More like 3,450.
- 14 Q. Okay. 3,400. I can't read my own
- 15 writing, \$3,470. And the job on line 2 cost \$15,728.
- 16 A. That's correct.
- Q. And that covered seven units, so that was
- 18 approximately, if I can read my writing, \$2,200 per
- 19 unit.

- A. Sounds about right.
- Q. Okay. And then on the third line, that
- 22 job cost \$29,859.
- A. That's correct.
- Q. And that served 50 units, so roughly
- 25 \$597 apiece.

- 1 A. That's correct.
- Q. Given this wide disparity in costs, why
- 3 is it reasonable to make the lower cost line
- 4 extensions pay the same amount as those who were
- 5 incurring higher costs?
- 6 A. What we were trying for in the concept of
- 7 the line extension program was to -- there was a
- 8 desire to have some price certainty on the part of
- 9 the developers so that they would know going into a
- 10 project what their expected up-front payment was
- 11 going to be. There was a recognition that from one
- 12 project to the next, whether there is 2 units per
- 13 building or 8 units per building or 15 units per
- 14 building, when you're looking at a cost per unit
- 15 there is going to be a wide variation. There are
- 16 going to be -- somewhere a cost per unit is going to
- 17 be significantly higher or lower than others.
- On the average, though, the line
- 19 extension proposal from our standpoint, we were

- 20 trying to have an outcome that places a reasonable
- 21 portion of the line extension cost on the part of the
- 22 developer, so it's a shared responsibility between
- 23 the developer and the other ratepayers.
- And from the process standpoint, there's
- 25 benefits of having a fixed price program so that the

- 1 developer knows going into the project what their
- 2 contribution is going to have to be.
- Q. Can you take a look at your testimony
- 4 starting on page 11, please? There you're talking
- 5 about nonresidential line extensions and the charges
- 6 for those.
- 7 A. I'm there.
- 8 Q. So AEP is proposing changes in those line
- 9 extension charges also in your testimony, correct?
- 10 A. That's correct.
- 11 Q. And here we have designations in the
- 12 table, in this chart rather, GS-1 and GS-2 and 3 and
- 13 4. What are those GS classifications?
- 14 A. They're in reference to general service
- 15 tariffs for the nonresidential customers. GS-1
- 16 customers would generally be a customer less than 10
- 17 kW demand, and they're a nondemand customer. The
- 18 other two categories are GS-2, 3, and 4 are customers
- 19 who were greater than 10 kW demand served at the

- 20 distribution level, and that third category is GS-3
- 21 and 4, they're transmission level service customers,
- 22 transmission voltage services.
- Q. Can you give us an example of a GS-1?
- A. You know, GS-1 might be a barbershop in a
- 25 strip shopping center, a small commercial entity.

- 1 Q. Okay. What would a McDonald's be?
- A. Would probably be a 2, 3, or 4 -- or 2 or
- 3 3 rather.
- 4 Q. All right. Now, in this chart you're
- 5 proposing the prices -- well, in the testimony --
- 6 A. Not on the chart on page 11 I'm not.
- 7 Q. Well, in your following testimony on page
- 8 12.
- 9 A. Yeah.
- 10 Q. You say: "All nonresidential projects
- 11 will be charged an upfront payment equal to
- 12 40 percent." So you want to increase these
- 13 percentages in this chart on page 11 from, say, a
- 14 GS-1 from 25 to 40 percent.
- 15 A. That's correct. And correspondingly
- 16 lowering the charges for the GS-3 and 4 transmission
- 17 customers from their prior point of a hundred percent
- 18 to 40 percent. What we found and what our experience
- 19 has been over the past seven years in working with

- 20 this program was there are some commercial and
- 21 industrial customers that come in at a certain point
- 22 of demand that they could either take distribution
- 23 service or transmission service, and we were finding
- 24 that the line extension program costs may have been
- 25 influencing them to choose one service option over

- 1 another just as a means of taking advantage of a
- 2 smaller up-front contribution.
- We really felt with that experience that
- 4 we would be better served by having one common
- 5 percentage across the general service group of
- 6 customers, and 40 percent provided us with a, you
- 7 know, with a point where we're somewhat revenue
- 8 neutral, I'll call it, across that broad class of
- 9 customers raising it for the GS-1, 2, and 3
- 10 distribution customers and lowering it for the GS-3
- 11 and 4 transmission customers.
- 12 Q. Just in comparing the residential and
- 13 nonresidential, it's apparent that there's a smaller
- 14 increase, a much smaller increase in some cases for
- 15 the residential -- or rather the nonresidential line
- 16 charges than the residential.
- 17 A. Well, I think you're comparing --
- MR. RESNIK: Excuse me, is there a
- 19 question?

- 20 EXAMINER BOJKO: Was that a question?
- MR. IDZKOWSKI: No. Not yet, no.
- THE WITNESS: I'm sorry.
- Q. Are we shifting -- are there two separate
- 24 pots we're talking about here, two separate amounts,
- 25 or are we somehow shifting line extension costs from

1	nonrogidantial	to residential?
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- A. I don't believe we're shifting it per se.
- 3 If you looked at the derivation of the residential
- 4 line extension charge, one of the premises was that
- 5 when the \$375 was established for single family in a
- 6 development, with respect to our, you know, estimated
- 7 project cost at the time of \$1,300 we -- you do that
- 8 math and the percentage contribution was about
- 9 28 percent.
- And the premise from going to \$500 on the
- 11 residential side was to maintain that percentage
- 12 contribution at 28. I think the figure is
- 13 28.8 percent. So we were maintaining that same
- 14 percentage contribution on the part of the
- 15 residential single-family development just reflecting
- 16 the fact that the price of materials were increasing
- 17 and the project costs were increasing.
- 18 And I -- I'll stop there.
- 19 Q. You're finished with your answer?

- 20 A. Yes.
- Q. Okay. Thank you. Just so I'm sure and
- 22 just to back up a bit, your information regarding
- 23 metals prices, copper, aluminum, steel that you
- 24 talked about, that's information you got from who?
- A. I believe I said that the chart in

- 1 Mr. Boyd's testimony was the chart that I was looking
- 2 at.
- Q. And you did no independent -- to support
- 4 your testimony about the need for line extension
- 5 charge increases, you've done no independent research
- 6 or study or you've not looked on line or anything to
- 7 know what the prices are currently this day that
- 8 we're testifying of these metals, correct?
- 9 A. That's correct.
- MR. IDZKOWSKI: Thank you. I have no
- 11 further questions.
- 12 EXAMINER BOJKO: But you did do an
- 13 analysis of what the projects actually cost.
- 14 THE WITNESS: Absolutely. That was my
- 15 fundamental analysis, was to look at the changes in
- 16 the project costs.
- 17 EXAMINER BOJKO: And you took an average
- 18 from those costs to get the 500.
- 19 THE WITNESS: Right.

- 20 EXAMINER BOJKO: And the 900 -- is it
- 21 900?
- THE WITNESS: Well, the multifamily is a
- 23 \$200 contribution and the single-family is a
- 24 \$500 contribution.
- 25 EXAMINER BOJKO: Did anybody else have

1	any questions?
2	Oh, staff, did you have any questions?
3	MR. MARGARD: No, thank you, your Honor.
4	
5	EXAMINATION
6	By Examiner Bojko:
7	Q. I have one more question, Mr. Earl.
8	Could you turn to page 5 of your testimony? I need
9	you to clarify the timing or the dates or what's
10	currently in effect. On page 5 on the first bullet
11	you seem to say that the up-front contributions from
12	developers for single family ended on 12/31/07, but
13	then on the next page in the chart you say these are
14	the current line extension charges for Ohio Power and
15	CSP for residential projects. Is that date correct,
16	'07, or is this still the program that you're
17	using today for '08?
18	A. Yeah. Let me clarify that. On page 5 of
19	the testimony, that first bullet point, for Ohio

- 20 Power the up-front payment for single family in a
- 21 development expired on 12/31/07. The surcharges also
- 22 expired on 12/31/07, but then we came back to the
- 23 Commission in early '08 and asked for an extension of
- 24 those.
- The Columbus Southern Power program is

- 1 still in place set to expire at the end of 2008 with
- 2 respect to surcharges and the up-front payment
- 3 associated with single-family development.
- 4 Q. And I guess I'm assuming that the
- 5 Commission approved that application that you said --
- 6 A. Yes.
- 7 Q. -- to extend the Ohio Power.
- 8 A. The extension of the collection of
- 9 surcharges for Ohio Power, yes.
- 10 Q. But not the up-front payments?
- 11 A. That was not requested.
- Q. Well then on page 6 on your chart when
- 13 you say what are the current line extension charges,
- 14 the up-front payment would not be 375 for the Ohio
- 15 Power?
- 16 A. That would be clearer, yes.
- 17 Q. And to your knowledge do the rules
- 18 adopted by the Commission a few weeks ago address the
- 19 line extension policies for both residential and

- 20 nonresidential customers?
- A. To my knowledge, they do.
- Q. And is it your understanding that when
- 23 those rules become effective, that AEP would no
- 24 longer need specific line extension policies in place
- 25 as you've proposed in your application?

1	A. I don't believe that that's true. I
2	mean, my understanding is that, you know, the rules
3	are out there, but then and maybe I'm treading on
4	turf that's not my expertise, but my expectation
5	would be that we file tariffs that are consistent
6	with those rules, and if we propose a program for,
7	say, residential line extensions, the Commission then
8	would be expected to evaluate the consistency of our
9	application with what the content of those rules are.
10	EXAMINER BOJKO: Thank you.
11	Any redirect, Mr. Resnik?
12	MR. RESNIK: Just very short, your Honor.
13	
14	REDIRECT EXAMINATION
15	By Mr. Resnik:
16	Q. Mr. Earl, when you were talking about
17	nonresidential customers, and I think you were saying
18	that some choose between taking distribution service
19	or transmission service

- 20 A. Yes.
- Q. -- are you talking about choosing between
- 22 distribution -- excuse me -- taking service at a
- 23 distribution level voltage or a transmission level
- 24 voltage?
- 25 A. Yes.

1	MR. RESNIK: Thank you.
2	EXAMINER BOJKO: Thank you for that
3	clarification.
4	Anybody on that limited clarification,
5	does anyone have recross?
6	Okay, thank you, Mr. Earl.
7	THE WITNESS: Thank you.
8	MR. RESNIK: Your Honor, companies move
9	for the admission of Companies' Exhibit No. 10.
10	EXAMINER BOJKO: Any objection to the
11	admission of Mr. Earl's testimony?
12	Hearing none, it will be admitted.
13	MR. RESNIK: Thank you.
14	(EXHIBIT ADMITTED INTO EVIDENCE.)
15	EXAMINER BOJKO: Would you like to move
16	on to your next witness, Mr. Resnik?
17	MR. NOURSE: Your Honor, companies would
18	call Karl Boyd to the stand.
19	EXAMINER BOJKO: Mr. Boyd, please raise

- 20 your right hand.
- 21 (Witness sworn.)
- MR. NOURSE: Your Honor, the companies
- 23 would mark as Exhibit No. 11 the Prefiled Testimony
- 24 of Karl G. Boyd.
- 25 EXAMINER BOJKO: It will be so marked.

1	(EXHIBIT MARKED FOR IDENTIFICATION.)
2	
3	KARL G. BOYD
4	being first duly sworn, as prescribed by law, was
5	examined and testified as follows:
6	DIRECT EXAMINATION
7	By Mr. Nourse:
8	Q. Good afternoon, Mr. Boyd. Could you
9	state your full name for the record.
10	A. Karl G. Boyd.
11	Q. And by whom are you employed, and in what
12	capacity?
13	A. I'm employed by American Electric Power
14	Service Corporation as the vice president of
15	distribution operations for Ohio Power and Columbus
16	Southern Power.
17	Q. Do you have a copy of the exhibit that
18	was just marked Companies' Exhibit No. 11?
19	A. Yes.

- Q. Is that your direct testimony prepared by
- 21 you or under your direction in this case?
- A. Yes, it is.
- Q. Do you have any corrections, additions,
- 24 or changes you'd like to make this afternoon?
- A. No, I don't.

1	Q. If I were to ask you all the questions
2	contained in your testimony, would your answers be
3	the same under oath today?
4	A. Yes, they would.
5	Q. Thank you.
6	MR. NOURSE: Your Honor, companies would
7	move for admission of Exhibit No. 11 into the record
8	subject to cross-examination.
9	EXAMINER BOJKO: It will be so moved.
10	Do we have any volunteers to go first?
11	MR. REESE: Yes, your Honor.
12	EXAMINER BOJKO: Mr. Reese.
13	MR. REESE: Lead counsel just said I
14	wanted to go first.
15	
16	CROSS-EXAMINATION
17	By Mr. Reese:
18	Q. Good afternoon, Mr. Boyd.
19	EXAMINER BOJKO: She's working the Roush

- 20 angle not going on until Monday.
- MR. REESE: I understand.
- 22 Q. Mr. Roush, I'm --
- 23 EXAMINER BOJKO: Mr. Boyd.
- MS. GRADY: You can do Roush if you want.
- 25 THE WITNESS: I won't be very responsive

- 1 to his questions.
- Q. Good afternoon, Mr. Boyd.
- 3 A. Good afternoon.
- 4 Q. I'm looking at page 2 of your testimony,
- 5 looking down around lines 19 through 21. Your
- 6 responsibilities include overseeing AEP Ohio's
- 7 distribution system vegetation management program,
- 8 asset management programs, reliability programs, and
- 9 major capacity programs; is that correct?
- 10 A. Yes.
- 11 Q. Now, you also ensure that these different
- 12 plans that the company implements comply with the
- 13 Commission's Electric Service and Safety Standards;
- 14 is that correct?
- 15 A. That's correct.
- MR. REESE: Your Honor, I wanted to
- 17 approach the witness. I want to give him a copy of
- 18 the Commission's rules because I'm going to have
- 19 several questions on those if that's okay.

- 20 EXAMINER BOJKO: Are these the current
- 21 Commission rules?
- MR. REESE: Yes.
- 23 EXAMINER BOJKO: You may --
- MR. REESE: I'm going to ask him
- 25 questions on the current rules. Is that okay?

- 1 EXAMINER BOJKO: Please.
- Q. (By Mr. Reese) Can we look at page 3 of
- 3 your testimony, please, Mr. Boyd. You state here in
- 4 your testimony at lines 3, 4, and 5 that you're
- 5 giving an overview through your testimony of
- 6 AEP-Ohio's current power quality and service
- 7 reliability programs; is that correct?
- 8 A. Yes.
- 9 Q. Now, you have in parens on line 4 what
- 10 you refer to as momentary interruptions, correct?
- 11 A. Yes.
- Q. And momentary interruptions, are those
- 13 measured by MAIFI?
- 14 A. Yes.
- 15 Q. Okay. And can you define what a
- 16 momentary interruption is?
- 17 A. It's an interruption in the electric
- 18 service that lasts less than 5 minutes.
- 19 Q. So anything less than 5 minutes, okay.

- 20 And that's as distinguished from service reliability,
- 21 which would be outages that lasted longer than 5
- 22 minutes?
- A. That's correct.
- Q. Okay. Now, as I understand it, beginning
- 25 at line 6 you discuss the three-year enhanced service

- 1 reliability plan. Is it okay with you if we refer to
- 2 that as the ESRP?
- 3 A. Yes.
- 4 Q. Okay. And that consists of four
- 5 reliability programs; is that correct?
- 6 A. That's correct.
- 7 Q. Now, in terms of this three-year enhanced
- 8 service reliability plan, there are different
- 9 horizons of achievements, goals, if you will, within
- 10 your testimony. Are all of those goals achieved
- 11 within the three years covered by the ESRP, or do
- 12 some of them have longer horizons?
- A. I'm not certain which goals you're
- 14 referring to.
- 15 Q. Maybe I can give you an example. On the
- 16 vegetation management, we'll get into that a little
- 17 bit more in a little while, I believe that you've
- 18 discussed moving somewhat towards more of a
- 19 cycle-based approach and away from the same amount of

- 20 reliance on a performance-based approach, but I
- 21 believe that you've stated that it's going to take a
- 22 number of years, I believe through 2012 or 2013, to
- 23 actually get to where you're on a cycle-based
- 24 program.
- A. What we have in testimony and what we

- 1 filed with the ESP is a three-year program because
- 2 that was the length of the period of the ESP filing.
- What we recommend for vegetation, though, is a
- 4 five-year program which then would move us to a point
- 5 that we could be on a more cycle-based program.
- 6 Q. Okay. Are there some of the other
- 7 programs that you've recommended in here that
- 8 basically take five years to achieve your goals but
- 9 are only -- have the forecasted expenditures for
- 10 three years of the ESRP?
- 11 A. Again, I don't know what you mean by
- 12 "goals." If you mean complete the work or meet the
- 13 reliability improvements that we say, those are
- 14 different end points. But to the last part of your
- 15 question is that -- for example, the URD program, the
- 16 underground cable injection and replacement program,
- 17 is that we envision that as being a ten-year program
- 18 but only describe and cost out the first three years
- 19 of that program.

- Q. Okay. Thank you.
- Now, I believe you and I discussed this
- 22 in your deposition. Can you explain to me the
- 23 difference between circuit miles and line miles?
- A. Yes. For vegetation programs we speak in
- 25 line miles, which is the number of miles that you

- 1 might clear, and some line miles have more than one
- 2 circuit, whereas -- and so we wouldn't count that
- 3 same mile twice because there's two circuits on that
- 4 mile.
- 5 In other situations we refer to circuit
- 6 miles, and that would be identifying each of those
- 7 circuit conductor lengths separately.
- 8 Q. Thank you.
- 9 Looking on page 4 of your testimony at
- 10 lines 6 and 7 you talk about approximately
- 11 "32,000 miles of overhead distribution lines, the
- 12 majority of these lines are located in rural areas."
- 13 Can you tell me what percentage is located in rural
- 14 areas, approximately?
- 15 A. No. I don't have that number off the top
- 16 of my head.
- 17 Q. Can you define "rural" for me?
- 18 A. In this portion of the testimony we're
- 19 speaking to line miles that are in, say, in southeast

- 20 Ohio or line miles that would be through the
- 21 farmlands in western Ohio or around Chillicothe.
- Q. So there's no specific definition of
- 23 rural.
- A. That's correct.
- Q. Okay. Now, on line 12 of your testimony

- 1 on page 4 you discuss the principal causes of service
- 2 interruptions in 2007, excluding events such as major
- 3 storms, that most of those were equipment failures
- 4 and tree-related contacts. Do you know what the
- 5 major causes of service interruptions were during
- 6 major storms?
- A. That depends on the event. If we look at
- 8 Hurricane Ike, the major cause there were high winds.
- 9 If we go back and look at the ice storms of 2004 in
- 10 December or January 2005, the major cause there is
- 11 ice, so it depends on the event.
- 12 Q. Now, you say during the Hurricane Ike
- 13 related windstorms, that the major cause was wind.
- 14 Does that mean it just blew the lines over? Blew
- 15 trees onto the lines?
- 16 A. As we record cause codes is that we try
- 17 to do that in a way that provides the most
- 18 information to do analysis, and we would not code
- 19 when the wind blows more than 60 miles an hour that

- 20 it blew a tree over, and it has a line outage, we
- 21 would record that event as a wind outage.
- Q. So if a large branch or a tree was blown
- 23 onto the wires or if a pole was snapped due to the
- 24 high winds, that wouldn't be differentiated, that
- 25 would just be cause coded to the major storm or the

1	1 1 1	. 10
1	high	wind?
-		,, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

- 2 A. For that situation, yes.
- Q. Now, in line 15 of your testimony on page
- 4 4 you reference equipment failures, and that they
- 5 represent approximately 33 percent of sustained
- 6 nonmajor event outages and tree-related outages
- 7 caused approximately 20 percent.
- 8 Somewhat related to an earlier question,
- 9 do these percentages change during a major event or a
- 10 major storm? Would you still expect roughly
- 11 33 percent of your nonmajor event outages to be
- 12 caused by equipment failures?
- 13 A. Again, it depends on the nature of the
- 14 event. If it was a typical summer event, it could
- 15 cause lightning to overvoltage equipment or directly
- 16 damage equipment. But generally I'd say no, that
- 17 these would reverse, is that we actually see much
- 18 fewer equipment outages during major events, and most
- 19 of those outages are a direct result of wind or ice

- 20 or materials coming into the circuits.
- Q. On line 17 you talk about "Short
- 22 momentary interruptions can also occur when a tree
- 23 branch is blown against a line." Again, that's
- 24 referring to outages of less than 5 minutes, correct?
- A. That particular line is, yes.

- 1 Q. Okay. And I guess that would be another
- 2 reason to focus on some additional vegetation
- 3 management measures, correct?
- 4 A. Yes. And then we're recommending that
- 5 one of the enhancement programs is that we do
- 6 additional vegetation management for the benefit of
- 7 momentary sustained outages and also hardening the
- 8 systems for the more ordinary weather events that we
- 9 have.
- 10 Q. I have a related question. When you have
- 11 a branch or a tree that falls and takes out, just
- 12 snaps or takes down an individual service drop line,
- 13 how do you treat that? Do you dispatch a crew to put
- 14 that back up? How does that work?
- 15 A. Well, if it happens outside of
- 16 significant weather events, that would be the case
- 17 that a customer calls and reports an outage or a wire
- 18 down, is that we would dispatch a single service
- 19 truck to that location to analyze the situation and

- 20 make repairs if that person can by themselves, and if
- 21 repairs would require more than one person, then
- 22 another servicer may join that individual or we may
- 23 call out a crew.
- Q. If you were -- if you dispatched a crew
- 25 to a residence and there was perhaps a series of

- 1 momentary outages that you can see upon inspection
- 2 was caused by maybe a branch that was touching the
- 3 line or whatever, would you trim that branch? Would
- 4 you trim that tree?
- 5 A. The form of your question I believe --
- 6 let me respond to what I think you're asking, is that
- 7 if a servicer was called out and the customer was
- 8 complaining of momentary outages, is that the
- 9 servicer would inspect those facilities and make an
- 10 analysis of what would be necessary to correct that
- 11 situation, and if a limb was in contact with a line
- 12 and had rubbed that line to where it's allowing an
- 13 interruption to occur, is that they would trim that
- 14 limb, yes.
- Q. And they would differentiate that from if
- 16 it was just rubbing the line and not causing any
- 17 service disruption?
- 18 A. It depends on the circumstances, is that
- 19 sometimes they may remove that limb or sometimes they

- 20 may request a customer to remove that limb.
- Q. Now, in the instance that the decision is
- 22 made to not -- for the company not to remove or trim
- 23 that line, what does the company do? Do you
- 24 deenergize the line and have the customer contract to
- 25 have it trimmed? How does that work?

- 1 A. We may. We'd analyze that situation, and
- 2 if it was a small limb, we may remove it, if it would
- 3 be unsafe for the customer, to remove the limb from
- 4 the line. We may trim the tree such that the
- 5 customer could do that or we may deenergize the
- 6 service and lay it on the ground. Depends on the
- 7 circumstance.
- 8 Q. Okay. Let's look at page 5 of your
- 9 testimony. Do you know, looking at your asset
- 10 management programs discussed from line 12 on page 5
- 11 through line 18 on page 6, do these asset management
- 12 programs roughly track what's in the -- referenced in
- 13 the Commission's rules in rule 27, if you know?
- 14 A. Yes, I believe they do.
- Q. Do you know if any of these asset
- 16 management programs changed within the last three to
- 17 four years?
- 18 A. Yes, a couple of them have.
- 19 Q. Do you know which ones?

- A. On the second one there, the Pole
- 21 Inspection and Maintenance Program is that there's
- 22 been a change in that program that we requested. On
- 23 the recloser maintenance program, there's been a
- 24 change on the frequency and added inspection on
- 25 batteries for that program.

- 1 Q. Do you know how many -- do you know what
- 2 the ESSS requirements are for pole inspections, how
- 3 many pole inspections, what percentage you're
- 4 supposed to do each year?
- 5 A. The second bullet on page 5, is that what
- 6 you're referring to?
- 7 Q. Yeah. And I'm thinking of ESSS rule 7 --
- 8 or 27, excuse me. Do you know what that rule
- 9 requires in terms of frequency of pole inspections?
- 10 A. What we filed on that rule is to do pole
- 11 inspections on a ten-year basis.
- Q. So 10 percent of your poles every year?
- 13 A. Well, but there's a qualifier to that, is
- 14 that we inspect poles that have age greater than 20
- 15 years, and it's not necessarily 10 percent of the
- 16 poles each year, but inspect the pole population over
- 17 a ten-year period.
- Q. But is it -- let's look at the rule for a
- 19 second. You have that. I want to look at rule 27.

- 20 It's towards the back.
- A. Do you know what page number it is?
- Q. No. I don't think they have page -- I'm
- 23 not sure. Mine's not marked. But it would be
- 24 1-10-27(D)(1).
- MR. NOURSE: Your Honor, could I peer

- 1 over Mr. Boyd's shoulder here? I don't have a copy
- 2 of them with me.
- 3 EXAMINER BOJKO: Sure.
- 4 A. I see that.
- 5 Q. Okay. Looking at (D)(1), at least 1/5 of
- 6 all distribution circuits and equipment shall be
- 7 inspected annually. I'm not sure, but does -- are
- 8 poles included in that requirement, if you know?
- 9 A. I specifically asked you if you were
- 10 referring to the pole inspection and maintenance
- 11 program on the bottom of page 5, and that program is
- 12 outside of that bullet. That bullet refers to item
- 13 No. 1 on page 5, which is a five-year program.
- Q. So you have a pole inspection and
- 15 maintenance program that's filed to comply with --
- 16 what is that -- (E)(1)(a) below, and then there is a
- 17 separate requirement that you inspect all your poles
- 18 under (D)(1)?
- 19 A. Yeah. We filed our -- the work plan

- 20 under two different components for several years by
- 21 two different categories there, and the conversation
- 22 I had previously was around the pole inspection
- 23 program and not the overhead facility inspection
- 24 program.
- Q. So this is just clarification for me.

- 1 The distribution circuits and equipment inspection
- 2 does or does not include poles under (D)(1)? That's
- 3 a separate issue?
- 4 MR. NOURSE: Your Honor, I would just
- 5 object. The extent Mr. Boyd knows, he can answer,
- 6 but I don't think it's fair to take him through --
- 7 he's familiar with our programs. He's familiar with
- 8 the requirements in general. He oversees the entire
- 9 distribution operation in Ohio. And I don't think we
- 10 need to go through each subsection of the rule and
- 11 try to match it up with particular areas of the
- 12 programs that he discusses in his testimony.
- MR. REESE: Your Honor, Mr. Boyd
- 14 references the ESSS several places in his testimony,
- 15 specific rules and subsections.
- 16 EXAMINER BOJKO: If Mr. Boyd knows, he
- 17 can answer the question.
- Do you know the answer, Mr. Boyd? Do you
- 19 need the question reread?

- A. No. I'm uncertain whether that applies
- 21 to section 27 or section 26, but what I do know is
- 22 that on an annual basis every March we file our work
- 23 plan as to what work was completed against that work
- 24 plan that applies to these rules, and we also file
- 25 the plan for the current year which applies to

- 1 completing these rules.
- Q. Okay. Now I'm looking at line 16 on page
- 3 5 of your testimony. You're discussing the overhead
- 4 circuit facilities inspections, and you discuss here
- 5 that AEP-Ohio, this is at line 17, visually inspects
- 6 its overhead facilities to identify deficiencies and
- 7 potential problems, correct?
- 8 A. Yes.
- 9 Q. Now, this visual inspection, do you know
- 10 approximately what percentage of this is done by
- 11 driving the circuits as opposed to walking or some
- 12 other form of inspection?
- 13 A. The majority of the inspections is done
- 14 by driving in those locations. Where our facilities
- 15 go across country, under our roadways, we would walk
- 16 those line miles.
- 17 Q. Now, as part of your ESRP you've proposed
- 18 some cable injection and cable replacement
- 19 components; is that correct?

- A. That's correct.
- Q. Do you know under your proposed plan, is
- 22 there a higher percentage that you're recommending
- 23 for injection or replacement?
- A. The higher percentage would be for
- 25 injection of residential cable. But when it comes to

- 1 the cable where we're talking about that cable that's
- 2 within the stations or exiting the station, that's an
- 3 underground duct and such, that power cable, we would
- 4 propose replacement.
- 5 Q. Is that because it involves digging?
- 6 A. No. Actually, it's that some cable is
- 7 suitable for injection and some is not. Some doesn't
- 8 have the physical characteristics that allows
- 9 injection to occur.
- Q. At the top of page 7 of your testimony
- 11 you discuss the fact that AEP completes various
- 12 distribution reliability improvements and capacity
- 13 additions, and then you give some examples of some of
- 14 the improvements that have been done during 2007.
- 15 Is there a healthy percentage of this
- 16 that is due to load growth, or is this due to
- 17 overloading, which you reference in the answer at the
- 18 top of page 7?
- 19 A. On an annual basis we look at the

- 20 performance of the distribution systems and analyze
- 21 the previous peak demands, and our strategy is to
- 22 address loading conditions before they reach an
- 23 overload, so these were done to prevent overloads.
- Q. And what are the consequences of an
- 25 overload, substation outage? What would that cause?

1	A. It depends on the magnitude of the
2	overload. There may be no consequence if the
3	duration and the magnitude is small.
4	Q. Looking at question and answer beginning
5	on line 10 on page 7, here where you discuss the
6	distribution vegetation management program.
7	MR. REESE: Your Honor, can I approach
8	the witness?
9	EXAMINER BOJKO: You may.
10	MR. REESE: Your Honor, I'd like to mark
11	this as OCC Exhibit 9.
12	EXAMINER BOJKO: What is this?
13	MR. REESE: It's a interrogatory request,
14	third set. It's 3-50 from OCC.
15	EXAMINER BOJKO: As OCC Exhibit 9?
16	MR. REESE: Yes, ma'am.
17	EXAMINER BOJKO: It will be so marked.
18	(EXHIBIT MARKED FOR IDENTIFICATION.)

Q. (By Mr. Reese) Now, Mr. Boyd, beginning

19

- 20 at line 10 you discuss the distribution management
- 21 program, distribution vegetation management program
- 22 that is part of your ESRP; is that correct?
- 23 A. Yes.
- Q. Now, this is proposed to be an addition
- 25 to the vegetation management programs that the

- 1 company is currently conducting; is that right?
- 2 A. It is intended to be incremental to the
- 3 programs we're conducting, yes.
- 4 Q. So it's additional.
- 5 A. Yes.
- 6 Q. Now, on interrogatory request No. 3-50,
- 7 if I can read it: "To the extent the Company has not
- 8 followed its vegetation management plan as filed with
- 9 the PUCO, what are the reasons for deviation from the
- 10 vegetation management plan and how has each deviation
- 11 been communicated to the PUCO?"
- Your response was: The company has not
- 13 deviated from the vegetation management plan because
- 14 the plan is intended to change as circumstances
- 15 warrant.
- Mr. Boyd, will that be the same with the
- 17 ESRP vegetation management plan?
- MR. NOURSE: Mr. Reese, can I clarify?
- 19 At the beginning of your question I thought you

- 20 referred to page 10, or line 10, page 7 and that
- 21 discussion as being the veg management program as
- 22 part of the ESRP.
- MR. REESE: Well, it is discussing the
- 24 current plan.
- MR. NOURSE: Current plan.

1	MR. REESE: I did jump ahead.
2	MR. NOURSE: Thank you.
3	Q. But let's jump ahead now and talk about
4	the ESRP, which is going forward. Under the ESRP
5	will the company be able to deviate from the plan
6	because the plan is intended to change as
7	circumstances warrant?
8	A. It is our desire to work closely with the
9	PUCO staff to develop that work plan if approved, and
10	it is our, certainly our full intent to complete and
11	spend all the dollars allocated for those programs to
12	do that work.
13	But as we begin that program, as we
14	transition from a performance-based program to a
15	more cycle-based program, we will need to identify
16	what is the best way to move from one program to
17	another, which will require some flexibility, but as
18	we develop that program on an annual basis, we want

19 to work with staff to identify those areas that we

- 20 get the greatest value the quickest for the
- 21 additional resources.
- Q. So the staff would know ahead of time if
- 23 you were deviating from the vegetation management?
- A. We want to work as close with the staff
- 25 as they want us to be, and if they want us to

- 1 identify on an going-forward basis the precise
- 2 circuits and the locations on those circuits where
- 3 we're going to do maintenance, we can do that.
- 4 But I'm also saying that we also need to
- 5 have flexibility in the plan to address current
- 6 issues such that we are not letting some customers
- 7 where we need to do work continue to suffer if we
- 8 have an opportunity to improve that service as well.
- 9 Q. Well, would this plan be filed as part of
- 10 a Rule 27 filing, or would it be a separate tracking,
- 11 or how would that be done?
- 12 A. We're open to doing that in a manner that
- 13 is satisfactory to the Commission.
- Q. So do you see the company as tracking the
- 15 ESRP program separately from your regular vegetation
- 16 management practices and procedures?
- 17 EXAMINER BOJKO: I think you mean ERSP.
- 18 MR. REESE: ESRP.
- 19 EXAMINER BOJKO: Yes, I apologize, ESRP.

- MR. REESE: That's okay.
- A. As we define this ESRP plan as
- 22 incremental, is that we want to have the clarity with
- 23 the staff, as well as that base amount that we
- 24 historically had been spending on vegetation
- 25 management is, to me, very much part of the

- 1 discussion that we have on how those resources are
- 2 allocated as well and how we use those in the plan.
- But, as I say, going forward the plan
- 4 still needs to be performance based to some extent
- 5 such that we continue to address current reliability
- 6 issues for our customers.
- 7 Q. I'll be coming back to that in a little
- 8 bit. Thank you.
- 9 Now, your current vegetation management
- 10 program employs a performance-based approach,
- 11 correct?
- 12 A. Yes.
- Q. By the way, I'm looking at line 3 of your
- 14 testimony on page 8. And one of the selling points
- 15 from the company's perspective of this approach is
- 16 because it's a dynamic and flexible. I see that at
- 17 line 11. Is that correct?
- 18 A. That's correct.
- 19 Q. Now, on line 16 on page 8 of your

- 20 testimony you state that AEP-Ohio will not be able to
- 21 maintain its current level of service at the current
- 22 level of spending on the distribution system; is that
- 23 correct?
- 24 A. Yes.
- Q. Now, was this true in the past, in other

- 1 words, let's say in 2004, was that level of spending
- 2 that the company -- was that level of expenditure
- 3 that the company allocated in 2004 enough to maintain
- 4 reliable service?
- 5 A. Yes. We have been providing reliable,
- 6 safe service, but as that testimony on page 8 says,
- 7 there are two forces that are working against us
- 8 going forward, and one is inflation is eroding the
- 9 value of the dollars that we have to do work, and the
- 10 second is that the aging of the infrastructure is
- 11 requiring more maintenance to those facilities.
- Q. That's always been true, right? I mean,
- 13 spending is impacted by those variables and always
- 14 has been; isn't that true?
- 15 A. Yes. But I think what has transpired is
- 16 that since the last rate filing is that we've done
- 17 things to improve the effectiveness of the
- 18 organization and reduce costs, and to continue to do
- 19 that will not provide the sufficient level of funding

- 20 we need to meet our customers' future expectations
- 21 for reliability.
- Q. Is the company's service as reliable as
- 23 it was ten years ago?
- A. I can't speak to that.
- Q. How about two years ago?

- 1 A. Yes.
- Q. But you're not sure about ten years ago.
- 3 A. No.
- 4 Q. How about five years?
- 5 A. I would say it's more reliable than it
- 6 was five years ago, but our customers are expecting
- 7 greater reliability.
- 8 Q. Can you tell me -- I know, that's one of
- 9 the things we'll be talking a little bit more about,
- 10 but I know in your testimony you talk about
- 11 customers' increasing expectations. Do you know what
- 12 that means? I mean, I think the way -- well, let's
- 13 just -- I'll just move ahead here for a minute and we
- 14 can come back to this section.
- Let's go to page 13 of your testimony
- 16 briefly. We've got a customer satisfaction chart
- 17 here at the top of page 13. Survey results show for
- 18 the first half of 2008 that one in every four
- 19 residential respondents and one in every three

- 20 commercial respondents believed their future
- 21 reliability expectations would increase. I'm
- 22 confused. Do you know what the other 76 percent of
- 23 residential customers expected? Does that mean
- 24 they -- their expectations weren't going to increase,
- 25 or do we know that breakdown?

- 1 A. We do know that breakdown, but I don't
- 2 have it off the top of my head.
- Q. Okay. Now, this is a survey that is used
- 4 in part to align customers' interests with the
- 5 company's reliability efforts; is that correct?
- 6 A. What do you mean by "interests"?
- 7 Q. Well, let me rephrase it. You used the
- 8 survey to align customers' interests and expectations
- 9 with the programs you were going to undertake; is
- 10 that correct?
- 11 MR. NOURSE: Your Honor, I object to the
- 12 form of the question.
- 13 I think you were asking whether the
- 14 programs were designed to align with what our
- 15 perception of customer interests are. We can't
- 16 change customer expectations. If you don't want to
- 17 rephrase, I would ask that it be read back.
- 18 EXAMINER BOJKO: Could you reread the
- 19 question?

- 20 (Record read.)
- Q. Let me just read from your testimony,
- 22 page 12. "Is AEP-Ohio providing safe and reliable
- 23 service to its customers?
- "Yes. AEP-Ohio's asset programs are
- 25 designed to ensure the customers' expectations are

- 1 aligned with the Companies' ability to provide safe
- 2 reliable service."
- 3 Is this survey part and parcel of trying
- 4 to determine what those expectations are and whether
- 5 they're aligned with the companies' ability to
- 6 provide reliable service?
- 7 A. The survey is used for a number of
- 8 different measures, and one portion of that survey is
- 9 around asking customers about what their expectations
- 10 are for future reliability but also about how have we
- 11 performed historically.
- 12 Q. No; I see that. Back to page 13. So
- 13 when we look at this phrase "believed their future
- 14 reliability expectations would increase," could you
- 15 give me your interpretation of what that phrase
- 16 means? Or reinterpret it for me. That means that --
- 17 let's just use the residential sample here.
- 18 24 percent of residential respondents think they will
- 19 expect better reliability in the future.

- A. There's a number of questions in that
- 21 portion of the survey, and those questions begin
- 22 first about how are we doing today, and the response
- 23 to some of those questions are around reliability and
- 24 outages.
- 25 For example, one of the questions is

- 1 around: How long do you expect the service to be out
- 2 when service is out? And more than half the
- 3 customers -- or, more than 40 percent of the
- 4 customers expect that to be an hour or less.
- 5 Another question around current
- 6 performance is: How well are we doing at providing
- 7 reliable service? And 85 percent of our residential
- 8 customers saying we're doing acceptable or -- doing
- 9 well or very well.
- This particular question then is in that
- 11 series of questions. Then they say -- well, looking
- 12 forward they ask: Do you expect or are your
- 13 expectations for reliability changing and are they
- 14 changing to where you expect greater levels of
- 15 reliability? And then that's what this is responding
- 16 to.
- Q. Does the survey ask why they will be
- 18 expecting greater reliability in the future?
- 19 A. I don't believe so.

- Q. Okay. So part of the survey was an
- 21 empirical -- had empirical questions like: How long
- 22 do you expect to be out of service when you're out of
- 23 service?
- 24 A. Yes.
- Q. Let's go back to page 8 of your

1	testimony. Before I do that, I want to ask you a
2	question. I'm jumping around here a little bit.
3	MR. REESE: Your Honor, I have a number
4	of questions forthcoming on responses to both
5	Commission staff discovery requests as well as
6	interrogatories posed by OCC. I have a packet that
7	has those responses in it, and I was just wondering
8	if it would be okay if I gave a copy of this to
9	counsel and the witness for some of those upcoming
10	questions. I don't need it marked as an exhibit.
11	EXAMINER BOJKO: Let's go off the record
12	for a minute.
13	(Discussion off the record.)
14	(Recess taken.)
15	EXAMINER BOJKO: Let's go back on the
16	record.
17	Before we took a break counsel for OCC
18	was going to talk to counsel for AEP about some

19 interrogatories and requests for production of

- 20 documents.
- Mr. Nourse or Mr. Reese.
- MR. NOURSE: Yes, your Honor. We are
- 23 stipulating to admitting those discovery responses
- 24 with a couple reservations or caveats. Number one,
- 25 in several cases we objected and then went ahead

- 1 without waiving and provided information that was
- 2 responsive, and I just reserve the right to argue to
- 3 the extent OCC uses that on brief or other parties
- 4 use that on brief to go ahead and respond that what
- 5 they're arguing is not relevant or, you know, we
- 6 don't want to waive our -- because he's not going to
- 7 ask him about it, we don't know what they're going to
- 8 use it for, for expediency we'll go ahead and stip in
- 9 as long as we can apply and argue that it should be
- 10 disregarded in our brief.
- 11 EXAMINER BOJKO: So you're agreeing that
- 12 they're accurate responses of the company as issued
- 13 as a response to a discovery request, but you're not
- 14 agreeing to the relevancy of those documents
- 15 pertaining to specific issues that might be raised or
- 16 how they're used in briefs.
- MR. NOURSE: Right. And secondly, I just
- 18 want to have adequate time later to make sure we
- 19 didn't supplement any of those with just responses

- 20 included in the packet, and so I'll just keep that
- 21 reservation, and I believe Mr. Reese agreed to take
- 22 out several of the items he's not going to present
- 23 for reasons we agreed on the side.
- MR. REESE: That's right, your Honor. As
- 25 Mr. Nourse mentioned, some of these of course they

- 1 objected to and did not respond at all. I won't be
- 2 asking any questions on those. And other than that,
- 3 Mr. Nourse has tabbed -- ones that are tabbed I'm not
- 4 going to be asking any questions on.
- 5 I can provide this to Mr. Boyd for his
- 6 reference while he's on the stand, and I will not be
- 7 asking any questions on the ones that are
- 8 appropriately marked either that the company objected
- 9 to and there was no response provided or was provided
- 10 at the direction of another witness.
- 11 EXAMINER BOJKO: Do you have or can you
- 12 create a packet of the actual stipulated responses
- 13 that we will be placing in the record as an exhibit?
- MR. REESE: I can do that, your Honor.
- 15 EXAMINER BOJKO: You mean you don't have
- 16 it with you today?
- 17 MR. REESE: No.
- 18 EXAMINER BOJKO: You didn't make copies
- 19 of all those? You're going to do that over the

- 20 weekend and provide us that on Monday morning.
- MR. REESE: Yeah, I can do that. Just to
- 22 be clear, anything I actually ask questions on, okay?
- 23 Is that okay?
- MR. NOURSE: You're going to just present
- 25 to the record anything you ask questions on?

1	MR. REESE: Yeah, that's correct.
2	MR. NOURSE: Okay. We're good.
3	EXAMINER BOJKO: Okay.
4	MR. REESE: Your Honor, this was mainly
5	for us to agree what I'm not going to ask any
6	questions on as far as I'm concerned.
7	EXAMINER BOJKO: Let's go off the record
8	for a minute.
9	(Discussion off the record.)
10	EXAMINER BOJKO: Let's go back on the
11	record.
12	Mr. Reese, could you please proceed with
13	your cross of Mr. Boyd?
14	MR. REESE: Sure.
15	Q. (By Mr. Reese) Mr. Boyd, I'm going to
16	provide you with some of these responses. I may ask
17	a couple of clarifying questions, albeit very few.

MR. NOURSE: Mr. Reese, could I just ask,

19 if you are going to ask him about a particular

18

- 20 response, that you indicate the number and who the
- 21 witness is listed at the bottom, please.
- MR. REESE: Yes, sir.
- MR. NOURSE: Thank you.
- Q. Okay. Mr. Boyd, I'm looking at page 8 of
- 25 your testimony, bottom of the page. I'm just looking

- 1 at the last three lines of your testimony where you
- 2 say a phrase here "with all else remaining the same,
- 3 could result in reduced service reliability."
- 4 Can tell me what you mean by the phrase
- 5 "with all else remaining the same"?
- 6 A. Yeah, what we're saying there is if the
- 7 dollar spent is devalued because of inflation and
- 8 cost escalation, is that it won't go as far to
- 9 improve reliability as it did in subsequent ones we
- 10 did in the current year.
- 11 Q. Okay. Could I call your attention to the
- 12 rules in the packet I gave you earlier with the ESSS
- 13 rules? I'm looking specifically -- and again I
- 14 apologize, there aren't any page numbers, but I'm
- 15 looking specifically at rule 26(B)(1).
- 16 EXAMINER BOJKO: Let's go off the record
- 17 for one second.
- 18 (Discussion off the record.)
- 19 EXAMINER BOJKO: Let's go back on the

- 20 record.
- 21 Mr. Reese, could you please repeat that
- 22 Administrative Code section again?
- MR. REESE: Yes.
- Q. Mr. Boyd, I'm looking at rule
- 25 4901:1-10-26 entitled Annual System Improvement Plan

- 1 Report, and that is section (B)(1) or rule (B)(1).
- 2 A. Yes, I found it.
- Q. What (B)(1) discusses is the contents of
- 4 the plan, what the plan that the company files should
- 5 provide for, a plan for future investment in safety,
- 6 reliability, and service quality improvements for the
- 7 electric utility's transmission and distribution
- 8 facilities/equipment that will ensure continued
- 9 quality, safe, and reliable delivery of energy
- 10 service to customers. Do you see that?
- 11 A. Yes.
- Q. Have the company's annual reports filed
- 13 under -- let's just use the 2007 report. Did the
- 14 company's -- I'm sorry, let me take that back,
- 15 2007-2008 reports. Did they provide evidence that
- 16 the company was providing quality, safe, and reliable
- 17 service?
- 18 A. Yes.
- Q. Now, on a continuum you've stated in your

- 20 testimony that the company will be unable to sustain
- 21 its current level of reliable service. Can you tell
- 22 me on a continuum, is the service declining now?
- 23 Will it decline in six months? A year? Can you give
- 24 me sort of a time frame?
- A. In a previous question I responded that I

- 1 believed that the level of service has improved in
- 2 the last five years, and as we think about looking
- 3 forward is that the impacts would not be immediate
- 4 but would occur over time as the dollar is eroded by
- 5 inflation and the age of the infrastructure continues
- 6 to cause increased outages.
- Q. Now, when you state that the company's
- 8 service has improved over the last five years, has it
- 9 improved from less-reliable service?
- 10 A. No.
- Q. So it was reliable before that?
- 12 A. Yes.
- Q. But it will not remain reliable if the
- 14 ESRP is not funded?
- 15 A. Yes. Or if we don't find, you know,
- 16 another mechanism to invest more in distribution
- 17 maintenance and facilities in the distribution plant.
- 18 Q. Now, you mentioned that the company's
- 19 reliability has improved over the last five years.

- 20 Can you give me sort of a range in years there what
- 21 years you're talking about?
- A. If we compare the most recent year or
- 23 2007, and the question you asked me, you said 2002 to
- 24 the present, and that's what I'm referring to.
- Q. Okay. Now, I realize you haven't been in

- 1 your current position, but doesn't some of that
- 2 improvement come with -- a result of additional
- 3 expenditures that AEP made as a result of a
- 4 reliability case, the settlement with the staff?
- 5 A. Yes.
- 6 Q. And as I recall, the company reported
- 7 that it spent 60.5 million in incremental dollars to
- 8 meet the terms of that settlement in case number
- 9 03-2570. Does that sound familiar?
- 10 A. That's correct.
- 11 Q. And the company was also required by the
- 12 Commission to spend an additional \$10 million on
- 13 vegetation management.
- 14 A. That's correct.
- Q. So those expenditures undoubtedly went
- 16 towards the improving reliability that you've
- 17 discussed; is that correct?
- 18 A. That's correct.
- Q. Now, absent that settlement with staff

- 20 and the \$10 million that you were ordered to spend,
- 21 would your reliability have remained the same or
- 22 declined?
- A. I don't know.
- Q. It's likely, though, that it's better
- 25 than it would have been if you hadn't spent that

- 1 money; is that correct?
- 2 A. Those incremental dollars that we spent
- 3 added value and improved reliability.
- 4 Q. Now, if you know, are any of the
- 5 expenditures that you've referenced in your testimony
- 6 on I believe it's chart 10 -- I'm sorry, you list
- 7 incremental costs of the four programs on page 37 in
- 8 chart 10. Does any of that include somewhere in
- 9 there recovery for any of the expenditures spent as a
- 10 result of 03-2570?
- 11 A. None whatsoever.
- 12 Q. Okay. So that burden still continues to
- 13 be borne by shareholders, as far as you know?
- 14 A. The additional expense was not recovered.
- 15 Q. Okay.
- 16 EXAMINER BOJKO: Was not recoverable or
- 17 recovered?
- 18 THE WITNESS: Recovered.
- 19 EXAMINER BOJKO: Recovered.

- THE WITNESS: Yes.
- Q. Just a little while ago I was talking to
- 22 you about Rule 26. I wanted to ask you one more
- 23 question on Rule 26, specifically (B)(3).
- A. Yes, I see that.
- Q. Do you see that?

- 1 A. Yes.
- Q. (B)(3) reads, the first sentence: "A
- 3 report by service territory of the age, current
- 4 condition, reliability, and performance of the
- 5 electric utility's transmission and distribution
- 6 facilities." Do you see that?
- 7 A. Yes.
- 8 Q. Have your Rule 26 annual reports over the
- 9 last several years reflected the fact that you have
- 10 an aging distribution system?
- 11 A. Yes.
- 12 Q. Can you give me some examples of how that
- 13 aging distribution system was reflected in your
- 14 reports, if you know?
- 15 A. Well, I believe it's reflected in the
- 16 initial pages of that report that show the amount of
- 17 plant in service, the depreciation and such.
- Q. So the reference to the aging system was
- 19 made by referencing the depreciable life of certain

- 20 assets?
- A. I believe that those values do
- 22 demonstrate that, yes.
- Q. Let's go to page 9 of your testimony.
- 24 I'm looking at chart 1 here. Do you know what any of
- 25 these commodity prices are today or, say, as of

- 1 November 21st?
- A. No, I don't know as of today, but I do
- 3 follow the commodity price of copper closely and look
- 4 at it on nearly a daily basis, and I look at it for
- 5 not just what is the absolute value of the copper
- 6 price, but also is it moving down such that maybe
- 7 there's less theft of that commodity from our
- 8 facilities. It's having a huge impact on reliability
- 9 where that's being stolen and causing us to have
- 10 outages for customers.
- But I've also looked at this same report
- 12 from the Bureau of Labor Statistics for the end of
- 13 the month October.
- 14 Q. Okay. And what does that reflect in
- 15 terms of the price of copper?
- 16 A. The price of copper is still around, as
- 17 in October, the 450 percent range.
- 18 Q. Okay. Let's go to page 10 of your
- 19 testimony. Looking at line 5, "The notion of 'all

- 20 else remaining the same' brings me to the second
- 21 force. Based on my experience, I know that 'all
- 22 else' does not remain the same because asset failure
- 23 rates are increasing." When did asset failure rates
- 24 begin to increase?
- A. It depends on the asset, but if we take a

- 1 look at cutouts, we began seeing that trend since the
- 2 year 2000.
- Q. Now, as I recall from case number 06-222,
- 4 wasn't that the fact that there were faulty cutouts
- 5 in the manufacture of the cutouts?
- 6 A. The cutouts were failing in what we
- 7 believe to be a premature way because of cracking and
- 8 ice creating that cutout to fail.
- 9 Q. That was a manufacturing flaw, correct?
- 10 A. We believed that. The manufacturer
- 11 guarantees those cutouts for a shorter period than
- 12 what we think the useful life would be.
- Q. Haven't a number of companies settled
- 14 with that manufacturer because of the faulty cutouts?
- 15 A. I don't know what other companies have
- 16 done.
- Q. Okay. Can you give me, other than the
- 18 cutouts, what are these other asset failure rates
- 19 we're discussing? Transformers?

- A. The trend for transformers has increased.
- 21 The failure of arresters has been increasing. The
- 22 number of crossarms as well.
- Q. Is that because they're old?
- A. Well, not necessarily.
- Q. Okay. If, for instance, transformer

- 1 failure rates are increasing now more than in the
- 2 past, what reason would that be other than just the
- 3 fact that they're old?
- 4 A. Again, it could be manufacturing quality.
- 5 Q. So you have an increased incidence of
- 6 failure of transformers that aren't old?
- 7 A. Well, maybe I misspoke. We have an
- 8 increase in transformer failures. I don't know what
- 9 the specific age of those transformers are.
- Q. But it could be just because they're old.
- 11 A. It could be, that's right.
- 12 Q. And distribution rates have always been
- 13 around to take care of replacing transformers when
- 14 they needed replacing; is that correct?
- 15 A. Distribution rates provide revenues for
- 16 us to replace equipment, and we've done a lot of
- 17 that. For example, the net distribution plant in
- 18 service for CSP since the last rate case has more
- 19 than doubled. It's 114 percent of what it was back

- 20 in 1991.
- Q. Your revenues were doing okay, too, over
- 22 that period, weren't they?
- A. I don't know about revenues.
- Q. Okay. At page -- I'm sorry, line 10 of
- 25 your testimony you talk about "given the funding to

- 1 go beyond traditional means of maintaining the energy
- 2 delivery infrastructure." What does "traditional"
- 3 mean?
- 4 A. What page is that again?
- 5 Q. I'm sorry. Page 10, line 10. You talk
- 6 about to go beyond traditional means of maintaining
- 7 energy delivery. What does "traditional" mean?
- 8 A. I think traditional means is what we have
- 9 historically done, and what we're proposing is that
- 10 we begin to modernize the distribution plant by using
- 11 new technologies, by using new technologies to help
- 12 determine the problem assets before they fail.
- Q. At the bottom of page 10 you begin
- 14 discussing sensitivity of customers to power quality
- 15 issues. Do you see that?
- 16 A. Yes.
- 17 Q. Now, elsewhere in your testimony --
- 18 strike that.
- 19 Has there been -- has the company been

- 20 failing to meet its SAIFI targets in the last four to
- 21 five years?
- A. Did you say SAIFI?
- Q. SAIFI, that's correct.
- A. That's correct.
- Q. Now, SAIFI measures only sustained

- 1 outages; is that correct?
- 2 A. That's correct.
- Q. And SAIFI is an empirical measure,
- 4 correct? It's not a sensitivity issue; it's an
- 5 absolute measure. Is that right?
- 6 A. Yes.
- 7 Q. Okay. So momentary outages, are they
- 8 increasing as well, or do you have a way to measure
- 9 that?
- 10 A. We don't know that. We don't really have
- 11 a way to measure that. The only means we have to
- 12 measure MAIFI is through the SCADA system and what's
- 13 happening at those locations and stations on breaks.
- 14 But that doesn't measure the full magnitude of MAIFI.
- Q. But if there were, in fact, more
- 16 momentary outages, that wouldn't, if you were or
- 17 could in fact measure MAIFI and the MAIFI measures
- 18 were reflecting more momentary outages, that's not a
- 19 customer sensitivity issue, right, that would just be

- 20 an empirical measure?
- A. No; that would be a customer sensitivity
- 22 issue.
- Q. Well, I guess it could be both, right?
- 24 It could be sensitive to it, but it's also occurring.
- 25 A. Yes.

- 1 Q. So if you have more momentary outages,
- 2 you're going to be more sensitive to it; is that
- 3 correct?
- 4 A. Are you asking me specifically as an
- 5 individual? I can't speak to how the customers
- 6 react, but I believe that customers would be
- 7 sensitive to increasing numbers of momentary outages.
- 8 Q. And their sensitivity would increase if
- 9 they had more sustained outages, right?
- 10 A. Yes.
- 11 Q. Okay. Now, do you think that discussing
- 12 this whole issue of momentary outages, would it
- 13 benefit customers or the company to utilize a MAIFI
- 14 measure of some kind to keep records of it?
- 15 A. Well, and we do keep records to the
- 16 extent that we can, and the one thing that the DA
- 17 program that we're recommending and the gridSMART
- 18 program that we're recommending, that provides a
- 19 means of more accurately measuring the customer

- 20 experience around MAIFI.
- Q. What percentage of your network is served
- 22 by SCADA at this time?
- A. I don't know that number.
- Q. Let's look at page 12 of your testimony.
- 25 Now, here at the bottom of page 12 from lines 12 to

- 1 17 you discuss customer satisfaction with your AEP
- 2 service that AEP is providing. Do you see that?
- 3 A. Yes.
- 4 Q. And you say "with the exception of two
- 5 devastating ice storms." Obviously, I guess the --
- 6 what's implicit here is that people weren't really
- 7 happy after the ice storms because they experienced
- 8 outage; is that correct?
- 9 A. Yes.
- MR. REESE: Your Honor, can I approach
- 11 the witness?
- 12 EXAMINER BOJKO: You may.
- Q. I just have a couple of quick questions
- 14 regarding -- have you seen this restoration plan
- 15 before?
- 16 A. Yes.
- 17 Q. Okay.
- 18 EXAMINER BOJKO: For the record --
- MR. REESE: I'm sorry.

- 20 EXAMINER BOJKO: -- you've handed the
- 21 witness a 2008 distribution system service
- 22 restoration plan.
- MR. REESE: That's correct.
- 24 EXAMINER BOJKO: Are you going to mark
- 25 this?

1	MR. REESE: No, your Honor. I just have
2	a couple of questions for him, thank you.
3	Q. (By Mr. Reese) I see there's a table.
4	You have basically different levels of events that
5	are outlined as part of this plan; is that correct?
6	A. What page are you referring to?
7	Q. Oh, I'm sorry.
8	EXAMINER BOJKO: I'm sorry, did we
9	establish whether the witness was familiar with this
10	document?
11	MR. REESE: Yes, I asked him that.
12	EXAMINER BOJKO: Oh, I'm sorry. You
13	asked him if he was familiar with it?
14	THE WITNESS: He asked me if I'd seen it.
15	EXAMINER BOJKO: That's what I thought
16	Are you familiar with this document?
17	THE WITNESS: Yes.
18	EXAMINER BOJKO: Thank you.

Q. (By Mr. Reese) Beginning on page 17,

19

- 20 Mr. Boyd, going through page 20 we have a discussion
- 21 of level 1, level 2. Do you see this?
- 22 A. Yes.
- Q. And these are basically -- these
- 24 different levels, does that reflect how many
- 25 customers are out and for how long they're out, or

- 1 does it reflect the actual severity of an event such
- 2 as a storm?
- 3 A. It reflects the expected duration of the
- 4 storm and the required resources to provide
- 5 restoration.
- 6 Q. Okay. Now, I know as part of this
- 7 plan -- let me just ask you. I can keep looking for
- 8 the page. I'm sorry, I don't have this one marked.
- 9 You send a representative from the company to the EMA
- 10 during these more significant events, don't you, the
- 11 Emergency Management Agency? Does that sound
- 12 familiar?
- 13 A. Yeah. That's part of the plan. Yes.
- Q. Okay. Have you ever heard of anything
- 15 referred to as a rapid response team that's
- 16 formulated as part of working with the Commission and
- 17 staff? Does that sound familiar?
- 18 A. No.
- 19 Q. Okay. I'm referencing right now page 74

- 20 of the report, and this ties in I think there's some
- 21 discovery, but I'm looking at discussion on page 74
- 22 that discusses major storm definitions and cost
- 23 reporting. Do you see that?
- 24 A. Yes.
- Q. Now, is this Appendix 1 basically aimed

- 1 towards internal budgeting processes within AEP?
- 2 A. Yes. The definition here is for internal
- 3 use.
- 4 Q. And for internal purposes you're
- 5 following a method to classify major events that is
- 6 in IEEE; is that correct?
- 7 A. For this purpose, yes.
- 8 Q. And that's the only purpose that it's
- 9 used for in the plan here.
- 10 A. I don't know without referring further to
- 11 the document, but the major storm definition here is
- 12 different than what we use for reporting to the PUCO.
- Q. Okay. Looking at page 14 of your
- 14 testimony, on line 13 you discuss that "Control and
- 15 response functions have not changed for decades."
- 16 Can you tell me why not?
- 17 A. This is referencing to the way that the
- 18 system is designed and performs, for the most part,
- 19 but there has been some additions, such as SCADA

- 20 where we have reporting per station on the status of
- 21 the distribution station, a distribution feeder
- 22 breaker. This is referring to as you get out onto
- 23 that circuit, is that the design of that circuit and
- 24 how it responds has not changed.
- 25 And what we're asking for is to begin to

- 1 modernize that system such that we begin to use more
- 2 21st century technologies to provide realtime
- 3 information on the system operation and performance.
- 4 Q. Okay. On page 15 of your testimony,
- 5 looking at line 6, "As long as equipment is properly
- 6 functioning and serving the customer needs, it is
- 7 reasonably anticipated that it will continue to
- 8 function properly for several years."
- 9 So I guess I go back to the simple
- 10 example of a pole. If it's functioning and serving
- 11 the customers' needs, what does that mean in terms of
- 12 a pole, that it's upright?
- 13 A. No. For example, a pole is that -- when
- 14 we do the ground line inspection program and look at
- 15 that pole to see whether or not it has sufficient
- 16 strength and life, is that that's a ten-year program,
- 17 that we would look at those poles on a ten-year
- 18 basis. When we look at that pole, we determine
- 19 whether or not that pole would have sufficient

- 20 strength to remain in service for the next ten years,
- 21 if it doesn't, we'd replace it, if it does, then we'd
- 22 continue to get that additional value out of that
- 23 pole.
- Q. Now, you discussed the company's use of
- 25 infrared scanning and electromagnetic interference

- 1 detection devices. Do you see that?
- 2 A. Yes.
- Q. Now, I think part of the ESRP is to
- 4 increase the usage of those devices; is that right?
- 5 A. The infrared technology has more age on
- 6 it than the infrared -- or, the radio frequency
- 7 devices, but we began using the radio frequency in
- 8 the last three or four years and have continued to
- 9 develop the technology around that and interpret the
- 10 information that we get from that, and what we're
- 11 proposing in the overhead and circuit inspection
- 12 program, the incremental program, was begin using
- 13 that technology to help us determine the performance
- 14 of some of the electrical equipment on the poles that
- 15 you cannot see through a physical inspection.
- 16 Q. If you know, what percentage of
- 17 deficiencies or potential deficiencies will be
- 18 detected by the increased use of infrared? Do you
- 19 have any projection?

- A. No, I don't have a percentage, but as we
- 21 use that equipment and have developed the use of that
- 22 technology is that we are able to, say, augment a
- 23 visual inspection to determine how a connector may be
- 24 performing. A connector that has deteriorated or
- 25 loose may show heating, and that allows us -- but it

- 1 shows us how many devices are there and what the load
- 2 is at that time, but I can't give you a percentage of
- 3 accuracy on that. As I said, it depends on the
- 4 circumstance, but it is an enhancement to the current
- 5 inspection program.
- 6 Q. It's an enhancement in what way, just
- 7 that you're going to be using it more?
- 8 A. No. It's an enhancement because it
- 9 allows us to find equipment that we would not have
- 10 found otherwise and helps us prevent outages by
- 11 replacing that equipment before it fails.
- Q. Help me out here. This is fairly
- 13 expensive equipment. What's preventing the company
- 14 from using it as often as it would like to now?
- 15 A. Is that some of the equipment has some
- 16 expense to it, but some of it isn't that expensive
- 17 but what we're asking for is that this is beyond what
- 18 is included in the current inspection programs, and
- 19 we're looking for cost recovery for improving and

- 20 modernizing our inspection -- overhead inspection
- 21 program.
- Q. On line 18 of your testimony, your
- 23 answer, "Continued focus on current level of
- 24 distribution reliability improvement programs can
- 25 take the reliability of a distribution system only so

- 1 far." Can you tell me what you mean by that
- 2 statement?
- A. Yes. Is that without using, say, the new
- 4 technology that is available to us is that we will
- 5 not necessarily locate some of the equipment that may
- 6 fail before it does fail, and it's that as we want to
- 7 improve the reliability, which is what we think our
- 8 customers expect, is that we need to do more than
- 9 what we have done in the past.
- 10 Q. Doesn't this first line of your answer
- 11 here imply that the programs that you currently
- 12 utilize are not adequate?
- 13 A. The programs are adequate to provide safe
- 14 and reliable service, but if we want to improve that
- 15 level of service, we need to augment those programs.
- Q. But aren't you also saying earlier in
- 17 your testimony that you can't maintain reliable
- 18 service without additional funding?
- 19 MR. NOURSE: Objection, your Honor. I

- 20 think that mischaracterizes Mr. Boyd's testimony. He
- 21 says he can't maintain current levels, not that it's
- 22 not reliable.
- EXAMINER BOJKO: Mr. Boyd can answer no
- 24 if he doesn't believe that's an accurate statement.
- 25 Can you respond or --

1	THE WITNESS: Can I hear the question
2	again?
3	(Record read.)
4	A. I believe that does misrepresent what I
5	said. I said before that we were providing safe and
6	reliable service, but if we want to go to that next
7	level, as we think our customers expect, is that we
8	need to do more.
9	Q. Fair enough. So this next level of
10	service that you're trying to attain, what's that
11	driven by? Is that driven by the customer
12	expectations?
13	A. Yes. And the survey results that we had,
14	I spoke to those earlier, I think indicates that
15	customers are expecting reliability or, better
16	reliability in the future, and I think Senate Bill
17	221 provides for and states that there must be
18	alignment between customer expectations and the
19	distribution, and what we're asking for is for the

- 20 additional funds to meet those future expectations.
- Q. In addition to the survey, how else are
- 22 you aligning the customer expectations?
- A. Is that we have daily contact with our
- 24 customers, and we work with them and we see that
- 25 through our contacts. We see that through some

- 1 customer complaints.
- Q. Customer complaints would indicate
- 3 they're not happy with the current level of service,
- 4 wouldn't it?
- 5 A. But some of those customer complaints,
- 6 though, are around power quality, which may be an
- 7 impact of momentaries.
- 8 Q. Which is still reliability, correct?
- 9 A. More around power quality, is that we
- 10 have some customers that are sensitive to power
- 11 quality issues that might occur on adjacent circuits,
- 12 and the more that we can do to minimize power
- 13 interruptions and momentaries, the overall power
- 14 quality improves, even for those customers that
- 15 aren't directly outaged by an event.
- Q. So still at the bottom of page 15 where
- 17 there's still -- you discuss the need to address
- 18 AEP-Ohio's aging infrastructure, so I'm still trying
- 19 to get at your distribution system is aging all the

- 20 time. What's unique about 2008? Wasn't your system
- 21 aging in 1995 and 2000, and what did you do about it
- 22 then?
- A. Is that as we look at the performance of
- 24 the system, we see that there are more equipment
- 25 failures, more equipment problems, and equipment

- 1 problems are the leading cause of outage today, is
- 2 that we have done more work to address that, but
- 3 every year there are more system and more plant in
- 4 service and the need -- the cost to maintain that and
- 5 improve that grows as we add more facilities. As we
- 6 add more facilities there's more plant to age on a
- 7 daily basis.
- 8 Q. Would you say your plan is targeted more
- 9 towards power quality or reliability issues?
- 10 A. Could you explain that a little bit? I
- 11 don't understand the question.
- 12 Q. Well, you made a distinction early in
- 13 your testimony between -- I'm sorry if I misspoke.
- 14 You made a distinction between power quality and
- 15 service reliability issues. Does the ESRP go more
- 16 towards dealing with power quality or service
- 17 reliability issues?
- 18 A. It really does both. It will improve the
- 19 performance of the system around sustained and

- 20 momentary outages, and as you reduce those, that
- 21 improves power quality.
- Q. Now, we discussed earlier about SAIFI
- 23 targets. SAIFI targets involve reliability -- or,
- 24 I'm sorry, the frequency of outages, and the company
- 25 has been failing to meet its targets with the staff.

- 1 Is that a indicator that reliability isn't what it
- 2 should be or not?
- 3 A. What I think the SAIFI measures are
- 4 indicating, and if you look back at those prior to
- 5 2002, that number -- that there was a degradation in
- 6 2002, and I think Witness Cleaver also notes that in
- 7 his testimony, is that that is the time that we
- 8 automated our outage reporting system, and prior to
- 9 that when there was an outage, it was a paper system,
- 10 and the person in the truck needed to fill out a
- 11 paper saying what was the cause of outage, and what
- 12 the location was, and how many customers that were
- 13 impacted.
- In 2002 we automated that process, and in
- 15 automating that, we improved the accuracy, and with
- 16 the technology that we have today is that the outage
- 17 case is created when the customer calls in the
- 18 system, and each one of those has to be identified,
- 19 and there's data in the system that connects the

- 20 customer to the location on the grid where that
- 21 outage occurred.
- So we have much more accurate information
- 23 around how many customers are impacted. Each outage
- 24 case must be closed out on the system. The
- 25 individual in the truck now has an on-line system

- 1 where they report that information, and they can't
- 2 close that out until that outage is captured.
- What we saw in 2002 was an increase in
- 4 the accuracy, and that caused our SAIFI and CAIDI
- 5 indices to rise. There was a study done by an
- 6 outside firm that we shared with the staff in the
- 7 workshop, and what the industry saw from that report
- 8 was a 22 percent increase in SAIFI and a 42 percent
- 9 increase in CAIDI due to automating and creating
- 10 greater accuracy around reporting.
- Q. So the frequency of outages hasn't
- 12 increased. Is that what you're telling me?
- A. I'm saying that the accuracy of reporting
- 14 has increased, and that has caused that SAIFI number
- 15 to rise.
- Q. That's the reason for the entire
- 17 increase?
- 18 A. What I'm saying, that is a reason for a
- 19 substantial part of that increase. Whether there's

- 20 more beyond that, I don't know that. I know
- 21 equipment failures are increasing so SAIFI is
- 22 increasing as a result of that. But there's other
- 23 work we've done that may have decreased that, so I
- 24 don't know what the net effect is on outage cases and
- 25 SAIFI as a result.

1	But that study done by an outside firm of
2	automation reflected those changes in indices that I
3	mentioned earlier.
4	Q. So it's the automated outage detection,
5	I'm sorry if I'm using laymen's terms, but that is
6	really why the indices look worse than they should.
7	A. I believe that's the substantial portion
8	of why those indices change and that's why they
9	changed in the year 2002.
10	Q. Is the company going to ask for a change
11	to any of its targets as a result of a filing of the
12	ESRP?
13	A. As you know, I'm new to AEP-Ohio. I've
14	been here since January. But in discussion with my
15	staff and in looking at the documents from
16	conversations with PUCO staff is that we've had a
17	number of times where we've talked about changing
18	those indices but never did. It never was the my

19 interpretation -- it was never the right time to

- 20 change them.
- Q. Do you know where AEP ranks with IEEE in
- 22 terms of its SAIDI performance, what quartile?
- A. We filed a response to that in discovery,
- 24 and I don't recall SAIDI versus CAIDI or SAIFI, what
- 25 quartile we were in.

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- 2 quartile?
- 3 A. Yes.
- 4 Q. Was it third or fourth quartile in 2002;
- 5 do you know?
- 6 A. I don't know that. And I think 2002 is
- 7 the year that the indices jumped, so if you were
- 8 going to make that comparison, you would go back
- 9 prior to 2002.
- 10 Q. So I think we discussed earlier about the
- 11 percentage -- I'm on page 19 of your testimony -- the
- 12 percentage of your circuits that are walked versus
- 13 driven, or I just asked you a question about it, I
- 14 didn't ask the percentages. Do you know what
- 15 percentage of your circuits by mile perhaps are
- 16 walked right now?
- 17 A. No, I don't. But if you look at this
- 18 program, it's more than walking them. It's that we
- 19 propose to walk them, but we also propose to climb or

- 20 do an overhead inspection on a number of circuits,
- 21 and that is really an incremental change from what we
- 22 have done historically. And it will really provide
- 23 us a better opportunity to get a closer look at that
- 24 equipment to make sure that it's not going to fail,
- 25 that it's serviceable till the next inspection.

- 1 Q. On page 22 of your testimony you discuss
- 2 on line 16 the top five causes of equipment failure,
- 3 and it excludes major events and transmission-caused
- 4 outages which are cutouts, underground conductor,
- 5 et cetera. And I asked a similar question earlier.
- 6 Isn't it important to know the top five causes of
- 7 equipment failure during major events?
- 8 A. Equipment failures really contribute to a
- 9 small amount of outages during major events. Most of
- 10 that is around the weather conditions and such. And
- 11 as we look at these programs, I think they will also
- 12 enhance the performance of the systems for ordinary
- 13 storms.
- Q. When you say "ordinary storm," does --
- 15 ordinary storm is not excludable for reporting; is
- 16 that correct?
- 17 A. No. I'm not using it in that way.
- 18 Q. Okay.
- 19 A. I'm thinking more around the ice storm of

- 20 2004 and 2005, December-January, and Hurricane Ike.
- 21 I'm thinking of those as the extraordinary events.
- 22 If I think about that ice storm of 2004 and the one
- 23 up in Lima in 2005 is that the -- we can follow
- 24 NESC's codes for construction of our facilities. And
- 25 NESC codes for the northern part of the state is

- 1 built for heavy ice, which is half inch radial ice,
- 2 and four pound wind per square foot, and what we had
- 3 was ice more than one inch, which exceeded the
- 4 designed capabilities of the system. I'm saying
- 5 those were extraordinary events of the system, it's
- 6 not built for and NESC does not design for.
- 7 Q. Would a properly maintained distribution
- 8 system withstand a significant storm better than one
- 9 that wasn't properly maintained?
- 10 A. Yes.
- 11 Q. I'm looking on page 25 of your testimony
- 12 regarding equipment failures. There it's chart 4,
- 13 and again we're looking at this three-year plan, this
- 14 three-year plan that's reflected with, I guess, a
- 15 decline in number of equipment interruptions. This
- 16 plan is funded for three years, or that's what the
- 17 ESRP covers; is that correct?
- 18 A. This shows three years, and we see this
- 19 overhead equipment plan as five years, but we only

- 20 requested funding for the ESP period.
- Q. And that would cover 60 percent of the
- 22 circuits.
- A. Approximately, yes.
- Q. Okay.
- A. Well, 60 percent of the line miles.

- 1 Q. Okay. Now, if you know, didn't AEP move
- 2 towards a performance-based vegetation management
- 3 program several years ago?
- 4 A. Yes.
- 5 Q. And now it's proposing to move to a more
- 6 cycle-based approach, according to your testimony; is
- 7 that right?
- 8 A. That's correct.
- 9 Q. And why is that specifically?
- 10 A. It's to meet customers' growing
- 11 expectations for reliability. Doing more in a
- 12 proactive way to prevent outages will help us get
- 13 there. It's that the performance-based program is
- 14 more reactive in nature, and a cycle-based is more
- 15 proactive. So a proactive program, a cycle-based
- 16 program, which we believe should be also a blend of
- 17 performance based, will allow us to mitigate outages
- 18 before they occur.
- 19 Q. So it was probably a mistake to move

- 20 towards performance based.
- A. No, I don't believe it was a mistake to
- 22 move to performance based. It's that if you're going
- 23 to maximize the value of the dollars spent, a
- 24 performance program really puts those dollars in a
- 25 location that maximizes their value for reliability.

- 1 Q. So cycle-based isn't the best use of the
- 2 dollars.
- A. To move reliability forward I think we've
- 4 got to move to a cycle based. It's that a
- 5 performance based creates more value for the dollar
- 6 spent because it is a much more focused program.
- 7 Q. So cycle based is extra?
- 8 A. A cycle based would require additional
- 9 funding, that's correct.
- 10 Q. And I believe we discussed this in your
- 11 deposition, and it's probably here further on in your
- 12 testimony, but I think you discussed that it was
- 13 going to take about five years of doubling, in
- 14 effect, doubling tree crews to get to where you could
- 15 implement a four-year cycle-based program. Is that
- 16 roughly correct?
- 17 A. That's correct. As we move toward a
- 18 cycle based, it is our desire to trim trees for at
- 19 least a four-year clearance, and that then would

- 20 allow us to move more to a four-year cycle, but there
- 21 will be some locations and there will be some tree
- 22 species such that we don't get a four-year clearance,
- 23 and that's really the value of the data tool that we
- 24 want to add to the forest program to help us be more
- 25 proactive in the areas where we don't believe the

- 1 clearing cycle will provide at least a four-year
- 2 clearance.
- 3 So on the cycle base you never fully move
- 4 away from performance because that has to be a part
- 5 of the program.
- 6 Q. Now, when you discuss this four-year
- 7 cycle-based program, that does mean roughly 48
- 8 months, right?
- 9 A. That's correct. Is that I'm not saying
- 10 that if we trimmed a circuit in April that four years
- 11 later exactly in April, but within a window of time
- 12 is that we'd be back and inspect and trim as
- 13 appropriate around four years.
- Q. So reasonably close to that 48 months.
- 15 A. Yes.
- Q. Okay. Do you know how long it is -- how
- 17 long it takes now to trim a circuit from end to end?
- 18 Let's just say circuit 10012. What should I
- 19 expect -- what length of time does it take for that

- 20 circuit to be trimmed end to end currently?
- A. We aren't trimming circuits end to end
- 22 currently.
- Q. So there's no end to end going on.
- A. There may be some, but I don't know how
- 25 much of that there would be. Most of the program is

- 1 more performance based where we really focus in on
- 2 doing that work where it provides the greatest
- 3 reduction in reliability -- or greater reduction in
- 4 customer outage.
- 5 Q. Can you tell me how your trees outside of
- 6 right-of-way programs will change under the ESRP if
- 7 at all?
- 8 A. Is that trees outside the right-of-way
- 9 are now creating more outages than trees in. Trees
- 10 in the right-of-way have been relatively flat over
- 11 the last four or five years, and trees out have
- 12 increased in number, and without the ESRP we're going
- 13 to focus more on trees out because that is becoming a
- 14 leading cause. With the ESRP we'll be able to do
- 15 more of that, is that we really want to focus our
- 16 tree crews on removing trees versus trimming trees.
- 17 Q. Okay. Can you tell me if additional tree
- 18 trimming will have an effect on reducing
- 19 animal-caused outages as well?

- A. It may, yes. Is that we think that those
- 21 trees are also a highway for animals to get onto the
- 22 facilities, and if we remove that tree, that limits
- 23 the number of locations that animals can get onto the
- 24 lines. But I'll tell you I see going across
- 25 roadways, I see squirrels and chipmunks running down

- 1 the cables. But I believe overall it will have a
- 2 beneficial impact.
- Q. Fewer fried squirrels?
- 4 A. Yes.
- 5 Q. Mr. Boyd, do you think that if you had
- 6 implemented some of your ESRP vegetation management
- 7 programs, that the effects of the windstorm would
- 8 have been lessened on outages?
- 9 A. Are you referring to Hurricane Ike?
- 10 Q. The windstorm.
- 11 A. The one in September of this calendar
- 12 year?
- Q. Uh-huh.
- 14 A. Okay. Did some analysis of circuits that
- 15 were recently trimmed here in Columbus versus those
- 16 that hadn't been trimmed recently, and the
- 17 performance was no different, is that Hurricane Ike
- 18 winds were such that the right-of-ways that we can
- 19 maintain were violated enough times that it didn't

- 20 show up in a difference in performance within the
- 21 city here, within the communities.
- Q. So tree trimming wouldn't have impacted
- 23 the number of outages or the length of the outages.
- A. I think that had we performed this, is
- 25 that there may have been some beneficial effect, but

- 1 the data that we've looked at says is that we would
- 2 have had as many customers out, is that Hurricane Ike
- 3 with multiple hours of winds up to 75 miles an hour
- 4 really brought a lot of things into the distribution
- 5 lines.
- 6 Q. Isn't that study kind of hard to do if
- 7 you're not trimming end to end on circuits?
- 8 A. We looked at the breaker zones, which is
- 9 a finite area where we knew where we had done that
- 10 work in the last year and those areas where we had
- 11 not, because I had the same question that you had
- 12 there, and I wanted to see how the system performed.
- 13 And I think Ike's one of those extraordinary events
- 14 that we cannot afford to build or trim to, is that
- 15 today as we look to remove trees outside the
- 16 right-of-way, those danger trees, is that those trees
- 17 are on customer properties where we have no legal
- 18 right to do that work, and we try to negotiate, but
- 19 it's difficult to remove those, and if we were, the

- 20 community would look different, and I just don't
- 21 think that we can achieve that.
- Even as we clear right-of-ways today
- 23 where we have rights, there's multiple times a year
- 24 that after we trim that we're in litigation, and to
- 25 do that work would require the sheriff's department

- 1 there to allow our crews to access those facilities.
- Q. Well, you can build that into the ESRP,
- 3 can't you, the sheriff's salaries? Just kidding.
- 4 If you implement -- okay, you've given me
- 5 your opinion on the impact on the vegetation
- 6 management, but if you implemented all four of the
- 7 programs that you've discussed in the ESRP, do you
- 8 think that would have had any impact on either the
- 9 number or duration of the outages during the
- 10 windstorm, or as a result of the windstorm?
- 11 A. Yes.
- Q. But not the vegetation management.
- A. I think that the distribution automation
- 14 piece would provide us information and would have
- 15 provided some opportunity to sectionalize and keep
- 16 some customers in service. I think by having more
- 17 realtime data is that we could have responded more
- 18 quickly to larger outages to restore those customers
- 19 and reduce the duration in that way.

- And I'm not saying that the vegetation
- 21 management programs would not have any impact on
- 22 events like Ike, but I think where you see more of
- 23 that impact is on the ordinary events where you just
- 24 don't have the large trees coming so far out of the
- 25 right-of-way into the distribution circuits.

- 1 Q. Do you know if AEP has reviewed its
- 2 mutual assistance agreements as a result of the
- 3 windstorm?
- 4 A. No, I don't.
- 5 Q. So looking at page 31 of your testimony
- 6 where you're discussing the enhanced vegetation
- 7 management initiative and looking at the chart, some
- 8 of this, let's look for instance at trees removed,
- 9 some of these are going to be outside the
- 10 right-of-way; is that correct?
- 11 A. That's correct.
- Q. Those are -- is that primarily what you
- 13 referred to as danger trees?
- 14 A. Yes.
- MR. REESE: Your Honor, can I have a
- 16 moment?
- 17 EXAMINER BOJKO: You may.
- 18 Please continue, Mr. Reese.
- Q. Now, as part of this plan, Mr. Boyd, the

- 20 ESRP, you would anticipate that the company would
- 21 come closer to meeting its SAIFI targets; is that
- 22 correct?
- A. As part of the testimony, as part of the
- 24 discovery we stated that we believe there will be
- 25 definite reliability benefits to these programs and

- 1 certainly are willing to work with the Commission
- 2 staff on quantifying those programs and making
- 3 those -- targeting improvements for those individual
- 4 programs.
- 5 Q. In the past when the company's failed to
- 6 meet these targets, wouldn't it have made sense to
- 7 implement some of these programs back then, or is the
- 8 ESSS enough of an incentive for the company?
- 9 A. I think Senate Bill 221 provides a
- 10 mechanism for us to modernize our system and requests
- 11 that we align customers' expectations with
- 12 reliability, and these programs are designed to move
- 13 us in that direction.
- Q. Mr. Boyd, doesn't Senate Bill 221 also
- 15 provide that the Commission should examine the
- 16 current reliability of the company?
- 17 A. Yes.
- Q. And is the language from 221 where you
- 19 came up with the language about aligning customers'

- 20 expectations?
- A. No. I think we've used that language
- 22 previously with Commission staff.
- Q. Shouldn't any review of the company's
- 24 reliability look at whether they've been dedicating
- 25 enough resources in the past?

1	A. Yes.
2	Q. In other words, this isn't Senate Bill
3	221 wasn't just aimed at deciding or encouraging the
4	company to come forward and ask for more money from
5	its distribution plan; isn't that correct?
6	MR. NOURSE: Objection, your Honor. I
7	think he's already answered, you know, the specific
8	criteria that he was asked, but now he's just asking
9	whether the Senate bill was intended to allow
10	companies just to come in for more money.
11	EXAMINER BOJKO: Sustained.
12	MR. REESE: No further questions, your
13	Honor.
14	EXAMINER BOJKO: Mr. White.
15	MR. WHITE: No questions, your Honor.
16	EXAMINER BOJKO: Ms. Elder?
17	MS. ELDER: No questions, your Honor.
18	EXAMINER BOJKO: Mr. Maskovyak?

MR. MASKOVYAK: Just a few questions,

19

20	your Honor.
21	
22	CROSS_FXAM

- **CROSS-EXAMINATION**
- By Mr. Maskovyak:
- Q. Mr. Boyd, I'd like you to turn to page 12 24
- 25 of your testimony, and looking at the question and

- 1 answer beginning at line 6, on line 14 it talks about
- 2 a report about the percentage of people responding
- 3 well to the ability of AEP to provide electricity
- 4 without interruption. Did you attend any of the
- 5 public hearings?
- 6 A. No.
- 7 Q. Did any of your staff?
- 8 A. I don't know.
- 9 Q. Did you have -- have you seen any of the
- 10 testimony from the public hearings?
- 11 A. No.
- 12 Q. Have you heard any reports from the
- 13 public hearings?
- 14 A. Yes.
- 15 Q. Would it surprise you, then, to learn
- 16 that it would appear that far less than 85 percent of
- 17 the people appear to be happy with the overall
- 18 quality of the service from the public hearings of
- 19 people who gave information about their experience

- 20 with the quality of AEP service?
- 21 MR. NOURSE: Your Honor, I object to that
- 22 general characterization.
- 23 EXAMINER BOJKO: Sustained. There are at
- 24 least three "appears" in your question.
- Q. Would it surprise you that the public who

- 1 gave testimony on the issue of quality gave them in a
- 2 manner that represented a percentage less than
- 3 85 percent satisfaction?
- 4 MR. NOURSE: Your Honor, I object to --
- 5 EXAMINER BOJKO: Sustained.
- 6 MR. NOURSE: -- characterizing the
- 7 evidence in the record.
- 8 MR. MASKOVYAK: All right. I'll move on.
- 9 Q. Mr. Boyd, if you would turn to page 14,
- 10 I'm looking now at line 7 where you talk about the
- 11 AEP systems being challenged to keep up with customer
- 12 expectations now and in the future. Can you tell me
- 13 what those customer expectations are?
- 14 A. From a couple different sources is that
- 15 from the MSI survey that I referenced earlier and
- 16 provided in response to discovery, is that more than
- 17 half of customers think that two is as many
- 18 momentaries as they ought to see per year. More than
- 19 40 percent of customers think that service ought to

- 20 be restored when there's an outage in an hour or
- 21 less. 44 percent of those customers that responded
- 22 in the survey believe -- in this last survey or
- 23 quarter that zero sustained outages was an acceptable
- 24 level, and that changed from a year ago where that
- 25 was 20 percent of the customers responding.

1	And I think in our daily conversations
2	with customers and as we work with them to resolve
3	issues with modern technology is that they're
4	frustrated with momentaries and want to see the level
5	of service improve.
6	Q. Can I take from your response that it is
7	your belief that customers are not currently
8	satisfied, then, with the level of quality that you
9	are delivering?
10	A. No. I'm saying that their expectations
11	are changing, and that was a good bit of my
12	testimony, is that the customers' expectations are
13	changing.
14	Q. Do you believe that you are currently
15	meeting those changing expectations?
16	A. The purpose of this program is to meet
17	those changing expectations.
18	Q. I'd like to take you farther down your
19	page at line 18 when you talk about energy efficiency

- 20 and gridSMART. Is that intended to be connected up
- 21 to the question of customer expectations? Is that
- 22 part of their expectations?
- A. I don't know that I'm the right witness
- 24 to respond to the energy efficiency items, but the
- 25 gridSMART and distribution automation is a way to

- 1 improve reliability and have more realtime
- 2 information about the performance of the system.
- Q. And in your surveys are customers asking
- 4 for gridSMART technology?
- 5 A. I don't believe that's one of the
- 6 questions.
- 7 Q. So you don't know if part of their
- 8 expectations is the need for gridSMART technology.
- 9 A. I didn't look at the survey questions to
- 10 resolve an answer to that question.
- 11 Q. I'd like to take you to page 15 of your
- 12 testimony.
- 13 EXAMINER BOJKO: Before you move on, do
- 14 you think that employing gridSMART technology would
- 15 get you to the level of I think you said that most
- 16 customers are beginning to say zero sustained outages
- 17 are acceptable? Do you think employing the gridSMART
- 18 gets to that level?
- 19 A. No. And the system will not perform with

- 20 zero interruptions. What gridSMART and distribution
- 21 automation does is provide us realtime information on
- 22 how the system's performing and allows us to more
- 23 quickly address those problems as they occur rather
- 24 than waiting till the customer complains.
- 25 EXAMINER BOJKO: Have you done any

- 1 surveys to determine at what cost customers would
- 2 like to see their interruptions either minimized or
- 3 improved?
- 4 THE WITNESS: That was not part of that,
- 5 not to my knowledge.
- 6 EXAMINER BOJKO: Please continue.
- 7 MR. MASKOVYAK: Thank you, your Honor.
- 8 Q. (By Mr. Maskovyak) I'm turning to page 15
- 9 of your prefiled testimony, Mr. Boyd, and looking at
- 10 the answer to the question at the top of the page and
- 11 turning to line 5, you state that: "Just because
- 12 equipment is old and/or beyond its original expected
- 13 useful life does not mean it will fail in the near
- 14 future." And you go on to talk about how it
- 15 continues to function.
- 16 As I understand that answer, you are
- 17 providing a rationale for keeping equipment in
- 18 service even though it may be past its useful life,
- 19 however that's defined, because it's still working

- 20 well.
- A. Well, in your question I see a
- 22 contradiction in terms. If it's past its useful
- 23 life, it's not performing well. But what I'm saying
- 24 is that we simply would not replace equipment because
- 25 it's old. If it's performing its intended function

- 1 and will do so until the next inspection period, is
- 2 that we would continue to utilize that and gain value
- 3 from those assets.
- 4 Q. Okay. Then I guess I'm a little bit
- 5 confused. Were you here when Ms. Sloneker was
- 6 testifying?
- 7 A. Yes.
- 8 Q. She explained that in response to
- 9 questions from other counsel, that by using gridSMART
- 10 the intent was to replace current technology or
- 11 current meters even though they were still operating
- 12 fine, so that rationale seems contradictory to what
- 13 you just explained to me.
- 14 A. And I don't remember Witness Sloneker's
- 15 testimony in its entirety, but I believe is that if
- 16 we take equipment out of service, and let me use
- 17 equipment that we might replace, as we do
- 18 distribution automation, is that equipment has
- 19 sufficient life to warrant putting it back in

- 20 service, is that we would place that equipment in
- 21 service elsewhere on the system to avoid purchase of
- 22 new equipment.
- Q. Okay.
- MR. MASKOVYAK: Thank you. I have no
- 25 further questions, your Honor.

1	EXAMINER BOJKO: Thank you.
2	Mr. O'Brien.
3	MR. O'BRIEN: Thank you, your Honor.
4	
5	CROSS-EXAMINATION
6	By Mr. O'Brien:
7	Q. Good afternoon, Mr. Boyd. My name's Tom
8	O'Brien. I'm representing the Ohio Hospital
9	Association in this proceeding, and being 5:00, I'm
10	going to try to be as efficient as I possibly can
11	here.
12	Could you please turn to page 2 of your
13	testimony. Line 21 you reference major capacity
14	programs being a portion of your responsibilities.
15	My question to you is, what constitutes a major
16	capacity program as opposed to any other kind of
17	capacity program?
18	MR. NOURSE: Could I have the question
19	read back, please?

20	(Record read.)
21	EXAMINER BOJKO: Line 21, page 2.
22	MR. NOURSE: I'm sorry, page 21, line 2?
23	MR. O'BRIEN: No, page 2, line 21.
24	MR. NOURSE: Okay, thank you.
25	EXAMINER BOJKO: Please respond.

- 1 A. Is that I am more directly involved when
- 2 we're doing system capacity additions for circuit
- 3 additions, additional station capacities, is that
- 4 work goes on under my direction but I may not have
- 5 specific knowledge when we change out a transformer
- 6 in a neighborhood because another customer has added
- 7 an air conditioner.
- 8 Q. Okay. No, I follow that. Thank you.
- 9 That answers my question.
- And this goes to the general topic of
- 11 your testimony, and that is the enhanced service
- 12 reliability plan. I hope I'm not duplicating any
- 13 ground covered by Mr. Reese here, but I'm trying to
- 14 understand what is the enhancement part of this, that
- 15 is to say, what is expanding relative to some kind of
- 16 baseline in terms of all of these programs?
- 17 A. Many things are expanding in contrast to
- 18 the base programs. The distribution automation is
- 19 deploying, 21st century technology in the field in

- 20 a programmatic way, is that the overhead inspection
- 21 program is deploying new technology to help us
- 22 identify equipment before it fails. We're modifying
- 23 a visual inspection on overhead facilities to do more
- 24 climbing inspection, more hands-on inspections, is
- 25 that we're doubling the scope of the forestry program

- 1 to address more trees in a calendar year, in the
- 2 cable program is that we're creating a plan to
- 3 address cable that is at the end of its life and
- 4 causing reliability problems for those customers. So
- 5 a number of things are incremental and different.
- 6 Q. Okay. So we're talking about new and
- 7 different techniques for essentially managing the
- 8 system.
- 9 A. That's a big part of it, yes.
- 10 Q. Thank you. That helps.
- Turning to page 4 starting at line 15,
- 12 and this is a follow-up to a discussion you had with
- 13 Mr. Reese, you have referenced here equipment
- 14 failures causing approximately 33 percent of outages
- 15 and tree-related outages of approximately 20 percent.
- 16 I believe you indicated that those statistics are
- 17 derived from event reporting by the crews when they
- 18 encounter the outage; is that accurate?
- 19 A. Yes. The system we have today is an

- 20 on-line system where the crew reports the cause of
- 21 outage.
- Q. And it's determined at the time of
- 23 reporting what the category of causation is going to
- 24 be?
- A. Yes. We look for that crew to report the

- 1 root cause of that outage.
- Q. So if reported that way, there isn't a
- 3 possibility that the same event could wind its way
- 4 into two different categories?
- 5 A. No. Is that the system designed such
- 6 that you can only report one cause for each outage.
- 7 Q. Okay. Thank you. If you could turn your
- 8 attention to page 6 of your testimony. Do you see
- 9 the fourth bullet point down? You talk about network
- 10 system program in this list of programs. Could you
- 11 please -- do you see that --
- 12 A. Yes.
- Q. -- reference in your testimony? Could
- 14 you please describe for me what a network system is
- 15 or what it refers to? Excuse me.
- 16 A. Yes. In Ohio we have two network
- 17 systems. One is in the city of Columbus and the
- 18 other one is in the community of Canton, and they
- 19 serve the downtown area of those communities.

- Q. If I were to ask you what a network
- 21 service was, would that be a part of service provided
- 22 over a network system?
- A. That would be service provided from those
- 24 two different systems.
- Q. And why is network service used?

- 1 A. Is that this program is a program that we
- 2 report to in the ESSS rules, and there are specific
- 3 maintenance programs around maintaining that network
- 4 system.
- 5 Q. Are there cost differences between a
- 6 network system and an overhead system?
- A. Cost differences for the customer?
- 8 Q. Well, for AEP, for the company. Does one
- 9 cost more than another?
- 10 A. Is there a unit basis? I mean, the
- 11 overhead system costs more than a network system, but
- 12 there's a lot more of it.
- Q. Okay, I follow that. How about per
- 14 circuit mile?
- 15 A. Yes. A network system would be more
- 16 expensive per circuit mile than an overhead system.
- 17 Q. Why would that be?
- 18 A. It's an underground system and the
- 19 components cost more. The load density is much

- 20 greater. There's more demand on a mile of network
- 21 system than there would be a typical mile of overhead
- 22 system.
- Q. Are there any advantages to a network
- 24 system as compared to an overhead system?
- A. Yes. I just couldn't imagine what an

- 1 overhead system would look like if we were to provide
- 2 overhead service to the community of Columbus
- 3 downtown. I mean, there would be wires this big
- 4 around running up and down the alleys, and there
- 5 would be all kind -- I mean, you couldn't put an
- 6 overhead system in downtown Columbus to service that
- 7 load.
- 8 Q. I think I've got the picture.
- 9 A. Yeah.
- Q. To the extent that network service is
- 11 more expensive, who bears the cost differential of a
- 12 network service versus an overhead system service?
- 13 A. The cost for overhead underground network
- 14 system is recovered through our rates. There isn't a
- 15 different cost of service for an underground customer
- 16 versus an overhead customer. That's determined by
- 17 tariff and demand.
- Q. Can you tell me if the time for outage
- 19 repairs on network service is any different than that

- 20 same time line on an overhead system?
- A. It depends on the circumstance, but last
- 22 week, and I shouldn't mention this but we had an
- 23 outage on the network system here in Columbus, and to
- 24 finalize those repairs we're still working on that
- 25 today.

1	Q.	In the event	of a	failure	on a	ı network
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- 2 system, is there any redundancy or alternate pathways
- 3 that are available if there's a cut on a network's
- 4 system?
- 5 A. Yes. There's redundancy built into a
- 6 network system, but the extent of the outages that
- 7 we've had this last week did result in outages for
- 8 those customers served on that network. The
- 9 redundancy in a network system is built more around
- 10 our need to be able to maintain that.
- On an overhead system we can work that
- 12 system energized using insulated buckets and rubber
- 13 gloves and insulated tools. We cannot do that in an
- 14 underground system. We have to deenergize a portion
- 15 of that to do maintenance, so the redundancy in that
- 16 system facilitates us being able to provide service
- 17 without long extended outages to do routine
- 18 activities.
- 19 Q. Thank you.

- MR. O'BRIEN: Your Honor, may I approach
- 21 the witness?
- 22 EXAMINER BOJKO: You may.
- MR. O'BRIEN: Your Honor, I'd like the
- 24 following document marked as OHA Exhibit No. 1,
- 25 please.

1	EXAMINER BOJKO: It will be so marked.
2	(EXHIBIT MARKED FOR IDENTIFICATION.)
3	EXAMINER BOJKO: Can you explain what the
4	document is, just for the record?
5	MR. O'BRIEN: For the record, I have
6	handed the witness the response to OHA Interrogatory
7	Request No. 2-3 and it essentially contains an
8	Attachment 1, which is American Electric Power
9	underground distribution planning criteria.
10	Q. (By Mr. O'Brien) Mr. Boyd, are you
11	familiar with this document?
12	A. Yes, I've seen it before.
13	Q. And are you responsible for this response
14	to the OHA data request?
15	A. Yes.
16	Q. Could you please turn to the first page
17	of this Attachment 1 here, and you'll see there is a
18	definition of a radial-loop about 3/4 of the way down

19 the page.

- 20 A. Yes.
- Q. Could you please explain for the record
- 22 what a radial-loop is?
- A. Yes. In some of our underground
- 24 facilities, such as a commercial park or a
- 25 residential subdivision, is that we will construct

- 1 underground facilities that will run between -- from
- 2 an overhead circuit through a protective device to
- 3 underground pad mounts, that each pad mount may serve
- 4 a number of customers, and at some point on that
- 5 circuit there will be an open point to where you have
- 6 duplication of that system on the other side to
- 7 another riser, and that system is operated normally
- 8 open at that point.
- 9 But there is the opportunity, such as a
- 10 cable failure, is for our crews to be dispatched,
- 11 after the customer calls and reports an outage to be
- 12 dispatched to identify which of the halves of that
- 13 radial-loop is impacted and then to isolate and
- 14 identify the faulted section, then perform some
- 15 switching on the pad mount transformers to restore
- 16 customers to service.
- 17 Q. And similar to the question that I asked
- 18 you about network service, can you tell me what the
- 19 advantage of a radial-loop would be compared to

- 20 conventional overhead service, if there is any?
- A. Well, the advantages are the aspect of
- 22 not -- per customer of not having to look at the
- 23 overhead lines and have underground facilities. But
- 24 those customers are subject to the same outages if
- 25 you're looking at reliability advantages, for the

1 sai	ne outages	as other	r customers	that are	served	off
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- 2 of that overhead circuit.
- And doing that in a radial-loop with an
- 4 open point and the opportunity to perform switching
- 5 when an outage does occur allows us to restore
- 6 service without having to identify the specific
- 7 location within the earth where that fault occurred,
- 8 digging that up, and repairing it before service is
- 9 restored.
- Q. So would a radial-loop have any impact on
- 11 the duration of outages for customers on the affected
- 12 circuit?
- A. If that was just a radial circuit where
- 14 there wasn't loop opportunities, is that the outages
- 15 would be longer.
- Q. But the loop opportunity affects duration
- 17 how?
- A. Because with a loop we can identify the
- 19 faulted section relatively quickly with the tools we

- 20 have by identifying the specific location within the
- 21 earth where the cable is faulted, it takes different
- 22 tools and a longer period of time, plus, then you
- 23 have to do the excavation, and it allows us to not
- 24 have to do one call in the middle of the night and
- 25 wait for the gas company and everybody else to

- 1 respond such that we can dig and allows those folks
- 2 to do that on a routine basis.
- Q. Thank you.
- 4 Now, does what's been marked as OHA
- 5 Exhibit 1 explain at all when a radial-loop is called
- 6 for in network design?
- 7 A. The document we've been referring to,
- 8 that exhibit?
- 9 Q. Yes.
- 10 A. A radial-loop isn't used in network
- 11 systems as I've --
- 12 Q. I'm sorry, I misspoke. Does this
- 13 document explain when a radial-loop would be, you
- 14 know, its deployment would be called for?
- 15 A. I'd have to read through the document.
- 16 I'm not that familiar with the document to be able to
- 17 say.
- 18 Q. Okay. I'll withdraw that question.
- 19 Mr. Boyd, I want to ask you a couple of

- 20 questions, general questions, about feeder and
- 21 substation design. That would be within the scope of
- 22 your responsibilities, wouldn't it? And I'm not
- 23 referring to any particular portion of your testimony
- 24 at the moment.
- A. I don't have direct responsibility for

- 1 substation activity, but I have some knowledge of
- 2 that. I may be able to respond to your question.
- Q. Let me ask this question. When planning
- 4 for circuit capacity, what customer load is
- 5 considered when trying to determine what the ultimate
- 6 capacity of a circuit has to be?
- A. Well, generally we're looking at the peak
- 8 demand on that circuit, so we're looking at all
- 9 customer load on that circuit that would contribute
- 10 to the peak demand and the capacity of the circuit.
- 11 Q. Would that be a coincident peak or a
- 12 noncoincident peak?
- A. Well, if you're referring to the peak
- 14 that might be -- we'd be looking at the coincident
- 15 peak of all the customers on that circuit. If
- 16 another -- if you're speaking to AFS provisions, is
- 17 that we would look at the noncoincident peak of that
- 18 individual customer as to how that might apply to the
- 19 coincident peak of the customers already on that

- 20 circuit.
- Q. And I'll come back to AFS peak, but for
- 22 the moment I'm just asking for general circuit
- 23 design. Are you concerned with the coincident peak
- 24 of the customer --
- A. Coincident peak, yes, for all the

- 1 customers served on that circuit.
- 2 Q. Understood. On the same design topic,
- 3 can you tell me what the company's temperature design
- 4 point is for when you design a circuit? Do you
- 5 understand what I'm asking about when I ask that
- 6 question?
- A. What the ambient temperature design is --
- 8 Q. Yes.
- 9 A. -- or conductor temperature?
- 10 Q. Ambient.
- 11 A. Of the atmosphere?
- 12 Q. Right.
- A. Interestingly enough I don't know for
- 14 distribution service but I do know for station
- 15 transformers. And it's 30 degrees C for station
- 16 transformers.
- 17 Q. Is there a humidity design point?
- 18 A. I don't know that.
- 19 Q. Now, can you tell me why temperature and

- 20 humidity design points would be relevant in the
- 21 consideration of designing a circuit?
- A. Yeah. As you design for the capacity of
- 23 the circuit, you're looking at the thermal loading of
- 24 that circuit, and as that conductor picks up more
- 25 load, it dissipates more heat so you have to do that

- 1 design around how will that conductor dissipate or
- 2 that transformer dissipate heat, and you pick a
- 3 thermal or ambient temperature such that you know
- 4 that that device is dissipating enough heat at that
- 5 design temperature.
- 6 Q. Can you tell me if transformers have
- 7 normal load ratings and in addition have emergency
- 8 load ratings?
- 9 A. Yes, they do.
- Q. Can you tell me approximately how much
- 11 larger an emergency load rating for a transformer
- 12 would be versus its normal rating?
- 13 A. No, I can't.
- Q. Can you tell me if there is a typical
- 15 durational rating for a transformer's emergency
- 16 capacity?
- 17 A. Yes. That load, emergency load rating
- 18 changes with the duration of the load, is that it
- 19 would have a higher rating for a two-hour demand on

- 20 that transformer versus an 8- or a 12-hour demand.
- Q. I ask you now to turn to page 10 of your
- 22 testimony, and on lines 7 and 8 you're talking about
- 23 the increasing asset failure rate. Have you done any
- 24 quantification of that increasing rate of failure?
- A. I don't believe so. What we do, such as

- 1 cutouts, we track the number of failures that we have
- 2 for those devices, but as far as have we done
- 3 analysis 1 percent, 2 percent, whatever, I don't know
- 4 that we've done that.
- 5 Q. Now, would that same answer apply to the
- 6 reference on page 15 of your testimony to age-related
- 7 failures and the question I asked you about
- 8 quantification?
- 9 A. No, I don't know whether we've done that.
- 10 Q. Turning now to page 12 of your testimony
- 11 where you discuss this market -- strike that.
- 12 International survey, single question for
- 13 you on this, are you aware of how MSI determined its
- 14 residential -- how it solicited its residential
- 15 respondents and its commercial respondents?
- 16 A. Different process for each, I believe.
- 17 For the residential customers is that we look at the
- 18 zip code where those customers reside and pick a
- 19 quantity of customers to respond from that zip code,

- 20 and then MSI -- MSI does all this. We're not
- 21 involved. We just look at the results. They do the
- 22 surveys. It's independent of us.
- But they then will ask that customer if
- 24 it's a territory that might be divided, is that
- 25 they'll ask them who they receive service from, and

- 1 if it's not from AEP-Ohio or Columbus -- Columbus &
- 2 Southern or Ohio Power, then they'll end the call.
- 3 But if that customer responds that they're one of our
- 4 customers, then they'll ask them if they're the
- 5 individual that typically, you know, is involved with
- 6 electric service and paying the bills and then
- 7 continue down a list of questions for that customer.
- 8 I'm not as sure on the commercial side,
- 9 but I believe is that we do that in a similar way, or
- 10 we provide that information to MSI and they try to
- 11 pick a random sample. Now, that's a little bit
- 12 different, though, for those customers that have
- 13 managed accounts, and that process is a little
- 14 different and done by a different survey organization
- 15 I believe.
- 16 Q. Okay. Thank you, that answers my
- 17 question.
- Could you please turn to page 17 of your
- 19 testimony, specifically line 21. Is the company

- 20 proposing any metrics for determining how we're going
- 21 to measure this better improved service quality?
- A. With respect to sustained outages is that
- 23 we want to work with the Commission staff to quantify
- 24 that as we spend the incremental dollars for those
- 25 programs that we receive the estimated reliability

- 1 benefits as described in my testimony, so we'd be
- 2 looking at moving the reliability metrics associated
- 3 with that for those specific outage causes.
- 4 Q. Has the company considered what those
- 5 metrics might be?
- 6 A. Not in great detail, but I guess in
- 7 working with the staff, and I think there's something
- 8 underway now to maybe look at changing the metrics
- 9 around reliability performance, but we'd work with
- 10 the staff to do that.
- 11 Q. My next question relates to charts 5
- 12 through 10, I think they go up to 10, don't they?
- 13 Yeah. Each one of these charts down at the bottom
- 14 has an incremental cost, and I think this -- well, I
- 15 want to find out whether or not this relates to the
- 16 question I asked you very early on in my
- 17 cross-examination as to -- I'm interested in what the
- 18 baseline cost is against which this incremental cost
- 19 is added.

- You know, I asked you about charts 1
- 21 through -- 5 through 10. If the answers are
- 22 different for any particular chart, please let me
- 23 know.
- MR. NOURSE: Your Honor, could I have
- 25 just a minute. I don't think chart 6 falls in that

- 1 category. I'm looking at the rest of them.
- 2 MR. O'BRIEN: That's correct, your Honor.
- 3 I'm sorry.
- 4 MR. NOURSE: 5, 7, 8, 9, 10?
- 5 MR. O'BRIEN: Yeah.
- 6 Q. Of the charts that have the incremental
- 7 cost row down at the bottom, I'm just trying to
- 8 understand what the baseline cost would be to which
- 9 the increment applies.
- 10 A. The baseline costs are not shown on these
- 11 charts, but the incremental costs are the costs that
- 12 we are historically spending on these programs for
- 13 those activities, and we'd certainly want to work
- 14 with staff to help define what that baseline is and
- 15 would work on providing appropriate clarity into our
- 16 expenditures such that these cost additions would be
- 17 incremental to the expenditures in these programs.
- Q. But would it be safe to say that the
- 19 dollars, these incremental dollars that are listed in

- 20 these charts, are driven by the enhanced activities
- 21 we discussed in my previous questioning?
- 22 A. Yes.
- Q. Okay. Thank you.
- I have just a very few questions left,
- 25 but I must find them. Let's go off the record.

1	(Off the record.)
2	EXAMINER BOJKO: Let's go back on the
3	record.
4	Mr. O'Brien.
5	Q. Mr. Boyd, can you tell me about how often
6	circuit capacity is reviewed? And was that a clear
7	question?
8	A. That's a clear question. I'm just
9	thinking of the answer. Is that I'm not certain
10	whether every circuit is reviewed on an annual basis,
11	but certainly when we see that a circuit demand has
12	changed and if the history of that circuit has been
13	to where it's been loaded near capacity. I'm not
14	certain of the answer.
15	Q. If I modified that question to apply
16	directly to an AFS-affected circuit, would you be
17	able to tell me what the duration of review would be

A. No, I cannot.

18 then?

19

- Q. When you evaluate a circuit for capacity
- 21 relative to AFS service being added to that circuit,
- 22 what capacity level of the customer requesting the
- 23 AFS service is used?
- A. I'm not certain, but I would assume it's
- 25 the peak demand of that customer.

1	Q. And similar to our previous discussion				
2	about customer peak demand, would that be coincident				
3	or noncoincident?				
4	A. I'm not certain.				
5	Q. And, again, when evaluating the capacity				
6	of a circuit in conjunction with an AFS customer, is				
7	the emergency rating of the circuit and serving				
8	transformers considered?				
9	A. I don't know what rating of equipment				
10	that they use.				
11	Q. Thank you.				
12	MR. O'BRIEN: One moment, your Honor.				
13	Thank you, Mr. Boyd. That's all the				
14	questions I have.				
15	EXAMINER BOJKO: Mr. Jones.				
16					
17	CROSS-EXAMINATION				
18	By Mr. Jones:				
19	Q. Good evening, Mr. Boyd.				

- A. Good evening.
- Q. My name is John Jones, and I represent
- 22 staff in this proceeding. I have a few questions for
- 23 you.
- In regard to the distribution automation
- 25 initiative, do the companies already have an

- 1 automated switching program in operation in Ohio?
- 2 A. I believe we'll have one before the end
- 3 of the hearing in service.
- 4 Q. Okay.
- 5 A. You mean distribution automated, yes.
- 6 EXAMINER BOJKO: What time period is
- 7 that, Mr. Boyd?
- 8 THE WITNESS: I think I'm safe.
- 9 Q. Mr. Boyd, where in Ohio do the companies
- 10 plan to implement DA?
- 11 A. With respect to the one that we're
- 12 placing in service in December?
- 13 Q. Yes.
- 14 A. I believe it's the Rosemont Darden area
- 15 south of Chillicothe.
- Q. Okay. And that would be inside the
- 17 gridSMART phase 1 area?
- 18 A. No; outside.
- 19 Q. Outside.

- 20 A. Yes.
- Q. And how many -- first of all, I want to
- 22 ask you how many circuits would be affected by
- 23 Attachment A inside phase 1 area?
- A. Approximately 70.
- Q. And outside the phase 1 area?

- 1 A. With the DA-enhanced reliability plan,
- 2 approximately 20 in the first three years.
- 3 Q. Approximately 20?
- 4 A. Yes. I believe that's correct.
- 5 Q. Now, Mr. Boyd, are the communication
- 6 pathways and technology different for the DA outside
- 7 the gridSMART phase 1 area as compared to inside
- 8 phase 1 area?
- 9 A. They may be.
- Q. And can you describe those differences?
- 11 A. Is that within the gridSMART area I
- 12 believe we're looking to use a mesh communications
- 13 network, and outside the gridSMART area we may use
- 14 cellular or radio communications technology.
- 15 Q. Okay. Mr. Boyd, can you tell me whether
- 16 AEP's proposed DA initiative involves switches that
- 17 are activated automatically, remotely, or both?
- 18 A. I'm not sure of the distinction that you
- 19 have between automatically or remotely.

- Q. Well, let's start with automatically. Is
- 21 it an automatic switch, or how does it work?
- A. Well, okay. The switch would be -- I
- 23 thought you were asking around would we use
- 24 centralized intelligence for that switch or would we
- 25 use distributed intelligence for that switch.

- 1 Q. And your answer would be?
- 2 A. Is that for the gridSMART area we'd most
- 3 likely use centralized intelligence, but we may use
- 4 remote intelligence -- or, distributed intelligence
- 5 outside the gridSMART area.
- 6 Q. Okay. And for the proposed initiative,
- 7 the DA initiative, is it dependent upon a supervisory
- 8 control and data acquisition system at each
- 9 substation serving the circuits where DA would be
- 10 installed?
- 11 A. It could be but not necessarily.
- 12 Q. And why not? Why wouldn't it be
- 13 necessary?
- 14 A. Is that with distributed intelligence you
- 15 can use DA without having SCADA.
- Q. Now, looking at the outside circuits, the
- 17 20 outside circuits you're referring to, didn't AEP
- 18 estimate that there would be no SAIDI performance
- 19 improvements for a DA that would be installed outside

- 20 of gridSMART area 1?
- 21 A. No.
- Q. There would not be any SAIDI performance
- 23 improvements for --
- A. No. We said that we did not calculate
- 25 that.

- 1 O. Did not calculate that.
- 2 A. That's correct. But there would be
- 3 improvement.
- 4 Q. And how do you know that?
- 5 A. Is that just as we know there would be
- 6 improvement in the gridSMART area, is that we would
- 7 deploy that where it would provide the maximum
- 8 benefit for that technology and that location, is
- 9 that in the gridSMART area we looked back at the
- 10 previous year 2007 and looked at each of those
- 11 circuits on the outages that we had and what the
- 12 consequences would have been had we deployed
- 13 gridSMART.
- And what we found is that SAIDI would
- 15 have been reduced for that entire 70 circuits by 65
- 16 minutes. We would expect a similar improvement in
- 17 the areas where we deploy DA outside the gridSMART
- 18 area, but we don't know the specifics because we
- 19 haven't determined yet where that might be deployed.

- Q. Okay. And as to the estimate for the DA
- 21 cost, was that not projected to be \$11.7 million for
- 22 the 20 circuits?
- A. 11.7 million, yes.
- Q. Yes. And I believe you had provided that
- 25 in chart 10 on page 37 of your testimony as well as

- 1 your Exhibit KGB-1, correct?
- A. And also on chart 9.
- Q. Thanks.
- 4 And for further clarification on the 20
- 5 circuits outside the phase 1 area, that would be
- 6 spread across both the CSP and OP service areas?
- 7 A. Yes.
- 8 Q. And other than what you mentioned what
- 9 would go in effect for December, other circuits
- 10 outside of phase 1 area have yet to be identified; is
- 11 that an accurate statement?
- 12 A. For the incremental program, that's
- 13 correct.
- 14 Q. Okay. And for clarification also, how
- 15 many circuits then would be affected with what's
- 16 going to be implemented in December outside the phase
- 17 1 area?
- A. On that circuit that is a 34 distribution
- 19 circuit itself between two stations, and there are

- 20 customers served along that circuit, but that circuit
- 21 also provides subtransmission service to two
- 22 substations which have circuits within them. So what
- 23 we would do would not only provide reliability
- 24 enhancements for the customers directly served from
- 25 the circuit between those two stations, it would also

- 1 provide isolation of faults on the source to those
- 2 substations. So it would impact more circuits than
- 3 the 19-9 distribution circuit that it is applied to.
- 4 MR. JONES: Your Honor, if I could just
- 5 have a second.
- 6 EXAMINER BOJKO: Did you say the cost was
- 7 11.6 or 11.7?
- 8 THE WITNESS: If I look at chart 10, I
- 9 see 11.7 if I add those two numbers.
- 10 EXAMINER BOJKO: So look at chart 9.
- 11 THE WITNESS: Yeah. There's likely a
- 12 rounding error as we rounded the division between CSP
- 13 and OP and then carried that down to the bottom row.
- EXAMINER BOJKO: But they're both meant
- 15 to represent the same cost.
- 16 THE WITNESS: The same amount, yes.
- 17 EXAMINER BOJKO: Thank you.
- 18 Q. (By Mr. Jones) Mr. Boyd, you testified as
- 19 to what's being implemented at Chillicothe. That's

- 20 not part of your plan here; is that correct? That's
- 21 something you already started.
- A. Yes; and hope to have in service soon.
- Q. Mr. Boyd, can you tell me, describe for
- 24 me the difference between the mesh and the cellular
- as to what you described for the technology

- 1 difference?
- 2 A. Really reaching beyond my understanding
- 3 of how that technology operates.
- 4 Q. Okay. Would there be any other witnesses
- 5 for AEP that could provide a more in-depth
- 6 description or not?
- 7 A. Not that's testified -- I mean, not that
- 8 hasn't already testified. Witness Sloneker could
- 9 have I believe.
- 10 Q. Okay. Mr. Boyd, as to what you testified
- 11 to, the distributed intelligence, does that require
- 12 communication back to the dispatch?
- A. It does not, but we would include that
- 14 into our system design, but it can operate isolated.
- 15 Q. Okay.
- 16 A. But we want that information.
- 17 Q. Okay.
- MR. JONES: That's all I have. Thank
- 19 you.

Thank you, Mr. Boyd.
EXAMINER BOJKO: Thank you.
Mr. Nourse, do you have any redirect?
MR. NOURSE: A couple questions, your
Honor.

1	REDIRECT EXAMINATION				
2	By Mr. Nourse:				
3	Q. Mr. Boyd, earlier you had questions about				
4	what the companies are doing to address aging				
5	infrastructure. Do you recall that from Mr. Reese?				
6	A. Yes.				
7	Q. Now, is it the case relative to the				
8	programs, the asset management programs, they were				
9	formalized around 2000, the year 2000, in conjunction				
10	with implementation or adoption of the ESSS rules,				
11	and did those programs exist prior to that time?				
12	A. No.				
13	Q. I'm sorry. I kind of asked you a				
14	compound question. Let me break it down. The asset				
15	management programs, the activities underlying those				
16	programs that are reported now in the ESSS rules,				
17	first of all, do you know about when the ESSS rules				
18	were adopted?				

A. Around 2000. I thought that was the

19

- 20 question you were asking, did those exist prior,
- 21 okay.
- Q. I guess the question -- they were
- 23 formalized, let's say, for the reporting. Did the
- 24 underlying activities that are formalized now in that
- 25 reporting, did those activities occur prior to 2000?

- 1 A. Yes. We performed those activities prior
- 2 to 2000.
- 3 Q. Okay. Now, you also received some
- 4 questions I believe from Mr. Reese about in
- 5 conjunction with replacement of equipment, and I
- 6 understand your answers to have been along the lines
- 7 of, well, when we inspect it we believe it will be in
- 8 service beyond the next inspection cycle so we leave
- 9 it in the field. Do you recall that?
- 10 A. Yes.
- 11 Q. So you wouldn't normally replace it under
- 12 general distribution maintenance policies?
- 13 A. That's correct.
- Q. Now, is there a distinction to be drawn
- 15 with the gridSMART aspect in the company's current
- 16 proposal for replacing smart meters with existing
- 17 conventional meters?
- 18 A. Yes; is that we may replace meters that
- 19 no longer provide the functionality that more modern

- 20 meters might provide.
- Q. So in the case of the gridSMART program,
- 22 the advanced technology capabilities of those smart
- 23 meters provides the basis for that replacement.
- A. That's correct.
- Q. Thank you.

1	And you had some questions about some of
2	the ESRP programs that extend beyond the three-year
3	term of the ESP. Do you recall that?
4	A. Yes.
5	Q. And relative and I believe you stated
6	that basically the programs, the three years, the
7	revenue collected in the three years of the ESP and
8	the rates designed to collect those revenues paid for
9	three years of those costs, even though the costs of
10	those programs would extend beyond the three-year
11	term; is that correct?
12	A. That's correct.
13	Q. Now, is it fair to say that the cost
14	proposed to be recovered during the three-year period
15	of the ESP are commensurate, in your opinion, with
16	the benefits that would be received within the
17	three-year period of the ESRP?
18	A. That's correct.

Q. Okay. Now, can I ask you, do the

19

- 20 reliability indices reflect outages caused by a major
- 21 storm?
- A. The indices that we report to the
- 23 Commission exclude major storm.
- Q. Now, take an example. If a circuit is
- 25 strengthened by maintenance, will there be instances

- 1 where a weather-related event will not result in a
- 2 major event even though the same weather event would
- 3 have resulted in a major event prior to the
- 4 maintenance?
- 5 A. That's possible.
- 6 Q. Okay. To that extent would you expect
- 7 some negative effects on indices as a result of
- 8 performing the maintenance?
- 9 A. That's correct, is that as we do this
- 10 work, and the system performs better for weather
- 11 events is that some events that now meet the current
- 12 criteria for exclusion may not fall -- move that
- 13 high.
- MR. NOURSE: Thank you, your Honor.
- 15 That's all I have.
- 16 EXAMINER BOJKO: Mr. Reese, do you have
- 17 any recross?
- 18 MR. REESE: No, your Honor.
- 19 EXAMINER BOJKO: Staff?

20	MR. JONES: No, your Honor.
21	EXAMINER BOJKO: Mr. O'Brien?
22	MR. O'BRIEN: No, your Honor.
23	EXAMINER BOJKO: Ms. Elder?
24	MS. ELDER: No.

25 MR. MASKOVYAK: No, your Honor.

1	EXAMINER BOJKO: Okay.
2	MR. WHITE: What about me?
3	EXAMINER BOJKO: Mr. White?
4	MR. WHITE: No, your Honor. I had some
5	but
6	EXAMINER BOJKO: Just I wasn't going to
7	go through everything.
8	MR. NOURSE: I renew my motion for
9	admission of Exhibit 11, your Honor.
10	EXAMINER BOJKO: Any opposition to the
11	admission of Boyd Direct Testimony Exhibit 11?
12	Hearing none, it will be admitted.
13	(EXHIBIT ADMITTED INTO EVIDENCE.)
14	MR. REESE: Your Honor, I'd like to move
15	Exhibit 9 for OCC.
16	EXAMINER BOJKO: Any opposition to
17	Exhibit 9?
18	It will be admitted.
19	(EXHIBIT ADMITTED INTO EVIDENCE.)

- 20 EXAMINER BOJKO: How about OHA Exhibit 1,
- 21 do you move that?
- MR. O'BRIEN: Your Honor, I so move.
- 23 EXAMINER BOJKO: Thank you. Any
- 24 opposition?
- 25 MR. MASKOVYAK: No.

1	EXAMINER BOJKO: You may step down				
2	Mr. Boyd.				
3	It will be admitted as OHA Exhibit 1.				
4	(EXHIBIT ADMITTED INTO EVIDENCE.)				
5	EXAMINER BOJKO: The order I have for				
6	Monday is Fein, Smith, Medine, Finamore, Cleaver, and				
7	then obviously Roush and Baker if we can get to them.				
8	MR. CONWAY: No problem.				
9	MR. ETTER: What time are we going to				
10	start on Monday?				
11	EXAMINER BOJKO: We will start at 9 a.m.				
12	on Monday. We will at 9 a.m. from here on out except				
13	for December 1st, the Monday after Thanksgiving.				
14	I'd also like to note quickly on the				
15	record that we discussed the briefing for the				
16	1/1/09 plan. The briefs will be due December				
17	3rd instead of December 2nd initially. They will				
18	be due December 3rd, and we will not have reply				
19	briefs regarding that issue.				

20	Thank you, and we are adjourned until			
21	Monday morning at 9 a.m.			
22	(The hearing adjourned at 6:24 p.m.)			
23				
24				
25				

270

1	CERTIFICATE				
2	I do hereby certify that the foregoing is				
3	a true and correct transcript of the proceedings				
4	taken by me in this matter on Friday, November 21,				
5	2008, and carefully compared with my original				
6	stenographic notes.				
7					
8					
9	Maria DiPaolo Jones, Registered Diplomate Reporter, CRR and Notary				
10	Public in and for the State of Ohio.				
11	(3302-MDJ)				
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Summary: Transcript AEP Volume V 11/21/08 electronically filed by Mrs. Jennifer D. Duffer on behalf of Armstrong & Okey, Inc.