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BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

- - -

In the Matter of the :
Review of the Application :
of Ohio Edison Company, :
The Cleveland Electric :
Illuminating Company, The : Case No. 12-2190-EL-POR
Toledo Edison Company for : Case No. 12-2191-EL-POR
Approval of Their Energy : Case No. 12-2192-EL-POR
Efficiency and Peak :
Demand Reduction Program :
Portfolio Plans for 2013 :
through 2015. :

- - -

PROCEEDINGS

before Mr. Gregory Price and Ms. Mandy Willey Chiles,
Attorney Examiners, at the Public Utilities
Commission of Ohio, 180 East Broad Street, Room 11-A,
Columbus, Ohio, called at 9:00 a.m. on Tuesday,
October 23, 2012.

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VOLUME II

- - -

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1 Tuesday Morning Session,
2 October 23, 2012.

3 - - -

4 EXAMINER PRICE: Let's go on the record.
5 Good morning. The Public Utilities Commission has
6 set for hearing at this time and place Case Nos.
7 12-2190-EL-POR, et al., being In the Matter of the
8 Application of Ohio Edison Company, the Cleveland
9 Electric Illuminating Company, and The Toledo Edison
10 Company for Approval of Their Energy Efficiency and
11 Peak Demand Reduction Program Portfolio Plans for
12 2013 through 2015.

13 My name is Gregory Price. With me is
14 Mandy Willey Chiles. We are the attorney examiners
15 assigned to preside over today's hearing. This is
16 day two of our hearing. We'll dispense with any
17 appearances today.

18 Our first order of business, is counsel
19 prepared to take up the motion to admit the
20 supplemental testimony of Dylan Sullivan?

21 MS. KOLICH: I am, your Honor.

22 EXAMINER PRICE: Okay. Mr. Allwein, why
23 don't you briefly summarize your arguments for the
24 Bench, and then we will allow the company and others
25 to respond.

1 MR. ALLWEIN: Thank you, your Honor.
2 Rule 4901-1-29(C) allows for additional testimony,
3 which I've referred to as supplemental testimony, as
4 long as such testimony could not with reasonable
5 diligence have been filed and served within the time
6 limits, will not unduly delay the proceeding, or
7 unjustly prejudice any other party. And this is at
8 the discretion of the attorney examiners.

9 I would emphasize for -- I guess to
10 resummarize my arguments, prior to September 24, we
11 didn't have sufficient information to make all of the
12 analysis that we made here, and within the truncated
13 time schedule, there was a lot of work to do.
14 Mr. Sullivan completed this analysis in the most
15 reasonable timeframe possible, given his other
16 responsibilities, you know, which included both
17 preparing his initial testimony and exhibits, looking
18 through the 1,500 pages of the plan, plus another
19 couple hundred pages of testimony, and intervenor
20 objections and testimony.

21 And I think that he performed reasonable
22 diligence to get this done. You know, the company is
23 not going to suffer any prejudice. This is their
24 information. They are quite familiar with it. It's
25 a central issue in the case so I don't think it's

1 going to unduly delay the proceeding. And, in fact,
2 this summarizes information that would take a long
3 time to get out of cross-examination of various
4 witnesses if we were to proceed that way.

5 But I believe we have satisfied all of
6 the requirements in Rule 4901-1-29(C), and we ask the
7 attorney examiners to submit this supplemental
8 testimony -- or approve this supplemental testimony
9 for submission.

10 EXAMINER PRICE: Company.

11 MS. KOLICH: Thank you, your Honors.
12 Before I start, I would like to have a couple of
13 exhibits marked for identification, please.

14 EXAMINER PRICE: You may.

15 MS. KOLICH: The first being the
16 deposition transcript of Mr. Sullivan, would be page
17 23 -- well, pages 22, 23, 24, 25. I would like that
18 marked as Company Exhibit 8 for identification.

19 EXAMINER PRICE: It will be so marked.

20 (EXHIBIT MARKED FOR IDENTIFICATION.)

21 MS. KOLICH: The second exhibit is a
22 deposition transcript of Mr. Sullivan taken on pages
23 94, 95, 96 and 97. I would like that one marked as
24 Company Exhibit 9 for identification, please. ROSE

25 EXAMINER PRICE: So marked.

1 (EXHIBIT MARKED FOR IDENTIFICATION.)

2 MS. KOLICH: Does counsel have a copy of
3 the transcript?

4 MR. ALLWEIN: I do not. And, counsel,
5 I'm sorry, could you just repeat the page numbers
6 again for me? Thank you.

7 MS. KOLICH: Sure. It's pages -- well,
8 mine is four pages on one, so the pages I'll be
9 referring to are pages 23 and 24 and pages 95 -- page
10 95.

11 Your Honors, NRDC has asked you to grant
12 leave to file written supplemental expert testimony
13 on the opening day of these hearings pursuant to Rule
14 4901-1-29(C). This request should be denied for
15 several reasons.

16 First, the request is not within the
17 scope of the rule. Second, the NRDC has failed to
18 demonstrate that with a little diligence, they
19 couldn't have provided this in a timely manner within
20 the timeframes established by the Bench. And, third,
21 the granting of the motion would unjustly prejudice
22 the companies should it be granted.

23 As a preliminary matter, if you look at
24 the test of 4901-1-29(C), it does contemplate the
25 filing of oral testimony but not written testimony, a

1 fact conveniently omitted both when Mr. Allwein
2 summarized his position as well as in the motion
3 itself at page 2 by simply putting an ellipsis over
4 that little detail.

5 EXAMINER PRICE: But surely it's better
6 for you he gave you written testimony than if he had
7 come in when he was presenting Mr. Sullivan and said,
8 "I would like leave to do some additional questions
9 on cross." I mean, at least this lets you see it
10 ahead of time.

11 MS. KOLICH: It does, but it also allows
12 him several weeks to prepare and wordsmith that
13 testimony and get it exactly the way he wants it, as
14 opposed to having him explain it orally. But, yes,
15 I -- I will concede that having the testimony, at
16 least I know what he's planning to say, although --
17 additionally 4901-1-29(C) provides the Bench with the
18 discretion to permit an expert witness to present
19 oral testimony at hearing. In light of this -- well,
20 strike that.

21 But let's assume arguendo that NRDC could
22 overcome this detail and it was permitted to file
23 prefiled supplemental expert testimony out of time.
24 They also have the burden to demonstrate that they
25 could not have provided it within the timeframes

1 established with reasonable diligence. In the motion
2 3, NRDC claims that it received certain results as of
3 September 18 during a meeting on September 24. Even
4 if that's the case, NRDC had 10 days after receiving
5 the information to assimilate the several pages of
6 testimony that they have done here.

7 Given the conclusions reached by
8 Mr. Sullivan that the plans are not designed to
9 achieve the result -- or achieve the benchmarks as
10 set forth in the statute, using the information as of
11 September 18 would have required certain
12 extrapolations in order to draw those conclusions.

13 There's nothing magical about September
14 18 when you are extrapolating. This information
15 could have been requested in discovery. Plans were
16 filed on July 31. Our first set of six sets of
17 discovery from NRDC came in on August 1. As they've
18 even acknowledged, this is a primary issue. If it
19 was so primary of an issue, what took them so long to
20 figure out that they needed this information?

21 So had they thought about it, they had
22 ample time to ask for this information prior to
23 September 18 or September 24, and if you --

24 EXAMINER PRICE: Can I clarify? You are
25 saying they never asked for this information in

1 discovery prior to September 24?

2 MS. KOLICH: That's my understanding.

3 Counsel can confirm or correct me. I don't --

4 EXAMINER PRICE: I'll get around to
5 asking them.

6 MS. KOLICH: Okay. But, your Honors, if
7 you look at page 23 of Mr. Sullivan's deposition
8 taken on October 12, I asked him a question starting
9 on line 15, "Question: Okay, on line 7, you say that
10 the company's focus fails to position them to meet
11 statutory requirement years outside the plan. Do you
12 see that?

13 "Answer: Yes," line 20.

14 So I'm referring then I guess to 2015 to
15 2025, so without reading the transcript, which you've
16 got in front of you, generally Mr. Sullivan, on the
17 fly, concludes that the -- the plans will not -- the
18 plans will not achieve the results in the years 2015
19 through 2025, and if you look at page 24, line 8,
20 "Okay" -- answer by Mr. Sullivan, "Okay. I said this
21 is not really a quantitative point here, although you
22 can see that the incremental energy savings actually
23 goes down, the incremental energy savings that the
24 company plans to get goes down in the year 2015, in
25 the last year of the proposed plan. So if that

1 trajectory continues, that certainly means, you know,
2 it makes my answer with the target outside of the
3 plan more difficult."

4 Now, that conclusion was drawn literally
5 on the fly based on a question I asked with no
6 analysis whatsoever. But more importantly, if you
7 turn to page 95 of his deposition transcript, line
8 12, I ask him: "Okay. Just to recap here, I want to
9 just button down a few things. So, Mr. Sullivan,
10 you're not claiming the plan before the Commission,
11 the design of the plan, won't hit the targets for '13
12 through '15, are you?

13 "Answer: Well, I'm not claiming that it
14 will or it won't."

15 Now, this was on October 12, and at that
16 point there was no mention of any analysis in
17 progress. There was no notice to the company that an
18 analysis was in progress, and instead, the NRDC
19 waited until the eve of the hearing to put the
20 company on notice that this was an issue for them and
21 that they were in the process of doing this analysis.

22 Not only does that, it prejudice's the
23 companies on several grounds. First, by not giving
24 us notice, there is unfair surprise come the day of
25 the hearing. Second, so let's assume that the

1 analysis was in progress on the day of the
2 deposition. Why wasn't the company informed that
3 they were at least doing that, rather than waiting
4 until the day of the hearing to file the motion and
5 telling counsel on the -- two days before hearing of
6 their intent to file this testimony?

7 Second, let's assume it wasn't done as of
8 the 12th. Then they basically got the analysis done
9 in eight days when they said they couldn't get it
10 done in 10 days. Not only that, by allowing them to
11 file this testimony after the company has deposed the
12 witness and disclosed somewhat of their trial
13 strategies and pointing out the flaws in their case,
14 this gives them an opportunity to basically
15 rehabilitate their direct case after the companies,
16 more or less, disclosed their strategies, and that's
17 prejudicial to the companies.

18 So to recap, first of all, written
19 testimony is not contemplated in the rule, regardless
20 of whether it was more beneficial to me to see it.
21 Second, they could have gotten this finished within
22 the timeframes allotted by the Bench in the
23 procedural schedule; and, third, even if they
24 couldn't, the company was deserving of receiving
25 notice of this well before the eve of the hearing,

1 and for those reasons this motion should be denied.

2 EXAMINER PRICE: Any other party care to
3 weigh in on this before we get a response from
4 Mr. Allwein?

5 Mr. Allwein.

6 MR. ALLWEIN: I would like to go back to
7 some of the items that Kathy addressed. You know,
8 these are calculations in addition to the testimony.
9 I mean, it goes beyond wordsmithing, and again, going
10 to the language of the rule, it talks about
11 reasonable diligence, and there are only so many
12 hours in a day and we had a lot of other issues that
13 we were working on in this case.

14 We did request all of the companies'
15 tables in our first set of discovery and there wasn't
16 sufficient information in those tables to make all of
17 the calculations that are presented in this
18 testimony.

19 And, you know, I guess, I would bring up
20 when you look at the items that counsel has cited in
21 this transcript, I mean, No. 1, she's saying that he
22 concluded this on the fly, and I believe 23 and 24
23 he's talking about the years looking into the future
24 outside of the plan. Those are demonstrated in the
25 Market Potential Study.

1 And then on page 95 he's not claiming
2 that it will or it won't because as of that time,
3 this wasn't even finished. I mean, it takes some
4 time to figure out how to do something like this.

5 And I just have two more points. One is
6 that, you know, there was reliance here, too. The
7 company makes several statements both in the plan and
8 in their testimony and they made these statements in
9 the collaborative that the plan was designed to meet
10 the benchmarks. So if we're wrong for taking some of
11 those statements at face value -- well, I guess we
12 proved we were wrong taking those at face value.

13 And, let's see -- sorry.

14 EXAMINER PRICE: I think we've heard
15 enough. Thank you.

16 MR. ALLWEIN: All right.

17 EXAMINER PRICE: I think that the company
18 makes some very good points, but we do want to give
19 the parties a little bit of leeway here so we are
20 going to do a couple of things. We will let you
21 submit the testimony of Mr. Sullivan. However, you
22 will make him available for an additional deposition
23 if the company -- if the company desires before we
24 put Mr. Sullivan on. And, second, we will give the
25 companies considerable leeway at the time of his

1 cross-examination to address these issues.

2 MS. KOLICH: Thank you, your Honor.

3 Just a point of clarification, when -- is
4 Mr. Sullivan planning to go on the stand today, or
5 given the Bench's ruling, can he go on a little bit
6 later in the week?

7 EXAMINER PRICE: I think he was available
8 Thursday afternoon, and I think we can probably
9 squeeze him in then.

10 MR. ALLWEIN: Yes, that's fine. Is that
11 okay with you guys?

12 MS. KOLICH: When is he available for
13 deposition should we choose to go down that path?

14 MR. ALLWEIN: We could do it this
15 afternoon or tomorrow afternoon.

16 MS. KOLICH: Well, I am in the hearings.
17 I don't want to miss the hearings for a deposition.

18 EXAMINER PRICE: But you have so many
19 other co-counsel. I'm sure somebody can cover it.

20 MS. KOLICH: Your Honors, I'm lead.
21 Hearing it is easier than reading it, but if the
22 Bench insists on it, then I will make myself
23 available during the hearing for the deposition in
24 order to accommodate the NRDC.

25 MR. ALLWEIN: Thank you, counsel, and

1 thank you, your Honors.

2 MS. KOLICH: I note I will work it out
3 offline with counsel.

4 EXAMINER PRICE: Perfect. If there is a
5 problem, bring it to our attention.

6 MS. KOLICH: Thank you.

7 EXAMINER PRICE: Anything else we need to
8 address before we take this up before we take on our
9 first witness?

10 MR. ALLWEIN: If it please, your Honors,
11 I did mention yesterday there was an outstanding
12 motion by the Sierra Club for local public hearings.

13 EXAMINER PRICE: We are still considering
14 it.

15 MR. ALLWEIN: Okay. Thank you.

16 EXAMINER PRICE: Okay. The company can
17 call its next witness.

18 MS. DUNN: The company calls Bradley D.
19 Eberts.

20 (Witness sworn.)

21 EXAMINER PRICE: Please be seated and
22 state your business address for the record.

23 Let's go off the record.

24 (Discussion off the record.)

25 EXAMINER PRICE: Back on the record.

1 MS. DUNN: Thank you, your Honor.

2 THE WITNESS: My name is Bradley Dale
3 Eberts. My address is 76 South Main Street, Akron,
4 Ohio 44308.

5 EXAMINER PRICE: Please proceed.

6 - - -

7 BRADLEY D. EBERTS
8 being first duly sworn, as prescribed by law, was
9 examined and testified as follows:

10 DIRECT EXAMINATION

11 By Ms. Dunn:

12 Q. Mr. Eberts, do you have your testimony in
13 front of you?

14 A. Yes.

15 MS. DUNN: I would like to mark the
16 testimony of Bradley D. Eberts as Company Exhibit 2.

17 EXAMINER PRICE: So marked.

18 (EXHIBIT MARKED FOR IDENTIFICATION.)

19 MS. DUNN: Thank you.

20 Q. Mr. Eberts, are you familiar with Company
21 Exhibit 2?

22 A. Yes.

23 Q. And that is your testimony in this case?

24 A. It is.

25 Q. Was the testimony prepared by you or

1 somebody under your direction?

2 A. Yes.

3 Q. And do you have any corrections to your
4 testimony?

5 A. No, I do not.

6 Q. If I asked you the same questions here
7 today, would your answers be the same?

8 A. Yes.

9 MS. DUNN: Okay. The witness is open for
10 cross.

11 EXAMINER PRICE: Thank you.

12 Mr. Poulos.

13 MR. POULOS: No questions, your Honor.

14 EXAMINER PRICE: Mr. Oliker.

15 MR. OLIKER: No questions.

16 EXAMINER PRICE: ELPC.

17 MR. McDANIEL: No questions.

18 EXAMINER PRICE: Mr. Lavanga.

19 MR. LAVANGA: No questions, your Honor.

20 EXAMINER PRICE: OEG.

21 MS. KYLER: One question, your Honor.

22 - - -

23 CROSS-EXAMINATION

24 By Ms. Kyler:

25 Q. I don't think you will be surprised by my

1 question. What's the amount of lost distribution
2 revenue that the companies estimate they are going to
3 recover over the proposed EE/PDR plan period?

4 A. I have an estimate for 2013, and that's
5 based on -- the estimates are based on the savings,
6 the estimated savings, and it's applied to the
7 distribution rates only; the kilowatt-hour rates in
8 the RS, the over 5 KW rate in GS, and then the demand
9 rates in GP, GSU, and GT, and that estimate is
10 roughly \$20 million for 2013.

11 Q. And you don't have an estimate for 2014
12 or 2015?

13 A. I do not have an estimate at this point.

14 MS. KYLER: All right. Thank you. No
15 further questions.

16 EXAMINER PRICE: Thank you.

17 Consumers'.

18 MS. KERN: No questions, your Honor.

19 EXAMINER PRICE: Mr. Somoza.

20 MR. SOMOZA: No questions, your Honor.

21 EXAMINER PRICE: Sierra Club has no
22 questions. NRDC.

23 MR. ALLWEIN: I have a few questions,
24 your Honors. Thank you.

25 - - -

1 CROSS-EXAMINATION

2 By Mr. Allwein:

3 Q. Good morning, Mr. Eberts. How are you?

4 A. Good morning. Good.

5 Q. Following up on Ohio Energy Group's
6 question, you mentioned some of the different
7 customer classes, or those were actually tariff
8 rates, correct?

9 A. Those are tariff rates, correct.

10 Q. Okay.

11 A. Base rates.

12 Q. I'm sorry?

13 A. Those are base rates. None of the
14 riders, just base rates.15 Q. Okay. And can you divide that 20 million
16 up even in approximation by customer class?17 A. I don't have that number in front of me.
18 I mean, I can't tell you what it is. The majority of
19 it would be in the residential class and GS class,
20 which is the small mercantile class.21 Q. Now, just if I may, when you say
22 "majority," I mean, are you saying just more than
23 50 percent, or do you have a rough estimate of
24 percentage that would be assigned to the
25 residential -- I'm sorry, was it GS?

1 A. Right, correct.

2 MS. DUNN: Objection, your Honor. The
3 witness stated he didn't know that information.

4 MR. ALLWEIN: He did state it was a
5 majority.

6 EXAMINER PRICE: He can answer if he
7 knows the question. Overruled -- knows the answer,
8 overruled.

9 A. It's -- those classes would get, I'll
10 say, more than 75 percent of the number, the amount.

11 Q. Okay. And not looking for a percentage
12 at all here, do you know, are any of these assigned
13 to the GT customer class, any percentage?

14 A. There are lost distribution revenues
15 assigned to the GT class.

16 Q. But you don't have a percentage of what
17 that might be, even a rough guess?

18 MR. LAVANGA: Objection, asked and
19 answered.

20 EXAMINER PRICE: Sustained.

21 Q. All right. Okay. Mr. Eberts, you state
22 in your testimony that the Revised Code Section
23 4928.66 (A) (1) (a) sets forth the standards for
24 calculating the energy -- the energy efficiency
25 benchmarks; is that correct?

1 A. Which page are you referring to?

2 Q. I'm sorry. I had PDR up. I'm sorry.

3 That would be page 3, and it begins on line 16.

4 A. Yes.

5 Q. And just I know -- I know that -- well,
6 are you an attorney?

7 A. I am not.

8 Q. Okay. And I know you are not an
9 attorney, but does the section of the Revised Code
10 you are referencing here require the companies to
11 achieve an additional amount of energy savings each
12 year?

13 MS. DUNN: Objection, vague; asking for
14 interpretation of the statute.

15 EXAMINER PRICE: We'll overrule you on
16 asking for an interpretation of the statute since he
17 has cited the statute in his actual testimony. But
18 perhaps Mr. Allwein can phrase the question a little
19 more precisely.

20 Q. Okay. In the statute are the companies
21 responsible for incremental increases in energy
22 savings each year?

23 A. In the statute I believe they have how
24 much is incremental to each year, and it's cumulative
25 so we have to provide the cumulative savings each

1 year.

2 Q. Okay. And is it fair to use the term
3 "incremental" to describe the additional energy
4 savings that is required by the statute of the
5 companies each year in terms of energy savings?

6 A. That I'm not sure of. I don't know.

7 Q. Okay. And just so we're clear, the
8 statute requires an additional amount of energy
9 savings equal to 9/10 of 1 percent of the three-year
10 annual average savings in 2013; is that correct? If
11 you need to, you can refer to -- I'm sorry to
12 interrupt you. I'm sorry. Go ahead.

13 A. I don't have the statute in front of me,
14 but there is an amount that is part of the
15 accumulation for 2013, and I do believe it's .9
16 percent, point.

17 Q. Okay. Thank you. And for 2014 is the
18 additional amount of the three-year annual average
19 sales -- I'm sorry. Is the additional energy
20 efficiency equal to the -- strike that. I'll start
21 this again.

22 Does the statute require that in 2014 an
23 additional amount of energy savings equaling
24 3 percent of the one-year average sales, does the
25 statute require the company to achieve that?

1 A. Again, it's a cumulative savings, but the
2 incremental amounts of 2014 as part of the cumulative
3 savings, I believe, is the 1 percent.

4 Q. Okay. And is the incremental amount in
5 2015 also 1 percent?

6 A. I believe, yeah, it is the same
7 percentage, the incremental savings for 2015. That
8 goes into the cumulative savings, is 1 percent in
9 2015 as well.

10 Q. All right. And if I look at Exhibit
11 BDE-1, column 9 -- let me know when you're there.

12 A. I'm there.

13 Q. All right. Can you explain where you are
14 getting the numbers in column 9?

15 A. Those -- those come from the Ohio Revised
16 Code, and they're each year they have an amount, and
17 that's the cumulative of those amounts for -- for the
18 year starting in 2009.

19 Q. All right. So for -- for instance, just
20 to be clear, for Cleveland Electric Illuminating
21 in -- in 2013, column 9 states that the cumulative
22 benchmark is 3.2 percent. Do you see that?

23 A. Yes, I do.

24 Q. Okay. And can you tell me how that
25 number was calculated?

1 A. In the Revised Code. There's amounts for
2 each year and starts in 2009, and then 2010 there is
3 an incremental amount so that as you cumulate those,
4 you get up to 3.2 percent for 2013.

5 Q. Okay. Thank you. And you figured out
6 what the cumulative benchmark was in column 9,
7 correct, for each year, from 2010 through 2015, or
8 it's presented here; is that correct?

9 A. Correct.

10 Q. All right. And did you also calculate
11 the amount of incremental benchmark that the
12 companies would be required to achieve and the
13 individual companies would be required to achieve in
14 2013, 2014, and 2015?

15 THE WITNESS: Could you reread that
16 question, please.

17 (Record read.)

18 Q. I apologize. Let me restate that
19 question. Did you calculate the incremental amount
20 of energy savings that the companies are required to
21 achieve in individual years 2013, 2014, and 2015?

22 A. No; just on my exhibit I calculated the
23 cumulative savings.

24 Q. All right. Thank you. And if we wanted
25 to calculate the incremental savings required to be

1 achieved by each company in program years 2013, 2014,
2 and 2015, how would we do it?

3 A. You're talking about the benchmarks? How
4 do you calculate the incremental benchmark?

5 Q. Yes, sir.

6 A. I made -- I haven't made that
7 calculation, but I suppose you could subtract the two
8 numbers here and come up with a difference between
9 the two years on the benchmarks in column 10.

10 Q. Okay. Could it also be done by
11 multiplying the baseline number in column 8 by the
12 incremental amount required by the statute?

13 MS. DUNN: Objection. He said he didn't
14 make that calculation.

15 EXAMINER PRICE: He is asking whether it
16 could be done. Overruled.

17 A. Can I multiply a baseline number times a
18 percent and come up with a number? You could do
19 that, yes.

20 Q. Okay. And would that number -- if we did
21 it the way that I'm proposing to you, would that
22 equal the company's incremental benchmark for a given
23 year? For example, if we took CEI's baseline for
24 2013, which is 19,000 gigawatts, and multiplied that
25 by .9, which is the incremental additional

1 requirement in the statute, would that give us the
2 incremental benchmark required by the companies to be
3 achieved in 2013, in this case CEI?

4 A. I'm not familiar with the term
5 "incremental benchmark" that you're -- you're talking
6 about. I don't want to make a definition of what
7 incremental benchmark is. I mean, we've provided the
8 cumulative benchmarks for -- for the targets. I'm
9 just not sure that the term "incremental benchmark,"
10 if you want to call it that, I just know that's --
11 you could call it an "incremental benchmark" but
12 that's not a term I'm familiar with.

13 Q. All right. Where I'm getting incremental
14 benchmark is -- it died.

15 EXAMINER PRICE: Let's go off the record.

16 (Discussion off the record.)

17 EXAMINER PRICE: Back on the record.

18 MR. ALLWEIN: Your Honor, may I approach
19 the witness?

20 EXAMINER PRICE: You may.

21 MR. ALLWEIN: And just to explain, I just
22 have a copy of the statute here just, perhaps, for
23 clarification.

24 MS. DUNN: 4928.66?

25 MR. ALLWEIN: Yes, sorry.

1 Q. (By Mr. Allwein) Okay. Now, I want to
2 clarify the source of the term "incremental
3 benchmarks" so that we have an understanding for the
4 rest of these questions, for which I don't have many
5 more.

6 But if you look at the statute, it talks
7 about the -- in specifically 4928.66(A)(1)(a), it
8 discusses the savings requirement, I'm about 11 lines
9 down, beginning with the words "The savings
10 requirement using the three-year average." Do you
11 see that?

12 A. Yes.

13 Q. All right. It says, "shall increase to
14 an additional 5/10 of 1 percent in 2010, 7/10 in
15 2011, 8/10 in 2012, 9/10 in 2013." Do you see that?

16 A. Yes.

17 Q. All right. And you discussed earlier
18 those are the percentages that you added up to get
19 the cumulative benchmark in column 9; is that
20 correct?

21 A. Yes.

22 Q. Thank you. And I'm using incremental to
23 refer to these individual percents that are assigned
24 to each year. Is that okay?

25 A. Yeah. The rule says "additional," but

1 you're calling it "incremental."

2 Q. That's correct. Incremental being in
3 addition to what was achieved in the previous years.

4 A. Yes. It is additional. I mean, the rule
5 says additional.

6 Q. Okay. I'm also getting incremental
7 because that's -- the company in their annual
8 portfolio status reports uses the term "incremental"
9 to describe these percentages.

10 MS. DUNN: I'm going to object. He -- he
11 can answer if he is familiar with the plans, but
12 he's -- keeps answering your question which he keeps
13 saying additional and you keep asking him the same
14 question.

15 MR. ALLWEIN: Well --

16 EXAMINER PRICE: I think he is just
17 asking if he understands what he means when he -- if
18 the witness understands what counsel means when
19 counsel says "incremental." So let's cut through all
20 of this.

21 Do you understand when he says
22 "incremental," he means the year-by-year increase?

23 THE WITNESS: Of the percentage, yes.
24 It's additional percentages.

25 EXAMINER PRICE: Is that correct,

1 Mr. Allwein?

2 MR. ALLWEIN: Yes, sir. Thank you.

3 MS. DUNN: Thank you.

4 EXAMINER PRICE: Let's proceed.

5 Q. (By Mr. Allwein) If I wanted to calculate
6 the incremental benchmark for Cleveland Electric
7 Illuminating in 2013, could I multiply the 19,000
8 gigawatt number that's the baseline number in column
9 8 by the incremental amount in the statute for 2013
10 which is 9/10 of 1 percent?

11 A. If you word it just a little differently
12 and say what's the additional amount that goes into
13 the achieving a cumulative baseline, I would say yes.

14 Q. Okay. And subject to check, if I make
15 that calculation, 19,000 gigawatts times .9 percent,
16 can you agree, subject to check, that it would be
17 171 -- 171 gigawatts?

18 A. Taking 1 percent of -- I'm sorry, what
19 year was -- what company and what year were you
20 talking about?

21 Q. I'm sorry. It's Cleveland Electric
22 Illuminating, and it is year 2013. So it's .9
23 percent according to the statute and 19,000 gigawatts
24 of a baseline.

25 A. So .9 percent times 19,000 you're saying

1 is incrementally, is additionally -- what number do
2 you want me to accept, subject to check?

3 Q. That would be the baseline of the
4 incremental amount.

5 A. It would be --

6 Q. I'm sorry, it would be the amount of
7 savings -- no, I'm sorry. Hang on.

8 A. Okay.

9 Q. Let me start over. Do you have a
10 calculator?

11 A. I do not.

12 Q. All right. Okay. What I'm asking you is
13 I'm trying to figure out what the additional amount
14 of energy savings would be for each year of the
15 program -- of the program plan. And so would you
16 agree with me, subject to check, that 19,000 times
17 the .9 percent in the statute gives you the
18 additional benchmark that the companies required to
19 achieve in that -- in 2013?

20 A. Were you going to give me a number to
21 check?

22 Q. I'm sorry, subject to check. I thought
23 you did the math over there. Subject to check, it
24 would be 171 gigawatts.

25 A. Subject to check, that the 171 would be

1 the additional amount of the cumulative savings of .9
2 percent times the 19,000.

3 EXAMINER PRICE: Stop. Wait. Counsel,
4 do you have a calculator for the witness?

5 MR. ALLWEIN: I have a phone with a
6 calculator on it if he wants to use that.

7 EXAMINER PRICE: She has an iPad with a
8 calculator app. He will promise to only use the
9 calculator. I can see over you so I can see what
10 you're doing.

11 Forget the subject to check stuff; ask
12 him the question to form the calculation.

13 MR. ALLWEIN: All right.

14 Q. (By Mr. Allwein) I'm trying to calculate
15 the additional or incremental benchmark required by
16 the Cleveland Electric Illuminating for 2013. And I
17 believe that the way to calculate that, and I'm
18 asking for your agreement, would be to multiply
19 19,000 from column 8 by the .9 percent in column 10.
20 I'm sorry, in the statute.

21 A. The .9 percent in the statute, the
22 additional amount that is cumulative savings, the
23 19,000 times .9 is 171.

24 Q. Okay. And so 171 would represent the
25 incremental, or as you are referring to it,

1 additional benchmark required for CEI to achieve in
2 year 2013.

3 A. It's part of the cumulative savings for
4 2013.

5 Q. But that is added in 2013; is that
6 correct? In other words, 2012 doesn't include it but
7 2013 does.

8 A. Right. The additional amount for the
9 cumulative savings in 2013 is .9 percent.

10 Q. All right. And we've just calculated,
11 subject to check, that that would be 171 gigawatts;
12 is that correct?

13 A. That is correct.

14 Q. All right. And if we did the same thing
15 for year 2014 using the appropriate numbers, subject
16 to check, the additional amount of savings required
17 would be 193 gigawatts; is that correct?

18 A. The additional .1 percent -- the .1
19 percent -- I'm sorry, the additional 1 percent would
20 in the cumulative savings be, yeah, 193 --

21 Q. Okay.

22 A. -- in 2014.

23 Q. Okay. Thank you. And if we were to do
24 that for Cleveland Electric Illuminating in 2015, the
25 additional amount would be 195 gigawatts.

1 A. If the additional amount for the
2 cumulative savings would be 195.

3 Q. Okay. And I could do that for the two
4 companies for the three years using the appropriate
5 numbers; is that correct?

6 A. Yes.

7 Q. Okay. And -- all right. So for Ohio
8 Edison in 2013, it would be .9 times 24,294
9 gigawatts; is that correct?

10 A. Correct.

11 Q. And that would give us 219 gigawatts?

12 A. That is correct.

13 Q. All right. And for Ohio Edison in 2014,
14 it would be 24,599 gigawatt hours times 1 percent,
15 and, subject to check, that would be 246 gigawatt
16 hours; is that correct?

17 A. That is correct.

18 Q. All right. And for Ohio Edison in 2015
19 it would be 24,855 gigawatt hours times 1 percent,
20 and that would give us 249 gigawatts hours, subject
21 to check; is that correct?

22 A. That is correct.

23 Q. And if I was to do that for Toledo Edison
24 in 2013, it would be 10,624 gigawatts, hours times .9
25 percent, which would be 96 gigawatt hours; is that

1 correct?

2 A. 96, did you say?

3 Q. Yes, sir.

4 A. That is correct.

5 Q. All right. And for Toledo Edison in
6 2014, it would be 11,014 gigawatts hours times 1
7 percent, and that would give us 110 gigawatt hours of
8 additional or incremental benchmark.

9 A. It's the additional amount for the
10 cumulative savings of 110.

11 Q. All right. Thank you. 110 gigawatt
12 hours, just to be clear, correct?

13 A. Correct.

14 Q. All right. And for Toledo Edison in 2015
15 it would be 11,442 gigawatt hours times 1 percent,
16 and that would be 114 gigawatt hours; is that
17 correct?

18 A. That is correct.

19 MR. ALLWEIN: All right. Thank you. I
20 have no other questions, your Honor. Thank you.

21 EXAMINER PRICE: Thank you.

22 Mr. Dougherty.

23 MR. DOUGHERTY: No questions.

24 EXAMINER PRICE: Mr. Williams.

25 MR. WILLIAMS: No questions.

1 EXAMINER PRICE: Mr. Parram.

2 MR. PARRAM: No questions.

3 MS. DUNN: We may have redirect given
4 that this is based on this supplemental testimony we
5 had, we got this weekend, could we have a few
6 minutes?

7 EXAMINER PRICE: You have 10 minutes.

8 Off the record.

9 (Recess taken.)

10 EXAMINER PRICE: Let's go back on the
11 record.

12 Ms. Dunn.

13 MS. DUNN: Thank you for the break. We
14 do not have any redirect.

15 EXAMINER PRICE: Thank you. Any
16 questions for the witness?

17 EXAMINER CHILES: No.

18 EXAMINER PRICE: I do have one question.

19 - - -

20 EXAMINATION

21 By Examiner Price:

22 Q. Going back to Exhibit BDE-1, you had said
23 that before -- you were talking to Mr. Allwein --
24 there were two alternative ways to calculate the
25 additional energy savings required from year to year,

1 the exercise you went through with Mr. Allwein, and
2 then simply subtracting the two -- the year over year
3 increases in column 10; is that correct?

4 A. That's correct.

5 Q. If there were discrepancies in the
6 values, would that just be because of rounding or
7 other marginal differences?

8 A. No. The baseline that you use to
9 calculate it is slightly different from year to year
10 so it's based on the last three years. The baselines
11 are a little bit different so the calculation would
12 be a little bit different.

13 EXAMINER PRICE: All right. That will
14 work. Thank you. You are excused.

15 EXAMINER CHILES: I believe we are taking
16 Mr. Fitzpatrick.

17 MS. KOLICH: Thank you. The company will
18 call Mr. Fitzpatrick to the stand, please.

19 MS. DUNN: We do need to move to admit
20 Company Exhibit 2.

21 EXAMINER PRICE: Any objections to the
22 admission of Company Exhibit 2?

23 Hearing none, it will be admitted.

24 (EXHIBIT ADMITTED INTO EVIDENCE.)

25 EXAMINER PRICE: Thank you.

1 (Witness sworn.)

2 EXAMINER CHILES: You may be seated.

3 THE WITNESS: Thank you.

4 - - -

5 GEORGE L. FITZPATRICK

6 being first duly sworn, as prescribed by law, was
7 examined and testified as follows:

8 DIRECT EXAMINATION

9 By Ms. Kolich:

10 Q. Good morning, Mr. Fitzpatrick.

11 A. Good morning.

12 Q. Sorry. Would you please state your name
13 and business address for the record.

14 A. George L. Fitzpatrick, business address
15 is 888 Veterans Highway, Suite 120, Hauppauge,
16 H-A-U-P-P-A-U-G-E, New York 11788.

17 MS. KOLICH: Your Honor, I have a
18 document entitled Direct Testimony of George L.
19 Fitzpatrick on behalf of the Ohio Edison Company, the
20 cleveland Electric Illuminating Company, and The
21 Toledo Edison Company, and I would like it marked as
22 Company Exhibit No. 3 for identification.

23 EXAMINER CHILES: It will be so marked.

24 MS. KOLICH: Thank you.

25 (EXHIBIT MARKED FOR IDENTIFICATION.)

1 Q. Mr. Fitzpatrick, do you have a copy of
2 what has just been marked as Company Exhibit No. 3,
3 for information?

4 A. Yes, I do.

5 Q. Is that your direct testimony in this
6 proceeding?

7 A. Yes, it is.

8 Q. Was that direct testimony prepared by you
9 or under your direct supervision?

10 A. Yes, it was.

11 Q. Do you have any corrections to the
12 testimony presented in Company Exhibit 3?

13 A. No.

14 Q. So if I asked you the same questions that
15 are set forth in Company Exhibit 3 today, your
16 answers as set forth in the document would be the
17 same; is that correct?

18 A. Yes, they would.

19 MS. KOLICH: With that, your Honors, the
20 witness is available for cross-examination.

21 EXAMINER CHILES: Thank you.

22 Mr. Poulos.

23 MR. POULOS: No, your Honor, thank you.

24 EXAMINER CHILES: Mr. Olikar.

25 MR. OLIKER: No, thank you, your Honor.

1 EXAMINER CHILES: The ELPC.

2 - - -

3 CROSS-EXAMINATION

4 By Mr. McDaniel:

5 Q. Mr. Fitzpatrick, good morning. My name
6 is Nick McDaniel. I'm from the Environmental Law &
7 Policy Center.

8 A. Good morning.

9 Q. I have just a few questions for you.

10 A. Okay.

11 Q. On pages 10 and 11 of your testimony, you
12 talk about the costs of using the pro rata method to
13 measure savings. At the bottom of page 10, starting
14 at line 22, do you see where it states, "As I
15 testified in the Companies' first Portfolio case in
16 Case No. 09-1947-EL-POR, et al., the use of the pro
17 rata methodology increased costs during the three
18 years those plans were to be in effect by
19 approximately \$51.2 million because additional
20 programs and measures had to be included in the plan
21 to make up for the shortfall created by only allowing
22 a portion of those savings to be recognized in the
23 initial year of implementation."

24 Do you see that?

25 A. I do.

1 Q. Now, in this sentence you are saying that
2 because of the pro rata methodology, the company had
3 to implement more programs and measures in order to
4 meet the annual benchmarks; is that correct?

5 A. Yeah. When -- when the -- when we
6 started deploying programs in Ohio, you had to do a
7 lot more early on, in essence, overcomply because you
8 had to catch up. You had to meet the first-year
9 goals, but you didn't have a full -- truly a full
10 year so you had to overcomply.

11 Q. Now, this \$51.2 million figure, does that
12 take into account any of the benefits from those
13 programs?

14 A. No. That was purely cost.

15 Q. So it wouldn't take into account any of
16 the energy savings.

17 A. No.

18 Q. Now, those programs that have to be
19 implemented, they are required to pass the TRC test;
20 is that correct?

21 A. The portfolio is required to pass the
22 TRC, not individual programs.

23 Q. I'm sorry. So the -- the portfolio plan
24 of which the programs are a part is required to pass
25 the TRC test; is that correct?

1 A. Yes.

2 Q. So assuming those programs did pass the
3 TRC test, they could be cost effective; is that
4 right?

5 A. The portfolio would be cost effective.

6 Q. If those programs pass the TRC test, they
7 would be cost effective; is that correct?

8 A. If an individual program passed the TRC?

9 Q. Yes.

10 A. Yes, then by definition of the TRC that
11 we are required to use, they would be deemed cost
12 effective by the Commission.

13 Q. Would you agree that FirstEnergy's energy
14 efficiency programs reduce electricity consumption
15 across its service territory?

16 A. According to M&V, yes.

17 Q. Would you also agree that when a
18 FirstEnergy customer, say, screws in a CFL, that
19 customer's energy usage goes down immediately?

20 A. All else equal, yes.

21 Q. Would you also agree that if we have two
22 customers, Customer A and Customer B, and Customer A
23 installs a CFL on January 2, 2013, and Customer B
24 installs a similar CFL on December 30, 2013, Customer
25 A will save more electricity from that CFL in the

1 year 2013?

2 A. All else equal, yes.

3 Q. Let me direct your attention to page 10,
4 line 11 of your testimony. Do you see where you
5 state that "The lifetime savings for both pro rata
6 and annual methodologies are the same; it's just a
7 matter of when you recognize the savings for
8 compliance and reporting purposes."

9 I just have a couple of clarifying
10 questions about that. So let's say a customer could
11 buy a FirstEnergy incentivized refrigerator on
12 June 1, 20 -- 2013, correct? Using the annual
13 methodology, FirstEnergy could count an entire year's
14 worth of savings for the year 2013, correct?

15 A. I'm sorry, say that again. I apologize.

16 Q. Okay. That's okay.

17 A. I was trying to follow the first part.
18 Now, what happened? Sorry.

19 Q. Sure. The FirstEnergy customer buys an
20 incentivized refrigerator and installs it on June 1,
21 2013.

22 A. Okay.

23 Q. Using the annualized methodology,
24 FirstEnergy could count an entire year's worth of
25 savings for that refrigerator in the year 2013,

1 correct?

2 A. That's correct.

3 Q. If the refrigerator has an expected
4 lifetime of, say, 10 years, FirstEnergy could count a
5 year's worth of savings in each of those years that
6 follow, correct?

7 A. Yes. Given your hypothetical, yes.

8 Q. Now, in the year 2023 when that tenure of
9 useful life is up, so the 10th year of useful life
10 would be up in June of 2023 --

11 A. Well --

12 Q. -- would FirstEnergy --

13 A. According to your hypothetical, the ten
14 years are up at the end of 2022.

15 Q. Well, that was simply my question.

16 A. Yeah.

17 Q. FirstEnergy, would they count savings in
18 the year 2023 for that refrigerator?

19 A. No.

20 Q. On page -- pages 11 and 12 of your
21 testimony starting on page 11, line 21, you list I
22 think it's 23 states that you testify use annualized
23 reporting when measuring energy savings results; is
24 that correct?

25 A. Yes.

1 Q. How many of those states have statutes
2 that allow the utilities to count only the first year
3 of savings toward the benchmarks?

4 A. I don't know that.

5 Q. Did you know that some states only allow
6 utilities to count only the first year of energy
7 savings toward benchmarks?

8 A. Towards the benchmarks that the states
9 have set up, I wouldn't know. All I know is I'm
10 talking about annual reporting versus pro rata
11 reporting.

12 Q. Okay. Did you know that Ohio Revised
13 Code Section 4928.66 allows lifetime savings to count
14 toward benchmarks?

15 A. Yes, I did, as determined by the TRM.

16 MR. McDANIEL: I have no further
17 questions.

18 EXAMINER CHILES: Thank you.

19 Mr. Lavanga.

20 MR. LAVANGA: No questions, your Honor.

21 EXAMINER CHILES: Ms. Kyler.

22 MS. KYLER: No questions, your Honor.

23 EXAMINER CHILES: Ms. Kern.

24 MS. KERN: No questions, your Honor.

25 EXAMINER CHILES: Mr. Somoza.

1 MR. SOMOZA: No questions, your Honor.

2 EXAMINER CHILES: Mr. Allwein.

3 MR. ALLWEIN: Just a few questions, your
4 Honor.

5 - - -

6 CROSS-EXAMINATION

7 By Mr. Allwein:

8 Q. Good morning, Mr. Fitzpatrick. My name
9 is Chris Allwein, and I'll be asking questions on
10 behalf of Natural Resources Defense Council.

11 A. Good morning.

12 Q. You're sponsoring the Market Potential
13 Study for all three companies, correct?

14 A. Yes, I am.

15 Q. And the Market Potential Study was
16 prepared for all three companies under your
17 supervision; is that correct?

18 A. That's correct.

19 Q. Your testimony on page 6 you state that
20 you rely on the valid customer mail and telephone
21 surveys, on line 19; is that correct?

22 A. Yes, it is.

23 Q. And I don't mean to keep flipping around,
24 but I'm just trying to make the same point, the
25 Market Potential Study on page 34, it states that the

1 assumed participation rates are critical --

2 MS. KOLICH: Counsel, could you hang on
3 until I find it? I apologize.

4 MR. ALLWEIN: Sure.

5 MS. KOLICH: I should have had it up.

6 Page what?

7 MR. ALLWEIN: Page 34.

8 MS. KOLICH: Thank you.

9 Q. (By Mr. Allwein) Okay. So the Market
10 Potential Study states that the assumed participation
11 rates are critical to the estimates of achievable
12 potential, correct?

13 A. That's correct.

14 Q. All right. So I want to ask you how are
15 the data from customer surveys -- surveys used in the
16 calculation of participation rates?

17 A. I'm just going to find an example so I
18 can walk you through it. Let's look at I think it
19 Appendix D, question 11A.

20 Q. Hang on a second. I guess sometimes the
21 paper copy is superior. A, okay I'm on Appendix D,
22 question 11A?

23 A. Question 11A.

24 MR. ALLWEIN: Before you continue,
25 Mr. Fitzpatrick, can we get him another microphone?

1 I can't understand.

2 EXAMINER PRICE: I think it's the
3 alignment of the microphone.

4 THE WITNESS: Oh, I'm sorry.

5 MS. KOLICH: Is that B or D?

6 MR. ALLWEIN: 11D, I believe. D as in --

7 THE WITNESS: D1. I'm sorry, are you
8 ready? Appendix D, question 11A. Actually, you know
9 what, Mr. Allwein? Look at question 11E. That's an
10 even better example.

11 Q. All right. I'm there.

12 A. Okay. So what happens is that we develop
13 these surveys which we've used now for two market
14 potential studies, one in '09 and one in 2012. And
15 in 2012, we had 852 respondents from Ohio Edison, 776
16 respondents from Cleveland Electric Illuminating, and
17 856 respondents from Toledo Edison so we have
18 significant robust response population for samples
19 for these three operating companies.

20 We have an extensive survey that looks at
21 certain appliance saturation, certain information
22 about propensity to participate, also information
23 about what customers have done in the last five
24 years. And so it's a fairly extensive survey, and I
25 find when I look at this data, and not just myself

1 but people that work for me, as well as people in the
2 FirstEnergy's energy efficiency team, the data is
3 almost self-checking because if you look -- look, for
4 example, at question 11E and look at the answers, you
5 can see that for Ohio Edison, Cleveland Illuminating,
6 and Toledo Edison, if you look at the responses
7 across the board about what, for example, what did
8 you do in the last five years, the average was 38.4
9 percent

10 If you look at the responses across the
11 three operating companies, there's no statistically
12 significant difference, 95 percent of confidence
13 level concerning that particular response. If you
14 then look at -- if they plan to make a change or
15 consider a change, those are the two measures, those
16 are the two metrics we look at when we look at the
17 base case participation and the high case
18 participation.

19 So the base case participation would be
20 we plan to make a change, and then the high case
21 would be we plan to make a change or we've considered
22 making a change. So we are getting real ground truth
23 information from these customers on a wide variety of
24 topics, saturations, and we can check this
25 information with what we expect, for example, the

1 appliance life, appliance life for refrigerator,
2 somewhere around 12 years.

3 When I do the math on the responses here,
4 the changes made in the last five years, it comports
5 with 12-year life. So this information is used in a
6 variety of ways not only to estimate achievable
7 potential, but also to look at what's been done, what
8 the free market has done, and what customers -- what
9 particular appliance uses customers have in their
10 homes by operating company and also demographics
11 about the customers themselves.

12 And so, if I may make one more statement,
13 the response rates that we get in Ohio are in the 20
14 percent range, which is fairly high for this type of
15 survey. It's a very detailed survey. It's a mail
16 survey. We get great response rates.

17 And, by the way, I see those response
18 rates. I do a lot of survey work as part of my work
19 with FirstEnergy. I see 20 percent response rates in
20 Pennsylvania. I see them in Ohio for a number of
21 things we do. Customers are very knowledgeable.
22 They are informed, and their data that they present
23 comports with reality in terms of what we know about
24 appliance lives and about past program performance.

25 The FirstEnergy efficiency team, by the

1 way, looks at this data and compares with what they
2 are seeing with their programs, so the data really
3 holds together quite well and is a very valuable
4 resource.

5 Q. All right. Thank you. I have two
6 questions. One, I just wanted to clarify you said
7 that the high case is the plan to make a change,
8 which is, I think, the third line down, plus
9 considering the changes; is that correct?

10 A. That's correct.

11 Q. All right. And then you said something
12 interesting, and forgive me if this is obvious, but
13 you were saying that you can use this information to
14 discern that refrigerators have, on the average, a
15 12-year life. Can you tell me how you do that?

16 A. Well, I know from experience we're
17 looking at a 12-year life, approximately, for a
18 refrigerator.

19 Q. Okay.

20 A. If you take the 38.4 percent and divide
21 it by 5, it gives you an average or an idea of what
22 people are replacing on a yearly basis. So
23 one-eighth of the stock changes every year. It's a
24 12-year life.

25 Q. I'm sorry, just to be clear, I'm sure

1 it's me, not you, but you're saying that in order to
2 figure out basically those folks that made the change
3 which is, I think, the second row down, that
4 basically you're assuming because of the question
5 where you say that if you've made the change in the
6 last five years, so you are dividing 38.4 -- well,
7 38.4 is the average, but you are dividing the
8 response percentages by the -- by year, right?

9 A. Yeah.

10 Q. Okay.

11 A. And you get -- what you do is you get an
12 idea of what kind of replacement rates you're seeing
13 in this survey, which comport well with what we know
14 about life cycle of appliances. So it's a good
15 check, and the nice thing about Ohio is when we look
16 at this data, we are looking -- we're talking to
17 customers who -- who live in Ohio, who have -- they
18 pay rates. They know what rates they pay, not
19 Vermont rates, which are 50 percent higher, for
20 example.

21 We are looking at the climatology for the
22 three service territories is similar. You can't look
23 at Vermont and Massachusetts, for example, and say
24 we'll compare climatologically. They don't compare
25 at all. So we're looking at the area, the service

1 territory, the customers that will be subjected to
2 these programs, and so we're getting good information
3 from them, from a statistically valid survey, and we
4 find in most of the cases the three operating company
5 responses for each of these questions, 90 percent of
6 the cases they are statistically significant and 95
7 percent confidence level. It's very important data.

8 Q. Okay. And I just want to be clear, when
9 you say "the climatology," are you just referring to
10 the rates customers pay? You said "the climatology."

11 A. No. Climatological data can be measured
12 a number of ways. I'm referring to heating and
13 cooling degree days. So let me give you a couple of
14 examples. So I think that your witness talks about
15 looking at program experience in Vermont and
16 Massachusetts, for example. So I looked at that and
17 I found that, for example, in Vermont, they have
18 7,400 heating degree days. They have very cold
19 winters in Vermont. They only have 493 cooling days
20 in Vermont, very mild summers.

21 In Ohio we have about 5,700 heating
22 degree days, so it's almost 2,000 heating degree days
23 less, and you have about half of the cooling degree
24 days. So that's why using Ohio data is so valuable
25 in looking at this because you've got data from --

1 from the area in which you are going to be deploying
2 these programs.

3 Q. All right. And I -- I understand then
4 what you're -- you mean by climatological data.

5 Now, I just want to ask you, I'm looking
6 at some of these questions, and they have to do with
7 compliances. And I'm somewhat familiar with how
8 climatological data might reflect or might affect a
9 refrigerator or freezer, depending on the location of
10 that appliance, but how about -- would climatological
11 data affect, say, an electric dryer or programmable
12 thermostat or compact fluorescent bulbs?

13 A. Well, certain -- certain end uses it will
14 not affect. However, you do have different hours of
15 daylight the farther north you go, so the latitude
16 and longitude does make a difference in terms of
17 numbers of hours of daylight and darkness.

18 You have ground water temperatures are
19 different in Vermont than ground water temperatures
20 in Ohio, so there are differences that can have an
21 impact. But what I'm saying is you can't compare
22 when you look -- look at rates, for example, if you
23 look at the average rate paid by a Vermont customer,
24 residential customer, it's 16 cents a kilowatt-hour.
25 In this area it's around 11 or 12 cents a

1 kilowatt-hour so they are quite a bit different.

2 So that's why we have opted to do a
3 couple of things. One is we have the surveys. We've
4 conducted these surveys now twice. We get very
5 interesting, consistent results, highly statistically
6 confident results. We then look at surrounding
7 areas, such as Indiana, Michigan, Illinois, Maryland,
8 look at what's being achieved in those states as
9 well.

10 And base -- by the way, I think AEP did
11 the same thing so we do the same things, and then we
12 take that information, all that information, and we
13 develop our achievable potential estimates at both a
14 high and base case.

15 Q. Okay. And you mention -- you mentioned a
16 couple of times here that these are statistically
17 valid.

18 A. I can't hear you. I'm sorry.

19 Q. You've mentioned a couple of times that
20 these surveys are statistically valid. Can you
21 explain what you mean by statistically valid?

22 A. Our market research firm has done the
23 calculations on the surveys and looked at the sample
24 sizes that we have been able to achieve, and we
25 achieved those sample sizes in a very short period of

1 time because of the way we deploy the sample, so it's
2 not where we have stragglers that come in a month
3 later. We basically send a survey out, let's say, on
4 the first day of the month, and we have answers back
5 by the 20th day of the month so we get fresh answers.
6 We get detailed answers. We get largely fully
7 completed surveys or maybe one or two questions left
8 out.

9 So the sample sizes we have are -- are
10 very significant, and the results we have, we can
11 verify those results and order those results one
12 company against the other. So we feel like we have a
13 very robust tool here for evaluating customers'
14 appliance stocks, their actions in the past, which is
15 another thing. We look at past activities, and we
16 look at what they're talking doing in the future.

17 Q. All right. And I just want to make sure
18 I understood you correctly, the participation rates,
19 let's say, for the base case are those -- well, let
20 me just ask you. For the Market Potential Study I
21 know you have a table, I believe, that shows the base
22 case. How are these individual plans to make a
23 change answers used to calculate the achievable
24 potential?

25 A. The percentages that are developed or

1 that are provided to us by the market research group
2 we use, they -- they form the basis of looking at a
3 subset of economic potential that becomes achievable
4 potential. Economic potential, as you know, is
5 what's the overnight turnover of all economically
6 viable measures. The achievable potential is a
7 subset of that, and the subset of that for each of
8 the elements is estimated based upon survey results
9 for those -- for those particular responses.

10 Q. Okay. So the plan to make a change,
11 you're calling that the economic potential; is that
12 correct?

13 A. No.

14 Q. I'm sorry. Please explain again. I
15 guess I didn't understand your explanation.

16 A. Plan to make a change is for the base
17 case.

18 Q. All right.

19 A. For the achievable potential.

20 Q. Okay.

21 A. Plan to make a change and consider change
22 is -- that's what we use when we look at the high
23 case, which basically the definition of our high case
24 is we look at -- we look at higher marketing, at
25 higher incentives so that we are putting the programs

1 out there in a more aggressive fashion. That's the
2 high case. So we can go around, track those folks as
3 saying, "We'll consider a change." Some people say,
4 "We plan to make a change." They are the base case.
5 People that potentially plan to make a change, and
6 then the people that would consider a change, they
7 are the ones that we have to bring into the high case
8 with more aggressive marketing and higher incentives,
9 so that's -- that's the differential between our two
10 cases in the achievable potential.

11 Q. Okay. So if I were to look at the
12 companies' projected participation for a refrigerator
13 replacement program, would it be the plan to change
14 the average from your survey here divided by 3
15 because the plan is three years?

16 A. We're basically taking the 95 percent
17 plus the 25.1 percent, and we then look at that over
18 the life of our analysis, which is 2026. From there
19 what we do is we distribute -- we distribute the
20 yearly amount of refrigerators that we will be able
21 to capture, efficient refrigerators. We distribute
22 them based upon what we need to meet, need for
23 targets, and what the life cycle of these units are.

24 We take all of that into account so that
25 each unit -- each measure has a different life cycle,

1 has a different intensity earlier versus straight
2 line versus later.

3 For example, we'll go after CFLs in a
4 very concentrated fashion over the first five years
5 from '13 to '18, for obvious reasons, both commercial
6 lighting and CFLs. Motors are taking longer from our
7 experience. They are taking longer to be accepted by
8 customers so that is a more later-stage program, and
9 some programs will just be replaced as we go through
10 the life cycle, almost a straight line basis.

11 So we basically -- we basically customize
12 each deployment based upon what we know about that
13 appliance, how people use them, how they turn over,
14 and things of that nature. It's not one size fits
15 all for each measure.

16 Q. Okay. Okay. Let's see. So before I
17 leave this -- and tell me if this just isn't as
18 simple as I'm making it, that's fine. But the -- you
19 take plan to change and consider change, and you add
20 them together, and then you're going to divide them
21 over the -- the future years which is, I guess, from
22 2013 to 2026; is that correct?

23 A. No. I didn't say that.

24 Q. Okay. All right, I'm sorry.

25 A. I said for each measure for each

1 appliance, it's a different deployment. Some are
2 front loaded because we need to do front-load
3 lighting, for example, because of codes and
4 standards. Some may be a straight line because of
5 the appliance substitution cycle that these units go
6 through, and some are later adopters, like motors,
7 we're finding our program is very -- not as good a
8 response with motor programs as we had hoped. So
9 it's not quite as simple as that.

10 Q. Okay. I guess that's what I was looking
11 for, though, is, I mean, just if you want to take the
12 specific case of the refrigerators, how do you get to
13 a survey -- from survey result to projection? Just
14 for the refrigerator program.

15 A. At the end of the day, what happens is
16 that the total that we would assume would be the
17 2026, for example, residential customer base that's
18 forecasted multiplied by the summation of, you know,
19 the participation, the plan change, and considered
20 change percentages. That's a rough calculation.
21 There are other things that go into it. There are
22 other evaluations that go into it, but that is the
23 starting point for it.

24 Q. Okay. And let me ask you this. Will
25 customers who have already made a change not be in

1 the market for a refrigerator over the study period
2 or, I guess I should say, is that how you -- is that
3 factored into the Market Potential Study?

4 A. Customer --

5 Q. So, in other words, what I am asking
6 you -- go ahead.

7 A. Wait a minute. I can't hear you, and
8 we're -- I think I understand your question.

9 Q. Okay.

10 A. Let's try it again. Can we get them read
11 back?

12 Q. Sure.

13 A. And let's start over again.

14 (Record read.)

15 A. If you're a customer that has replaced
16 his refrigerator, his or her refrigerator five years
17 ago, you're absolutely going to replace it again over
18 the study period.

19 Q. And is that factored into your --

20 A. Yes.

21 Q. Your target potential study?

22 A. Yes.

23 Q. And how do you factor that in?

24 A. Because we have customer accounts we know
25 are at compliance life cycles, and that gets factored

1 in as well into our models.

2 Q. Okay. And do you use 12 years because
3 it's the average life of a refrigerator?

4 A. We have life expectancies for all
5 appliances and end uses that are -- that are in our
6 portfolio, and they vary by the way.

7 Q. According --

8 A. They vary in their lives, and we don't --
9 these numbers are published by various sources, like
10 EIA, for example, will provide that information in
11 terms of compliance lifetimes.

12 Q. Okay. And just to be clear, are the data
13 from the customer surveys the main data input used to
14 determine the assumed participation rates?

15 A. There are three bodies of information
16 that we look at. I would say the primary driver is
17 the survey information, and the survey information,
18 as I mentioned before, is self checking. The
19 customer responses are so verifiable based upon the
20 percentages that they use across -- across the
21 operating companies. That's No. 1.

22 No. 2, we look at recent program
23 experience with the FirstEnergy energy efficiency
24 team. So when we started our work, for example, in
25 February of 2012, we spoke -- we've known these folks

1 for a number of years now. We have been working
2 together quite closely. We speak all the time. We
3 have calls all the time about it, so as we move along
4 in our analysis, they are moving along looking at
5 their programs. So we're getting M&V results that
6 they provide us with. So the M&V results also would
7 be factored in to see what's been going on in these
8 programs.

9 Are they quick starters? Are they not
10 quick starters? What's going on? It tells us how we
11 spread this over the study period.

12 The third thing that we do is we look at
13 other neighboring states and see what the experience
14 has been in those states. And, you know, for
15 example, Illinois, Maryland, Michigan, and
16 Pennsylvania, we look at them. We look at what they
17 are achieving on an annual basis, what's their
18 targets, and what's their achievements, and so we
19 have that information, and that information is
20 provided. I think I saw that in the ACEEE report
21 that Mr. Swisher discusses in his testimony as being
22 a very valuable resource. And also I've seen that
23 information in the AEP study as well, so we rely upon
24 that as well. It's a good check on where we are
25 going with this.

1 Q. Okay.

2 A. With these estimates.

3 Q. And so that -- that third element, there
4 are bodies of info, as you call them. It's other
5 neighboring states, and it sounds like you have also
6 then -- I think you said earlier you looked at what
7 AEP has accomplished?

8 A. Yes. Certainly we do, yes.

9 Q. And you mentioned the second body of
10 info -- or the second of the three bodies of
11 information, you cite the recent program experience
12 so that is what the three FirstEnergy companies have
13 done to date?

14 A. Yes, that's true.

15 Q. Okay.

16 A. Excuse me, Mr. Allwein. We also look at
17 PA. We want to see what's going on in PA. I do the
18 testimony in Pennsylvania as well. We look at what's
19 going on in PA. We found Ohioans and Pennsylvanians
20 certainly, you know, different from different states,
21 but I find these folks in both states are very
22 attentive to providing good information, and we have
23 a significant -- significant body of information from
24 both states that we rely upon.

25 We look for anomalies basically as

1 something different here that we're not expecting.
2 So we do the due diligence to make sure that we've --
3 you know, we've covered the bases on that.

4 Q. Okay. And do -- I think you kind of
5 implied this in your answer just now, but do the
6 different states and other utility programs you look
7 at and your own recent experience, are they factored
8 differently or weighted differently, depending on the
9 nature of the program or the amount of time the
10 program has been in existence?

11 A. Yes, they would be -- that would be taken
12 into account differently based upon such things as
13 the success or lack of success of a program, the
14 amount of time the program has been in place, for
15 example. We also want to make sure we're looking at
16 customer bases that have the same price
17 motivations --

18 Q. Okay.

19 A. -- and climatological motivations and
20 climatological response requirements as Ohio
21 customers.

22 Q. Okay. But you did indicate earlier that
23 the climatological data is -- is similar in the
24 states you were mentioning. It's more similar to
25 FirstEnergy's territory than, say, Massachusetts or

1 Vermont, I believe were your limits?

2 A. Yes, it is.

3 Q. And regarding the second body of
4 information, the recent experience, program
5 experience, does that -- is that afforded less weight
6 because I think your programs are only approved -- or
7 the company's programs were approved in March of
8 2011; is that correct?

9 A. Yes. But the M&V results from those
10 programs and the ones in Pennsylvania inform us in
11 terms of what programs are really getting tracks.
12 That's very important. What programs are customers
13 interested in? What programs are they not interested
14 in? What programs do we need to do more work in
15 going forward? Where are the next big programs that
16 we want to measure that we want to promote, for
17 example?

18 And those are the kinds of things we look
19 at. So the Market Potential Study moves along -- we
20 provide information. You know, we collect
21 information from all sources. We develop our
22 estimates, but we provide feedback as we go through
23 the process, and we get feedback from the FirstEnergy
24 implementation teams and their evaluation
25 contractors, by the way.

1 Q. So let me ask this one additional way.
2 How sensitive would achievable potential be to
3 changes in your customer survey data?

4 A. I don't even know how to answer that
5 question. What kind of changes are you talking
6 about?

7 Q. Let's say that you've done this twice
8 now, correct, once for the original plan and then
9 once for this proposed plan? Correct?

10 A. Right.

11 Q. Okay. And so if, let's say -- this is a
12 hypothetical but going to the future, if you're going
13 to perform this again in 2015, taking into account
14 that you've -- you described the surveys as a primary
15 driver, would significant results in the survey,
16 let's say they were all increased by 3 or
17 4 percentage points, just hypothetically, would that
18 affect your achievement potential?

19 A. Given your hypothetical?

20 Q. Yeah.

21 A. Yes, it would. It would increase our
22 achievable potential.

23 Q. Okay.

24 A. See, the one thing that when you go for
25 economic, economics is more of a calculation about we

1 know what the TRM tells us. We know what the costs
2 are. But when you go from there, even as your
3 witness says, you've got to make assumptions about
4 penetration of these programs. And I think that
5 certainly if we see a change in customers planning to
6 or considering changes, it's going to change our
7 achievable potential going forward.

8 Remember, though, that at some point, you
9 know, if you've -- if you are familiar with market
10 substitution curves, I know Mr. Swisher is, basically
11 what happens is it's an S-shaped curve. So you have
12 an acceleration of market potential, but, remember,
13 also you already have some preexisting energy
14 efficiency.

15 If you look at our market
16 characterization study for Ohio, there is a great --
17 there's a great saturation of energy efficiency
18 appliances already in big box stores in Ohio. So
19 customers are exposed to it so I can't simply say
20 they are starting out from zero. They had good
21 experience. They are knowledgeable about their end
22 uses. They are knowledgeable about ages of their
23 appliances. They are knowledgeable about the cost of
24 electricity. They are knowledgeable about the
25 environment. We see all of that.

1 But as you move through this, to answer
2 your hypothetical, if you saw an increase in it, it
3 would probably increase your achievable potential at
4 the end of the study period, towards the end of the
5 study period.

6 Q. Why towards the end of the study period?

7 A. Well, I guess what I'm thinking about is
8 really the Market Potential Study for the next three
9 years really wouldn't -- it's not going to change
10 anything. We have targets to hit. The company is
11 going to hit those targets. They are going to do
12 their best to hit those targets.

13 The -- if you increase your -- if a
14 customer increases their consideration of efficient
15 technologies by 3, 4 percent, it would have an impact
16 probably along -- probably along the entire
17 trajectory. So as long as the targets are where they
18 are, the company will meet the targets as required,
19 do their best to meet those targets, but an
20 achievable potential will shift going forward the
21 next time a Market Potential Study is done.

22 Q. Okay. One moment.

23 All right. How would your methodology
24 deal with an energy efficiency opportunity, say,
25 attic insulation, for example, a customer already

1 didn't know about?

2 A. My recollection is we do not have any
3 building showing measures in our Market Potential
4 Study because they don't pass the economic potential.
5 Their TRC and too low for this area.

6 Q. Okay. All right. And you may have
7 touched on this, but have you demonstrated
8 correlation between the interests and intentions
9 expressed using the methodology of the Market
10 Potential Study and actual realized participation in
11 your energy efficiency programs?

12 THE WITNESS: Can I get that question
13 reread, please.

14 (Record read.)

15 A. I'm having trouble with -- I'm having
16 trouble with this, and I'll tell you why. When we
17 look at the correlations between responses -- between
18 the three operating companies, and we find that if
19 you want to express it that way, we do a Z
20 distribution test at a 95 percent confidence, no
21 statistical difference, which indicates to me, it's
22 highly correlated responses from three operating
23 companies. So that's one element.

24 The second thing, though, if -- and I --
25 my counsel will probably get mad at me for this, but

1 there was a DR that you sent us concerning, "Did we
2 do a formal correlation analysis?" And the problem
3 with that question was, the reason I answered the way
4 I did, was how do you do a -- how do you do a one
5 ordered pair correlation analysis?

6 Q. I can't answer that question if you are
7 waiting for an answer.

8 A. Well, that's the problem you have with
9 that question. That's why I'm being hesitant. I
10 think -- I think what we do is we correlate our
11 results in a statistical way among operating
12 companies, and we find that accepting maybe less than
13 10 percent, maybe 50 percent of the answers, the
14 hundreds of answers we get from these customers, from
15 hundreds of customers, less than 5 percent of them
16 don't correlate among the three companies. When we
17 have that situation, we have to make some
18 adjustments, but basically we find they all correlate
19 fairly well.

20 Q. All right. And is -- is there any
21 possibility of -- you are kind of using the three
22 operating companies to sort -- you are using the two
23 operating companies to verify the results of -- of
24 the one. I mean, it's kind of a circular idea here.
25 I mean, could there be some sort of -- is there

1 something that's -- that could create bias across the
2 three companies' service territories and so you would
3 get the same results?

4 A. First of all, I don't agree with your
5 characterization that it's circular. They are three
6 independent samples, so I don't see how that could be
7 circular. I think that any time a customer responds
8 to you, yeah, there is some level of response bias
9 because they are interested in -- in providing
10 responses. They provide comprehensive responses,
11 though, don't they?

12 And if you think about it, we have 2,000,
13 2,400 responses from customers, and in my opinion,
14 they can't -- they cannot be working together to come
15 up with some -- some biased conclusion. So my view
16 is these are independent analyses that -- that
17 support each other, independent samples, the
18 responses. It's not one question. It's not ten
19 questions. It's hundreds of questions, and we are
20 getting great answers from them. I think it's a very
21 important piece of research or very valuable piece of
22 research, and I don't see any problems with a
23 response bias issue at all.

24 Q. Okay.

25 A. And it also makes sense to me -- think

1 about it. It also makes sense to me if you are
2 responding to an energy efficiency questionnaire, if
3 you're responding, you are interested in it. So
4 people that are interested in energy efficiency are
5 more likely to respond than people that are not. So
6 that, to me, even adds more credibility to this
7 analysis.

8 Q. All right. Are you aware of the concept
9 of free ridership in energy efficiency?

10 A. I certainly am.

11 Q. And what is your definition?

12 A. Free ridership are customers that take
13 advantage of a program, even though they are going to
14 do something anyway.

15 Q. Okay. And so by using the base case
16 achievable potential on auctions, people are already
17 planning to change, shouldn't we assume that the base
18 case achievable potential you present represents free
19 rider savings?

20 A. No.

21 Q. In other words, I am saying folks are
22 telling you they plan to change, and then they are
23 going to take advantage of your rebate. They were
24 planning to change anyway, right, so they are free
25 riders?

1 A. No, I don't agree with that at all
2 because if you have a customer that -- our idea here
3 is to move the market. I think -- I don't know who
4 asked the question about market transformation
5 yesterday, but the whole idea of these programs is to
6 move the market, to move the supply and the demand.

7 So what happens is we want to move
8 customers to a higher level of energy efficiency.
9 That's the goal of these programs so that at the end
10 of the day, we don't have to subsidize everybody that
11 does this. We get the market moving. We get more
12 appliances, efficient appliances, and end uses in
13 stores. That's the way these things should work,
14 codes and standards.

15 That's another way they should work. We
16 should be getting better codes and standards to make
17 these things more of a reality, more than something
18 that needs to -- we need to pay incentives for.

19 Q. And I know we talked about the other
20 states that you looked at and AEP. And just to be
21 specific, did you look at participation rates
22 associated with programs similar to those proposed by
23 FirstEnergy in these other jurisdictions you've
24 mentioned?

25 A. We looked at them, and also FirstEnergy

1 looks at them so we get information transfer about
2 that.

3 Q. Okay.

4 A. And we also look at the overall
5 achievements that have occurred, given similar what
6 we expect to be price elasticity responses by -- on
7 energy costs.

8 Q. And on page 5, I believe we have been
9 talking about this, you -- you talk about the
10 definition of achievable potential beginning on line
11 17 and ending on line 19, and you ended it with
12 your -- you screening potential savings estimates to
13 capture that portion of savings that can be
14 realistically implemented by customers. Do you see
15 that?

16 A. I do.

17 Q. Is it unrealistic to expect savings from
18 efficiency programs that exceed the achievable
19 potential as reported in your Market Potential Study?

20 A. I do not understand your question.

21 Q. You're talking about the potential
22 savings. You're screening the economic potential to
23 capture that portion of savings that can be
24 realistically implemented by customers. And what I'm
25 asking is, is that the ceiling of what you can expect

1 from efficiency programs, or is it possible they
2 could exceed the achievable potential as you've
3 reported it in the Market Potential Study?

4 A. I think that there certainly is some
5 bandwidth of estimation error. In a 95 percent
6 confidence sample, for example, could be 2-1/2
7 percent both ways, okay?

8 Q. Uh-huh.

9 A. So the answer to your question is I
10 believe it could be exceeded, and it certainly
11 could -- it could go the other way as well, but,
12 remember, we have a base case and a high case so --
13 and that would apply to both. There is some
14 estimation, and I don't like to use the word "error"
15 because, you know, statistics uses the word "error."

16 We do have estimation error no matter
17 what you do. If you just make an estimate based upon
18 a market substitution model or diffusion curves,
19 whatever, they also have issues with error. And,
20 remember, errors sometimes is affected by the
21 statistician's judgments. Here we have more what I
22 would call not statistician's judgments, but rather
23 customer judgments leading us, but we do provide a
24 high base case.

25 But the answer to your question is, yes,

1 they could be achieved. They could exceed that by a
2 few percentage points based up on our analyses, our
3 analysis frame, and they also may not reach those.

4 Q. Did you review the applicable portions of
5 the Ohio Administrative Code and the Ohio Revised
6 Code in preparation for this proceeding?

7 A. Yes; sometime ago I did.

8 Q. All right. And now, I think this is
9 actually in the Market Potential Study, the Ohio
10 Administrative Code defines achievable efficiency
11 potential as savings that would likely result from
12 the expected adoption by homes and businesses of the
13 most efficient cost effective measures, given
14 effective program design, taking into account
15 remaining barriers to customer adoption of those
16 measures. Are you familiar with that definition?

17 A. Yes, generally I am. I couldn't say -- I
18 couldn't give you the exact quote, but I'm generally
19 familiar with that.

20 Q. Okay. Well, my question was related to
21 that if a customer reports a lack of interest or
22 intent to participate in efficiency programs, would
23 that response represent a barrier to customer
24 adoption?

25 A. Certainly.

1 Q. Okay. And is the reduction of barriers
2 to customer adoption of efficiency measures, would
3 you characterize it or agree with me that it is a key
4 goal of utility energy efficiency programs?

5 A. I'm sorry. Will you repeat that.

6 Q. I will.

7 A. I kind of lost you on that. Just repeat
8 it. I'm sure --

9 MR. ALLWEIN: Okay. May I have the
10 question read back.

11 THE WITNESS: Yeah.

12 MR. ALLWEIN: Please.

13 (Record read.)

14 A. Breaking down resistance or -- resistance
15 of customers to participate through information,
16 education, incentives I think is a goal of energy
17 efficiency programs. I think the -- the key
18 component is to strike the right balance of the
19 amount of costs that should be expended on that, and
20 there might be better ways to do this than simply
21 have utilities spend more of ratepayer money to
22 achieve that end.

23 Q. All right. Well, I guess along those
24 lines, on page 5, line 22, you mention that --
25 beginning on line 19 and ending on line 22, "In other

1 words, even if a measure is cost effective for the
2 customer, they may be unwilling to install the
3 measure for various reasons such as personal
4 preference, reluctance to incur higher upfront cost,
5 or overall budgetary constraints."

6 Do you see that?

7 A. I do.

8 Q. Okay. And my question is, what do you
9 mean by higher upfront costs?

10 A. Well, for example, if you have a central
11 air conditioning system and the -- your compressor
12 fails, and your utility says, you know, you can get a
13 18 SEER unit, we're going to give you another,
14 whatever the incentive is, and you say to yourself,
15 "Do I want to spend another 2,000 bucks," whatever
16 the number is I'm -- that's a hypothetical. You may
17 not want to spend the extra money to buy the more
18 efficient unit. You might say, "I would rather just
19 get what I have. I'm not using it that much anyway,"
20 whatever. That's a higher upfront cost issue.

21 Q. Okay. And what then is an "overall
22 budgetary constraint"?

23 A. Budgetary constraints on the part of the
24 customer, the customer may say, I can do a couple of
25 things this year. I have got to replace my water

1 heater. I have got to do this. I have got to do
2 that. Boy, I would love to participate in a heat
3 pump program, for example, high efficiency heat pump
4 program, but I don't have the money to do it so I'm
5 constrained in that regard. So even though the
6 company is offering these good things, I can't
7 participate because I don't have the budget to do it.

8 Q. And regarding -- going back to the higher
9 upfront cost, well, and, perhaps, possibly the
10 overall budgetary constraints, isn't one way to
11 remove both of these barriers through an adequate
12 incentive?

13 A. Define "adequate incentive."

14 Q. Perhaps a rebate that reduces the upfront
15 cost so that it is, I guess, within that customer's
16 budgetary constraints to afford the more efficient
17 model.

18 A. I think what happens -- I think -- let me
19 try to give -- there's two sides to this answer.
20 Yes, mathematically that may be a way to do it. But
21 there's another issue here which is it's a -- it's
22 almost a redistribution of wealth issue where you
23 start making rebates so high that, you know,
24 customers will just -- yeah, then I think you start
25 getting big free ridership at that point, so I think

1 you've got to be careful about how much incentives
2 that you want to do with certain programs.

3 CFLs I think are important to put in. I
4 think that at some point, you know, high -- high
5 efficiency lighting has had a big impact, so I think
6 that, you know, getting that out in the market,
7 moving the market, market transformation, that's a
8 good way to start, you know, by subsidizing those.
9 They are not big ticket items, but there is
10 significant savings there. When you start to get to
11 big ticket items, I think you've got to be cautious
12 where you draw the line with some rebates and
13 incentives.

14 Q. Okay. But isn't it possible, though -- I
15 mean, if a rebate is too low, you might not get as
16 many folks to buy it as you would have otherwise.
17 You talked about a rebate being too high, but it
18 could work the other way, correct?

19 THE WITNESS: I'm sorry. You'll have to
20 read the question again to me or.

21 (Record read.)

22 A. To answer your question, I'll answer the
23 question about a rebate being too low.

24 Q. Okay.

25 A. If a rebate is too low, the market will

1 tell you that, I think. And so I would agree with
2 your hypothetical that if a rebate it is too low,
3 less people will participate, all else equal.

4 Q. And we've been talking about the
5 barriers, and does FirstEnergy intend to implement
6 programs in a way that continually lowers these
7 customer barriers, as far as you know?

8 A. I hate to do this, but I think you should
9 ask Mr. Miller about that.

10 Q. That poor guy. In your data, your
11 customer survey data, have you demonstrated that the
12 interests and intentions expressed in the customer
13 surveys are unchanging over time after efficiency
14 programs have been productively and effectively
15 deployed?

16 A. I don't understand that question at all.

17 Q. Okay. You have a Market Potential Study
18 in 2009.

19 A. Uh-huh.

20 Q. In which I believe you employed surveys;
21 is that correct?

22 A. Correct.

23 Q. All right. And then in 2012 you
24 conducted a Market Potential Study, and you used
25 surveys there as well, correct?

1 A. That's correct.

2 Q. All right. And so comparing those two
3 surveys, was there any -- anything that demonstrated
4 that the interests and intentions expressed by the
5 customers in those surveys is unchanging over time?

6 A. Well, I can probably give you a good
7 answer to that question by looking at some of the
8 differences between what our results were. So in
9 2009, Market Potential Study, we came up with an
10 economic potential of 21 percent. In the 2012 market
11 study, we came with an economic potential of
12 27 percent, so that's a 6 percent increase in
13 economic potential.

14 What we found was in the base case we
15 found that there was a slight increase in achievable
16 potential from 12 percent to 13 percent, but in the
17 high case we found that it went down from 19 percent
18 to 16 percent, but this could be driven by the
19 economy in Ohio over the last couple of years.

20 So I think that those are the results. I
21 think when you look at -- when you look at the
22 technical potential, it's the same basically. This
23 hasn't changed it. It went up by one percentage
24 point.

25 Q. So between 2009 and 2012, the economic

1 potential increased by 6 percent.

2 A. That's right.

3 Q. But you're saying that the achievable
4 potential -- no, the high case achievable potential
5 decreased by 3 percent.

6 A. That's right.

7 Q. All right. And you say that that may
8 just be because of current economic conditions.

9 A. May be.

10 Q. Okay. And so --

11 A. Now, excuse me, Mr. Allwein. The thing
12 that's really important about this is that it's not
13 that we have one sample of 700. We have three
14 utilities, and they all matched each other in terms
15 of what customers told us. They were -- 95 percent
16 of the responses were significant at a 95 percent
17 confidence level.

18 Q. Okay. Well, my question is I know that
19 in the Market Potential Study you have the tables
20 that compare the base case achievable potential to
21 the high case achievable potential.

22 A. Right.

23 Q. And is this economic potential that's
24 increased 6 percent in the three years, is that
25 factored into those tables?

1 A. Yes.

2 Q. Okay. And how is it factored into those
3 tables?

4 A. You start out with economic potential and
5 the math -- the math is built for achievable
6 potential from the bottom up. It's not top-down
7 math, where economic potential is more top-down math.
8 Well, actually, it's a measured math. That's bottom
9 up, too. Yeah, that's bottom up as well, but one
10 is -- one is do you pass the TRC or don't you pass
11 the TRC?

12 Now, in some cases we actually include
13 programs that might not pass the TRC because they are
14 important programs. They are important. We need
15 them there. They complement other programs,
16 whatever, but the portfolio all passes the TRC.

17 Q. Okay. Now, is there any specific data
18 from any state or jurisdiction that you are aware of
19 that indicates customer attitudes toward utility
20 program participation is static in the face of
21 growing options for customers?

22 A. What type of options are you talking
23 about?

24 Q. Additional opportunities for energy
25 savings, so additional technologies, such as smart

1 strips, things like that.

2 A. We've had smart strips in our plan in
3 Pennsylvania since '09, and there -- I believe they
4 are in Ohio's plan as well.

5 Q. Okay.

6 A. So --

7 Q. Well, that may have been a bad example.

8 A. Okay.

9 Q. I guess I just meant technol --

10 A. No. I think actually you are right about
11 that. I mean, we were in '09. I think that was not
12 something people included, and we actually put it in
13 that plan because we thought it was a pretty --
14 pretty compelling technology for folks to be able to
15 use.

16 Q. And so is there anything that indicates
17 that customers are choosing not to employ these
18 options, or are customers employing these additional
19 opportunities for energy savings as they become
20 available?

21 A. The answer to that question, it depends
22 on the option.

23 Q. Okay. Do you have any examples of where
24 they are employing new technology that perhaps they
25 weren't, say, three to five years ago?

1 A. I would say they are deploying more or
2 employing more CFLs than three to five years ago. We
3 see that in the data. We see more being used. I
4 think as awareness occurs with -- with high
5 efficiency air conditioning, you know, better SEERs,
6 S-E-E-R-S, you'll see more of that because -- and I
7 think it also depends upon the area of the country
8 you're in.

9 Where I live, you know, we pay 22 cents a
10 kilowatt-hour and, you know, here it's different.
11 It's half -- basically half the cost. So I think
12 it's a cost function. It's a cost of electricity
13 function as well. I think depending on where you
14 look, depending upon the cost of electricity is a big
15 driver. It really changes a customer's notion of
16 payback.

17 Q. Any other examples you can think of
18 besides CFLs where customers are employing the
19 technology that they -- in greater numbers or
20 employing, as you said, more than they were a few
21 years ago?

22 A. Well, I think -- I think a host of energy
23 efficient appliances, like refrigerators, freezers,
24 you know, Energy Star appliances. I think they
25 are -- you know, customers are looking more for those

1 kinds of appliances. I see, you know, I see them
2 certainly in, you know, higher-cost areas of the
3 country where people are doing that.

4 And I looked on the data here from the
5 surveys and, you know, there's some significant
6 turnover in appliances that I see in Ohio as well.
7 People need new appliances, and the life cycles, you
8 know, appliances need to be replaced. So we
9 basically did a market characterization survey, and
10 we talked to -- hold on a minute.

11 It's the last page of the Market
12 Potential Study, Appendix E, Retail Stores Surveyed,
13 and we saw there a big difference between the '09 and
14 '12 market potential survey work that we did. We
15 had -- we had somebody literally call a number of
16 these big box stores, and it was very interesting.
17 It was a very well-executed survey that this
18 professional did for us, and she worked for Black &
19 Veatch.

20 And I'll tell you something, the insights
21 were great. She found that -- that salespeople now
22 were far more well versed in energy efficiencies and
23 Energy Star appliances and were willing to make
24 suggestions about those appliances and what the
25 impacts and what the economic -- what the economics

1 will be for those programs if -- they didn't use the
2 "economics" term but they used you'll have
3 significant cost savings.

4 So I think you're seeing that as well.
5 You are seeing more of a shift to that, and the
6 incentivization that, you know, the FirstEnergy plans
7 have for that is extremely helpful and helpful in --
8 helpful in advertising that type of program to
9 customers and providing some incentive so that they
10 can -- so they will go out and look for those
11 appliances in the stores.

12 I think there is a good example you don't
13 have to pay for the full incremental cost of it, but
14 you pay something and get customers to notice it.
15 That's the best cost effective way to do it, I think.

16 Q. And just assuming that the barriers we've
17 talked about and, perhaps, other barriers to customer
18 adoption of efficiency measures are lower in the
19 future after efficiency programs have been deployed,
20 would you expect customers to report greater interest
21 or intent to participate in efficiency programs?

22 A. Now or in the future?

23 Q. In the future.

24 A. I don't know.

25 Q. I don't know. Let me ask it another way.

1 Would increased awareness on a customer's part, is it
2 reasonable to assume that it may create greater
3 interests on that customer's part?

4 A. I'm sorry to have to ask you this, but
5 increased awareness of what?

6 Q. Energy efficiency options.

7 A. Energy efficiency options. I think
8 that -- well, I think yes, and I think that the
9 FirstEnergy programs do that.

10 Q. Okay. And considering the methodology of
11 the Market Potential Study, would the achievable
12 potential increase as a result of reduced barriers to
13 adoption of energy efficiency measures by customers?

14 THE WITNESS: Could I just have the
15 question reread, please.

16 (Record read.)

17 A. I don't think I can answer that without a
18 lot of -- a lot -- there's a lot of moving parts to
19 that discussion.

20 Q. Okay. We'll skip that one for now. As
21 you've been -- as you've testified here today,
22 assuming that the survey results accurately reflect
23 customer attitudes today, are you confident these
24 attitudes would be the same after plan efficiency
25 programs have been in place for several years?

1 A. I don't know.

2 Q. And I think this is Table 1.7. Let me
3 make sure. My question is -- I'll ask the question
4 when we go to the right table. The Market Potential
5 Study indicates that after 2015, the incremental
6 achievable efficiency potential is about 5 percent
7 per year of the baseline sales forecast. Is this
8 rate of increase based, in large part, on the
9 customer survey data?

10 A. You'll have to point me to -- I'm looking
11 for it.

12 MS. KOLICH: That's in the Market
13 Potential Study you are looking for?

14 MR. ALLWEIN: Yes, ma'am.

15 MS. KOLICH: Okay.

16 Q. It is Table 1.7, and that is on page 19.

17 A. Now, what was your question again?

18 Q. My question was, if you look at the
19 percent achievable of original forecast, column over
20 on the right, after 2015, the -- the numbers
21 basically increase incrementally about .5 percent a
22 year, so 7.2 to 7.6; 7.6 to 8.1; 8.1 to 8.6. Do you
23 see that?

24 A. I do.

25 Q. Okay. And is this rate of increase as

1 presented, is that based, in large part, on your
2 customer survey data?

3 A. In significant part.

4 Q. Okay.

5 THE WITNESS: Excuse me, your Honor, can
6 I -- your Honors, can I get a break?

7 EXAMINER CHILES: Let's take a ten-minute
8 break. We'll come back at 10 until 12:00.

9 (Recess taken.)

10 EXAMINER CHILES: All right. Let's go
11 back on the record.

12 Mr. Allwein, you may proceed.

13 MR. ALLWEIN: Okay. Thank you, your
14 Honors.

15 Q. (By Mr. Allwein) Mr. Fitzpatrick, how
16 long are your survey results valid, what period of
17 time?

18 A. We've asked customers to look at the next
19 few years, couple of years, what would they be
20 interested in participating in. So it gives us an
21 idea of what their level of interest is by appliance
22 end use and efficient mergence versus of those
23 appliances and their uses. So I would say that
24 complete snapshot, what it boils down to is a
25 cross-sectional analysis. And that's why I had

1 problems with your -- your data request about
2 correlation studies. It's a cross-analysis looking
3 at what the customers of one period of time have
4 seen, looking at what their prospectives are on the
5 future. I think it's valid to look at that, given
6 their current interest, looking at it over our study
7 period. But we really do look at the first couple of
8 years. But I think that's extrapolative to go out
9 for the remainder of the study period. It does set
10 the boundaries for where we want to go.

11 As I said to you, future market potential
12 studies we could see greater or lesser potentiality
13 to participate, but right now -- so if we do want one
14 a couple of years from now, you know, presumably
15 we'll look at that again and see how these things may
16 have changed up or down.

17 Q. Okay. And I guess what I was asking was,
18 and this is a hypothetical, if this was a ten-year
19 plan as opposed to a three-year plan, would there be
20 a time where you would do an additional survey to
21 update those results, and if so, when would that be?

22 A. I think I would say at the -- assuming
23 that -- assuming that the plan executes as we
24 generally expect it to execute, then I think it would
25 be sufficient to do one if -- before the next cycle,

1 before the next three-year plan cycle. If there is a
2 market change in the way the plan executes, then you
3 might want to look a little sooner than that but.

4 Q. Okay. So -- so going back, if it was a
5 ten-year plan, would you just do the one survey prior
6 to implementing a ten-year program, or would you need
7 to update those surveys at some point?

8 A. Well, I have been doing a lot of utility
9 planning for years, forecasting, and we update those.
10 You have to update them because the world changes,
11 condition changes, use of -- energy use, appliance
12 end uses come on the market. You need to refresh
13 those. You can't do a ten-year study and assume it's
14 going to remain fresh for ten years.

15 Q. So how often -- you said you need to
16 update it occasionally. How often?

17 A. Well, I just gave you the answer to that
18 question. I said -- I said to you, given that things
19 move as we expect them to move with the plan, I think
20 another three years would be a good look.

21 Q. Okay. Thank you for that clarification.

22 A. Sure.

23 Q. Now, you mentioned in the body of
24 information that you review, you talk about
25 program -- program participation rates in other

1 jurisdictions and your customer surveys; is that
2 correct? That was two of the three items.

3 A. And also the -- and also the results that
4 are being achieved in neighboring states.

5 Q. Right. So what is a -- a better measure
6 of achievable potential? Would it be program
7 participation rates in other states, or would it be
8 customer surveys?

9 A. It would be my customer surveys, which,
10 as I said before, verify each other because of the
11 way the samples are designed, and then on top of that
12 looking at surrounding states to see what they've
13 achieved given the same level of climatological data
14 as well as cost data, cost -- cost of electricity
15 data.

16 Let me be a little more clear about that.
17 The reason I wouldn't look at -- I wouldn't look at a
18 Vermont or Massachusetts, for a couple of reasons,
19 one is because climatologically they are entirely
20 different. The saturation of end uses are much
21 different. They have very low saturations of air
22 conditioning, for example. They have high
23 saturations of space heating.

24 A lot of people heat supplementally with
25 wood in Vermont, as an example. That doesn't show up

1 in the surveys like it should because it does
2 affect -- it does skew the amount of energy people
3 use for electric space heating, for example, or gas
4 or oil.

5 That's a bad choice of state, plus their
6 rates are 16 cents a kilowatt-hour there for the
7 average residential customer, where we're about 11 or
8 12 here, so it's been a 30 to 40 percent increase in
9 electricity costs there. Given the price of
10 elasticity of demand, customers are going to be more
11 interested in saving energy in a Vermont environment
12 than a lower-cost area like Ohio, all else equal.

13 Q. All right. Now, are you aware that some
14 utilities achieve higher rates of incremental savings
15 in some cases perhaps exceeding 1 percent a year?

16 A. I am.

17 Q. And some utilities achieve rates of over
18 2 percent a year; is that correct?

19 A. Yes, I believe that is true. And
20 Vermont, I think, is one of the things you are
21 talking about.

22 Q. Okay. And you've highlighted some of
23 those differences in your testimony already today,
24 correct?

25 A. Yes.

1 Q. And so I want to ask you, do you think
2 that going -- referring to some of the differences
3 that you've mentioned today, does that explain or
4 substantiate the approximately .5 percent incremental
5 increase of achievable potential in Table 1.7 versus
6 the 1 or 2 percent that other utilities may achieve?

7 A. Well, first of all, I discount Vermont
8 and Massachusetts completely because of the
9 differences in cost and the differences in climate.
10 If I look at -- if I look at Illinois and I look at
11 Michigan, I look at Pennsylvania, for example, we're
12 looking at something in the order of achieving -- in
13 Illinois there is a .8 percent. Michigan is .4
14 percent. PA is .4 percent, and this is from ACEEE
15 study Mr. Swisher cites in his testimony.

16 The cost per kilowatt-hour, you know, in
17 Michigan and PA, Illinois is in the 12 cent range so
18 it's a little higher than here or, you know, close.
19 But the price elasticity of demand for electricity,
20 if you look at that and then you look at
21 participation and impacts of these programs, the
22 price elasticity is going to dictate people trying to
23 save money.

24 And if their programs, like in Vermont
25 where you have significant subsidies of those

1 programs, people are going to take advantage of those
2 programs. It does not apply here. It's different.
3 Price elasticity is different. Even if the price
4 elasticity is the same, the calculation for 30 to
5 40 percent lower electric rates is different.
6 Participation rates will be lower here, all else
7 equal.

8 Q. Okay. All right. I want to talk about
9 there's more narrative on page 11 of your Market
10 Potential Study.

11 A. Page 11 of the study itself?

12 Q. Yes, sir.

13 A. Yeah, okay. Okay. I'm there.

14 Q. Hang on one second. I'm not there
15 myself. Okay. On page 11, the Market Potential
16 Study states that either the base case or the high
17 case produce cost effective portfolios based on a
18 review of the TRC test; is that correct?

19 A. I'm sorry, I don't see where you are.
20 Could you tell me what paragraph you're in?

21 Q. Yes. I think it is the second paragraph
22 down, and it is line 1, 2, 3, 4, 5, 6. It's kind of
23 the second half of line 6 where it begins, "Both
24 scenarios produce cost effective portfolios based on
25 a review of the Total Resource Cost Tests."

1 Do you see that?

2 A. I do.

3 Q. Okay. And then you state that, "The High
4 Case scenario comes closer to achieving the
5 benchmarks established in 4928.66, Revised Code, as
6 would be expected, but at a higher cost to implement
7 the programs," correct?

8 A. Yes.

9 Q. What do you mean by "comes closer to
10 achieving the benchmarks"?

11 A. The -- in 2026 the base case achievable
12 potential could amount to about 13 percent while the
13 high case amounts to around 16 percent --

14 Q. So --

15 A. -- by 2026.

16 Q. Okay. So you were referring to the --
17 the last year with that statement?

18 A. I was.

19 Q. Okay.

20 A. As opposed to the 22 percent that's
21 quoted somewhere in that first page, I believe.

22 Q. The 22 percent --

23 A. Yes. There it is on the bottom. It
24 says, "While these estimates fall short of the 22%
25 goal established by the Commission for 2025," and

1 then there are statements there about, you know,
2 what -- you know, the caveats.

3 Q. Okay. And going back, you said it comes
4 closer but at a higher cost to implement the
5 programs. What do you mean by -- well, I'm sorry, I
6 know what you mean by higher cost. Do you have an
7 estimate of the higher costs that you refer to here?

8 A. I don't believe I have that estimate, but
9 the higher costs, just so we're clear about what they
10 are --

11 Q. Yes.

12 A. -- this would be in terms of advertising
13 programs and the level of incentives that would be
14 required.

15 Q. Anything else that you can think of that
16 would be included in those higher costs?

17 A. Well, you know, if you think about
18 advertising, for example, yeah, there is a number of
19 components to that and making people aware of the
20 importance of many subsets of the advertising
21 components. And then there are also, you know, the
22 incentives you would see over time, I think you'll
23 start to see more incentives being offered for
24 different types of end uses, for example, that are in
25 the Market Potential Study. So, you know, those are

1 the two general categories, but there are a lot of
2 components under those categories.

3 Q. Okay. And if you go to Table 1.8, which
4 is on page 20.

5 A. Okay.

6 Q. I just have a couple of questions about
7 that. Now, Table 1.8 is the cumulative high case
8 goals achievable through 2020 there in that right
9 column; is that correct?

10 A. I'm sorry, I didn't hear you.

11 Q. I'll say it again, I'm sorry. I'm trying
12 to make the computer work. Table 1.8, the far right
13 column is Percent Achievable of Original FirstEnergy
14 Forecast; is that correct?

15 A. Yes. And that's for Toledo Edison only.

16 Q. Okay. All right. Let's go to Table 1.9
17 then. I believe that is all three of the companies;
18 is that correct?

19 A. 1.9?

20 Q. Yes.

21 A. Oh, that's peak demand reduction. That's
22 also Toledo Edison.

23 Q. All right. I'm looking for a table where
24 you put the three companies together and predict
25 their percent of achievable -- of original

1 FirstEnergy forecast for energy efficiency. Can you
2 direct me to where on that table it is?

3 A. I don't think there is one. I think you
4 have got to put them together. That's what I did.

5 Q. I believe it's Table 1.2.

6 A. Okay.

7 MS. KOLICH: Is that the table on page
8 14?

9 MR. ALLWEIN: Yes, it is.

10 A. That's Ohio Edison high case.

11 Q. Okay. Well, let's just look at that
12 table for now.

13 A. Okay.

14 Q. I'm sorry. Is there a table in here that
15 shows all three of the companies together?

16 A. What we did is develop a way to average,
17 so that's how I did the math myself as I was
18 preparing.

19 Q. Okay. So -- so the column on the right
20 in Table 1.2 in the Market Potential Study is Ohio
21 Edison's High Case Percent Achievable of Original
22 FirstEnergy Forecast, correct?

23 A. That's correct.

24 Q. Okay. And is it correct to say that the
25 achievable potential meets or exceeds the cumulative

1 goals through the year 2020?

2 A. That is correct.

3 Q. All right. And the first year that the
4 cumulative goals are not met or exceeded would be
5 2021, correct?

6 A. That's correct.

7 Q. All right. And that is -- now, that is
8 eight years from now, right? 2021 is eight years
9 from 2012 or close to the end of 2012. I'm not good
10 at math. Is that a good approximation?

11 A. I am not going to do the math so let's
12 just accept what you say.

13 Q. Okay. Thank you for your indulgence.
14 Now, basically from 2020 -- from 2021 through 2026,
15 your table is illustrating a shortfall of achievable
16 potential for energy efficiency for Ohio Edison, even
17 under the high case scenario, correct?

18 A. It is showing the results of the Ohio
19 Edison achievable potential estimations, and then
20 it's comparing to the cumulative goals that we have
21 estimated.

22 Q. All right. And those -- and for 2021
23 through 2026, the achievable potential is less than
24 the cumulative goals?

25 A. Yes.

1 Q. All right. And I just want to ask you,
2 in your opinion, having been in energy efficiency and
3 this kind of work for, I believe, more than 35 years,
4 is it your opinion that future energy efficiency
5 advancements and technology improvements may occur
6 that will possibly make up for that delta between the
7 cumulative goals and the percentage achievable in
8 those future years?

9 A. I think they could occur, yes, but I also
10 think that the one thing that needs to be evaluated
11 from a -- from a state commission policy perspective
12 is how much of these goals are being met by the
13 market substitution that will take place as a result
14 of FirstEnergy's, and other utilities in Ohio, their
15 energy efficiency programs because these programs
16 that are going in place, you know, for the next few
17 years, they are going to move that market.

18 So I think that that needs to be
19 monitored, as well now in terms of is the market now
20 going to transform where the incentives may not be
21 required or they may be lower. Whatever it is,
22 incentives, generally speaking, should really only be
23 utilized to bring in new technology. I mean, I think
24 incentives are good. I think if they pass the TRC, I
25 think these programs, they make sense.

1 But you have got to find the point where
2 you start to reduce incentives because the market
3 transformation component could take over, and it's
4 been shown to take over, and so the programs need to
5 be out there now to call attention to these programs,
6 these technologies, to provide some incentive to get
7 people to participate.

8 Once that happens, you have two things to
9 go on. You have -- you have a demand and a supply
10 component. In Ohio you are going to get more energy
11 efficient appliances and end uses in the retailers'
12 stores because of these programs, and then the
13 customer will be more aware. They will go out and
14 look for these programs.

15 So the answer is I think there could be
16 other technologies that may come along, that could
17 come along but may not be required to incentivize
18 those technologies. That needs to be studied, I
19 think, going forward.

20 Q. Are you aware that 4928.66 allows for
21 efficiency savings from combined heat and power to be
22 included as part of a utility company's savings,
23 energy savings?

24 A. I don't remember that.

25 Q. Okay. It's actually fairly recent.

1 A. Okay.

2 MR. ALLWEIN: Your Honors, may I
3 approach?

4 EXAMINER CHILES: You may.

5 MS. KOLICH: Can I see a copy of what you
6 are handing him?

7 MR. ALLWEIN: Sure. I'm sorry.

8 MS. KOLICH: You only have one?

9 MR. ALLWEIN: Yes.

10 MS. KOLICH: It's just the statute?

11 MR. ALLWEIN: Yes.

12 Q. (By Mr. Allwein) This is a copy of the
13 most recent version of 4928.66 just so you have
14 something to refer to.

15 A. Okay.

16 Q. What I was referring to was about one,
17 two, three, four lines down from the top of the page,
18 and it's the second half of that line. It says, "An
19 energy efficiency program may include a combined heat
20 and power system placed into service or retrofitted
21 after the effective date of this amendment."

22 Do you see that?

23 A. You know, I'm sorry, where are you again?
24 I was just looking at the second page. Where are
25 you?

1 Q. I'm sorry, it's the first page, 4928.66
2 (A) (1) (a). It's the fourth line down, and it starts
3 about the second half of that line. Do you see that?

4 "An energy efficiency program may include
5 a combined heat and power system placed into service
6 or retrofitted on or after the effective date of the
7 amendment of this section."

8 A. I see that.

9 Q. Okay. And does your Market Potential
10 Study include any potential for CHP during the
11 planned period of 2013 to 2015?

12 A. No.

13 Q. Okay. And are you familiar with combined
14 heat and power?

15 A. I certainly am.

16 Q. Okay. Do you think that that is
17 technology that could possibly help to diminish this
18 difference in future years between the cumulative
19 goals as presented here on Table 1.2 percent versus
20 the percentage -- Percent Achievable of Original
21 FirstEnergy Forecast goals in those years of 2021 to
22 2026?

23 A. I've not done a study on combined heat
24 and power for Ohio.

25 Q. Okay. Well, just from your experience

1 developing two market potential studies in the
2 FirstEnergy service territory, is it your opinion
3 that there is potential in that area for the
4 utilization of combined heat and power?

5 A. I think I would more draw upon my
6 experience in looking at combined heat and power.
7 Planning around combined heat and power, looking at
8 the life cycle economics of combined heat and power,
9 looking at the rate and regulatory issues of combined
10 heat and power both in the Northeast, the Southwest,
11 California, Texas.

12 And, again, I've not done the study on
13 it, and it depends on where you are. It depends on
14 the quality of the installations, what they do, and
15 how they affect not only savings, but how do they
16 affect the BTU, BTU in versus BTU out, distribution,
17 and reliability and those kinds of issues, so I don't
18 feel that I could answer your question.

19 Q. Okay. And I want to ask you regarding
20 the customer surveys, did Black & Veatch develop that
21 methodology?

22 A. We developed that methodology. It might
23 be used by other folks. I recall we had some other
24 people at Black & Veatch. A couple of years ago we
25 came up with this survey, but I think we also looked

1 at other utilities that had done something like this.
2 I think we expanded the survey significantly, but I
3 think that we've done a lot of work in FirstEnergy,
4 you know, with these types of surveys, not just for
5 energy efficiency both in PA and Ohio, but also smart
6 meters, smart grid with great success. So we did
7 design it, but I think that there are other utilities
8 that have done surveys like this in the past. This
9 is really a combination of a couple of surveys that
10 we've used in the past.

11 Q. Okay. And was this particular -- well,
12 let me ask you this, did you have other options in
13 terms of developing the Market Potential Study?

14 A. I did. I think I told you what they
15 were. We looked at other options in making our
16 assessment on what we could expect in terms of
17 participation.

18 Q. You don't need to repeat those, but thank
19 you for reminding me. So did you -- did FirstEnergy
20 request that you use this particular methodology for
21 their Market Potential Study?

22 A. No. We actually presented the idea to
23 them and to the energy efficiency team. They liked
24 the idea. They thought it provided a wealth of data
25 for us. We have other data that have been developed,

1 for example, appliance saturation surveys that we've
2 looked at. There's a robust load research capability
3 within FirstEnergy. All of this data dovetails in
4 ultimately to more and more sophisticated analyses
5 that can be performed going forward.

6 So it was -- you know, they felt it was a
7 good idea and good investment of time and resources,
8 and I think it will continue to pay off going
9 forward, but there are other things you look at as
10 well. You don't just make decisions about this in a
11 vacuum.

12 Q. Is this methodology compared to the other
13 methodologies that you mentioned previously, is it
14 generally less expensive to do it this way than other
15 methodologies?

16 A. Are you talking about diffusion curves?
17 That's a less expensive way to go than surveys.

18 Q. Okay.

19 A. This I think is -- it's more expensive.
20 It requires more staging. It requires more time. We
21 actually did use -- we did use diffusion curves back
22 in '09. We developed a plan. We found, I think it
23 was in Pennsylvania, I was thinking, and, you know
24 those -- those analyses are subject to a great amount
25 of estimation and bias.

1 It depends on what you want to -- what
2 you want to produce. You can design a model to
3 basically come up with some variation in the
4 analysis. And what is going on here, if you look at
5 the curves, the way they are developed, those curves,
6 those curves are sochastic.

7 Basically they are a projection out in
8 time, so you have got to have some baseline
9 information, but then you basically say I have gone a
10 life of an appliance. I have an S-shape curve, and I
11 basically look at a couple of pathways for that, and
12 you can estimate a pathway, it could be based on
13 other data or whatever form other service
14 territories. The beauty of this analysis is the data
15 is from this service territory and is statistically
16 significant.

17 Q. And has Black & Veatch used this
18 methodology to produce market studies for other
19 utilities other than FirstEnergy utilities?

20 A. I think we -- that's what we -- we don't
21 do market potential studies generally for the
22 utilities. We do that work here. I've done them in
23 the past, but I find this methodology to be better
24 than, you know, old projections, old curvilinear
25 projection methodologies.

1 Q. Okay. And so is this, your work for
2 FirstEnergy in Ohio and Pennsylvania, is this the
3 first time that you've employed this methodology?

4 A. The survey methodology?

5 Q. Yeah, for the Market Potential Study.

6 A. Oh, for Market Potential Study. It's the
7 first time we've employed this survey, yes. It's a
8 very comprehensive survey, but the components of
9 these surveys we've applied many times before.

10 Q. Okay. And how many times have you used
11 this survey methodology to go from economic potential
12 to achievable potential?

13 A. Oh, just in the FirstEnergy instance.

14 Q. Okay. Okay. And I just wondered, have
15 you ever published this methodology in any kind of a
16 peer review journal?

17 A. No.

18 MR. ALLWEIN: All right. And one moment,
19 your Honors.

20 Q. All right. Referring to your testimony
21 page 13, line 18, you state, "There is a significant
22 percentage of customers who will not participate for
23 various reasons." Do you see that?

24 A. I do.

25 Q. And have there -- have you correlated a

1 customer's past statement that they are neither
2 likely nor unlikely to participate in a program with
3 actual nonparticipation?

4 A. Please describe the type of correlation
5 you're talking about.

6 Q. In other words, if -- is there anything
7 that correlates if, say, 80 percent of customers say
8 they are unlikely to participate in any kind of
9 follow-up that demonstrates indeed 80 percent of
10 customers didn't participate?

11 A. We've looked at the results. In
12 developing our 2012 Market Potential Study, we had,
13 obviously, a 2009 Market Potential Study with
14 surveys. We looked at the program participation
15 rates. You know, we opened the program up -- you
16 know, programs up to everybody, and so we looked at
17 those rates, participation rates, and those
18 participation rates in the aggregate are, you know,
19 are significant, generally match the participation
20 rates or the participation rates that we've estimated
21 from our surveys.

22 If I could point out one more thing. I
23 think the other thing that you have got to remember
24 is from '09 to '12, we've had, you know, economic
25 issues in the country and in Ohio specifically. So

1 this an aberration. We have to look at this going
2 forward, but the bottom line is we have those things,
3 so if you look at those kinds of issues as well, you
4 are going to have ups and downs around that, and they
5 will vary.

6 But my answer, or end use, but generally
7 speaking, I feel like they were good parameters in
8 terms of what we should be looking at, where we
9 should be focusing, what programs we should focus on,
10 what measures.

11 EXAMINER PRICE: You think there should
12 be some demand of pent-up energy efficiency because
13 of the economy?

14 THE WITNESS: There could be. I mean, I
15 think that these survey results that we see in '12,
16 you know, we might see if we do it in a few years,
17 like I said, if we see program participation pick up
18 in '13, and '14, then it might be valuable to revisit
19 that and revisit those surveys to see what customers
20 are thinking at that point in time because economic
21 potential is sort of -- it's math, basically.

22 But the achievable potential is more --
23 there is more to it than that. We think
24 statistically we are significant. It's measuring --
25 it's measuring the sample. It's measuring the

1 population at a high confidence level today, you
2 know, in the last six months.

3 Q. All right. Let's go to page 14, line 14.
4 Make that line 17, please. You state that "Without
5 absolute certainty that the reductions will take
6 place, potential suppliers must account for this
7 contingency, which creates risk, thus increasing the
8 price of electricity over what it might otherwise
9 be."

10 And you're responding to your question,
11 "Wouldn't the overall price of electricity be less if
12 customers participated in energy efficiency
13 programs?"

14 Do you see that?

15 A. Yes, I do.

16 Q. Okay. Is there new analysis that you
17 know of or that you've performed an analysis of the
18 price premium that suppliers must charge to account
19 for load uncertainty?

20 A. I have not done any specific analysis for
21 that.

22 Q. And then referring to that risk that you
23 discuss on line 19 of the same page, page 14 of your
24 testimony, because the cost-effectiveness test you
25 mentioned in some of your previous questions are

1 based on avoided costs, which themselves are based on
2 forward market prices that already include market
3 expectations about energy efficiency, is that risk
4 that you speak of on page 14, line 19, already
5 accounted for in the cost-effectiveness tests?

6 A. Which cost -- I'm sorry -- which
7 cost-effectiveness tests are you talking about? Are
8 you talking about the work we do for TRC?

9 Q. Yes, I believe so. We are talking about
10 the TRC.

11 A. Yeah, there is avoided costs we look at
12 there.

13 Q. Pardon me?

14 A. There are avoided costs that we look at
15 there. They are factored in.

16 Q. But my question was, the avoided costs
17 which themselves are based on the forward market
18 prices, don't they already include market
19 expectations about energy efficiency?

20 A. Well, let me just look at this and get
21 the right context, okay?

22 Q. That's fine. Please take your time.

23 A. Thank you. Okay. What was your question
24 now?

25 Q. My question --

1 MR. ALLWEIN: May I have the question
2 read back, please.

3 (Record read.)

4 A. I -- I'm not sure. I don't know.

5 Q. Okay. If they did, wouldn't the risks
6 that you are talking about on line 19, page 14,
7 already be accounted for in the TRC tests?

8 A. I wouldn't know. I don't know.

9 Q. Okay. And just one last question, maybe
10 two. You've mentioned a couple of times testifying
11 today that you think -- and correct me if my
12 characterization is wrong -- that the proposed plan
13 gives the companies the best chance to meet their
14 energy efficiency benchmarks during the plan period.
15 Is that a fair characterization of what you've said
16 today? You've used the term "best chance" a couple
17 of times.

18 A. I think -- I have not studied the plan in
19 detail. That was not in my testimony in this
20 particular hearing. I believe that the analysis and
21 processes they use to develop a plan is extremely
22 good, their best practice. So I think it's a good
23 plan, generally speaking. I've not studied it in
24 great detail, but I think the Market Potential Study
25 upon which it's based is a great document, a great

1 resource for them forming up their plans for the next
2 three years.

3 Q. Okay. So you have no opinion on whether
4 the plan will or will not meet the benchmarks as
5 proposed?

6 A. Oh, I think there is a good chance that
7 it will, yes. I think especially given the fact that
8 we are hopefully coming out of recession. I think
9 the plan has a great chance to succeed and meet the
10 benchmark marks that it needs to meet.

11 MR. ALLWEIN: I have no further
12 questions, your Honor.

13 EXAMINER CHILES: Thank you. Could we go
14 off the record for a moment.

15 (Discussion off the record.)

16 EXAMINER CHILES: Mr. Dougherty.

17 MR. DOUGHERTY: No questions.

18 EXAMINER CHILES: Mr. Williams.

19 MR. WILLIAMS: No questions.

20 EXAMINER CHILES: Mr. Parram.

21 MR. PARRAM: Yes, thank you.

22 - - -

23 CROSS-EXAMINATION

24 By Mr. Parram:

25 Q. Does this work? Can you hear me now?

1 Okay. Good.

2 A. Yes.

3 Q. Good afternoon, Mr. Fitzpatrick. I am
4 Devin Parram, counsel for staff. I have just a
5 couple of questions for you.

6 You had a discussion with Mr. Allwein
7 regarding free riders and free rider issues. Could
8 you define free riders for me, your definition of
9 what free riders are?

10 A. A free rider is a customer that is going
11 to take advantage of or install a measure or purchase
12 an appliance and they -- basically without any
13 incentive, and they receive the incentive because
14 it's available to them.

15 Q. Okay. Would it be true that the
16 percentage of free riders would increase if a rebate
17 or incentive is set too low?

18 THE WITNESS: I'm sorry. I want to make
19 sure I heard the question right. Can we get this
20 reread? Sorry.

21 (Record read.)

22 A. I don't know. I don't -- I don't think
23 so.

24 Q. Well, in your definition of free riders,
25 I guess you said that the problem would be that

1 people would -- people who would have participated in
2 a program without a rebate or -- I guess in the way
3 you define free riders, would the problem be that it
4 is not incentivizing individuals to participate in
5 the program because of the level of the rebate or
6 incentive?

7 A. I hate to do this to you, but I think you
8 ought to ask Mr. Miller about that. I think he has
9 done more of that than I have recently, so.

10 Q. So Mr. Miller would be a better person to
11 ask about --

12 A. I believe he would know about it as it
13 affects the plan, yes.

14 Q. I had just one other question for you.

15 A. Sure.

16 Q. On page 14 of your testimony --

17 A. Yes.

18 Q. -- line 16 --

19 A. Yes.

20 Q. -- it says -- starts with, "Many of the
21 programs allow customers to opt out of or override
22 programs."

23 A. Uh-huh.

24 Q. What programs are you referring to
25 specifically?

1 A. Well, I guess the statement there is
2 that's a broad statement. I am saying basically any
3 of the programs you can opt not to participate in the
4 program. You offer the program. We can make best
5 estimates about what the program participation would
6 be, but customers may not want to do it. In the case
7 of some programs, like direct load control programs,
8 they can override programs. They can override that
9 program so you are not going to get the peak demand
10 reductions that you might expect at the time of the
11 system peak, around the critical peak pricing times.

12 Q. Are you referring to any residential
13 programs in your question?

14 A. Yes, yes; residential and commercial.

15 Q. And do you know what specific residential
16 programs you would be referring to?

17 A. I think the residential direct load
18 control you can override. There is some programs you
19 can -- you can override those programs. As far as
20 participation in any program, customers have a chance
21 to do it or to opt out of it.

22 MR. PARRAM: That's all I have.

23 EXAMINER CHILES: Thank you.

24 Can we go off the record quickly.

25 (Discussion off the record.)

1 EXAMINER CHILES: Let's go back on the
2 record.

3 Ms. Kolich.

4 MS. KOLICH: Thank you, your Honor.

5 - - -

6 REDIRECT EXAMINATION

7 By Ms. Kolich:

8 Q. Staff counsel was talking to you about
9 rebates and free ridership. In general, do rebates
10 impact free ridership?

11 A. Do rebates? I don't think so, no.

12 Q. Why not?

13 A. Well, I think customers make a decision
14 based upon the rebate that's offered to them, and
15 there are customers that may be buying into
16 something. The level we operate, I don't think it
17 would matter if you are buying into something. I
18 didn't expect to get rebate whether it's 2 cents or
19 20 bucks.

20 Q. Okay. And then Mr. Allwein asked you
21 some questions about Table 1.2 on page 14 of the
22 Market Potential Study. Do you recall that?

23 A. I vaguely recall it.

24 Q. Why don't you pull up the table.

25 A. Sure. Will do. Okay.

1 Q. There was a discussion about when the
2 market potential is less than the cumulative goals.
3 Do you recall that discussion?

4 A. Yeah, I do.

5 Q. Now, that occurs there around 20 -- 2020
6 or 2021; is that right?

7 A. 2021.

8 Q. Okay. That fact, whether right or wrong,
9 does that impact the market potential results for
10 purposes of the plan period at issue in this case?

11 A. No.

12 Q. And the results that you show on Table
13 1.2, are there other independent studies that draw
14 the same conclusions as shown on these studies or on
15 this table?

16 A. Yes. I mean, if you look at, for
17 example, if we -- I think I mentioned this before,
18 Michigan and Pennsylvania, they are looking at
19 something like achieving .4 percent a year in energy
20 savings reduction, both of them, Michigan and
21 Pennsylvania. Illinois I think is .8 percent. Bear
22 with me. I think I have some more information.

23 Q. You may have misunderstood my question
24 Mr. Fitzpatrick.

25 A. Sorry.

1 Q. This table on 1.4 shows that there will
2 not be enough achievable potential in the out years
3 to hit the statutory targets; is that right?

4 A. Yes.

5 Q. Are there any other independent studies
6 that drew that same conclusion?

7 A. That drew the same conclusion that --

8 Q. There will not be enough for
9 FirstEnergy --

10 A. No.

11 Q. In general, there will not be enough
12 achievable potential.

13 A. Yes. Given the information I'm seeing
14 right now, there are.

15 Q. Do you recall any of those studies?

16 A. Well, you're talking about the percentage
17 reductions that that's been for Ohio. One second.
18 Let me just take a look here. If you look at the --
19 at AEP, for example, their base case in 2026 is 16
20 percent, if I am reading this right, and the high
21 case for them is 20 percent, around 20 percent. So
22 AEP's concluded the same thing.

23 Q. Any others that you can recall?

24 A. Well, ACEEE. ACEEE's study back in 2009
25 gives you a base case of 13 percent.

1 Q. And you are talking to Mr. Allwein --

2 EXAMINER PRICE: Wait a second. Wait a
3 second. Where are you getting these AEP numbers
4 from?

5 THE WITNESS: These are the numbers that
6 were provided to me by my staff.

7 EXAMINER PRICE: And where did they get
8 these numbers from?

9 THE WITNESS: I believe the AEP report.
10 If you can bear with me a second, I think I have some
11 of the pages here.

12 EXAMINER PRICE: I would like to get
13 these into the record so it doesn't just look like
14 hearsay.

15 THE WITNESS: Sure. Can I provide that
16 to you?

17 EXAMINER PRICE: You know, we would like
18 to wrap up with you here.

19 THE WITNESS: Yeah, I bet you would. Me,
20 too.

21 EXAMINER PRICE: I mean, if you want to,
22 give them to your counsel, and if she wants us to
23 take administrative notice of a document that's in
24 the Commission record, then we can take that up after
25 we're done with you if this is something that is from

1 a filed Commission document.

2 THE WITNESS: I can -- I'll have to
3 provide it to you. I don't have it here so I can
4 provide it to Ms. Kolich, if you would like.

5 EXAMINER PRICE: That will be fine.

6 Q. (By Ms. Kolich) And one last question,
7 you and Mr. Allwein were discussing, I don't recall
8 the topic publication you used, the phrase "bottom-up
9 math." Could you explain what you meant by that?

10 A. The way the achievable potential study
11 is, I developed it looking at each individual measure
12 and looking at -- and so we belled up from each
13 individual measure to a total achievable potential,
14 so it starts from the bottom up, where the technical
15 potential is top down. We start from generalities
16 and work our way down.

17 MS. KOLICH: That's all I have, your
18 Honor.

19 EXAMINER CHILES: Thank you.

20 Ms. Mooney, would you like to enter an
21 appearance?

22 MS. MOONEY: Yes, your Honor. On behalf
23 of Ohio Partners for Affordable Energy, Colleen
24 Mooney, 231 West Lima Street, Findlay, Ohio.

25 EXAMINER CHILES: Do you have any

1 recross?

2 MS. MOONEY: No.

3 EXAMINER CHILES: Mr. Poulos.

4 MR. POULOS: No, thank you.

5 EXAMINER CHILES: Mr. Oliker.

6 MR. OLIKER: No, thank you.

7 EXAMINER CHILES: ELPC.

8 MR. McDANIEL: No, your Honors.

9 EXAMINER CHILES: Mr. Lavanga.

10 MR. LAVANGA: No.

11 EXAMINER CHILES: Ms. Kyler.

12 MS. KYLER: No questions.

13 EXAMINER CHILES: Ms. Kern.

14 MS. KERN: No questions, your Honor

15 EXAMINER CHILES: Mr. Somoza.

16 MR. SOMOZA: No questions.

17 EXAMINER CHILES: Mr. Allwein.

18 - - -

19 RECROSS-EXAMINATION

20 By Mr. Allwein:

21 Q. I just wanted to ask Mr. Fitzpatrick, I
22 wasn't clear on the answer he gave to the Attorney
23 Examiner on where he got the AEP information.

24 A. Members of my staff put that information
25 together for me from the AEP report.

1 Q. And which report are you referring to?

2 A. Their Market Potential Study.

3 Q. Okay. Their most recent Market Potential
4 Study?

5 A. Yes.

6 Q. Thank you. And the ACEEE report from
7 2009, you referenced that. Can you give any me
8 details on what that is?

9 A. No. It basically was a base case
10 analysis. As I recall -- one second, I might have
11 some more on that. That's basically the programmatic
12 effects. They assume the remaining percentage would
13 come from codes and standards, but programmatic
14 effects would be 13 percent. That would basically
15 cover half of what's required of 22 percent, and
16 that's in that report.

17 Q. Okay. And the only information you have
18 on that report right now -- I don't know if you cited
19 it in your testimony or in the Market Potential
20 Study.

21 A. We did. I think your witness did as
22 well.

23 MR. ALLWEIN Okay. Thank you. I have no
24 further questions, your Honor.

25 EXAMINER CHILES: Mr. Dougherty.

1 MR. DOUGHERTY: No questions.

2 EXAMINER CHILES: Mr. Williams.

3 MR. WILLIAMS: No questions.

4 EXAMINER CHILES: Mr. Parram.

5 MR. PARRAM: No, your Honor.

6 MR. KELTER: You include a number of
7 factors that go beyond just energy efficiency
8 programs, so if that report is going to be cited, I
9 think we really need to know exactly which report
10 that is.

11 MS. KOLICH: Your Honors, the company
12 will provide it on the record after lunch.

13 EXAMINER CHILES: That fine.

14 MR. KELTER: Yeah, that's fine.

15 EXAMINER CHILES: M PC.

16 EXAMINER PRICE: Price no questions.

17 EXAMINER CHILES: I have no questions.

18 So thank you. You may step down.

19 THE WITNESS: Thank you. Right now we
20 will adjourn for lunch.

21 MS. KOLICH: Your Honor, would you like
22 for me to move the testimony now, or later after
23 lunch?

24 EXAMINER CHILES: You can move it now.

25 MS. KOLICH: Are we on the record? At

1 this time the company would move into evidence
2 Company Exhibit No. 3.

3 EXAMINER CHILES: Are there any
4 objections to the admission of Company Exhibit 3?

5 Hearing none, Company Exhibit 3 will be
6 admitted.

7 (EXHIBIT ADMITTED INTO EVIDENCE.)

8 EXAMINER CHILES: Anything further before
9 we break for lunch?

10 MS. KOLICH: No, your Honor.

11 EXAMINER CHILES: We'll return at
12 2:00 o'clock. We'll go off the record. Thank you.

13 (At 12:53 p.m. a lunch recess was taken
14 until 2:12 p.m.)

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1 Tuesday Afternoon Session,
2 October 23, 2012.

3 - - -

4 EXAMINER CHILES: Let's go ahead and go
5 on the record.

6 (Witness sworn.)

7 EXAMINER CHILES: Thank you. You may be
8 seated.

9 - - -

10 DENNIS W. GOINS
11 being first duly sworn, as prescribed by law, was
12 examined and testified as follows:

13 DIRECT EXAMINATION

14 By Mr. Lavanga:

15 Q. Can you please state your name and
16 business address for the record.

17 A. My name is Dennis Goins. My business
18 address is 5801 West Chester Street, Alexandria,
19 Virginia 22310.

20 Q. And on whose behalf are you appearing
21 today?

22 A. I'm appearing on behalf of Nucor Steel
23 Marion and the Ohio Energy Group.

24 Q. Okay.

25 MR. LAVANGA: Your Honor, at this time I

1 would like to have marked OEG/Nucor Exhibit 1, which
2 is the Direct Prepared Testimony of Dr. Goins.

3 EXAMINER CHILES: It will be so marked.

4 (EXHIBIT MARKED FOR IDENTIFICATION.)

5 MR. LAVANGA: And OEG/Nucor Exhibit 2,
6 this is the errata sheet to Mr. Goins' testimony.

7 EXAMINER CHILES: It will also be marked.

8 (EXHIBIT MARKED FOR IDENTIFICATION.)

9 MR. LAVANGA: Thank you.

10 Q. (By Mr. Lavanga) Do you have a copy of
11 what has been marked OEG/NUcor 1 and 2?

12 A. I do.

13 Q. And is that your direct and prefiled
14 testimony and the errata sheet?

15 A. It is.

16 Q. Can you please explain the changes that
17 are shown on the errata sheet.

18 A. The errata sheet, delete a portion of the
19 testimony that relates to a concern raised by me
20 concerning FirstEnergy's response to certain
21 information requests that had been submitted relating
22 to the development and design of the DSE charge.

23 Q. And was there an additional change?

24 A. Yes. At -- at page 10, line 10, separate
25 from the major deletion, the word "energy" is changed

1 to "program." That was a typo.

2 Q. So can you read that sentence as modified
3 by your errata sheet?

4 A. The sentence would read, "The Commission
5 should direct FirstEnergy not to allocate these costs
6 on the basis of energy, even if the costs are later
7 trued-up based on actual program use by rate
8 schedule."

9 Q. Thank you. And aside from the changes on
10 that errata sheet, are there any other changes you
11 would like to make to your testimony?

12 A. No.

13 Q. And if I were to ask you the same
14 questions today, would your answers be the same?

15 A. Yes.

16 MR. LAVANGA: Your Honor, the witness is
17 available for cross-examination.

18 EXAMINER CHILES: Thank you.
19 Companies?

20 MR. LANG: Thank you, your Honor.

21 - - -

22 CROSS-EXAMINATION

23 By Mr. Lang:

24 Q. Good afternoon, Dr. Goins.

25 A. Good afternoon.

1 Q. I'm Jim Lang, representing the companies,
2 the FirstEnergy utilities. I wanted to start off at
3 page 6 of your testimony.

4 A. Okay.

5 Q. This section starts with "Allocation and
6 Recovery of EE/PDR Program Costs." Now, in this
7 first section of your testimony, you're addressing
8 the rate design for the DSE2 charge that is part of
9 rider DSE; is that correct?

10 A. It is.

11 Q. You are not offering an opinion on the
12 rate design for the DSE1 charge.

13 A. No.

14 Q. And you are not also offering an opinion
15 on the rate design that's generally applicable to
16 FirstEnergy's other rate schedules; is that correct?

17 A. That's correct.

18 Q. Same is true, you are not offering an
19 opinion on the rate design for the GP, GSU, or GT
20 schedules.

21 A. That's correct.

22 Q. And you do agree that the FirstEnergy
23 utilities are not proposing any changes to the DSE2
24 charge in this proceeding.

25 A. Yes.

1 Q. And at the top of page 7 of your
2 testimony, you describe how cost allocation is done
3 for the rate schedules going back to the first
4 portfolio plan proceeding; is that correct?

5 A. It is.

6 Q. And the companies are not proposing any
7 changes to the allocation as you describe it here at
8 the top of page 7; is that your understanding?

9 A. It is.

10 Q. Now, on page 8 of your testimony, you
11 describe what you referred to as volatility of the
12 DSE2 charges. Is it correct that you have not
13 attempted to determine the empirical basis for the
14 volatility that you describe?

15 A. That's correct.

16 Q. And is it also your understanding that
17 the DSE2 charge to GT customers reflects actual GT
18 program costs, putting aside the ELR-type programs?

19 A. Yes.

20 Q. Now, one of your recommendations is a
21 monthly cap for the GT customers, and what you
22 recommend is a \$10,000 monthly cap; is that correct?

23 A. It is.

24 Q. With regard to that recommendation, is it
25 fair to say that you do not know what impact that

1 would have on Nucor?

2 A. That's correct.

3 Q. And you have not performed an analysis of
4 the impact of the \$10,000 monthly cap on any Ohio
5 Energy Group member; is that fair?

6 A. That's correct.

7 Q. And you have not performed an analysis of
8 the impact of the \$10,000 monthly cap on GT customers
9 generally; is that true?

10 A. That's true.

11 Q. Now, under your proposal, if a GT
12 customer exceeds the monthly cap, any overage would
13 be spread across the GP and GSU and GT customer
14 sectors; is that true?

15 A. Yes. It would be carried forward to the
16 next rate setting of the DSE2 charge and then spread.

17 Q. So that would be in each, I guess, every
18 six-month readjustment of the charge?

19 A. Yes.

20 Q. Do you know whether that would require
21 the companies to modify their systems, their billing
22 systems, to track such a cap?

23 A. I'm sure it would require some
24 modification.

25 Q. And that would necessarily increase the

1 program administrative expenses; is that fair?

2 A. Marginally, probably.

3 Q. Now, with regard to your recommendation
4 to distribute the excess among the three customer
5 classes, GP, GSU, and GT, you have not performed an
6 analysis of the rate impact on GP or GSU customers of
7 that recommendation; is that fair?

8 A. That's fair.

9 Q. That's true for all three years of the
10 portfolio plan, you've not provided a rate
11 analysis -- a rate impact analysis.

12 A. That's correct.

13 Q. In addition to the cap on page 13 of your
14 testimony, you also set out other alternatives that
15 the Commission could consider. I believe that starts
16 at line 21. And is it correct that one of those
17 alternatives would be to have all GT customers pay
18 the same amount each month, so essentially a flat
19 monthly charge?

20 A. That's one, yes.

21 Q. Another alternative would be a declining
22 block design, as you recommend it?

23 A. It's another alternative that is cited.

24 Q. If the Commission were to consider
25 declining block design, you did not attempt in your

1 testimony to determine where the block break should
2 occur in that design; is that fair?

3 A. That's fair.

4 Q. Now, starting at page 14 of your
5 testimony, you discuss the company's proposed shared
6 savings mechanism --

7 EXAMINER PRICE: Mr. Lang, if I can
8 interrupt for one second.

9 MR. LANG: Sure.

10 EXAMINER PRICE: Did you determine what
11 the DSE2 charge would be, a monthly customer charge,
12 what that charge would be based on current or
13 projected spending?

14 THE WITNESS: No, I did not.

15 EXAMINER PRICE: Thank you.

16 Thank you, Mr. Lang.

17 Q. (By Mr. Lang) With regard to a shared
18 savings mechanism, you agree that whether -- whether
19 a shared savings incentive mechanism should be
20 approved by the Commission is a normative or a policy
21 judgment to be made by the Commission?

22 A. It is.

23 Q. And the level of such a mechanism,
24 percentages of shared savings that might be approved
25 is also a normative judgment, in your mind?

1 A. Yes.

2 Q. And, again, by "normative" we mean a
3 value judgment or a policy judgment, kind of the
4 economic meaning of that?

5 A. It is a nonscientific value judgment.

6 Q. Now, and certainly at some point, you
7 know, 100 percent or 200 percent, you would believe
8 that the shared savings percentage would? Would
9 empirically be unreasonable.

10 A. Yes. I think you could prove that.

11 Q. But you would agree that whether the
12 Commission uses 8 percent or 10 percent or 15 percent
13 as the maximum sharing percentage, that would be a
14 normative judgment possibly made by the Commission.

15 A. It is a normative judgment, but it is
16 also a judgment that I believe can be bounded by
17 factors that are unrelated, for example, to simply
18 the assumed incentive necessary to stimulate the
19 achievement of a certain level of savings. And it's
20 those factors that I believe can be brought into play
21 to make that judgment.

22 Q. Well, let's explore that because I think
23 it's -- it's your belief, is it not, that it
24 generally is unnecessary to provide incentives for
25 most energy efficiency programs?

1 A. I think it's unnecessary to provide
2 incentives to stimulate the achievement of savings in
3 excess of the legislative benchmarks.

4 Q. Now, you would recognize that reputable
5 people make contrary arguments to that position, some
6 I think in this room today.

7 A. Yes.

8 Q. And you have developed -- you have
9 developed incentive mechanisms in the past for
10 utilities; is that correct?

11 A. I have.

12 Q. Is it correct that none of those
13 incentive mechanisms were in the context of energy
14 efficiency or peak demand reduction programs?

15 A. One was explicitly. I think in our
16 discussion in a recent Duke case in Indiana I did
17 propose -- I objected to the incentive mechanism that
18 Duke had proposed in that case. I think it was
19 43955, or something like that. But I said if the
20 Commission wanted to adopt an incentive mechanism, I
21 had an alternative, and I presented it.

22 Q. But it's fair to say you haven't
23 developed an incentive mechanism for -- for a
24 utility, certainly other than in this Duke proceeding
25 in Indiana?

1 A. I've not testified on what I -- I've
2 worked with clients that have filed comments and
3 briefs in cases involving it, but I have not
4 testified. I went back and checked after our
5 discussion.

6 Q. You are familiar with incentive
7 mechanisms in other states including, you said,
8 Indiana, and I believe you've also provided testimony
9 in Arkansas; is that correct?

10 A. In Arkansas, a number of states have
11 them, Michigan, California, New York.

12 Q. And in those programs in other states of
13 which you are familiar, the -- there's been, say, a
14 fairly wide range of shared savings approved in those
15 states; is that correct?

16 A. They are different mechanisms. They're
17 different formulations. They're different
18 applications. They're different magnitudes of
19 incentives, monetary incentives, built into those
20 programs. Very few of them -- some have common
21 characteristics, but it's hard to identify one that's
22 identical to another.

23 Q. With respect to the shared savings
24 incentive mechanisms with which you're familiar, the
25 range of shared savings that you've seen has been

1 anywhere from slightly above zero to the mid teens;
2 is that correct?

3 A. That's fair.

4 Q. You're not aware of a shared savings
5 mechanism that had a percentage that exceeded 20
6 percent; is that right?

7 A. Not explicitly, I'm not. There are
8 certain calculations that I've seen that indicate
9 that one could tweak a program to drive the savings
10 up, but, in general, I would say no. Most of the
11 savings levels, again, the most common are from
12 slightly above zero to somewhere in the mid teens.

13 Q. And with regard to the programs that had
14 shared savings on the higher end, you typically see
15 multiple tiers or interim tiers in that mechanism; is
16 that fair?

17 A. That's fair.

18 Q. Also, some programs that you've seen have
19 caps, some have not.

20 A. That's fair. That's correct.

21 Q. And with regard to which states have caps
22 and which don't, you don't -- I guess there's no
23 specific reason that you can identify as to which --
24 why some have caps and some don't.

25 A. Well, the orders in some of those states,

1 you know, that have caps are -- will certainly
2 address the cap and state a reason. It simply wasn't
3 pulled out of thin air, but there's -- that reason
4 can vary because those programs are different. The
5 laws under which they are enacted or implemented are
6 different. The utilities are different.

7 Q. Now, one of your recommendations is that
8 the top sharing percentage should be 8 percent; is
9 that correct?

10 A. It is.

11 Q. And you have not done an empirical
12 analysis to determine that 8 percent is the optimal
13 top tier level; is that fair?

14 A. Well, since we said that at the outset of
15 this discussion, that this was a normative process, I
16 don't think anyone could say what the optimal from a
17 social welfare point of view, what a -- the optimal
18 incentive structure should be if one wanted to
19 implement it. In a normative scheme, my judgment is
20 as good as your judgment.

21 Q. Well, thank you. Is the -- with regard
22 to showing that some other percentage should be the
23 top tier level would be the same response, you've not
24 done an empirical analysis?

25 A. That's true.

1 Q. Now, you are aware that the shared
2 savings percentages proposed by the FirstEnergy
3 utilities are the same percentages approved by the
4 Commission for AEP Ohio in their recent portfolio
5 plan case; is that right?

6 A. That's correct.

7 Q. But you would -- your position is then
8 that you oppose AEP Ohio's shared savings incentive
9 mechanism; is that right?

10 A. I've done no independent evaluation or
11 analysis, and I didn't testify on that in the AEP
12 case so I haven't formed an opinion. I simply stated
13 in the context of the -- my guess is had I testified
14 on it, I would have come out with something fairly
15 similar to what I testified to in this case.

16 Q. As an alternative to my basic
17 recommendation.

18 EXAMINER PRICE: Was OEG or Nucor an
19 intervenor in that case?

20 THE WITNESS: In the AEP case? I don't
21 know.

22 EXAMINER PRICE: All right.

23 Q. I want to ask you a few questions about
24 your testimony, about bidding the rider ELR load into
25 the PJM capacity auction, base residual auctions.

1 You are -- are you aware that the Commission recently
2 approved the FirstEnergy utilities' most recent
3 electric security plan, which I think we call it
4 ESP III?

5 A. Yes.

6 Q. Are you somewhat familiar with ESP III?

7 A. Only the basics.

8 Q. Okay. And, now, as part of the ESP III,
9 the Commission approved rider ELR to continue through
10 May 31, 2016. Is that something that you are
11 familiar with?

12 A. That's one of the basics.

13 Q. I won't go beyond that.

14 A. I'm sorry.

15 Q. That's fair. Now, are you familiar with
16 curtailment service providers?

17 A. Generally speaking, yes.

18 Q. Could you tell us generally your
19 understanding of what curtailment service providers
20 do?

21 A. They are independent business
22 organizations that can essentially create business
23 linkages or deals with customers and bid into
24 auctions of RTOs the interruptible load provided by
25 those customers.

1 Q. And --

2 A. They also can --

3 Q. I think, Mr. Poulos, I will pick on him.
4 You are familiar with EnerNOC, who he represents, is
5 a curtailment service provider?

6 A. Yes.

7 Q. And are you aware that in the ESP III
8 that EnerNOC opposed the extension of ELR to May 31,
9 2016?

10 A. I am not.

11 Q. Are you aware that curtailment service
12 providers believe that interruptible loads should be
13 acquired and compensated through the market and not
14 through a utility tariff?

15 MR. LAVANGA: Objection. The witness has
16 no way to know what a curtailment service provider
17 thinks of that rider ELR.

18 EXAMINER CHILES: Your response?

19 MR. LANG: To the extent I'm asking -- I
20 am asking for his knowledge and understanding of
21 curtailment service providers and the positions they
22 put forward in Ohio and everywhere else, to my
23 knowledge.

24 EXAMINER CHILES: The objection is
25 overruled. The witness can answer to the extent he

1 knows.

2 A. The only thing I know is what I read in
3 the trade press on occasion and that I have seen, the
4 general statements that you've made.

5 Q. And what would -- what would that be with
6 regard to curtailment service providers and
7 acquisition of interruptible load to be bid into the
8 PJM auction?

9 A. I'm not sure I understand your question.
10 What would that be?

11 Q. I said, what is it that you've read in
12 the trade press?

13 A. Oh, the question that you had asked me
14 was -- or are you generally aware that these
15 organizations are -- want the interruptible load to
16 be handled in, we'll call it, an independent market,
17 nonutility independent market.

18 Q. Rider ELR customers, the company's
19 existing rider ELR customers, cannot shop for
20 generation; is that your understanding?

21 A. Under the rider as it's written, yes.

22 Q. And as a result of that, the rider ELR
23 customers cannot benefit from the competitive offers
24 available in the market; is that also your
25 understanding?

1 A. Independently, yes, that's correct.

2 Q. It's possible then that if the Commission
3 favors pro-market -- pro-market arguments in the
4 company's next electric security plan proceeding,
5 rider ELR could be eliminated as part of that next
6 proceeding; is that fair?

7 A. I have no way of knowing what the
8 Commission might do, and, in particular, whether it
9 relates to a pro-market. I view FirstEnergy's offer
10 of interruptible, curtailable service as a market
11 mechanism, and FirstEnergy has exercised that
12 product -- using that product in a way similar to
13 what a CSP might because FirstEnergy has in the past
14 bid the nonfirm load into the PJM base residual
15 auction. It hasn't done it consistently but has done
16 it, as I state in the testimony.

17 Q. Now, referring to rider ELR as a market
18 mechanism, have you compared the rider ELR offer to
19 market offers for interruptible load available from
20 CSPs, curtailment service providers?

21 A. No. I've made no direct comparison and,
22 in particular, as it relates to this FirstEnergy's
23 ELR.

24 Q. Do you know whether rider ELR is designed
25 to be a market based offer for interruptible?

1 A. Well, it has two components, one of which
2 would be what I would call a focus on cost of service
3 type approach or VAG approach for the interruptible
4 load, and I've testified on that in prior ESP cases
5 or case, at least, and then there is an economic
6 development component that can be combined with it.

7 Q. Nucor is a rider ELR customer; is that
8 right?

9 A. Yes.

10 Q. Now, the next PJM base residual auction
11 will take place in May of 2013; is that right?

12 A. Yes.

13 Q. And that auction is for the 2016-2017
14 delivery year?

15 A. It is.

16 Q. At the time that auction -- at the time
17 that auction takes place, the FE utilities will not
18 have -- will not have ownership rights to
19 interruptible load for the 2016-2017 delivery year.

20 Do you want me to try that again?

21 A. I think it came out as a statement --

22 Q. Let me ask you --

23 A. -- when you were tapping the --

24 Q. Do you agree that at the time that
25 auction takes place, the FE utilities will not have

1 ownership rights to interruptible load, the rider ELR
2 interruptible load, for the 2016-2017 delivery year?

3 A. Yes.

4 Q. And is it also fair to say that you do
5 not know whether at the time the auction takes place
6 in May of 2013, the FE utilities will have
7 interruptible load that meets PJM measurement and
8 verification standards?

9 A. I don't.

10 Q. Now, Nucor as a -- as a company with
11 potentially interruptible load has the option of
12 contracting with a curtailment service provider to
13 have its interruptible load bid into the next PJM
14 base residual auction that will take place in May,
15 2013; is that fair?

16 A. That's fair. Well, I take that back
17 because I don't know what the Nucor contract actually
18 says. I haven't examined it.

19 Q. Do you know whether Nucor, as we sit here
20 today, has contracted with anyone other than the
21 FirstEnergy utilities to have their interruptible
22 load bid into the May, 2013, aches?

23 A. No, I do not.

24 Q. Is that something you've asked Nucor
25 to -- is that information you wanted to know?

1 A. No; not for this purpose at all.

2 Q. So as we sit here today, you don't know
3 whether or not Nucor has committed through an entity
4 other than the FirstEnergy utilities to have the
5 interruptible load bid into the May, 2013, auction;
6 is that right?

7 MR. LAVANGA: Objection, asked and
8 answered.

9 EXAMINER CHILES: Sustained.

10 Q. Now, with regard to bidding interruptible
11 load into the May, 2013, auction, any Ohio Energy
12 Group member has that option and any current rider
13 ELR customer has that option; is that correct?

14 A. To the extent that they are not
15 contractually obligated to FirstEnergy or one of the
16 operating companies, I would assume they did. But,
17 again, I haven't examined the contracts.

18 Q. Do you have any reason to believe that
19 any of the current rider ELR customers are
20 contractually obligated to the FirstEnergy utilities
21 with regard to the 2016-2017 delivery year?

22 A. Again, I don't know what kind of
23 arrangements. I haven't examined their contracts.

24 Q. Do you even know what the number is of
25 rider ELR customers?

1 A. I don't remember the exact number of
2 customers. It's relatively small.

3 EXAMINER PRICE: Do you know the load,
4 the cumulative load, of the ELR or OLR customers?

5 THE WITNESS: The load I think is 200
6 that FirstEnergy provided in a data response as
7 cumulative for registered with PJM for ELR.

8 EXAMINER PRICE: Thank you.

9 Q. Dr. Goins, do you remember what the
10 timeframe was for that 200 megawatts?

11 A. It's in the back of my testimony in a
12 data response, and it's in the next few years, two to
13 three years, one to three years, somewhere in that
14 timeframe.

15 Q. Now, your recommendation is that
16 FirstEnergy bid interruptible load into the 2016-2017
17 capacity auction which will be held next May. Is
18 your recommendation that FirstEnergy calculate the
19 amount of the load using the curtailable load
20 definition in rider ELR?

21 A. No, I haven't testified to that.

22 Q. Are you making any specific
23 recommendation with regard to the amount of the load
24 that's calculated for purposes of bidding into PJM?

25 A. No.

1 Q. Are you familiar with the PJM rules
2 providing penalties for failure to deliver load
3 that's been bid in an auction?

4 A. Generally, yes.

5 Q. Do you know currently how the penalties
6 are calculated for load that's bid in, and then three
7 years later, there's failure of delivery?

8 A. No. Whenever I have that question come
9 up, I download the rules or pull up my files to read
10 them.

11 Q. Do you agree that in future years PJM
12 could increase its penalties for failing to deliver
13 load?

14 A. I'm sure PJM could do whatever PJM, its
15 board, and its members agree to.

16 Q. Do you know whether there's been a
17 discussion of PJM increasing penalties in future
18 years, penalties specifically for failure to deliver
19 load that's been bid in an auction?

20 A. No.

21 Q. Now, let's see, I've asked you about
22 curtailment service providers bidding load into the
23 May, 2013, auction for the 2016-17 year. You also
24 agree that curtailment service providers could
25 acquire and bid load into the incremental auctions to

1 the extent they occur for the 2016-17 delivery year;
2 is that right?

3 A. That's a general understanding I have,
4 but I'm not an expert on the PJM rules. Again, when
5 I need them, I read them.

6 Q. And would you also agree you are not an
7 expert on the PJM incremental auctions and the timing
8 of those, how they are organized?

9 A. Well, I think we agree the timing --
10 well, we agreed to the BRA, I'm sorry. You're
11 talking about the incrementals.

12 Q. Right. Specifically with the incremental
13 auctions, is that something you consider yourself to
14 be an expert on?

15 A. No.

16 Q. Now, I will ask you a series of questions
17 about the May, 2013, auction. Is it also true that
18 curtailment service providers can acquire and bid
19 current rider ELR load into the base residual
20 auctions that will be held in May of 2014 and May of
21 2015?

22 A. If those loads weren't under contract to
23 FirstEnergy, I assume they could.

24 MR. LANG: Thank you, Dr. Goins and your
25 Honors. That's all I have.

1 EXAMINER CHILES: Thank you.

2 IEU?

3 MR. OLIKER: Just a few questions, your
4 Honor.

5 - - -

6 CROSS-EXAMINATION

7 By Mr. Oliker:

8 Q. Good afternoon, Dr. Goins. My name is
9 Joe Oliker. I represent IEU-Ohio. I just have a few
10 questions for you this afternoon. I guess to start,
11 what materials did you review for purposes of
12 compiling your testimony?

13 A. I listed some of them at the first of the
14 testimony. In addition, I reviewed testimony that I
15 filed previously in Ohio. I reviewed the various
16 Commission orders. I didn't catalog them. I simply
17 have thousands of files.

18 Q. Any specific orders, any efficiency
19 orders, POR plan orders? Do you have anything
20 specific that you looked at?

21 A. I looked at various orders, but I don't
22 recall any, you know, specific ones. I didn't -- I
23 briefly looked at the ESP III order, but I didn't try
24 to make any detailed analysis of testimony that was
25 filed or briefs that were filed or any of those.

1 Q. And among the orders you looked at, did
2 you look at any of the orders approving mercantile
3 customers, mercantile customer applications?

4 A. No.

5 Q. Okay. Thank you. I think you talked a
6 little bit about this with Mr. Lang so I will try not
7 to be too repetitive but it might be unavoidable.

8 I think we cleared this up. You believe
9 that costs of energy efficiency programs should be
10 assigned to the rate classes based upon customer
11 participation; is that correct?

12 A. Yes.

13 Q. Would you agree this is consistent with
14 the principle of cost foundation?

15 A. Yes.

16 Q. Your testimony also recommends modifying
17 the allocation methodology, correct?

18 A. Yes.

19 Q. And by that I'm talking about the \$10,000
20 cap for GT customers.

21 A. Yes.

22 Q. And just to be clear, you're recommending
23 this cap even if your initial cost allocation
24 methodology is accepted by the Commission, correct?

25 A. Yes.

1 Q. And going back to the cap, you would
2 defer costs that exceed \$10,000 for GT customers,
3 correct?

4 A. That's correct.

5 Q. And this is in response to a question in
6 your testimony about bill impacts for GT customers;
7 is that correct?

8 A. Yes. In terms of what could happen to
9 very large customers under the DSE2 charges.

10 Q. And those deferred costs, they would be
11 collected from GSU and GP customers, correct?

12 A. And GT.

13 Q. And GT customers.

14 A. Yes.

15 MR. LANG: Your Honors, could we have
16 Dr. Goins to press his microphone button again.

17 THE WITNESS: Sorry.

18 MR. LANG: It just turns off on its own.

19 EXAMINER PRICE: Energy efficiency.

20 Q. (By Mr. Olikier) And on the issue of bill
21 impacts, would costs that exceed \$10,000, would that
22 just apply to GT, or would that apply to any -- to
23 any rate class?

24 A. The way I propose it, it would apply to
25 GT, the large of the large.

1 Q. Is the bill impact different for a
2 customer on GSU that exceeds 10,000?

3 A. I would think that the magnitude, the
4 expected magnitude of the excess would be much higher
5 for the GT customer than it would for the GSU
6 customer, but on an absolute and likely percentage
7 basis.

8 Q. But you wouldn't apply the \$10,000 to
9 them, correct?

10 A. I didn't say I wouldn't. I simply said I
11 didn't in this proposal that I have made in this
12 testimony.

13 Q. And since there would be deferred cost,
14 would you apply carrying charges to that?

15 A. Well, it's an issue that -- that would
16 have to be examined. There would be arguments for
17 and against, you know, the carrying charges on that
18 and, you know, I would not be immediately opposed to
19 it. I also would not be immediately in favor of it.

20 Q. So are you making a recommendation
21 whether there should or should not be carrying costs?

22 A. I didn't address it in the testimony.

23 Q. Do you have a recommendation, Dr. Goins?

24 A. I think that if the Commission believes,
25 as I do, that this excess bill impact problem is

1 sufficient and agrees with me and thinks that the
2 carrying charges are necessary and justified, then
3 the Commission could approve it. I don't necessarily
4 think that they would be necessary. We're talking
5 about a relatively short period of time for these
6 under -- for the excesses, some as short as one
7 month, until the DSE2 charges reset on the
8 semi-annual reset.

9 Q. So you're not recommending a specific
10 carrying charge rate in this proceeding?

11 A. That's correct.

12 Q. Turning to page 12 of your testimony, you
13 say that it is much more likely for smaller
14 industrial customers to take advantage of
15 FirstEnergy's mercantile customers sector programs;
16 is that correct?

17 A. I give two examples of those, and it was
18 the HVAC program and another one. Let me get there.
19 Yes, like the lighting programs.

20 Q. Can you explain to me how you define a
21 small industrial customer, Dr. Goins?

22 A. By small, I don't have a quantitative
23 definition of limit, kW size limit or load factor
24 limit. I'm simply saying that when you're talking
25 about, you know, a 100 kW customer versus a

1 1150-megawatt customer, that's the difference between
2 large and small, in part. And we can get to
3 quibbling when we talk about customers that are
4 fairly similar in loads but differ maybe by 10 or 20
5 percent.

6 Q. And I understand you are not an attorney,
7 but are you aware of whether Ohio law has a specific
8 definition for a mercantile customer?

9 A. In the rules that I have read, mercantile
10 programs and things are defined, but I don't know --
11 I don't know as a fact whether the law or what the
12 legal definition is.

13 Q. Okay. Thank you. Dr. Goins, do you
14 believe a customer with 700,000 kilowatt-hours a year
15 is a large or small industrial customer?

16 A. Probably reasonably large.

17 Q. And are you aware if Ohio statutory
18 requirements regarding an electric distribution
19 utility's energy efficiency and peak demand reduction
20 portfolio obligations have any specific provisions
21 with respect to mercantile customers?

22 A. They do. I can't quote them to you, but
23 they do.

24 Q. Can you give me a general description,
25 please?

1 A. I could pull -- pull one of the rules out
2 and read you those. But I don't know -- I can't
3 quote you a definition of a specific mercantile
4 program or a specific of how the law has defined that
5 or how the law has defined a state mercantile
6 customer.

7 Q. Are you aware whether Ohio law
8 contemplates the Commission having the discretion to
9 provide an exemption to a mercantile customer who
10 undertakes an energy efficiency or peak demand
11 reduction project through their own funding?

12 A. I am aware of that.

13 Q. I think we mentioned this earlier, but
14 you haven't reviewed any Commission orders reviewing
15 a mercantile application for an exemption, have you?

16 A. No.

17 Q. Are you aware of the Commission's
18 automatic approval procurements for mercantile
19 applications?

20 A. No, I am not.

21 Q. And I think you might have mentioned this
22 to Mr. Lavanga, but have you testified in any other
23 proceedings related to energy efficiency?

24 A. I have.

25 Q. Can you identify which proceedings you've

1 testified on those matters?

2 A. Well, on the matter of incentives, the
3 Duke Indiana case, I think -- I think the docket is
4 43955, and that is the only specific testimony on
5 incentives.

6 But in terms of energy efficiency and
7 programs similar to that, I testified in several
8 cases in Arkansas. I don't remember the docket
9 numbers. They were all on behalf of the Arkansas
10 energy electric consumers. I've testified on
11 interruptible, curtailable load in multiple
12 jurisdictions and demand response programs in
13 general.

14 Q. Were any of those proceedings in Arkansas
15 related to the cost allocation for energy efficiency
16 programs?

17 A. They may have been, I'm not sure.

18 Q. Perhaps I can refresh your recollection.

19 A. Okay.

20 MR. OLIKER: May I approach, your Honor?

21 EXAMINER CHILES: You may.

22 MR. OLIKER: I have enough copies.

23 Your Honor, I would like to mark for
24 identification IEU-Ohio Exhibit 1, the Direct
25 Testimony of Dr. Dennis W. Goins on behalf of

1 Arkansas Electric Energy Consumers, Inc. in docket
2 No. 07-085-TF.

3 EXAMINER CHILES: It will be so marked.

4 (EXHIBIT MARKED FOR IDENTIFICATION.)

5 Q. Dr. Goins, do you recognize this document
6 that's been marked as IEU Ohio Exhibit 1?

7 A. Yes, I recognize the docket and the
8 client. I don't know if I have -- I don't know if
9 it's complete. I assume it is.

10 Q. Could you take a look at it for a minute
11 and see if it looks authentic.

12 A. It does.

13 Q. Thank you. And so would you agree this
14 is testimony you filed in Arkansas relating to the
15 allocation of energy efficiency project costs?

16 MR. LAVANGA: Objection. Where does this
17 talk about the allocation of EE costs?

18 MR. OLIKER: I can lay some more
19 foundation, if you would like me to.

20 EXAMINER CHILES: Please lay some more
21 foundation.

22 Q. (By Mr. Oliker) Could you turn to page 8,
23 please. Could you look at that page, and would I be
24 correct that you're discussing the allocation of
25 energy efficiency costs to industrial customers?

1 MR. LAVANGA: Objection. Where is the
2 specific reference?

3 EXAMINER CHILES: Can you give us a line
4 reference?

5 MR. OLIKER: I was trying to summarize
6 the testimony, your Honor, but I would do that if you
7 would like me to.

8 EXAMINER CHILES: Please do so.

9 Q. Dr. Goins, would you agree on page 8,
10 line 12, you stated, "In other words, they should be
11 able to opt out of EAI's Quick Start programs and not
12 be subject to charges under Rider EECR?"

13 Is that your testimony, Dr. Goins, in
14 that proceeding?

15 A. Yes. That has nothing to do with cost
16 allocation.

17 Q. Could you tell me why?

18 A. It's very simple. If you look at the
19 table of contents, you'll see that the subjects that
20 I testified about, beginning at page 6, dealt with
21 the issue of large customer opt out, and the question
22 there was not a matter of cost allocation but rather
23 whether a large industrial customer that undertook
24 its own energy efficiency initiatives should be
25 subject to the program charges that were paying for

1 the utility-sponsored programs. There's nothing in
2 here about this section that you cite and page you
3 cite, nothing at all dealing with cost allocations to
4 various customers.

5 Q. So if I can understand you correctly,
6 you're saying if a customer undertakes their own
7 energy efficiency projects, they shouldn't have to
8 pay for the cost of the program, correct?

9 A. What program are you talking about?

10 Q. I'm talking about your -- the proceeding
11 that you were testifying in, you were saying that a
12 customer should be able to opt out of the costs of
13 energy efficiency if they are undertaking their own
14 energy efficiency projects, correct?

15 A. Yes, that's what I said. In terms of EAI
16 having a series of what were called Quick Start
17 Programs that were made available, there were
18 probably one or two that were applicable to large
19 customers, none of which were very attractive to most
20 customers. And the industrial customers there that
21 wanted to undertake their own energy efficiency
22 initiatives, you know, which were better than the
23 company's sponsored programs that were available,
24 limited as they were, didn't want to pay double for
25 the opportunity. The savings were going to be

1 counted in terms of meeting goals for the utility
2 anyway so it was a matter of being cost effective.

3 Q. And can you tell me what the conditions
4 were for being able to opt out?

5 A. I think I actually attached a sample of
6 what Progress Energy had available. This was
7 simply -- the Commission went on later to actually go
8 in depth and look at opt out, but the focus here was
9 on just giving the Commission an example of a utility
10 opt-out program.

11 Q. Shifting back to Ohio, would you agree
12 that an opt-out mechanism may provide similar, if not
13 better benefits than a \$10,000 cap on monthly
14 charges?

15 A. I don't -- I don't know. They have two
16 different purposes. The purpose of an opt-out
17 program is essentially to enable a customer that has
18 identified an energy efficient state initiative and
19 wants to undertake it, which may and typically is
20 very expensive, that wishes to undertake those
21 initiatives, they don't want to pay for those savings
22 and then pay for savings they also don't get, in
23 particular, given their contribution.

24 MR. OLIKER: Can I have one moment, your
25 Honor?

1 EXAMINER CHILES: Sure.

2 MR. OLIKER: Thank you, Dr. Goins.

3 I have no more questions, your Honor.

4 EXAMINER CHILES: Thank you.

5 The EPLC.

6 MR. McDANIEL: No questions, your Honor.

7 EXAMINER CHILES: Ms. Kern.

8 MS. KERN: No questions, your Honor.

9 EXAMINER CHILES: Mr. Somoza.

10 MR. SOMOZA: No questions.

11 EXAMINER CHILES: Mr. Allwein.

12 MR. ALLWEIN: No, your Honor. Thank you.

13 EXAMINER CHILES: Ms. Loucas.

14 MS. LOUCAS: I entered an appearance
15 yesterday. Do I need to enter an appearance today?

16 EXAMINER CHILES: No.

17 MS. LOUCAS: Yes, I have some questions
18 for Dr. Goins.

19 EXAMINER CHILES: Go ahead.

20 THE WITNESS: I can barely see you.

21 MS. LOUCAS: Yeah, I can't see you
22 either. I'm going to move over a little bit, and I
23 speak softly, so if you don't hear me please let me
24 know and I'll speak up.

25 - - -

1 CROSS-EXAMINATION

2 By Ms. Loucas:

3 Q. Dr. Goins, Mr. Olikier reviewed with you
4 some of the pertinent portions of the Ohio Revised
5 Code regarding mercantile customers and energy
6 efficiency. Are you familiar with the portion of the
7 code, 4928.66(A)(2)(d), as in dog, regarding
8 reasonable arrangements between utilities and
9 mercantile customers?

10 A. I've read it all. Am I'm reasonably
11 familiar to have a discussion with you about the ins
12 and outs of it? No.

13 Q. Okay. Are you aware then -- maybe not.
14 strike that.

15 Are you aware that mercantile customers
16 may enter into a reasonable arrangement with the
17 utility that addresses program costs associated with
18 energy efficiency programs?

19 A. That is my recollection of the reading,
20 yes.

21 Q. And also I take it you reviewed the rules
22 regarding energy efficiency here in Ohio?

23 A. I reviewed them.

24 Q. Okay. Not specifically -- you are not
25 specifically recalling them today.

1 A. I just simply wanted to refresh my mind
2 in terms of -- it was not a matter of going back and
3 trying to prepare for an exam.

4 Q. Okay. I want to refresh your memory a
5 little bit. 49 -- rule OAC 4901, and for the benefit
6 of the court reporter, 1-39-01, Definitions,
7 addresses nonenergy benefits. Nonenergy benefits as
8 defined in that rule here in Ohio include reductions
9 in greenhouse gas emissions, reductions in regulated
10 air omissions, reductions in water consumptions,
11 reductions in natural resource depletion, and
12 enhanced system reliability.

13 Do you agree that those are benefits that
14 can be derived from implementation of energy
15 efficiency programs?

16 A. In general, yes, they could be. Whether
17 a particular initiative or program or effort would
18 achieve those would be subject to analysis.

19 Q. Okay. But generally speaking, and when
20 undertaken in -- in the proportion here in Ohio,
21 specifically in regard to utilities with specific
22 benchmarks that they have to meet and that amount,
23 can you say, generally speaking, that those -- that
24 those benefits would be realized from implementation
25 of energy efficiency programs that meet and/or exceed

1 those benchmarks?

2 A. Well, they might, but there might be
3 benefits or might be a program, for example, that
4 didn't address system reliability at all.

5 Q. Okay.

6 A. There might be a program that had no
7 effect on water usage. There might be a program
8 that -- in other words, when I said the -- a decision
9 or an answer to whether a program, you know, an
10 initiative actually achieved a certain goal would be
11 based on the analysis of that program.

12 Q. Are you familiar with OAC Rule 4901:
13 1-39-02, where it states: The purpose of this
14 chapter is to establish rules to meet or exceed the
15 statutory benchmarks for energy efficiency.

16 A. Yes.

17 Q. Okay. And, again, Ohio Administrative
18 Code Rule 4901: 1-39-04(A) that provides that: An
19 investor-owned utility shall -- shall -- design and
20 propose comprehensive energy efficiency and peak
21 demand response programs that, among other things,
22 meet or exceed the statutory benchmarks for energy
23 efficiency.

24 A. Yes. I'm aware of that.

25 Q. Okay. And, again, Ohio Administrative

1 Code Rule 4901: 1-39-07(A) provides rules that will
2 allow for program costs to be recovered through and
3 an approved rate adjustment mechanism, appropriate
4 lost distribution revenues, and shared savings. Are
5 you familiar with that rule as well?

6 A. Yes.

7 Q. Okay. So we could agree, and it's
8 obvious, that Ohio rule -- law and rules provide for
9 a shared savings mechanism in regard to energy
10 efficiency, correct?

11 A. They don't prohibit it. They don't
12 mandate it. They don't prohibit it.

13 Q. Okay. And is FirstEnergy's mercantile
14 sector determination for cost recovery consistent
15 with the language found in ORC 4928.66(A)(2)(c)?

16 A. I have no idea.

17 Q. Well, you don't find anything in
18 FirstEnergy's cost recovery mechanism that is
19 contrary to any statutory or rule provisions, do you?

20 MR. LAVANGA: Objection, calls for a
21 legal conclusion.

22 EXAMINER CHILES: Could you rephrase your
23 question?

24 MR. LOUCAS: I'll strike that.

25 Q. Your testimony asserted that the DES2

1 creates billing volatility. What percentage of a GT
2 customer's bill varies based on the monthly
3 difference between the DES2 charge, if you know?

4 A. Well, it wouldn't be on a monthly basis.
5 It would be on a rolling six-month basis since it's
6 set -- reset every six months. But I've done no
7 billing analysis. I don't have the bills. I don't
8 have the -- in terms of trying to calculate that, I
9 make no analysis of it.

10 Q. Okay.

11 A. I simply cite some examples of how these
12 charges could affect hypothetical customers with
13 certain loads. I did not compare that to their total
14 bills.

15 Q. Do you know whether or not there are
16 other volumetric charges contained within those
17 bills?

18 A. I'm sure there are.

19 Q. And do you know whether or not those --

20 A. And I say that having not examined their
21 bills either. But I'm sure that there are a number
22 of volumetric charges in the tariff.

23 Q. And do you know whether or not those
24 other volumetric charges result in the same types of
25 alleged volatility?

1 A. I have no idea. They are not reset, you
2 know, in the same way as the DSE2 charge is set.
3 There's numerous riders that may or may not be set on
4 a synchronous basis. There are various rate charges
5 that are set only in the context of a case.

6 Q. So you are not aware then?

7 A. No.

8 Q. Okay. Do you have your deposition in
9 front of you?

10 A. I do not.

11 MS. LOUCAS: Do you have an extra?

12 MR. LAVANGA: We have a copy, yeah.

13 Q. I'm sorry, I meant testimony. I'm sorry.

14 A. I have that.

15 Q. I am new at PUCO. This whole thing of
16 submitting your testimony is new to me. We usually
17 submit depositions.

18 Do you have your testimony before you?

19 A. I do.

20 Q. Dr. Goins, okay, can you please turn to
21 page 9, specifically lines 12 to 13. And you state
22 that "The annualized DSE2 cost burden can potentially
23 exceed \$1 million annually for FirstEnergy's largest
24 GT customers."

25 Do you know whether, in fact, any GT

1 customer has paid a million dollars on an annual
2 basis relative to the DSE2 charges?

3 A. No. I did not examine, again, any
4 individual customer to determine that. I did simply
5 assume certain loads and load characterizations, as
6 in load factor, and just run the DSE2 charges and you
7 can approach that number.

8 Q. But you don't know of any specific
9 customer who has actually hit that number, correct?

10 A. No, I do not.

11 Q. Are you aware of FirstEnergy -- of energy
12 efficiency programs available to large industrial
13 customers in FirstEnergy's plan?

14 A. Yes.

15 Q. Do you know if Nucor or any customer of
16 OEG has taken advantage of any of those plans?

17 A. I do not.

18 Q. And I believe Mr. Oliker may have asked
19 you this, but on page 12 of your testimony, you
20 assert that smaller mercantile customers get more
21 benefit from FirstEnergy's mercantile sector
22 programs, and specifically this is on line 17 through
23 18.

24 A. Yes.

25 Q. Do you have any data that you relied on

1 to come to this conclusion? Do you know, in fact,
2 whether or not smaller mercantile customers take
3 greater advantage of these programs than large
4 customers?

5 A. Well, I can tell you just in terms of
6 having been around a steel mill with an arc furnace
7 that may run 60 to 150 megawatts, or whatever the
8 size -- and I'm not talking about Nucor. I'm just
9 talking about generally you can go to the internet
10 and find what an arc furnace is -- that mill is not
11 going to have a very high HVAC bill. It's simply not
12 a part of the process. The offices may, but the
13 process itself is not.

14 And most of the customers who I talk and
15 deal with each year, they've already -- you know,
16 they've done the lighting stuff, you know. Their
17 business is to make money for their shareholders and
18 to produce product and pay their employees and stay
19 competitive, so anything that they see, generally
20 speaking, that they can afford that will enhance
21 their operating position or competitive position,
22 they'll do it.

23 Q. Including implementation of energy
24 efficiency measures.

25 A. Oh, yes. I mean, you know, in terms you

1 were going through the benefits of energy efficiency,
2 a mini mill like Nucor, for example, and Nucor
3 itself's operation is probably one of the biggest
4 recyclers in the whole United States in terms of
5 reducing waste streams and improving and looking at
6 technologies and the improvements of technologies
7 that may be available, for example, to increase
8 margins or, again, make mills more competitive. If
9 you can do that generally, these businesses will try
10 to do it to their utmost.

11 Q. And are you familiar with a utility cost
12 test?

13 A. Generally. It's one of the California
14 tests in terms of looking -- or a variant.

15 Q. Do you know whether or not it's been
16 applied here in Ohio?

17 A. The TRC is, to my knowledge, the
18 information, the TRC is the test that's used to
19 evaluate and judge energy efficiency programs here.

20 Q. Have you ever -- have you ever conducted
21 or analyzed energy efficiency programs within the
22 context of either the utility cost test or the -- or
23 the total resources cost test? Have you ever had to
24 engage in that analysis?

25 A. I have.

1 Q. I'm sorry.

2 A. I have.

3 Q. You have. Okay. And in what -- and for
4 a particular case or --

5 A. I guess it was the last ESP case, ESP II.
6 It may have been ESP I, I testified in. I think the
7 first two ESP cases regarding interruptible load, and
8 one of the issues, I think it was a case of whether
9 the TRC was applicable.

10 Q. Okay. When you say "ESP," are you
11 talking about FirstEnergy's?

12 A. Yes. I'm sorry.

13 Q. That's okay. Does decreased demand due
14 to energy efficiency programming reduce generation
15 prices, or can it have downward pressure on
16 generation prices?

17 A. Well, in the context of a stand-alone
18 utility, it may or it may not. If you think of it,
19 of energy efficiency as a product that can be sold
20 into a competitive market, it may.

21 Q. Okay. Do you agree that energy
22 efficiency is, itself, an energy resource, where --

23 A. Yes.

24 Q. An energy resource?

25 A. I'm not sure I equate it with a resource.

1 I know PJM does.

2 Q. Okay. And would you agree that energy
3 efficiency, generally speaking, is cheaper than new
4 construction or new generation?

5 A. Again, it will -- again, that's one that
6 I don't want to make a blanket statement on, that
7 question because, again, I think each case has to be
8 analyzed. At times we get in generalities of, for
9 example, energy efficiency is good. Let's have as
10 much of it as we can. And then we forget there are
11 choices to be made, always, whether it's some other
12 type of generation, even the stringent generation,
13 you know, as compared to a central station power
14 plant. So, again, it depends on the context.

15 Q. In your testimony you assert that
16 FirstEnergy should not receive shared savings on
17 mercantile self-directand transmission and
18 distribution projects if the company took no energy
19 efficiency action associated with them. Is that
20 correct? Does that adequately state your opinion?

21 A. What page is that on, if you know? I
22 think what you said is a correct statement of what I
23 said.

24 Q. Page 17, lines 22 to 24.

25 A. Yes.

1 Q. Should FirstEnergy be able to receive
2 peak demand response credit for peak demand response
3 undertaken without FirstEnergy incentive or payment
4 of some kind?

5 A. Would you repeat that question?

6 Q. It's almost like the mercantile question.
7 Should FirstEnergy be able to receive credit for peak
8 demand reduction undertaken without FirstEnergy
9 initiative or effort?

10 MR. LAVANGA: I'm sorry.

11 MS. LOUCAS: Toward its intent.

12 MR. LAVANGA: Can I have that reread.

13 (Record read.)

14 MR. LAVANGA: Are you talking about
15 making demand reduction toward meeting the benchmark?

16 MS. LOUCAS: No, toward shared.

17 A. In general, with respect to the shared
18 savings, I wouldn't -- I wouldn't think so.

19 Q. Okay. And would the same be true for
20 energy efficiency credit?

21 A. If they undertook or were expended to
22 resources on this, no, not on the shared savings.

23 Q. And on --

24 A. I don't object to them getting credit
25 toward the benchmarks.

1 Q. Okay. And on page 21 of your testimony,
2 you enumerate the benefits of bidding in ELR load
3 into the PJM, specifically on line 6 through 8.

4 A. Okay.

5 Q. In fact, you did indicate, "By bidding in
6 the ELR load as a 'price taker,' the ELR load can
7 displace higher-priced generation resources and
8 result in lower capacity clearing prices." Is that
9 your testimony?

10 A. It is.

11 Q. Can the same be true for FirstEnergy
12 bidding in energy efficiency resources into the
13 capacity auction?

14 A. To the extent that those energy
15 efficiency resources could displace higher cost
16 generation, yes.

17 Q. Okay. Now, I just want to take a second
18 and talk about economic development riders. Are you
19 aware of economic development riders in general?

20 MR. LAVANGA: Objection.

21 EXAMINER CHILES: Basis?

22 MR. LAVANGA: Where does he testify on
23 economic development riders?

24 MS. LOUCAS: I want to make a comparison
25 of those who pay and benefit from economic

1 development riders and shared -- and cost recovery
2 mechanisms for energy efficiency programs,
3 theoretically.

4 MR. LAVANGA: The witness isn't
5 testifying on economic development programs.

6 EXAMINER PRICE: But he did -- he did
7 testify the rider ELR had an economic development
8 component to it.

9 MR. LAVANGA: Well, that's a component of
10 ELR.

11 EXAMINER CHILES: The objection is
12 overruled.

13 Q. Okay. Are you aware that economic
14 development riders as collected by investor-owned
15 utilities can subsidize the rates of some
16 manufacturing and industrial companies? Did you hear
17 that now that I'm back on line?

18 A. I caught the first part and the last
19 part.

20 Q. Okay. Are you aware that economic
21 development riders collected by investor-owned
22 utilities may subsidize the rates of some
23 manufacturing and industrial companies?

24 A. Well, they may be a direct rate offset or
25 subsidy or they may not. They may be a direct

1 payment of some kind, but, in general, they are used
2 oftentimes to encourage businesses to locate and, for
3 example, over a period of time, three to five years,
4 show, typical example, might be a declining
5 percentage reduction in electricity cost.

6 Q. Okay. And, generally speaking, does the
7 economic development rider benefit some customers
8 more so than others?

9 A. Well, it often is -- is used to attract
10 new business. It's part of a package that often goes
11 into a combination that would get businesses to
12 locate in certain geographical area, and certainly
13 generally would benefit the households who find jobs
14 there, and so there's -- there are a host of people
15 who will benefit, the site suppliers within the
16 supply chain for the business whose business wouldn't
17 exist without the new business. It's what we call a
18 multiplier effect.

19 Q. Is that -- is it like an incentive in
20 some ways?

21 A. Well, an economic development credit or
22 program can be an incentive. An incentive is not --
23 incentive is not an evil word. It's, again, in the
24 context of how it's used.

25 Q. Okay. Do the utilities -- are utilities

1 permitted to recoup costs for investments in new
2 construction or transmission upgrades?

3 A. If it's used and useful, generally
4 speaking, my experience has been that they are.

5 Q. And earlier you had testified that
6 utilities should not gain -- should not receive an
7 incentive for meeting their legal requirements, i.e.,
8 the benchmarks. Are you aware that at least one of
9 these companies has not met its benchmark?

10 A. In what year?

11 Q. I'm sorry?

12 A. Do you mean ever or in what one
13 particular year or --

14 Q. For the year 2011.

15 A. I think there was one that didn't and two
16 that did.

17 Q. Okay. And can you please look to page
18 16, and I'm almost done, beginning -- one moment,
19 please. I apologize, Dr. Goins. If you could look
20 at page 17, beginning at lines 20 through 24, if --
21 if the companies were amenable to adjusting the
22 incentive tiers to -- to trigger the incentive only
23 auction they exceed -- excuse me. Sorry. If the
24 companies would amend their shared savings incentive
25 so that the incentive would be triggered only auction

1 they exceed the benchmark and it would remove the
2 effects of mercantile self-direct projects,
3 transmission and distribution projects, and
4 behavioral programs from the shared savings
5 calculation, would that make the shared savings
6 incentive a little more palatable for you?

7 A. I totally didn't get that.

8 Q. You didn't get that at all?

9 A. I got two-thirds of it.

10 EXAMINER PRICE: A little more palatable
11 for you was the last phrase.

12 A. Well, it would address two of the bullets
13 on page 17. It would not address the cap on the
14 annual incentives. Well, if they reduced them, it
15 would affect the third bullet as well.

16 Q. Okay. And, generally speaking, you
17 testified -- tell us generally what type of client --
18 now that you are consulting, no longer working for
19 the North Carolina utilities commission, who
20 generally do you represent?

21 A. It's been a -- as I told you last week,
22 it's been a long time since I work with the
23 commission.

24 Q. No. I don't want to know -- generally
25 speaking, who are your clients?

1 A. My client base consists primarily of
2 large commercial and industrial customers, federal
3 installations, federal facilities, which makes up not
4 only some fairly large customers, but also within
5 major metropolitan areas of fairly sizable commercial
6 customers, mid-level commercial customers,
7 nonresidential.

8 Q. Nonresidential, okay, and
9 nonenvironmental advocates, correct?

10 A. I don't know of an environmental
11 customer.

12 Q. Okay.

13 A. I'm sorry.

14 Q. That's okay.

15 A. But, yes, I don't represent, nor have I
16 ever represented, environmental groups.

17 MS. LOUCAS: Thank you, Dr. Goins. I
18 have no further questions.

19 EXAMINER CHILES: Thank you.

20 Mr. Williams?

21 MR. WILLIAMS: Thank you.

22 - - -

23 CROSS-EXAMINATION

24 By Mr. Williams:

25 Q. Just a couple of questions, Dr. Goins.

1 Good afternoon. My name is Todd Williams, here on
2 behalf of AEEO Ohio. I feel that most of this has
3 pretty well been tread over, so it should be fairly
4 simple.

5 I would like to direct you to page 15 of
6 your testimony, particularly lines 23 through 26.
7 It's the sentence reading, "As a result, FirstEnergy
8 would have an incentive to spend as much as possible
9 to exceed the statutory benchmarks." This is in
10 regards to the lack of a cap under the shared
11 savings.

12 I would ask if you are aware of
13 FirstEnergy in any of their other operating companies
14 spending an excessive amount of money to exceed
15 statutory benchmarks on energy efficiency where they
16 have a shared savings mechanism?

17 MR. LAVANGA: I'm sorry, can I get that
18 question read back?

19 MR. WILLIAMS: Can we have that read
20 back?

21 THE WITNESS: The preamble I got. I did
22 not get the question.

23 (Record read.)

24 MR. LAVANGA: Are you referring to Ohio,
25 FirstEnergy Ohio utility?

1 MR. WILLIAMS: No, any of the FirstEnergy
2 operating companies.

3 MR. LANG: And, your Honors, just so the
4 record is clear, I would -- I have to object,
5 assuming facts not in evidence, that FirstEnergy does
6 have a shared savings. He is assuming that
7 FirstEnergy has shared savings mechanisms for other
8 utilities in other states, and that's simply not
9 something that's before us.

10 EXAMINER CHILES: Could you rephrase your
11 question?

12 MR. WILLIAMS: I'm willing to rephrase.

13 Q. Dr. Goins, are you aware of any utility
14 company in your experience where there is a shared
15 savings incentive where they have just gone ahead and
16 excessively spent money in order to recoup due to a
17 lack of a cap?

18 A. I haven't done an empirical analysis of
19 companies that have this, but that's the whole idea
20 of an incentive mechanism, in particular auction you
21 don't have a cap, they have an incentive to do it.
22 In the -- businesses respond to incentives, just as
23 households responds -- respond to incentives. If
24 FirstEnergy -- and, again, this is hypothetical -- or
25 any utility had an open-ended spending mechanism and

1 got a higher return on an incremental dollar spent in
2 a shared -- through a shared savings incentive
3 mechanism than it did, for example, on making
4 infrastructure investments or making a new hire for a
5 new employee or making a capital investment in a new
6 office building or a new computer system, if it can
7 get a higher return through that shared savings
8 mechanism, it would be foolish, from a business
9 perspective, not to do it.

10 The question that we have as consumers is
11 twofold. One, do we want that incentive to be there
12 absent a cap; and, two, assume that they did act as
13 we would think a normal business would act and spent
14 more than -- than it would have normally or that was
15 prudent, and it had adverse consequences on
16 customers. Would that be a good thing or a bad
17 thing? In my mind, it would be a bad thing.

18 Q. Thank you, Dr. Goins. You are not -- to
19 be clear, you are not aware of any utility that has
20 done this?

21 A. Well, other than the California utilities
22 and a few of the others, these incentive mechanisms
23 that are like this are relatively new. Duke
24 Energy's mechanisms that it's been able to get in
25 place in a couple of states, whatever, you know

1 haven't been in effect very long. Other utilities
2 have -- some have more experience with these than
3 others, but, again, it's not a matter of whether we
4 have empirical evidence that it has happened
5 somewhere else. The question is a basic public
6 policy issue. Do we want to create an incentive as a
7 matter of public policy that is open ended and which
8 we know can have unintended consequences? I think
9 it's too late after those bad unintended consequences
10 occur to start worrying about it. I would rather
11 worry about it at the beginning.

12 Q. Are you aware of any of the proposed
13 incent -- well, proposed programs in FirstEnergy's
14 plan that you reviewed for this matter where it would
15 be cost effective to just ramp up spending, given the
16 proposed low levels of incentive coming back to them
17 under the shared savings mechanism?

18 A. Well, it's your characterization that it
19 would be a low level of incentive. It's not mine.

20 Q. Okay. Given -- given any
21 characterization of the percentage level as proposed
22 by FirstEnergy.

23 A. Well, FirstEnergy responded in an
24 interrogatory auction they were asked how would you
25 operate differently if you had the incentive

1 mechanism. This is a paraphrase, and we can provide
2 you with the specific data response, but FirstEnergy
3 said, in general, we don't know. So I'm not sure how
4 they would react.

5 Q. Are you aware of any program, though,
6 that the amount of spending to increase where it
7 would make financial sense under your business, you
8 know, normal business operating model that would make
9 financial sense for the FirstEnergy companies to go
10 ahead and ramp up spending in order to recoup more
11 under the shared savings than it would cost them to
12 increase spending?

13 A. To my knowledge, I didn't make such an
14 analysis. To my knowledge no one in this case has
15 made such an analysis.

16 Q. Thank you, Dr. Goins.

17 A. Including the proponents.

18 MR. WILLIAMS: Thank you. That will be
19 all.

20 EXAMINER CHILES: Thank you.

21 MR. PARRAM: No questions.

22 EXAMINER CHILES: Ms. Mooney, I believe
23 we skipped over you.

24 MS. MOONEY: I have no questions.

25 EXAMINER CHILES: Mr. Poulos.

1 MR. POULOS: I do not.

2 EXAMINER CHILES: Mr. Parram.

3 MR. PARRAM: I have none, your Honor.

4 EXAMINER CHILES: Mr Lavanga.

5 MR. LAVANGA: Can we have 5 minutes,
6 please?

7 EXAMINER CHILES: Yes, you may. We'll
8 take a five-minute break.

9 (Recess taken.)

10 EXAMINER CHILES: Back on the record.
11 Mr. Lavanga.

12 MR. LAVANGA: Your Honor, we have no
13 redirect.

14 EXAMINER CHILES: Examiner Price, do you
15 have any questions?

16 EXAMINER PRICE: I have a couple.

17 - - -

18 EXAMINATION

19 By Examiner Price:

20 Q. Dr. Goins, there were some questions
21 earlier about AEP's portfolio plan and its shared
22 savings mechanism and similarities between what
23 FirstEnergy's proposed and what has been adopted for
24 AEP; is that correct?

25 A. That was a question -- my recollection is

1 there was a question about the percentages in the
2 tiers being the same.

3 Q. Right, exactly. Do you know whether the
4 first -- the AEP shared savings mechanism was created
5 as a result of a stipulation between AEP and other
6 parties?

7 A. My understanding is it was.

8 Q. And in a stipulation, one might expect
9 that some parties may have negotiated something
10 mutually acceptable, something that may not have
11 been in their litigation provision in order to
12 achieve some other end; is that correct?

13 A. Exactly.

14 Q. Second, you mention on page 2 of your
15 testimony that the Commission did not approve the ESP
16 III for FirstEnergy until after the May, 2012,
17 capacity auction; therefore, FirstEnergy did not bid
18 in the ELR capacity; is that correct?

19 A. I said that was my understanding of it
20 based on information that FirstEnergy had supplied to
21 us.

22 Q. Right. Was the May, 2012, auction the
23 last opportunity FirstEnergy had to bid capacity into
24 the 2015-2016 delivery year?

25 A. I don't think so, but I don't know the

1 exact date, if there was -- I can't tell you with
2 certainty.

3 Q. But there are incremental auctions --

4 A. Exactly, yes, there are.

5 Q. -- which may take place before the
6 2015-2016 delivery year.

7 A. There are.

8 Q. Do you know of anything which would
9 prevent FirstEnergy from bidding that capacity into
10 the 2015-2016 -- any incremental auctions which may
11 be held for the 2015-2016 delivery year?

12 A. I don't know of anything, but there may
13 be, but I don't know.

14 Q. You do not know of any?

15 A. I do not know.

16 EXAMINER PRICE: That's all I have.
17 Thank you.

18 EXAMINER CHILES: I have no questions.
19 So thank you. You are excused.

20 THE WITNESS: Thank you.

21 MR. LAVANGA: Your Honor, I would like to
22 move to have OEG/Nucor Exhibits 1 and 2 admitted into
23 evidence.

24 EXAMINER CHILES: Are there any
25 objections to OEG/Nucor Exhibits 1 and 2?

1 Hearing none, OEG/Nucor Exhibits 1 and 2
2 will be admitted.

3 (EXHIBITS ADMITTED INTO EVIDENCE.)

4 MR. OLIKER: I would like to move for the
5 admission of IEU-Ohio Exhibit 1.

6 EXAMINER CHILES: Are there any
7 objections to the admission of IEU-Ohio Exhibit 1?

8 Hearing none, IEU Exhibit 1 will be
9 admitted.

10 (EXHIBIT ADMITTED INTO EVIDENCE.)

11 EXAMINER PRICE: Company would like to
12 call its next witness.

13 MS. DUNN: The company would like to call
14 the much-anticipated Edward C. Miller. I feel like
15 we should give him a round of applause, by the way.

16 EXAMINER PRICE: We'll save that to the
17 end.

18 MR. MILLER: I hope so.

19 (Witness sworn.)

20 EXAMINER PRICE: Please be seated, and
21 state your name and business address for the record.

22 THE WITNESS: My name is Edward Charles
23 Miller. My business address is 631 Excel Drive,
24 Mount Pleasant, Pennsylvania 15666, Suite 200.

25 EXAMINER PRICE: You may proceed,

1 Ms. Dunn.

2 - - -

3 EDWARD C. MILLER

4 being first duly sworn, as prescribed by law, was
5 examined and testified as follows:

6 DIRECT EXAMINATION

7 By Ms. Dunn:

8 Q. Mr. Miller, do you have in front of you
9 what's been previously marked as Company Exhibit 4,
10 your testimony?

11 A. I do.

12 MS. DUNN: Okay. Your Honors, I would
13 like to mark the Testimony of Edward C. Miller as
14 Company Exhibit 4.

15 EXAMINER PRICE: So marked.

16 (EXHIBIT MARKED FOR IDENTIFICATION.)

17 Q. And, Mr. Miller, Exhibit 4 in front of
18 you, that is your testimony in this case?

19 A. Yes, it is.

20 Q. And do you have any corrections to your
21 testimony?

22 A. I do. On pages 18 and 19 of my
23 testimony, there are tables representing the
24 benchmarks for the period 2013 through 2015. These
25 were previously e-mailed to the parties by my counsel

1 with the corrections, and they are the same tables
2 that are included in the companies' plans on page 2
3 of the companies' plan, also known as table 3.1 in
4 the individual company's plans.

5 Q. And just to be clear, Mr. Miller, the
6 tables that you referred to in the companies' plans,
7 those are the correct tables, correct?

8 A. That is correct.

9 Q. And if -- other than the correction you
10 made, if I asked you the same questions -- or excuse
11 me. One more question. The testimony in this case,
12 was that prepared by you or by someone under your
13 direction?

14 A. Yes, it was.

15 Q. And if I asked you the same questions,
16 other than the correction you just identified today,
17 would your answers be the same?

18 A. They would.

19 MS. DUNN: The witness is available for
20 cross.

21 EXAMINER PRICE: Ms. Mooney.

22 MS. MOONEY: Yes, thank you, your Honor.

23 - - -

24 CROSS-EXAMINATION

25

1 By Ms. Mooney:

2 Q. Mr. Miller, my name is Colleen Mooney.
3 I'm an attorney for Ohio Partners for Affordable
4 Energy, and I just have a few questions to ask you
5 about the Community Connections program that's on
6 page 9 of your testimony, and it's at the bottom
7 there from lines 18 through 23.

8 And you say that the Community
9 Connections program "provides weatherization
10 measures, energy efficiency solutions and client
11 education to the Companies' low-income customers at
12 no additional cost to them."

13 And then you say, "The Commission
14 approved the proposed extension of the Community
15 Connections program in its July 18, 2012 Order in the
16 Companies' Electric Security Plan Case No.
17 12-1230-EL-SSO."

18 My question -- and then you have a
19 footnote there on page 10, and it refers to the order
20 in the SSO case on page 13. And my question -- my
21 first question is what -- what do you mean by
22 extension on line 22 of the Community Connections
23 program, the proposed extension?

24 A. On line 22, page 9?

25 Q. Yes, yes, page 9.

1 A. Yes. The extension was referring to that
2 the Community Connections program was provided under
3 the previous electric security plan, I guess referred
4 to as ESP II, and that the program included as part
5 of the companies' proposed portfolio for '13 through
6 '15 is the continuation of that program as included
7 under ESP III.

8 Q. And on page 13 of that opinion and order
9 in 12-1230-EL-SSO and its finding No. 21 there, it
10 says, "The companies will continue funding the
11 Community Connections program under the same terms
12 and -- as the amount set forth in Case No.
13 07-551-EL-AIR and 08-935-EL-SSO, that's ESP II -- for
14 the period of ESP III.

15 But then it says, "However, provided that
16 the amount may be increased as a result of the energy
17 efficiency collaborative approval of such funding and
18 Commission approval of the increase and authorization
19 recovery of increased funding through rider DSE or
20 other applicable rider."

21 Do you see that?

22 A. Are you referring to my testimony?

23 Q. No, no. I was reading from the Opinion
24 and Order on page 13 that's in your footnote.

25 A. Okay. I don't have that.

1 MS. DUNN: Counsel, he doesn't have it in
2 front of him. If you want to provide it to him, he
3 could -- I have no objection to using it, but he just
4 doesn't have it in front of him.

5 MS. MOONEY: I can show it to him.

6 MS. DUNN: Okay.

7 MS. MOONEY: All I've got is the actual
8 page 13.

9 Q. But -- I'll show it to you, but the
10 question is, auction you referred to extension of the
11 Community Connections program, there was no
12 additional funding from what was already given in
13 this ESP case -- that was given in the prior ESP
14 case. I can give you the case number of that one. It
15 was the same terms and conditions, in other words,
16 there was no increase by --

17 A. I see the language that's referenced. I
18 am not sure of the question. I apologize.

19 Q. Well, it -- from the way the -- your
20 testimony on page 9, lines 21 and 22, the reference
21 to an extension is just a reference to it going
22 forward in time, but there was no increased funding
23 as a result of the approval of the electric security
24 plan in Case No. 12-1230-EL-SSO.

25 A. That is correct.

1 Q. Thank you. And there was also -- let me
2 have that. And do you know in what case the
3 Community Connections program was originally funded
4 by FirstEnergy?

5 A. I do not know.

6 Q. Well, it was in Case No. 07-551-EL-AIR.
7 Do you want to see it again?

8 MS. DUNN: We will stipulate that's the
9 correct case number.

10 MS. MOONEY: Thank you.

11 Q. And do you know what the funding level
12 was for the Community Connections program in
13 07-551-EL-AIR?

14 A. I do not.

15 Q. You wouldn't happen to have a copy of the
16 Opinion and Order in 07-551-EL-AIR with you?

17 A. I'm sorry, I do not.

18 MS. MOONEY: And that was January 21,
19 2009. Could I show him the relevant pages of this?
20 And it's page 43? I only gave him pages 43 and 44 of
21 that opinion and order.

22 Q. And that's -- it was funded at \$5 million
23 as a result of the Opinion and Order in 07-551, the
24 rate case.

25 A. I see the term on page 43 that references

1 the 5 million per year funding, but I can't speak to
2 all the terms and conditions, you know, associated
3 with this order.

4 Q. Okay. That's fine.

5 MS. MOONEY: And, your Honors, I don't
6 need to ask for administrative notice of prior
7 Commission orders.

8 EXAMINER PRICE: No. You can refer to
9 that freely.

10 MS. MOONEY: Thank you.

11 EXAMINER PRICE: Could you move her
12 microphone just a little closer. I think it's right
13 under the speaker. No, no, you want to stay close to
14 Mr. Lang.

15 Q. (By Ms. Mooney) So basically there hasn't
16 been an increase in the funding for the Community
17 Connections program since it was initiated in that
18 opinion and order that you have in -- in that '07
19 rate case; is that correct?

20 A. Based on the information I have, that is
21 correct.

22 Q. Does FirstEnergy monitor or have the
23 sense of the number or the percentage of low income
24 customers in the service territories of the three
25 operating companies, Ohio Edison, Toledo Edison, and

1 Cleveland Electric Illuminating Company?

2 A. Our systems do not specifically track low
3 income customers. There are indicators that we have
4 in the system regarding participation and specific,
5 you know, types of programs where the customers were
6 qualified as low income, but it's not an accurate --
7 you know, it's not a full representation of the low
8 income population.

9 Q. Would you have a sense if the low income
10 population in the three operating companies has
11 increased since the opinion and order in the '07 rate
12 case position?

13 A. I would have no basis for how that
14 population has changed since 2008.

15 Q. So FirstEnergy doesn't keep track of that
16 information about whether there has been an increase
17 or decrease in the low income population service
18 territories.

19 A. I do not have that information. We do
20 have individuals who are directly involved with the
21 low income programs who could speak more
22 intelligently how that customer base has changed over
23 time, but I just cannot -- I don't have any basis for
24 that.

25 Q. Does FirstEnergy have any -- do you have

1 any knowledge of the size, the funding size, of low
2 income programs in other electric distribution
3 utilities in Ohio, such as AEP or Duke Energy?

4 A. I don't have that off the top of my head.

5 MS. MOONEY: Your Honor, I would not
6 specifically ask this witness this question, but --
7 and I know I don't have to ask for administrative
8 notice, but I would still like to put on the record
9 the -- at least for the last five years, since '08,
10 the numbers of the Universal Service Fund
11 applications that are filed every year. They are
12 usually filed on October 31, 2008, and we would like
13 to take administrative notice of them for the purpose
14 of this case showing the increase in the three
15 operating companies of at least the customers that
16 are on the Percentage of Income Payment Plan.

17 MS. DUNN: I am going object.

18 EXAMINER PRICE: Objections?

19 MS. DUNN: No foundation. The witness
20 has answered that he -- he doesn't.

21 EXAMINER PRICE: She is asking whether
22 other parties will agree to take administrative
23 notice of these numbers.

24 MS. DUNN: The companies will not.

25 MS. MOONEY: Well, I would like to just

1 read in the case numbers. I understand I don't even
2 have to ask for administrative notice of the PIPP
3 applications by the Ohio Department of Development
4 that are made every year but.

5 EXAMINER PRICE: I'm not sure what you're
6 asking me.

7 MS. MOONEY: I just want to give you the
8 case numbers of the last five.

9 EXAMINER PRICE: Are the case numbers --
10 is the information you want in a Commission order in
11 these case numbers?

12 MS. MOONEY: These are -- I don't know if
13 they actually end up being in the opinion and orders.
14 They are in the applications filed by the Ohio
15 Department of Development.

16 EXAMINER PRICE: Well, then if it's
17 the -- if it's a document, you are going to take
18 administrative notice of those documents.

19 MS. MOONEY: Well, I would ask for
20 administrative notice of the applications in the last
21 five USF rider cases, which is --

22 EXAMINER PRICE: Why don't you read those
23 case numbers out now.

24 MS. MOONEY: Yes. Thank you. There is
25 08-658-EL-UNC, and the application was filed on

1 October 31, 2008. There's 09-463-EL-UNC, and an
2 application filed 11-24-2009. Then there's
3 10-725-EL-USF, amended application filed on
4 November 24, 2009. And then 11-3223-EL-USF, an
5 application filed on October 31, 2001. And this
6 year's is 12-1719-EL-USF, and that application -- and
7 the final application will be filed on October 31,
8 2020.

9 EXAMINER PRICE: You are asking for
10 administrative notice to be taken of those documents
11 for the sole purpose of noting the number of PIPP
12 applications per year.

13 MS. MOONEY: The number of PIPP
14 customers.

15 EXAMINER PRICE: PIPP customers per year.

16 MS. MOONEY: Per year in each of those
17 five years just to show --

18 EXAMINER PRICE: Objections?

19 MS. DUNN: I would like to take a look at
20 those applications. I'm familiar with the last, the
21 12, but not the others to even know if what she is
22 saying is accurate. So I can either take a break now
23 and look at them or I can do it after.

24 EXAMINER PRICE: We will take it up first
25 thing tomorrow.

1 MS. DUNN: Thank you.

2 EXAMINER PRICE: Are you going to be
3 back, Ms. Mooney?

4 MS. MOONEY: Pardon me?

5 EXAMINER PRICE: Will you be back
6 tomorrow morning?

7 MS. MOONEY: I will now.

8 EXAMINER PRICE: We'll take it up
9 tomorrow morning.

10 Q. (By Ms. Mooney) Let me ask you another
11 question. Are you aware of census -- data from the
12 U.S. Census Bureau regarding incomes of households
13 and families in the three operating companies of
14 FirstEnergy?

15 A. I would say I'm aware that the -- or of
16 the census data, but I can't specifically cite the
17 census data.

18 MS. MOONEY: And, your Honor, do I need
19 to have administrative notice taken of U.S. Census
20 Bureau information regarding the number of --

21 EXAMINER PRICE: No. I think you are
22 going to need to put a witness on for that one. I am
23 not sure if I'm comfortable. I'm not even -- do you
24 have a document?

25 MS. MOONEY: I do. I can give you a --

1 there's a website from where we got the information.
2 If that's something you could also just take
3 administrative notice of. I'm not expecting to
4 introduce it as an exhibit because I don't think this
5 witness is --

6 EXAMINER PRICE: Ms. Dunn, it seems like
7 you have something you would like to say.

8 MS. DUNN: I would like to see a copy of
9 it and to see what it says. I'm not trying to impede
10 the ability of her to question the witness. I just
11 think I need to know where she is coming from and
12 discuss with my co-counsel and maybe we can figure
13 something out.

14 EXAMINER PRICE: I would like to see it,
15 too, before I take administrative notice of it.

16 MS. MOONEY: I'll show you. I have what
17 is it called, the website.

18 EXAMINER PRICE: URL.

19 MS. MOONEY: Yeah, URL.

20 EXAMINER PRICE: Now, which numbers on
21 this document are you asking administrative notice be
22 taken of?

23 MS. MOONEY: Well, I'm just at this point
24 asking the Census Bureau, American Fact Finder from
25 the Census Bureau. I'm not specifically going to

1 point out to any number that I want in the record. I
2 just actually was hoping to just get administrative
3 notice of the Census Bureau for information about the
4 number of low income customers. This one is just
5 Ohio. I don't think the Census Bureau does the
6 operating companies of FirstEnergy.

7 EXAMINER PRICE: No, I understand. I
8 guess what I am asking, is this different income
9 levels? Are you asking for this number for every
10 income level, or is there some particular income
11 level you're looking for?

12 MS. MOONEY: Well, no. I didn't want to
13 get that specific about it.

14 EXAMINER PRICE: Okay.

15 MS. DUNN: The companies object on the
16 basis of foundation, relevancy; also the fact that
17 there's no explanation as to what these numbers mean,
18 and it's not something that's proper for
19 administrative notice.

20 EXAMINER PRICE: Okay. We will go ahead
21 and take administrative notice of the published
22 results of the 2011 American Communities Survey, One
23 Year Estimates for the State of Ohio, which is easily
24 confirmable by any party, and if any party disputes
25 the use of the numbers, they can raise it in their

1 brief.

2 MS. DUNN: Okay.

3 MS. MOONEY: Thank you, your Honor.
4 That's all I have.

5 EXAMINER PRICE: Thank you.

6 EnerNOC?

7 MR. POULOS: Thank you, your Honor.

8 - - -

9 CROSS-EXAMINATION

10 By Mr. Poulos:

11 Q. Good afternoon, Mr. Miller.

12 A. Good afternoon.

13 Q. My name is Greg Poulos, and I represent
14 EnerNOC, and I have some questions for the companies
15 about the demand response program, and you
16 represent -- you're the company representative who
17 will be sponsoring that part of the application?

18 A. Yes.

19 Q. First, I wanted to see if you would agree
20 that a benefit of the demand reduction programs is
21 that demand response participation reduces the need
22 to build additional generation capacity.

23 A. In our plans we do identify that as a
24 potential benefit, yes.

25 Q. And that the demand response programs may

1 benefit the environment.

2 A. That is also in the plan as a potential
3 benefit.

4 Q. Would you also agree that bidding demand
5 response resources into the PJM or RPM can displace
6 higher-priced generation resources and result in
7 lower capacity prices?

8 A. That is my understanding.

9 Q. Now, I want to walk you -- have you look
10 at your testimony, page 14, lines 19 to 23, the
11 demand response program. Just let me know auction
12 you're there.

13 A. Okay.

14 Q. And this also goes over to the next page.
15 Your testimony on the demand response programs talks
16 about two different types of programs. The first
17 should be the existing C&I interruptible load
18 programs that would be the ELR and OLR, correct?

19 A. Yes, that's the first part.

20 Q. And of that first part, there are no
21 customers on the OLR, correct?

22 A. That's my understanding currently.

23 Q. The second aspect of the demand response
24 program is contracting with demand response --
25 contracting for demand response; is that correct?

1 A. Yes; contract for with demand attributes
2 with customers or curtailment service providers.

3 Q. Would you also agree that the companies
4 are expecting to get a lot of their peak demand
5 reduction that they need for their benchmarks from
6 the energy efficiency programs?

7 A. Yes.

8 Q. And, in fact, a significant amount of
9 that peak demand reduction will come from the energy
10 efficiency programs, won't it?

11 MS. DUNN: Mr. Miller, it might be
12 helpful to identify for the record what you're
13 looking at so somebody knows.

14 THE WITNESS: I was looking at Table 7 of
15 the company's plans, identifies the program
16 contributions, and I was just looking at the
17 contributions relative from the EE&C portfolio versus
18 DR.

19 And based on that, the answer would be
20 yes, there is a material amount of DR that's coming
21 from the energy efficiency programs in the form of
22 peak demand response.

23 Q. Thank you. Now, I want to talk about
24 counting the contracted demand response and just
25 exactly what the contracted demand response is and

1 how it works. You started to answer the question
2 already a little bit, but would you agree that
3 contracted demand resources include contracts the
4 companies may have with customers for PJM CFPs?

5 A. Yes.

6 Q. For near demand response attributes?

7 A. Yes.

8 Q. How would you characterize the
9 attributes?

10 A. The attributes would be the anticipated
11 demand response for the customers associated with
12 what they would have registered as part of the PJM
13 program.

14 Q. And the companies are not taking
15 ownership of the demand response in the actual
16 participation of that demand response. You are just
17 taking credit for what was done, completed, correct?

18 A. That is correct.

19 Q. Currently the company has an RFP process
20 to obtain those attributes; is that correct?

21 A. Yes.

22 Q. And as part of that RFP process, the
23 company has gone out and done RFPs the last couple of
24 years; is that correct?

25 A. 2011 and '12 that I am aware of.

1 Q. As part of that process, if you are a
2 winning bidder and you are asked -- you are awarded
3 the opportunity to give -- to provide the companies
4 demand response attributes, then you are paid based
5 on what bid you presented; is that correct?

6 A. It would be based on the amount of
7 resources that we ultimately contract with the
8 winning bidder.

9 Q. And after that bidder has won, they --
10 they have to actually demonstrate that they did have
11 the demand response to participate, correct?

12 A. That's my understanding, yes.

13 Q. And how -- how does the RFP winner
14 demonstrate that to the companies?

15 A. I understand it's based on the CSP's,
16 I'll say, test associated with participation in the
17 PJM programs.

18 Q. So there's a process where they -- the --
19 if it's a CSP, they must show you or demonstrate
20 through paperwork and documentation they actually did
21 complete the reductions.

22 A. That is my understanding. I'm not
23 directly involved in that activity to speak to
24 exactly the details, though.

25 Q. And the contracted DR part of the DR

1 programs for the companies, that's kind of like the
2 last stage of what -- how you obtain your demand
3 response attributes, would you agree with that? For
4 example, you would first look to your energy
5 efficiency demand response, and you would look maybe
6 to your ELR demand response?

7 A. That is correct.

8 Q. Can you tell me approximately how much
9 the company's paid per megawatt for demand response
10 attributes that were obtained in 2011?

11 MS. DUNN: I just want to make sure, and
12 it's because I'm not sure, is the information
13 confidential?

14 THE WITNESS: The information would be
15 confidential, yes.

16 Q. Just a general figure. I don't want a
17 specific -- I don't want specific conditions or
18 anything.

19 MS. KOLICH: In the aggregate?

20 MR. POULOS: Just an average. How -- can
21 we go off the record?

22 MS. KOLICH: Can we go off the record?

23 EXAMINER PRICE: Let's go off the record.

24 (Discussion off the record.)

25 EXAMINER PRICE: Okay. Let's go back on

1 the record. I'm going to summarize what I think
2 happened, and the parties can correct me if I'm
3 wrong.

4 While we were off the record, the parties
5 agreed to file under seal a late-filed exhibit by the
6 close of the hearing which will contain the accurate
7 number to the question that Mr. Poulos asked, and the
8 company will provide that exhibit to all parties with
9 which the company has a confidentiality agreement.

10 MS. DUNN: That is correct.

11 MR. POULOS: That is accurate. Thank
12 you, your Honor.

13 EXAMINER PRICE: Proceed, Mr. Poulos.

14 MR. POULOS: Thank you.

15 Q. (By Mr. Poulos) Mr. Miller, as we were
16 discussing the RFP process, that was part of the
17 programs that existed in the last plan; is that
18 correct?

19 A. In the current plan, correct.

20 Q. Thank you, the current plan. The
21 companies have proposed, at least in part of the
22 application, to remove the RFP part of the process;
23 is that correct?

24 A. That is correct.

25 Q. I'll have you look at page 15 of your

1 testimony, lines 6 through 11. That's where it talks
2 about the process of no longer doing an RFP process,
3 but now the companies are asking to count, for
4 purposes of the PDR compliance, all demand response
5 resources for the PJM market for applicable delivery
6 year. Did I read that correctly?

7 A. What was the page number? I'm sorry.

8 Q. I'm sorry, page 15, lines 6 through 8 is
9 what I read.

10 A. That is correct.

11 Q. And just to clarify, auction you are
12 talking about demand response resources participating
13 in the PJM market, you are referring to the PJM RPM,
14 correct?

15 A. That is correct.

16 Q. There are a couple of aspects of this
17 proposal that I wanted to ask you some questions on.
18 Do you follow the PJM RPM participation numbers, the
19 demand response numbers?

20 A. No --

21 EXAMINER PRICE: Just smack it.

22 A. Not intimately, no. I'm -- I have at
23 times looked at the PJM participation numbers, but I
24 have not, you know, I'll say frequently or intimately
25 followed them.

1 MR. POULOS: Your Honor, may I approach?

2 EXAMINER PRICE: You may.

3 MR. POULOS: Your Honor, may I mark this
4 document which states at the top "PJM" and has the
5 title "2015/2016 RPM Base Residual Auction Results"
6 as EnerNOC Exhibit 1.

7 EXAMINER PRICE: So marked.

8 (EXHIBIT MARKED FOR IDENTIFICATION.)

9 MR. POULOS: Thank you.

10 Q. (By Mr. Poulos) Mr. Miller, do you
11 recognize this document?

12 A. Yes.

13 Q. Have you reviewed this before?

14 A. I'll say casually.

15 Q. Can I have you look at page 8 of this
16 document. Now, looking at page 8, if you look at
17 ATSI, which is the zone that the FirstEnergy
18 companies are in, the PJM RPM zone; is that correct?

19 A. The Ohio companies.

20 Q. Ohio companies, thank you. And looking
21 across at 2014/15 in the cleared megawatt area, do
22 you see where I'm referring to where it talks about
23 95.7 megawatts?

24 A. Yes.

25 Q. And then for 2015/16 you talked about

1 1,663 megawatts.

2 A. Yes.

3 Q. Is that your -- do you have an
4 understanding that is -- those are the amount of
5 demand response resources that were cleared in the
6 ATSI zone in those -- in 2014/15 and 2015/16?

7 A. That's my understanding.

8 Q. I also handed you an Exhibit BDE-3. Do
9 you have that in front of you?

10 A. Yes.

11 Q. BDE-3, do you recognize that as an
12 exhibit in this case already?

13 A. I'm sorry. The question?

14 Q. Do you recognize this as an exhibit in
15 this case? It's part of the application, isn't it?

16 A. Yes.

17 Q. Looking down at the total Ohio, and 2013
18 all the way across to the right talks -- do you see
19 the numer 463?

20 A. Yes.

21 Q. Would you agree with me that 463 is the
22 amount of megawatts that the companies would need in
23 2013 to meet their peak demand reduction benchmarks?

24 A. 463 in 2013, yes.

25 Q. And just while you are looking at it,

1 2014 would be 551.

2 A. Correct.

3 Q. And the conditions to meet their
4 benchmark in 2015, it would be 622 megawatts.

5 A. That is correct.

6 Q. So looking back at page 8 of EnerNOC
7 Exhibit 1 for 20,000 -- in ATSI and looking across
8 2014/15, it says 955 megawatts for ATSI. Do you see
9 that? 955.7 to be exact.

10 A. Yes.

11 Q. Now, I recognize that ATSI is not just
12 the FirstEnergy companies, correct?

13 A. Correct.

14 Q. But it's a significant -- the significant
15 part of ATSI is just the companies, would you agree
16 with that?

17 A. I'm not familiar to know the customer
18 distribution that makes up the megawatts to know what
19 portion would be as part of the FE companies or other
20 companies.

21 Q. As your view of these as I'm showing you
22 these figures, would you agree with me that in 2013
23 that there is enough demand response in the PJM RPM
24 based on these figures on EnerNOC Exhibit 1, that it
25 could cover all of the companies' peak demand

1 reduction requirements in that year, 2013?

2 A. I would say potentially, again, not
3 knowing the location of the customers that represent
4 the cleared megawatts.

5 Q. Would your answer be the same for 2014
6 and 2015?

7 A. Yes.

8 Q. Looking again at EnerNOC Exhibit 1 and
9 the 955.7 figure for 2014/25015 in ATSI --

10 A. Yes.

11 Q. -- and just referring to the FirstEnergy
12 companies, is it your understanding that the demand
13 response in that -- that was in the 2014-2015 RPM
14 delivery year, is mostly curtailable service
15 providers, curtailment service providers, and from
16 companies -- from customers, and, more directly, is
17 not from the companies?

18 A. I can't speak to that distribution.

19 Q. Let me ask you --

20 A. I would just be speculating.

21 Q. Let me ask it a little clearer. The
22 955.7 megawatts for 2014-2015 that were in ATSI, did
23 the companies -- did any of those megawatts come from
24 the companies?

25 A. I know we have participated in the PJM

1 auction. I cannot speak to the delivery years or the
2 megawatts, however.

3 Q. Would there be any other witness who
4 could in this case?

5 A. Yes, Witness Demiray.

6 Q. Do you have an understanding that CSPs
7 and direct participation provide most of the DR
8 that's accounted for in that 955?

9 MS. DUNN: Asked and answered.

10 EXAMINER PRICE: Can I have the question
11 back again.

12 (Record read.)

13 EXAMINER PRICE: Sustained.

14 Q. If it -- hypothetically speaking, if
15 there is 955 megawatts, I'm referring to in the
16 2014-'15 year, the FirstEnergy companies' territory,
17 and the companies needed significantly less megawatts
18 to meet their demand reduction level, say they were
19 looking at 2014, they would only needed 551, would
20 the companies be asking for shared savings for the
21 amount in excess of the 551 demand reduction
22 benchmark?

23 A. I can't speak to the shared savings
24 proposal. That would be Witness Demiray.

25 EXAMINER PRICE: I see how it goes.

1 Everybody pointed the finger at you. You are
2 pointing at the next witness down the line.

3 THE WITNESS: Sorry.

4 Q. If the companies' proposal to count all
5 the demand response within the territory in this new
6 approach that's presented in the application is
7 approved, is there a process for validating that the
8 demand response actually happens?

9 A. I would expect that the registration and
10 the documentation that we discussed earlier with PJM
11 would provide the justification that the resources
12 actually were available for PJM.

13 Q. So there would be no other expectation of
14 any of the parties to perform the demand response to
15 demonstrate, to provide paperwork or do any extra
16 work to demonstrate that they complied?

17 A. Not that I can think of.

18 Q. Mr. Miller, is your opinion -- is it your
19 opinion that this approach to -- for the companies to
20 be able to account for all demand response within its
21 territory will incur more contracted DR or more DR
22 from CSPs?

23 A. The approach is to -- the approach is to
24 recognize the customers who are already participating
25 in the PJM programs and the companies' service

1 territories, so it would be leveraging the existing
2 resources.

3 Q. Would it in any way encourage more demand
4 response participation by curtailment service
5 providers?

6 A. For some reason that's -- my inclination
7 is no. The -- the thoughts that -- excuse me. The
8 reason for the pause is more associated to the
9 customers' decision to participate in those programs,
10 you know, the value proposition associated with the
11 PJM market, and the customer is already actively
12 making that decision and participating, and there's
13 many factors that influence the customers' decision
14 to participate. So I'm kind of hesitant on the, you
15 know, new aspect just recognizing all the dynamics
16 that impact customers' decisions to participate in
17 the markets.

18 Q. Are there steps -- are there steps that
19 the companies could take to encourage more demand
20 response from curtailment service providers or
21 directly from customers in the territories?

22 A. I believe that's yes.

23 Q. Has the company reviewed or considered
24 any of those as part of this application?

25 A. No, we have not.

1 MR. POULOS: Your Honor, may I approach
2 the witness?

3 EXAMINER PRICE: You may.

4 MR. POULOS: Thank you.

5 Q. Mr. Miller, let me know auction you have
6 had a chance to look this over.

7 A. Okay.

8 MR. POULOS: Your Honor, may I have this
9 marked as EnerNOC Exhibit 2.

10 EXAMINER PRICE: You may.

11 (EXHIBIT MARKED FOR IDENTIFICATION.)

12 MR. POULOS: Thank you. And for purposes
13 of the record, this is a Commission entry in Case No.
14 12-814-EL-UNC that was entered on February 29, 2012.

15 Q. Mr. Miller, do you recognize this
16 document?

17 A. I do recognize it, yes.

18 Q. I want to refer you to paragraph 10.
19 It's on page 3. This document was filed -- it was
20 entered by the Commission and it was addressing
21 coal-fired plant retirements by the companies and how
22 best to address those -- those retirements in the
23 capacity auction. Would you agree with that?

24 A. That's my understanding.

25 Q. And just at the end of the last

1 paragraph, paragraph 10, the Commission states that
2 "The company shall file no later than July 31, 2012,
3 interview efficiency and peak demand reduction
4 program portfolio plans, specifically those programs
5 that in the aggregate would have a mitigating impact
6 on the generation retirements."

7 Do you see that?

8 A. Yes, I do.

9 Q. And the companies did file its
10 application on July 31, 2012, correct?

11 A. That's my understanding.

12 Q. Now, is it your position that as to the
13 aggregating -- the aggregate would have a mitigating
14 impact on the generation retirement, on that
15 statement? Is it your position that counting the
16 demand resources from other parties, such as CSPs and
17 from other customers, would have any mitigating
18 impact on the generation retirements?

19 A. I don't have any analysis where I would
20 be able to answer that question. And to elaborate
21 further, the -- I mentioned before not knowing the
22 location of the customers, the demand response
23 contributions that are registered in PJM, nor the
24 issues surrounding the transmission, so to speak, or
25 the generation retirements that are mentioned, I

1 wouldn't be able to say, and, actually, I wouldn't be
2 equipped to say anything as to how the demand
3 response attributes would benefit those conditions.

4 Q. Or if they would mitigate?

5 A. Or if they would mitigate. I can only
6 imagine the complexities that go into the electric
7 infrastructure in terms of power flows and to even
8 comprehend how demand response in certain areas
9 impacts the system.

10 Q. And I think you said there was no
11 analysis done; is that what you said?

12 A. As part of the developing our portfolio
13 plans for '13 through '15, I did not do any analysis.
14 I will comment that the plans that I developed were
15 specifically designed to target our compliance, our
16 cumulative benchmarks in '13 through '15.

17 Q. Going back to the two different types of
18 contracted demand response approaches, the one which
19 is done before the RFP approach, and the one that is
20 the current plan for the RFP approach, and the one
21 that's proposed in this -- in this filing, which is
22 just to count the -- for purposes of the DR
23 compliance demand response resources in the PJM
24 market.

25 Now, we talked about the statements about

1 the new approach. But isn't it also true that the
2 companies are seeking authority from the Commission
3 to count all contracted DR in their respective
4 territories but still budget at \$31 million for
5 contracted DR purposes?

6 A. We did include a budget for DR purposes
7 in the plan. I would have to check to, you know,
8 quote the exact budget value. I would say that
9 number appears reasonable, subject to check.

10 Q. Reasonable.

11 A. Well, in terms of what was included as
12 part of the portfolio budget, I'm sorry.

13 Q. Thank you. Would you agree that the
14 companies budgeted \$31 million or a reasonable amount
15 close to that because there's a question about
16 whether -- let me strike that.

17 Let me ask this, why they budget the
18 \$31 million?

19 A. The budget that we included for the
20 demand reduction program was specifically designed
21 for two reasons. It was to provide budget
22 availability if the RFP process should continue, and
23 also to provide funding for -- as I mentioned in the
24 program description, it does contemplate contracting
25 with customers directly as well, which,

1 theoretically, could be an RFP process as well.

2 Q. As part of the \$31 million figure, as
3 best I understand, this is from discovery responses,
4 equates to 258 megawatts that may be needed from
5 contracted DR times \$120,000 per megawatt. Is that
6 your understanding as well? Could I have that
7 correct?

8 A. The 120,000 number is correct. The
9 megawatt value I'll have to check to verify.

10 Q. I can absolutely show it to you. I hate
11 to go through the time of going through the math, but
12 I do have discovery responses. I hate to -- subject
13 to check, would you agree to that? And I'll show you
14 how I did my math in my discovery responses.

15 A. Okay. Yes.

16 Q. I do have discovery responses here, by
17 the way. So the \$120,000, you said you knew that
18 number was correct, and how did you -- how did you
19 calculate the 120,000 as being the correct number?

20 A. The 120,000 is based on the value that
21 was approved under the company's existing law for
22 contributing resources, the underlying assumptions
23 behind that. I shouldn't use the word "assumption."
24 The underlying values are the credits that we paid to
25 customers, I should say interruptible customers,

1 through company tariffs.

2 Q. What do you mean, is that the ELR and the
3 OLR?

4 A. Those would be the tariffs, yes.

5 Q. So the \$120,000 is -- pertains to how you
6 calculate the ELR and OLR; is that correct?

7 A. It's basically recognizing that the value
8 that we are paying for the interruptibility under the
9 interruptible tariffs would be equivalent to the
10 value that we would pay for the contracted resources.
11 So we use the same credit that's embedded within the
12 company tariffs for the interruptibility through ELR
13 as the basis for the payments for interruptibility
14 for contracted resources.

15 EXAMINER PRICE: Now, does the
16 \$31 million recover ELR program costs? Is that part
17 of the \$31 million?

18 THE WITNESS: No, it does not.

19 EXAMINER PRICE: This is just a reference
20 point for you to use?

21 THE WITNESS: That is correct.

22 EXAMINER PRICE: Just to be clear, if you
23 were to contract with a third party for less than
24 \$120,000, you would recover that lower number, not
25 the \$120,000 from ratepayers?

1 THE WITNESS: That is correct. It would
2 be wasted on the actual costs associated with those
3 contracts.

4 MR. POULOS: I have no further questions.
5 Thank you.

6 EXAMINER PRICE: IEU-Ohio.

7 MR. OLIKER: I will try to be really
8 brief. It doesn't always work out that way, though.

9 EXAMINER PRICE: We've got lots of time.

10 - - -

11 CROSS-EXAMINATION

12 By Mr. Oliker:

13 Q. Good afternoon, Mr. Miller. My name is
14 Joe Oliker, and I represent IEU-Ohio. I will try to
15 keep this as brief as possible.

16 Now, in your testimony you recognize that
17 energy efficiency savings can be divided by
18 mercantile customers who are exercising the
19 self-direct option, correct?

20 A. Is there a specific reference or? I'm
21 not familiar with the mercantile self-direct.

22 Q. It's not that contentious, if you could
23 talk, generally speaking, you recognize that option
24 exists, right?

25 A. Yes.

1 Q. And you recognize those programs -- or
2 should I say those -- those investments are being
3 funded completely by customers, and that's something
4 that they are doing as part of their business plan,
5 and they can do that and take an exemption under the
6 rider without receiving any compensation for
7 percentages, correct?

8 A. That is correct. The exemptions from the
9 rider is quote, unquote, incentive for the customer
10 to do those projects.

11 Q. And do you -- were you aware that's -- I
12 understand you are not an attorney, but you
13 understand that that's an option that exists under
14 state law, correct?

15 A. That is my understanding.

16 Q. And are you familiar with the mercantile
17 pilot program under Case No. 10-834?

18 A. I'm familiar with the mercantile program.
19 The case number I --

20 Q. There is only one, so.

21 A. Okay.

22 Q. As you understand that program, would you
23 agree that is a program that the Commission designed
24 to be applied statewide?

25 A. I don't know that.

1 MR. OLIKER: And that's fine, okay.

2 Thank you, Mr. Miller. That's all I have.

3 EXAMINER PRICE: ELPC.

4 MR. McDANIEL: Thank you, your Honors.

5 EXAMINER PRICE: Just for the record,
6 Mr. Kelter, we did in fact stay until 10 o'clock on
7 the first day of the ESP III hearing. Don't tempt
8 fate.

9 MR. KELTER: I'm very sorry I missed
10 that, your Honor. I will withdraw that joke.

11 - - -

12 CROSS-EXAMINATION

13 By Mr. McDaniel:

14 Q. Good afternoon.

15 A. Good afternoon.

16 Q. I am Nick McDaniel from ELPC.

17 Mr. Miller, when someone buys a
18 FirstEnergy incentivized goal, when does FirstEnergy
19 get the information that that goal was purchased?

20 MS. DUNN: Are you -- are you talking
21 about under the current plan?

22 MR. McDANIEL: Under the current plan.

23 A. I'm not directly involved in
24 implementation so it's hard for me to speak to the
25 exact specifics of the logistics, but my familiarity

1 with what I would characterize as point of sale
2 programs would be that we have interface with
3 retailers who would provide reporting to us on some
4 frequent basis. I would -- I don't want to
5 speculate, but on some basis that we would then rely
6 on as the source of that participation in the
7 program.

8 Q. Is that reporting going to be the same
9 for different FirstEnergy incentivized projects with
10 retailers?

11 A. I would anticipate it to be the same,
12 yes.

13 Q. Could anyone else speak to this
14 reporting?

15 A. For clarification reporting that we would
16 get from the retailers?

17 Q. Yes.

18 A. I'm probably the most appropriate witness
19 so I can try to do my best.

20 Q. Okay.

21 MS. KOLICH: Is it just that you want to
22 know how often the reports come in?

23 MR. McDANIEL: Yes, that's it.

24 MS. KOLICH: The companies will stipulate
25 they come in monthly, just to clarify for the record,

1 from the retail stores.

2 MR. McDANIEL: That's fine.

3 MS. KOLICH: We receive them monthly.

4 MR. McDANIEL: Thank you.

5 Q. (By Mr. McDaniel) Now, Mr. Miller,
6 FirstEnergy companies have energy efficiency programs
7 in other states; is that correct?

8 A. Yes.

9 Q. And that includes Pennsylvania and
10 Maryland.

11 A. Yes. We have four utilities in
12 Pennsylvania that have energy efficiency programs.
13 We also have two utilities in West Virginia and one
14 in Maryland also that have energy efficiency programs
15 where we're directly managing those programs.

16 Q. And on page 3, line 9, of your testimony,
17 you state, "I am responsible for development and
18 compliance activities related to energy efficiency
19 and conservation ('EE&C') for the FirstEnergy
20 utilities in Ohio, Maryland, New Jersey, Pennsylvania
21 and West Virginia." Is that correct?

22 A. Yes.

23 Q. In regard to the proposed conservation
24 reduction study, has the Ohio draft TRM included
25 conservation voltage reduction as an eligible

1 measure?

2 A. No, conservation voltage reduction is not
3 identified as a TRM measure. I would clarify that
4 conservation voltage reduction is what I would
5 characterize as a custom measure, which typically
6 wouldn't be addressed in a Technical Reference
7 Manual.

8 Q. Has the Pennsylvania TRM included
9 conservation voltage reduction?

10 A. Not to my knowledge.

11 Q. And the same question for the Maryland
12 TRM.

13 A. That is correct.

14 Q. Now, FirstEnergy has proposed --

15 A. You have to hit it. That's what I was
16 told.

17 Q. I'll start over. FirstEnergy --
18 FirstEnergy has proposed energy efficiency kits that
19 include some combination of CFLs, LED nightlights,
20 furnace whistles, smart strips, shower heads, and
21 aerators; is that correct?

22 A. That is a typical kit, correct.

23 Q. What is FirstEnergy's projected
24 installation rate for the CFLs?

25 A. In our modeling we used a .86

1 installation rate for the CFL component of the kits.

2 Q. And is that installation rate based on
3 the Ohio TRM?

4 A. It's based on the Ohio TRM, but justified
5 based on other experience that we have associated
6 with the energy efficiency kits.

7 Q. The Ohio TRM specifically, that's not
8 specific to energy efficiency kits, correct?

9 A. That's correct. It's associated with
10 CFLs purchased through retail channels.

11 Q. What's FirstEnergy's projected
12 installation rate for LED nightlights?

13 A. I believe the number is 30 percent for
14 the LED nightlights. I would need to verify that,
15 though. That's what I believe, the number that
16 popped in my head.

17 Q. That easily -- can we figure that out
18 easily or not, no?

19 A. Yes. That would be something that I
20 could check easily. I just -- with the information I
21 have with me, I don't have that detail.

22 Q. Do you know the installation rates, the
23 projected installation rates for furnace whistles,
24 smart strips, for any of the other products that were
25 in the energy efficiency kit? You can go through

1 them separately if you know any of them.

2 A. My recollection is the installation rate
3 for smart strips is 47 percent. The installation for
4 low-flow shower heads and faucet aerators are in the
5 10 to 15 percent range, and the installation rate
6 for -- there is another measure there listed.

7 EXAMINER PRICE: Furnace whistle, I am
8 displaying my ignorance. You have got to tell me
9 what a furnace whistle is.

10 THE WITNESS: The furnace whistle
11 actually is a device that goes on the filter, so as
12 the filter in the furnace gets clogged, it will
13 whistle to notify the customer to replace the filter.
14 The furnace whistle, I believe the assumption for the
15 installation rate was 50 percent.

16 MR. McDANIEL: Just one moment, please.

17 EXAMINER PRICE: My programmable
18 thermostat informs me auction it's clogged.

19 THE WITNESS: Okay.

20 Q. Mr. Miller, in your experience in
21 Pennsylvania, do you know what the installation rate
22 was for furnace whistles with energy efficiency kits?

23 A. I do not have that number on top of my
24 head.

25 MR. McDANIEL: May I approach?

1 EXAMINER PRICE: You may.

2 Q. Are you familiar with the Pennsylvania
3 Statewide Evaluator Annual Report for the period of
4 June 1, 2012, to May 31, 2011?

5 A. Yes.

6 Q. Is that the report in front of you?

7 A. Yes.

8 Q. And this was a report prepared by
9 independent evaluators to evaluate the energy
10 efficiency programs in Pennsylvania, correct?

11 A. Yes.

12 EXAMINER PRICE: Do you want us to mark
13 this as an exhibit?

14 MR. McDANIEL: Let's mark it, if I can,
15 as Exhibit ELPC Exhibit 3, please.

16 EXAMINER PRICE: So marked.

17 (EXHIBIT MARKED FOR IDENTIFICATION.)

18 Q. Mr. Miller, can you turn to page 64 of
19 the report. This is section 7.2.1.5, which discusses
20 Met-Ed's program. Is Met-Ed a FirstEnergy utility in
21 Pennsylvania?

22 A. Yes, it is.

23 Q. Can you read the two sentences under the
24 first bullet point, please, starting with
25 "Distributed"?

1 A. "Distributed energy efficiency kits,"
2 that bullet?

3 Q. Yes, please.

4 A. Okay. "Had low installation rates for
5 nightlights (36 percent), faucet aerators
6 (38 percent), and furnace whistles, (0 percent).
7 Met-Ed had similar findings based on its own site
8 surveys and adjusted its installation rates
9 accordingly."

10 Q. Could you also read the last bullet point
11 as well, starting with "There."

12 A. "There were some cases where only 1 or 2
13 smart strips were being used, possibly because a
14 customer only had a need for one yet was given two
15 anyway. Met-Ed had similar findings as the statewide
16 evaluator and assumed a 40 percent installation rate
17 for this measure."

18 MR. McDANIEL: I would like to move to
19 get that admitted, please.

20 EXAMINER PRICE: We'll do the admission
21 of all the documents at the end of the witness.

22 MR. McDANIEL: Okay. I have no further
23 questions.

24 EXAMINER PRICE: Thank you.

25 Mr. Lavanga.

1 MR. LAVANGA: No questions, your Honor.

2 EXAMINER PRICE: OEG.

3 MS. KYLER: No questions, your Honor.

4 EXAMINER PRICE: OCC.

5 MS. KERN: Just a few, your Honor.

6 - - -

7 CROSS-EXAMINATION

8 By Ms. Kern:

9 Q. Good afternoon, Mr. Miller. I'm Kyle
10 Kern, an attorney with the Office of the Ohio
11 Consumers' Counsel. I have just a few questions for
12 you.

13 You were at the hearing yesterday auction
14 Mr. Dargie testified, correct?

15 A. I was.

16 MS. DUNN: I'm sorry, Ms. Kern, could you
17 use a microphone?

18 EXAMINER PRICE: Somebody share a
19 microphone with Ms. Kern here.

20 Q. Can you hear me?

21 A. Yes.

22 Q. Okay. I asked Mr. Dargie a series of
23 questions related to the companies' applications or
24 forms with respect to transfer of ownership of energy
25 credits, and he said a few of my questions were more

1 appropriate for you. And one of the questions I
2 asked Mr. Dargie was whether the terms and conditions
3 forms, and let's stick with residential for now,
4 explain that there is a benefit of conferring
5 ownership rights so that the companies can bid into
6 the base residual auction and lower future capacity
7 costs, and he punted this one to you. Can you answer
8 this?

9 A. The question is do the forms
10 specifically --

11 Q. Explain.

12 A. Explain? Yes, my understanding is that
13 the forms do provide communication to the customer
14 regarding the, I'll say, benefit of providing the
15 resource to the company for purposes of bidding and
16 in offsetting costs to the customers through the
17 rider associated with the revenues that would be
18 received.

19 Q. Is that benefit explained on both
20 residential and commercial -- the commercial and
21 industrial forms, if you know?

22 A. I know specifically it's definitely
23 included on the commercial and industrial forms. On
24 the residential form, I have not read that
25 specifically, but it's my understanding that it would

1 be, yes, for the forms where there are a rebate
2 application associated with participation in the
3 program.

4 Q. Okay. And do you know if the terms and
5 condition forms, let's start with residential,
6 mentioned the PJM measurement and verification
7 standards that have to be met to enable a customer to
8 bid their savings into PJM?

9 A. I don't know if the forms would
10 specifically mention measurement and verification
11 protocols of PJM. I don't know that.

12 Q. Either the residential or
13 commercial/industrial.

14 A. I don't think the forms go to that
15 extensive level of detail, such as the PJM
16 measurement and verification protocols.

17 Q. If they don't, is there a reason why they
18 wouldn't?

19 A. The reason I believe would be if they
20 don't go into the mechanics of the PJM protocols
21 would be related to customer confusion associated
22 with, you know, what that term and condition is
23 associated with that rebate application.

24 MS. KERN: Okay. Thank you. No further
25 questions.

1 EXAMINER PRICE: Sierra Club.

2 MR. SOMOZA: I don't have any questions,
3 your Honor.

4 EXAMINER PRICE: NRDC.

5 MR. ALLWEIN: Yes, your Honors.

6 - - -

7 CROSS-EXAMINATION

8 By Mr. Allwein:

9 Q. Good afternoon, Mr. Miller. I'm Chris
10 Allwein, and I will be asking you some questions on
11 behalf of NRDC.

12 A. Good afternoon.

13 Q. On page 3, line 8, of your direct
14 testimony, you say that you are responsible for
15 development activities related to energy efficiency
16 and conservation. Can you explain what you mean by
17 "development"?

18 A. What I mean by development is I'm
19 specifically responsible for development of
20 companies, our plans to comply with, requirementse,
21 requirements associated with energy efficiency that
22 we have in our jurisdictions.

23 Q. All right. And auction you're -- I think
24 also there on page 3 you talk about what you just
25 said you're responsible for, compliance activities.

1 And is -- is that along with what you just said, are
2 compliance activities complying with Ohio's -- well,
3 you don't just work in Ohio, so I'm sorry. Just
4 explain what you mean by "compliance activities."

5 A. Compliance, ultimately the reference on
6 this page is the department I work in is compliance
7 and reporting, and in addition to developing programs
8 and filings associated with energy efficiency, as I
9 mentioned, there are other activities I get involved
10 in across the jurisdictions that aren't specific to
11 development of a program, per se, but, you know,
12 other activities that would, you know, fall within
13 the responsibilities of our department or my
14 department.

15 Q. Okay.

16 EXAMINER PRICE: Let's go off the record
17 for one minute.

18 (Discussion off the record.)

19 EXAMINER PRICE: Let's go back on the
20 record.

21 Q. So you're not an attorney; is that
22 correct, Mr. Miller?

23 A. I am not.

24 Q. All right. But in order to carry out
25 compliance activities, you do have to be familiar

1 with the laws and administrative rules that govern
2 compliance with Ohio energy efficiency benchmarks?

3 A. Yes; as well as have legal counsel and
4 other representation in the company. Yes.

5 Q. Okay. But would you say you have a good
6 understanding, even though you are not a lawyer, of
7 Ohio Revised Code 4928.66?

8 A. I'm sorry, I don't -- I am not very good
9 with numbers, so I would need to know the order that
10 you are referencing in more detail -- or the code.
11 I'm sorry.

12 Q. Well, Ohio Revised Code 4928.66 is the
13 presentation of the benchmarks for Ohio electric --
14 electric distribution utilities to achieve through
15 2025.

16 A. Okay.

17 Q. Are you familiar with that?

18 A. Yes.

19 Q. Okay. And are you familiar with the Ohio
20 Administrative Code rules that accompany that
21 statute?

22 A. I'm familiar that there are the
23 additional codes that are associated with that
24 statute.

25 Q. All right. Thank you. And since you are

1 responsible for compliance activities, you are
2 responsible for the design of the programs?

3 A. Yes.

4 Q. And you're responsible for the results of
5 the programs?

6 A. I'm not sure I understand the -- the --
7 auction you say "the results," I mean, there's many
8 different types of results.

9 Q. Certainly. Are you responsible for the
10 energy efficiency savings -- energy efficiency saving
11 results that the programs you develop achieve?

12 A. I would say that my -- the department I
13 work in is responsible. We do have implementation
14 personnel who manage the programs and are directly
15 responsible for providing the programs and meeting
16 the program targets.

17 Q. Okay. And who is ultimately responsible
18 for ensuring that -- for ensuring the three
19 distribution utilities' compliance with the statutory
20 energy efficiency benchmarks?

21 A. The responsibility for complying with the
22 energy efficiency statutory benchmarks would fall on
23 John Dargie.

24 Q. Okay. Thank you. Do your compliance
25 activities consist of overseeing the evaluation,

1 measurement, and verification of the energy
2 efficiency programs?

3 A. Not mine specifically, but the team that
4 I -- the department that I work in is responsible for
5 overseeing that as well. There is an organization
6 chart that's provided as part of our filing. I
7 believe it's in section 5, but it does identify the
8 energy efficiency organization, as well as all the
9 individuals who are -- or I should say the positions
10 and the delineation of functions and responsibilities
11 within the energy efficiency department.

12 Q. Okay. And do any of those individuals
13 listed in that chart receive incentive compensation
14 if the electric distribution utilities exceed the
15 statutory benchmarks?

16 A. Not to my knowledge.

17 Q. Okay. Do you receive compensation if the
18 companies exceed their statutory benchmarks?

19 A. I do not.

20 Q. Okay. Well, I didn't mean compensation.
21 I am sure you're paid. Do you get a bonus?

22 A. If I don't do my job, I might not receive
23 compensation, but I have not received, do not receive
24 any incentive pay associated with the performance of
25 the programs.

1 Q. All right. Thank you. And on page 3,
2 line 17, you state that -- you state that you were
3 involved in the development of the energy efficiency
4 and conservation programs and filings for the
5 utilities formerly owned by Allegheny. How long were
6 you at Allegheny and responsible for the development
7 of their programs?

8 A. I became -- can you repeat the question?
9 I'm sorry.

10 Q. Certainly.

11 A. I think I heard it but --

12 EXAMINER PRICE: The reporter will read
13 it back. It will be easier.

14 (Record read.)

15 A. Since 2009.

16 Q. Okay. And auction did you assume
17 responsibilities for the FirstEnergy companies for
18 energy efficiency and conservation development and
19 compliance?

20 A. Upon the completion of the merger process
21 and staffing in approximately May of 2011.

22 Q. Okay. Have you ever testified as an
23 expert before the Public Utilities Commission of
24 Ohio?

25 A. I have not previously testified in Ohio.

1 Q. Okay. Have you testified before other
2 utility commissions?

3 A. I've testified in front of the
4 Pennsylvania, West Virginia commissions. I've -- in
5 Maryland I've -- I'm not sure it's considered
6 testimony. I have spoken in front of the commission
7 regarding the plans filed by the companies.

8 Q. Okay. Have you recently attended -- and
9 by "recently," I guess I would mean since 2009 -- any
10 national or regional conferences related to energy
11 efficiency, not including those in the service
12 territories of the companies that were sponsored by
13 the companies?

14 A. None that I recall.

15 Q. Okay. Let me ask you this, how do the
16 companies support your professional development in
17 the areas you're testifying to today?

18 A. I would say that my development has been
19 supported predominantly by working extensively with
20 energy efficiency consultants that we have worked
21 with in developing the companies' plans and programs,
22 as well as the experience provided to the companies
23 by the consultants, you know, through the development
24 of previous plans.

25 Q. Okay. And would that chiefly be Black &

1 Veatch, or do you have other consultants that you
2 work with?

3 A. Black & Veatch would be one consultant.
4 We've worked extensively with ADM Associates. They
5 are the company's evaluation contributor in
6 Pennsylvania, as well as in Ohio, but they have
7 also -- we have also consulted with them in the
8 development of our programs and plans in Maryland, as
9 well as in Ohio and currently in Pennsylvania.

10 Q. If you look on your testimony, page 4,
11 line 15, you state that "the proposed programs
12 provide the companies with the best opportunity to
13 meet or exceed the benchmarks in a cost-effective
14 manner." And I was wondering does -- does that mean
15 that you've compared your proposed programs to other
16 utilities' proposed or existing programs?

17 A. We have performed benchmark comparisons
18 with other utilities. You know, part of that also in
19 developing our plans and our programs, we go through
20 what I would characterize as a fairly extensive
21 iterative process where we review the results and the
22 projections of the plans and make adjustments to
23 basically try to develop a plan that has as
24 reasonable projections and results as possible across
25 the portfolio of the programs.

1 Q. All right. And on page 4, line 15, what
2 do you mean by "cost effective"?

3 A. The -- the meaning of the language on
4 lines 16 and 17 was to develop the plans in a manner
5 that meets the cumulative benchmarks from '13 through
6 '15, but also while minimizing cost to customers.

7 MR. ALLWEIN: May I have that answer read
8 back, please.

9 EXAMINER PRICE: You may.

10 (Record read.)

11 Q. Now, you stated that you did do some
12 comparisons. Did you compare your proposed programs
13 to AEP's 2012 to 2014 existing programs?

14 A. We did do certain benchmarking with AEP
15 plans. Specifically what I remember is as part of
16 our initial portfolio development, we did benchmarks
17 to go look for possible measures to consider as part
18 of the plans that -- and we also, you know, look at
19 terms of -- you know, portfolio cost in terms of
20 megawatt-hour savings achieved, again, from a
21 reasonableness of our plan projections, but we did
22 look at some of those comparisons.

23 Q. Okay. And how about did you compare your
24 proposed programs to Duke's existing programs?

25 A. We did look at the Duke programs as well.

1 My recollection was that it was more specific to
2 identification of potential programs and measures.

3 Q. Okay. And did you compare your proposed
4 programs to Pennsylvania electric companies' existing
5 programs?

6 A. Similar to Duke, we also looked at
7 Pennsylvania in terms of potential programs and
8 measures. In terms of costs, Pennsylvania has a
9 budget cost cap that's afforded to the utilities to
10 comply with the energy efficiency targets, so there
11 is that additional dynamic that is different, so it
12 does impact total portfolio budgets.

13 Q. Okay. And one last one, did you compare
14 your proposed programs to Baltimore Gas & Electric's
15 existing programs?

16 A. Indirectly, yes. We filed plans. One of
17 the companies' affiliates filed a portfolio plan in
18 August of last year. As part of that plan
19 development activity, we did -- we did do comparisons
20 with the other utilities' plans in Maryland. All the
21 utilities' plans were filed at the same time so a lot
22 of the benchmarking was more specific to what the
23 utilities were thinking of, not as much as what the
24 previous programs were.

25 Q. All right. Give me one second here.

1 Okay. I want to ask you about the sentence on page 5
2 of your direct testimony beginning on line 10 and
3 ending on line 14. And just to give you the context,
4 you can read that, but I just want to know what you
5 mean by "keeping overall administrative costs low,"
6 which is the end of that sentence on line 14.

7 A. The reference to administrative costs is
8 associated with what I would characterize as program
9 administrative costs. So by virtue of developing a
10 plan that leverages similar plan design elements
11 across the -- all of the FirstEnergy affiliates that
12 I mentioned where available and reasonable does allow
13 synergies and economies of scale, specifically with
14 the administration of that portfolio.

15 MR. ALLWEIN: Can you read that last
16 answer back, please. May I have that last answer
17 read back, please?

18 EXAMINER PRICE: You may.

19 (Record read.)

20 Q. All right. So from your answer, and
21 correct me if I mischaracterize it, are you saying
22 that you were comparing your proposed administrative
23 costs as part of that comparison with those other
24 utilities where it was appropriate?

25 A. The comparisons that we have done tend to

1 be more on what I would call the delineation between
2 operations costs and incentives costs, and within
3 operations would be the administrative component.

4 Q. Okay.

5 A. So from comparing and benchmarking the
6 utilities' filings, it's not always cost categories
7 reporting that's provided as part of the reports or
8 filings. It isn't always an apples-to-apples
9 comparison, but, more commonly, available for
10 comparisons would be the operations versus the
11 incentives.

12 Q. And I would like you to go to page 6,
13 line 1, and there you state that FE and its
14 consultants reviewed the programs and measures
15 offered by other Ohio utilities to establish a
16 universe of programs, that's lines 2 and 3, and
17 measures for consideration. Do you see that?

18 A. Yes.

19 Q. Okay. And I want to ask you, did you
20 consider a data center program?

21 A. Yes, we did.

22 Q. Okay. Did you consider a continuous
23 improvement program for manufacturers?

24 A. Not that I recall.

25 Q. And did you consider a retro

1 commissioning program?

2 A. Yes.

3 Q. If you didn't consider -- may I ask why
4 you didn't consider a continuous improvement program
5 for manufacturers?

6 A. I don't recall.

7 Q. I want to ask you, Mr. Fitzpatrick was on
8 earlier, and he talked about how the Market Potential
9 Study was developed. Were you here for that
10 testimony?

11 A. I was not.

12 Q. Okay. Well, let me ask you, how did you
13 use the Market Potential Study in developing your
14 proposed plans?

15 A. We used the Market Potential Study in
16 establishing our final participation projections
17 across our -- across the portfolio of programs and
18 measures specific and unique to each of the operating
19 companies.

20 Q. Do you have any specific example of how
21 you might have used something, one item that -- that
22 you received from the Market Potential Study to
23 develop just one of your programs or one subprogram?

24 A. Yes. A specific -- I'm not sure I can
25 give credence to the great -- to the best example,

1 but to try to explain it in more detail, I mentioned
2 before the plan development was a very iterative
3 process where we developed projections, reviewed them
4 with our consultants, solicited feedback also from
5 our vendors, our implementation vendors, and our
6 program managers as part of establishing projections
7 that were projections that are as recent as possible
8 for the programs.

9 As part of that process we did look at
10 the market potential for specific measures for the
11 companies and basically looked at opportunities in
12 our plan to make our projections more reasonable to
13 align with the findings of a Market Potential Study.
14 There were cases where the Market Potential Study
15 showed more potential than what we were targeting so
16 we felt more comfortable to increase projections and
17 measures, and there were other measures where the
18 market potential showed that our projections were
19 unreasonably high, that we, as a result, reduced the
20 projection accordingly.

21 Q. Okay. And those were participation
22 projections, right, that you are referring to?

23 A. Yes, they -- I would say they were more
24 unit projections that were targeting the number of
25 units. The Market Potential Study was more speaking

1 to the potential on a number-of-units basis, so the
2 comparisons don't necessarily recognize a customer
3 may have multiple units, per se. It's more focused
4 on the number of units that are potential or
5 available.

6 Q. I see. And did that -- and so from --
7 was that the first step, and then you would establish
8 a budget, or how did that work?

9 A. The market potential timing was in
10 parallel with a lot of our activities with developing
11 the plan. If I remember timing correctly, we had a
12 proposed program portfolio that we shared with the
13 collaborative in February. At that time we were
14 developing our own projections based off of actual
15 results to date, feedback from program managers,
16 feedback from the implementation vendors.

17 In parallel with that -- in parallel with
18 that I would say not long thereafter, we were working
19 on the budget projections as well associated with the
20 programs and measures and the Market Potential Study.
21 We did have results that were more second quarter.
22 I'm not remembering the exact month, but it was -- it
23 was being -- the market potentials being completed in
24 parallel auction we had the results is auction we did
25 the refinement to the participation projections.

1 Q. Okay. And that would have been one of
2 many factors that you just discussed that would have
3 helped you set the budgets for the proposed programs?

4 A. Ultimately, the budgets for the programs
5 would be recognizing a program portfolio. We used
6 actual contracted pricing that we have with vendors
7 as well as RFP results for specific programs, and, in
8 general, many programs would have what I would call a
9 fixed component that's really independent of the
10 number of participants. It's more of a -- you know,
11 part of that might be vendor set-up expenses. It
12 might be, you know, their administration,
13 requirements, that don't vary whether you have 10
14 participants or 100 participants.

15 The other components, you know, tend to
16 be, you know, on a per-unit basis, so a lot of the
17 budget development efforts were associated with
18 identifying the best sources for those projections,
19 developing the fixed and variable components where
20 applicable, and then ultimately once the
21 participation projections were finalized, that would
22 then finalize the ultimate budget based on the
23 participation and the variable costs associated with
24 the participation.

25 What I mean by variable is a vendor may

1 have a cost that's based on the specific participant,
2 so if you have 10 participants, it's a fixed amount
3 that applies per 10 participants or 10 times.

4 Q. Okay. Let's go to the Ohio Edison plan,
5 and look at page 26. That is the energy efficient
6 products program.

7 A. Okay.

8 Q. I just want to ask you, and you may have
9 covered some of this already, how did you weigh the
10 cost effectiveness of this program compared to the
11 others as you put the plan together?

12 A. In developing the cost-effectiveness
13 assessments of the portfolio, Table 7 of the company
14 plans ultimately provides the final
15 cost-effectiveness results. Through that iterative
16 design process, I mentioned where we've engaged our
17 consultant to review the projections. Part of that
18 was both the energy savings and the cost associated
19 with the program.

20 As we further refine modeling through
21 planned development, we look at cost effectiveness of
22 the programs in order of ensuring that the programs
23 that we are designing and developing are cost
24 effective on a program basis.

25 Q. Do other utilities in Ohio offer a

1 similar energy efficiency -- an energy efficient
2 products program?

3 A. I would say similar, yes.

4 Q. So other utilities in Ohio offer
5 incentives on many of the same measures within this
6 program?

7 A. The only measure that I'm unsure of is
8 consumer electronics. I'm confident regarding HVAC,
9 appliances, and lighting measures.

10 Q. I'm sorry, that was HVAC, lighting, and
11 what else?

12 A. And the appliance measures.

13 Q. Thank you.

14 EXAMINER PRICE: You're confident they do
15 offer incentives for those measures?

16 THE WITNESS: Yes.

17 Q. And do the other utilities that are in
18 Ohio or adjacent to your service territories, as far
19 as you know, do they deal, in large part, with the
20 same group of national and regional retailers?

21 A. I would say yes for national retailers.
22 You know, as for regional, there may be some
23 limitations, you know, just by virtue of who the
24 retailer is and their location within the geographic
25 footprint.

1 Q. Okay. And because there is some
2 similarity and, you know, these other utilities may
3 deal with some of the same national retailers, I
4 think you said, did you consider jointly implementing
5 this program with other utilities?

6 MS. DUNN: Chris, just for clarification,
7 when you say "utilities," do you mean electric and
8 gas? Just electric?

9 MR. ALLWEIN: Just electric.

10 MS. DUNN: Okay.

11 A. I can't say that we specifically
12 addressed joint implementation of this program with
13 the other electric utilities in Ohio.

14 Q. Okay. So is that a "no"?

15 A. I would say no, yes.

16 Q. And I want to ask you -- well, any
17 specific reason that you didn't consider that or --

18 A. I will say in developing the plan, we
19 have considered joint implementation. I know Witness
20 Dargie did mention the appliance recycling program as
21 an example where all the utilities, you know, have
22 contracted with the same vendor to handle appliance
23 recycling attributes.

24 I will mention that we, you know, do
25 discuss coordination with the other Ohio utilities in

1 our plan document, both from a plan design standpoint
2 and an implementation standpoint. From a plan design
3 standpoint, you know, we do -- we did look at
4 programs and measures offered by the, you know, other
5 utilities in terms of, you know, both the opportunity
6 but also, you know, looking at trying to, you know,
7 to the extent where it makes sense to have, you know,
8 common types of programs, which, you know, could have
9 some opportunities as well.

10 I will mention, you know, specific to
11 this program from a joint implementation standpoint,
12 you know, we do, as I mentioned, operate energy
13 efficiency programs for four utilities in
14 Pennsylvania, two in West Virginia, one in Maryland,
15 so really I think joint implementation is part of
16 our -- as we go to implement programs, we ultimately
17 have to consider the fact that, you know, we do have
18 large economies of scale associated with our
19 implementation of programs across a multistate
20 region.

21 You know, I will comment also that there
22 are barriers to joint implementation that need to be
23 recognized. You know, recognizing that we have back
24 office systems, such as tracking and reporting, for
25 instance, where if we were to do programs in Ohio

1 differently than what we are currently doing in other
2 jurisdictions, that could cause cost increases
3 associated with getting the information that we need
4 for tracking and reporting purposes.

5 So, you know, auction we say the words
6 "joint implementation," at a high level we are
7 planning to jointly implement programs in Ohio across
8 our three utilities. In other jurisdictions I lost
9 count of how many utilities I mentioned. There are
10 joint implementation opportunities as well, and I
11 mentioned at the beginning of the discussion about
12 having those discussions with the other utilities,
13 so -- and I mentioned, you know, I think I commented
14 as we go to implement the programs, you know, that
15 would be something that we would consider through the
16 implementation of the portfolio.

17 Q. Okay. What is your definition of a lost
18 opportunity as it relates to energy efficiency?

19 A. Lost opportunity can be pretty broad. I
20 mean, in its basic sense it's for some reason that
21 the -- the customer doesn't undertake the initiative
22 or doesn't participate in the program for some reason
23 that impacted their ability to participate then
24 they -- you know, then they otherwise would have.

25 Q. Okay. Would you consider the definition

1 of lost opportunity as perhaps also a customer, let's
2 say, buys an appliance but doesn't buy an energy
3 efficient appliance. He just buys one to replace the
4 one he has and doesn't choose the more efficient
5 options. Is that a lost opportunity?

6 A. It could be. I mean, ultimately it
7 depends on the customer's decision, you know, to buy
8 the appliance that they chose to, you know,
9 recognizing that every customer has a choice in what
10 they decide to participate in. So, I mean, it could
11 be construed as a lost opportunity.

12 Q. Okay. I mean, for instance,
13 Mr. Fitzpatrick stated this morning that the average
14 life of a refrigerator is 12 years, so that's a long
15 life, on average. And so if a customer buys a less
16 efficient refrigerator but has the option to buy a
17 more efficient refrigerator, is that a lost
18 opportunity?

19 A. It is. I'm just struggling with the
20 whole customer choice aspect, not knowing the
21 customer's decision to buy the exact refrigerator
22 that they did buy. But, again, I acknowledge it
23 could be considered a lost opportunity.

24 EXAMINER PRICE: Let's go off the record.

25 (Discussion off the record.)

1 EXAMINER PRICE: Let's go back on the
2 record. At this point we will adjourn the hearing
3 until 10:00 o'clock tomorrow. Thank you, all.

4 MS. KOLICH: Your Honor, before we go off
5 the record.

6 EXAMINER PRICE: Okay, stay on the
7 record.

8 MS. KOLICH: Pursuant to your ruling on
9 the motion for the supplemental testimony of Mr.
10 Sullivan being admitted, the parties have worked out
11 that they will be holding a deposition of
12 Mr. Sullivan at 8:00 a.m. at the FirstEnergy offices
13 on the next block.

14 I think you all know where they are, if
15 you don't see me. Is anyone interested in
16 participating, other than the NRDC and the companies,
17 either via phone or in person?

18 MR. WILLIAMS: If we can call in from our
19 rooms.

20 MS. KOLICH: I can provide a conference
21 line, and I can get to you.

22 MR. WILLIAMS: No, that's all right.

23 MS. KOLICH: Otherwise, it is the 22nd
24 floor of -- it used to be the Bank One Building --
25 Chase Building, 8:00 a.m. tomorrow morning.

1 EXAMINER PRICE: Anybody else?

2 MR. ALLWEIN: Did you say 22nd floor?

3 MS. KOLICH: Yes.

4 EXAMINER PRICE: Anything else before we
5 go off the record?

6 MR. ALLWEIN: I just want to ask, I spoke
7 with the company briefly, and the witness order for
8 Thursday was in no particular order, and NRDC was
9 requesting that Joel Swisher go first on Thursday.

10 EXAMINER PRICE: That's fine.

11 Any objection?

12 MR. KELTER: Yeah, we would actually like
13 for Crandall to go last because he has travel issues
14 coming in from Vegas.

15 EXAMINER PRICE: That's fine,

16 Mr. Crandall can be last.

17 Okay. Anything else before we go off the
18 record?

19 Have a good evening everybody.

20 Off the record.

21 (The hearing was adjourned at 5:56 p.m.)

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CERTIFICATE

I do hereby certify that the foregoing is a true and correct transcript of the proceedings taken by me in this matter on Tuesday, October 23, 2012, and carefully compared with my original stenographic notes.

Karen Sue Gibson, Registered
Merit Reporter.

(KSG-5601)

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Case No(s). 12-2190-EL-POR, 12-2191-EL-POR, 12-2192-EL-POR

Summary: Transcript of Ohio Edison Company, The Cleveland Electric Illuminating Company, The Toledo Edison Company hearing held on 10/23/12 - Volume II electronically filed by Mrs. Jennifer Duffer on behalf of Armstrong & Okey, Inc. and Gibson, Karen Sue Mrs.