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DESCRIPTION OF DOCUMENT:

Deposition of William Armstrong

FILE

ORIGINAL OF TRANSCRIPT

BEFORE THE PUBLIC UTILITIES COMMISSION OF OHIO

IN THE MATTER OF THE
APPLICATION OF THE
EAST OHIO GAS COMPANY
D/B/A DOMINION EAST OHIO
FOR AUTHORITY TO INCREASE
RATES FOR ITS GAS
DISTRIBUTION SERVICE

Case No. 07-829-GA-AIR

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DEPOSITION OF WILLIAM ARMSTRONG

Taken on Tuesday, June 17, 2008 at 8:33 a.m.

At the law offices of:

Jones Day

North Point Tower

901 Lakeside Avenue

Cleveland, Ohio 44114

Before Nancy Geiger, a Registered Professional Reporter
and Notary Public in and for the State of Ohio



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1 ALSO PRESENT:

2 Trevor Roycroft,
3 Consultant to the Office of the
4 Ohio Consumers' Counsel

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1 WILLIAM ARMSTRONG, of lawful age,
2 called for examination, being by me
3 first duly sworn, as hereinafter
4 certified, deposed and said as
5 follows:

6 EXAMINATION OF WILLIAM ARMSTRONG
7 BY-MR.SAUER:

8 Q. Good morning, Mr. Armstrong.
9 Again, my name is Larry Sauer and I'm
10 with the Office of the Ohio Consumers'
11 Counsel.

12 Have you had your deposition
13 taken before?

14 A. Yes.

15 Q. Then you're generally
16 familiar with how these things go. As
17 you can see, there's a court reporter
18 taking down the questions I ask and the
19 answers that you give. Try to -- this
20 is a little more difficult because we're
21 not in the same room together, so we're
22 trying to do this over the telephone
23 which complicates things a little bit.
24 But I'll try to not talk over you and
25 let you answer your questions fully.



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1 And if you could do so with yes or no
2 answers instead of um-hums on uh-huhs
3 because those are difficult for the
4 court reporter to transcribe and for us
5 to read later when we're going through
6 the deposition.

7 If I ask you a question and you
8 don't understand it, just ask me to
9 clarify it. If you answer the question,
10 I'll assume that you understood the
11 question as it was asked. If your
12 counsel objects to a question, you're
13 still required to answer the question
14 unless he specifically instructs you not
15 to. If you need to take a break, just
16 let me know and we'll take a break. I
17 just ask that if there's a question
18 pending that you answer the question and
19 then we'll break. Do you have any
20 questions?

21 A. No.

22 Q. Okay. Then we'll get
23 started. Are you with Dominion East
24 Ohio?

25 A. No.



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1 Q. Who are you with, sir?

2 A. I am with Dominion Virginia
3 Power.

4 Q. Dominion Virginia Power. And
5 are you familiar with the Dominion East
6 Ohio rate case that's pending right now,
7 it's Case Number 07-829-GA-AIR?

8 A. Could you be more specific?

9 Q. Have you filed any testimony
10 in that rate case?

11 A. No.

12 Q. Are you familiar with the
13 company's requests for recovery of costs
14 associated with their advanced meter
15 reading program?

16 A. Could you be more specific
17 please?

18 Q. Are you aware that the
19 company is asking for cost recovery of
20 costs associated with deployment of
21 advanced meter reading devices in their
22 current rate case?

23 A. Yes.

24 Q. Can you explain what the
25 advanced meter reading deployment



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1 program is?

2 A. Can you be more specific?

3 Q. Instead of advanced meter
4 reading, I'm just going to use the term
5 AMR, is that agreeable with you, sir?

6 A. Yes. But could you repeat
7 the question?

8 Q. Yes. I will do that.

9 MR. KUTIK: When you say
10 advanced, let me just break in here,
11 when you say advanced, do you mean
12 automated?

13 A. Automated meter reading, yes.

14 Q. And what are the automated
15 meter reading devices, sir?

16 A. Can you rephrase your
17 question?

18 Q. What is your understanding of
19 what an AMR device is?

20 A. An AMR device is a device
21 that can be attached in this case to a
22 gas meter that would record the
23 consumption on that meter and through
24 various means relay that information to
25 a collecting unit.



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1 Q. And Dominion East Ohio is
2 proposing to install these AMR devices
3 on certain meters in their service
4 territory, are they not?

5 A. Yes.

6 Q. And can you explain the
7 extent to which the DEO is proposing to
8 install these AMR devices in their
9 service territory?

10 A. We are proposing to install
11 a system-wide deployment of AMR devices.

12 Q. And over what period of time
13 have you been involved with DEO's AMR
14 program?

15 A. Since January of 2006.

16 Q. Were you involved in a
17 similar program at Dominion Virginia?

18 A. Yes.

19 Q. And when was that program
20 rolled out?

21 A. That program was rolled out
22 beginning January of 2003.

23 Q. And was that for -- did that
24 program entail installing AMR devices on
25 gas meters in Dominion Virginia



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1 territory?

2 A. No.

3 Q. Did that program just involve
4 installing AMR devices on electric
5 meters in Dominion Virginia territory?

6 A. Yes.

7 Q. And was that a full
8 deployment in Dominion Virginia
9 territory as well?

10 A. No.

11 Q. What was the deployment in
12 Dominion Virginia?

13 A. The deployment in Dominion
14 Virginia was on all but 150,000 electric
15 meters.

16 Q. How many AMR devices were
17 installed in Virginia Dominion
18 territory?

19 A. Approximately 2.2 million.

20 Q. What was it about the
21 150,000 that they didn't install AMR
22 devices that left that group out of the
23 deployment?

24 A. The 150,000 meters not
25 included in that deployment are high-end



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1 electric meters typically for our larger
2 customers. The AMR deployment
3 technology utilized for the 2 --
4 approximately 2.2 million customers did
5 not apply, in other words, was not
6 technically feasible for those 150,000
7 customers due to the nature of the
8 electric meter.

9 Q. Did Dominion Virginia install
10 the same AMR devices on all the 2.2
11 million customers that were included in
12 the deployment?

13 MR. KUTIK: You mean the same
14 type?

15 Q. The same type, yes.

16 A. No.

17 Q. What were the different types
18 of AMR devices that were installed in
19 Dominion Virginia?

20 A. It's basically the same
21 device. There were some devices that
22 had a higher power frequency output to
23 transmit the information, so there were
24 -- I cannot remember the number, but
25 there were a number of higher powered



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1 devices installed at specific locations.

2 Q. Did the AMR devices that
3 were installed in Dominion Virginia have
4 the same capability as the AMR devices
5 that are being proposed by Dominion East
6 Ohio?

7 MR. KUTIK: Objection.

8 A. Can you read that question
9 back, please.

10 (Record read.)

11 A. No.

12 Q. Can you explain what some of
13 the differences are between the devices
14 that were actually installed in Dominion
15 Virginia Power in comparison to the
16 devices that DEO is proposing to install
17 in this case?

18 A. Yes.

19 Q. Please do so.

20 A. The main difference, the
21 devices installed at Dominion Virginia
22 Power on electric meters were, excuse
23 me, pardon me -- let me take a drink of
24 water -- the devices installed on
25 Dominion Virginia Power are powered by



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1 the company side of the power going to
2 a customer's premise. The devices
3 deployed and planned to be deployed for
4 Dominion East Ohio are powered by
5 battery.

6 Q. Okay. Do they have the same
7 capabilities, for instance, Dominion
8 Virginia Power, is there just one-way
9 communication ability or is there two
10 way, what would the devices do?

11 MR. KUTIK: Objection. Compound.

12 A. Could you rephrase the
13 question please?

14 Q. Sure. The AMR devices
15 installed in Dominion Virginia Power do
16 they have two-way communication
17 capabilities?

18 A. No.

19 Q. Do the devices proposed to
20 be installed in Dominion East Ohio
21 territory, will those have two-way
22 communication capabilities?

23 A. No.

24 Q. So other than the methods by
25 which the devices are powered, do they



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1 have essentially the same capabilities?

2 A. Yes.

3 Q. Are they similarly priced?

4 A. No.

5 MR. KUTIK: Objection.

6 Q. Mr. Armstrong, what's your
7 position with Dominion Virginia Power?

8 A. Manager of metering services.

9 Q. And other than your
10 involvement with the AMR in Ohio and in
11 Virginia, is there anywhere else on the
12 Dominion system where you've been
13 involved in the installation of AMR
14 devices?

15 A. No.

16 Q. And I believe you said in
17 Dominion Virginia territory the roll out
18 for the AMR devices began in January of
19 '03, is that correct?

20 A. Yes.

21 Q. And how long did that
22 deployment take in Virginia?

23 A. Three and a half years.

24 Q. I believe you said your
25 involvement with the Ohio, Dominion East



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1 Ohio AMR deployment program began in
2 January of '06, is that correct?

3 A. Yes.

4 Q. And have you been involved
5 on a consistent basis throughout the
6 development of the AMR program in Ohio?

7 MR. KUTIK: Objection.

8 A. Could you rephrase the
9 question?

10 Q. What has your involvement
11 been with the AMR program since January
12 of '06?

13 A. My involvement with the AMR
14 program consisted of participating on a
15 team to select the technology,
16 participating on a team to develop the
17 business case and participation on a
18 team to plan the deployment.

19 Q. And would your involvement
20 with the deployment in Ohio, in other
21 words, the participation of the team to
22 select the technology, similar to what
23 you did in Virginia?

24 A. Could you clarify that
25 question please?



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1 Q. When DEO, when Virginia
2 Dominion deployed the AMR devices in
3 their service territory, were you on a
4 team to select the technology?

5 A. Yes.

6 Q. Were you also on a team to
7 develop the business case?

8 A. Yes.

9 Q. And were you also on a plan
10 -- on a team to plan the deployment in
11 Virginia?

12 A. Yes.

13 Q. Were you involved in Virginia
14 in deployment -- were there any other
15 areas of involvement in Virginia that
16 you had with the deployment of AMR
17 devices that you didn't have in Ohio?

18 A. Can you please repeat that?

19 MR. SAUER: Can I have the
20 question reread please?

21 (Record read.)

22 A. No.

23 Q. Mr. Armstrong, has DEO used
24 an outside consultant to help with the
25 analysis and program deployment in Ohio?



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1 A. No.

2 Q. Did Dominion Virginia use a
3 consultant to help with their analysis
4 or program deployment?

5 A. Yes.

6 Q. Who was the consultant that
7 Virginia Dominion used?

8 A. Accenture.

9 Q. What was the consultant's
10 role in Virginia?

11 A. The consultant's role in
12 Virginia was to assist with the business
13 case and assist with the initial
14 deployment plan.

15 Q. What was the reason for not
16 bringing a consultant to assist with the
17 deployment in Ohio?

18 A. Could you be more specific?

19 Q. Well, let me ask it this
20 way. Did the team that you were
21 participating in in the Virginia
22 deployment, was it a team recommendation
23 to bring a consultant in to assist with
24 the deployment?

25 A. No.



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1 Q. Was the consultant just part
2 of the team in Virginia from the outset?

3 A. Can you rephrase that?

4 Q. When the Virginia AMR
5 deployment began, were you on the team
6 from the very beginning?

7 A. Yes.

8 Q. And was there a consultant
9 on that team from the very beginning?

10 A. No.

11 Q. So in the Virginia
12 deployment, how did it come to be that
13 a consultant was retained to assist with
14 that deployment?

15 A. Senior management determined
16 that a consultant would add speed and
17 value to the deployment.

18 Q. Were you on the DEO AMR
19 deployment team from the very beginning?

20 A. Yes.

21 Q. And was there discussion to
22 -- whether or not a consultant was
23 needed for the Ohio deployment?

24 A. No.

25 Q. So based on the lessons



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1 learned from the Virginia deployment,
2 was there a determination that a
3 consultant would not add need or value
4 for the Ohio deployment?

5 MR. KUTIK: Objection.

6 A. Can you rephrase the
7 question?

8 Q. You stated that management in
9 Virginia decided that a consultant would
10 add need or value I believe you said?

11 MR. KUTIK: He actually said
12 speed.

13 Q. Speed, I'm sorry. Speed and
14 value to the Virginia deployment. Was
15 the determination made in Ohio that a
16 consultant would not add speed or value
17 to that deployment?

18 A. No.

19 Q. Mr. Armstrong, which -- of
20 the devices that were installed in
21 Virginia, who is the manufacturer of the
22 AMRs?

23 A. The manufacturer of the
24 devices in Virginia was a company called
25 Itron.



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1 MR. KUTIK: Spell that for the
2 court reporter.

3 A. I T R O N, as in Nancy.

4 Q. And Itron is the manufacturer
5 of AMR devices that DEO is considering
6 for Ohio deployment as well?

7 A. Yes.

8 Q. I'm sorry, Mr. Armstrong, I
9 didn't hear an answer to the last
10 question.

11 MR. KUTIK: He answered.

12 Q. Did you hear the question?

13 MR. KUTIK: He answered yes.

14 Q. Okay. Is DEO considering
15 any other AMR devices for deployment in
16 Ohio other than the Itron?

17 MR. KUTIK: Objection.

18 A. No.

19 Q. Was that no?

20 A. That was no.

21 Q. Mr. Armstrong, can you
22 explain how DEO or, yes, DEO utilizes a
23 business case to analyze an investment
24 decision such as the AMR deployment?

25 MR. KUTIK: Can you read the



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1 question please.

2 (Record read.)

3 A. Can you be more specific
4 please?

5 Q. Sure. You said you
6 participated in a team to develop the
7 business case, both in Virginia and
8 Ohio, is that correct?

9 A. Yes.

10 Q. And what was your involvement
11 in the development of the -- well, let
12 me ask you this. Were the business
13 cases essentially the same between those
14 two deployments?

15 MR. KUTIK: Objection.

16 A. Can you rephrase the question
17 or be more specific?

18 Q. How did you develop the
19 business case for the Ohio deployment?

20 A. Could you please be more
21 specific?

22 Q. I'm sorry, sir, could you
23 repeat that?

24 A. Could you please be more
25 specific?



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1 Q. How did you develop the
2 business case for the AMR deployment in
3 Ohio?

4 A. Could you read back that
5 question compared to the previous
6 question?

7 MR. KUTIK: It was the same
8 question, but go ahead.

9 (Record read.)

10 A. Could you be more specific
11 please?

12 Q. Mr. Armstrong, were you
13 involved in the development of the
14 business case for the Ohio deployment?

15 A. Yes.

16 Q. What was your involvement in
17 the development of that business case?

18 A. My involvement on the
19 development of the business case was on
20 the team to look at technology, on a
21 team to look at potential or projected
22 costs and savings, and on a team to
23 look at projected deployment.

24 Q. So your role in this team
25 was -- part of your role was to develop



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1 the business case you just said,
2 correct?

3 A. Yes.

4 Q. Can you tell me what is a
5 business case?

6 A. A business case is an
7 analysis of the costs, deployment
8 timeline associated with that, those
9 costs and savings associated with the
10 proposed technology over a timeline with
11 various financial measures applied.

12 Q. Mr. Armstrong, do you have a
13 background in finance?

14 A. Could you be more specific?

15 Q. Do you have a degree in
16 finance?

17 A. No.

18 Q. Do you have a degree in
19 business?

20 A. Yes.

21 Q. And what is that degree,
22 sir?

23 A. Master of Business
24 Administration.

25 Q. So you've taken finance



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1 classes?

2 A. Yes.

3 Q. Can you tell me under what
4 circumstances does Dominion utilize,
5 yes, utilize business case analysis?

6 A. Could you be more specific?

7 Q. Yes. Is there like a
8 threshold investment that requires the
9 company to undertake a business case
10 analysis?

11 A. I do not know a specific
12 threshold.

13 Q. You stated that on the team
14 you participated in Virginia you did a
15 business case there, correct?

16 A. Yes.

17 Q. And was the investment in
18 Virginia equal to the investment that
19 DEO is proposing for AMR deployment in
20 Ohio?

21 A. Can you read that question
22 back to me please?

23 (Record read.)

24 A. No.

25 Q. Was it greater than?



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1 A. Can you be more specific
2 please?

3 Q. How much did Dominion
4 Virginia spend on their AMR deployment
5 -- how much did Dominion Virginia spend
6 on their AMR deployment in Virginia?

7 MR. KUTIK: Is that a
8 confidential piece of information?

9 A. I believe that's a
10 confidential piece of information.

11 MR. KUTIK: All right. So I'll
12 object and instruct you not to answer.

13 Q. The business case that your
14 team prepared for the DEO deployment,
15 was that done internally?

16 A. Can you be more specific?

17 Q. Who prepared the business
18 case analysis for the deployment in
19 Ohio?

20 A. Members of the DEO AMR
21 project team.

22 MR. SAUER: Mr. Kutik, I have
23 sent some documents last evening and
24 then this morning, I sent an
25 application. Did you receive those?



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1 MR. KUTIK: I did.

2 MR. SAUER: I wonder if we might
3 have marked as Deposition Exhibit 1 the
4 application in Case Number
5 06-1453-GA-UNC, do you have that
6 document?

7 MR. KUTIK: Yes. While we're
8 doing that, the witness needs to take a
9 personal comfort break so we'll break
10 for a minute or two and we'll get right
11 back to you while we're marking the
12 document.

13 MR. SAUER: Great.

14 (Recess taken.)

15 - - - - -

16 (Thereupon, Deposition
17 Exhibit-1 was marked for
18 purposes of identification.)

19 - - - - -

20 Q. You've marked as Deposition
21 Exhibit Number 1 the nine page
22 application, do you have that in front
23 of you, Mr. Armstrong?

24 A. Yes.

25 Q. Okay. Have you seen this



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1 document before, sir?

2 A. Yes.

3 Q. Okay. Did you participate
4 in its preparation in any way?

5 A. No.

6 Q. Okay. Could you turn to
7 page 2 of the document please, sir,
8 specifically a provision that's marked
9 as 4A, do you see that, sir, and it
10 states, the AMR provides the most
11 cost-effective way for DEO to comply
12 with the MGSS on a long-term basis, do
13 you see that?

14 A. Yes.

15 Q. Okay. Can you explain what
16 it means by being more cost effective?

17 MR. KUTIK: I'll object as, A,
18 beyond the scope, and B, because this
19 witness, as the witness stated, he has
20 not participated in the preparation of
21 this document.

22 Q. You can answer if you know,
23 sir.

24 A. I don't know.

25 Q. In the development of the



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1 business case was the AMR deployment
2 being cost effective, was that a
3 criteria in the business case?

4 MR. KUTIK: Objection.

5 A. Can you rephrase that
6 question?

7 Q. In the development of the
8 AMR deployment in Ohio, was whether or
9 not the deployment was cost effective,
10 was that a factor in the business case
11 decision?

12 MR. KUTIK: Objection.

13 A. Could you please be more
14 specific?

15 Q. In the AMR deployment
16 business case in Ohio, was the cost
17 effectiveness of that deployment a
18 consideration?

19 A. Yes.

20 Q. And what did cost effective
21 mean to you?

22 A. Can you please rephrase that
23 question?

24 Q. Yes. I'm just trying to
25 understand from your perspective as a



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1 member of the team who was evaluating
2 the AMR deployment in Ohio, what did it
3 mean to you -- what does cost effective
4 mean to you?

5 A. Cost effective means that the
6 deployment meets various financial
7 measures.

8 Q. And what are those various
9 financial measures that it must meet?

10 A. Net present value, internal
11 rate of return, and payback.

12 Q. When you say net present
13 value, can you explain what that term
14 means?

15 A. Can you be more specific?

16 Q. Well, when you were
17 explaining what cost effective
18 considerations there were, you gave me
19 net present value, internal rate of
20 return, and payback, were there any
21 others?

22 A. No.

23 Q. And how does net present
24 value correlate with cost effectiveness?

25 A. Net present value is an



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1 analysis where you look at cost versus
2 potential savings over a time period and
3 you -- because implicitly implies money
4 and savings over time, you discount
5 through the net present value analysis
6 to the current state and it provides a
7 dollar figure that in its own right can
8 be used to compare investment
9 alternatives.

10 Q. So you're saying the net
11 present value analysis allows you to
12 look at various investment options or
13 scenarios and make a decision as to
14 which is most cost effective?

15 A. Yes.

16 Q. How does the internal rate
17 of return correlate to cost
18 effectiveness?

19 A. It is a different financial
20 measure that also can be used to compare
21 investment alternatives.

22 Q. So the net present value and
23 internal rate of return are tools an
24 entity can use to determine between
25 different investment options the most



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1 cost effective option available, is that
2 fair?

3 A. Yes.

4 Q. And what about the payback
5 analysis you spoke to, how does that
6 correlate to cost effectiveness?

7 A. Payback is a third financial
8 look that can be used to compare
9 competing investments.

10 Q. If I understood what you
11 told me regarding net present value, it
12 was a method of analyzing the costs and
13 benefits and discounting them to -- was
14 it present value, is that what you told
15 me?

16 MR. KUTIK: I think he said
17 current state?

18 Q. The current state?

19 A. Current state meaning the
20 value of the investment at the moment,
21 today or whenever the analysis is being
22 conducted.

23 Q. And is the internal rate of
24 return, is that a similar type of
25 analysis of costs and benefits?



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1 MR. KUTIK: Objection.

2 A. Could you rephrase the
3 question please?

4 Q. Yes. I'm trying to
5 understand what -- sort of what the
6 inputs are to the internal rate of
7 return calculation.

8 A. There are various inputs.

9 Q. Cost being one of the
10 inputs?

11 A. Yes.

12 Q. And how about the benefits
13 to be derived by the investment, is that
14 part of the analysis?

15 A. Yes.

16 Q. Is there any other
17 consideration that goes into the
18 internal rate of return analysis?

19 A. No.

20 Q. And the payback analysis, did
21 you say was you take the investment and
22 -- so you're looking primarily at the
23 cost in that calculation?

24 MR. KUTIK: Objection.

25 A. Could you rephrase the



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1 question please?

2 Q. Yes. In a payback analysis,
3 are there -- is cost one of the
4 considerations in the calculation?

5 A. Yes.

6 Q. And what are the other
7 considerations that you look at in that
8 analysis?

9 A. The annual savings.

10 Q. And in the AMR deployment in
11 Ohio, what were the different savings
12 that were being considered with that
13 deployment?

14 A. The savings that were
15 considered for that deployment were
16 operational savings due to the
17 deployment of the AMR technology.

18 Q. And operational savings would
19 include meter reading savings?

20 A. Yes.

21 Q. And associated costs with
22 meter reading, such as maybe automotive
23 or fuel or those types of things?

24 A. Yes.

25 Q. Were there other



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1 considerations regarding savings?

2 A. Yes.

3 Q. And what other savings
4 considerations were there?

5 A. There were other savings
6 related to the work of field metering
7 services.

8 Q. What work in field metering
9 services could result in savings by the
10 AMR deployment in Ohio?

11 A. One specifically is a type
12 of work called a re-read order. A
13 re-read order is a customer request for
14 a meter reading that is outside of the
15 normal meter reading cycle.

16 Q. So you're suggesting that by
17 the AMR technology, the meter readings
18 are more accurate and you have less
19 customer requests for re-reads?

20 A. That's one benefit.

21 Q. Are there any other savings
22 items?

23 A. Yes.

24 Q. What would those be?

25 A. On the re-read order, the



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1 current state is that the field metering
2 service employee needs to drive to the
3 premise, gain access to the meter, read
4 the meter and to complete that work
5 assignment. In the AMR world, that
6 field service rep would just need to
7 drive by the premise.

8 Q. So the savings are associated
9 with the labor involved in accomplishing
10 that re-read, is that correct?

11 A. Yes.

12 Q. Any other savings that your
13 team identified and utilized in the
14 payback analysis?

15 A. Yes.

16 Q. What would those be?

17 A. Savings associated with the
18 Ohio Minimum Gas Service Standards.

19 Q. And what were the Ohio
20 Minimum Gas Service Standards that were
21 resulting in cost to the company?

22 A. One in particular would be
23 the requirement to obtain an actual
24 eyeball meter reading on every meter at
25 least one time per year.



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1 Q. And the deployment of the
2 AMR devices would alleviate the cost
3 associated with obtaining that eyeball
4 meter reading, is that true?

5 A. The Ohio Minimum Service
6 Standard allowed for a meter reading
7 obtained by an AMR device to count as
8 fulfilling that annual meter reading
9 requirement.

10 Q. And were there any other
11 savings items that your team identified
12 associated with AMR deployment?

13 A. Yes.

14 Q. And what would have those
15 savings been?

16 A. With the deployment of AMR,
17 we would expect savings for the call
18 center.

19 Q. And how would the call
20 center realize benefits from the AMR
21 deployment in terms of savings?

22 A. The call center would realize
23 overall benefit from the deployment of
24 AMR due to the fact that in the AMR
25 state, so to speak, every customer will



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1 receive a meter reading every month, it
2 will be an accurate meter reading,
3 therefore, the number of estimated
4 meters would drop significantly.

5 Inaccurate meter readings and
6 consecutively estimated meters are two
7 sources of calls to our call center.
8 Therefore, by being able to provide an
9 accurate meter reading, a monthly meter
10 reading, and therefore, consecutive
11 estimate reduction, should translate
12 into reduced calls to the call center.

13 Q. Any other identified areas
14 where savings could be achieved by the
15 AMR deployment in Ohio?

16 A. Yes.

17 Q. What would those be?

18 A. In the current state of what
19 I'll term manual meter reading defined
20 as people meter readers going out daily
21 on meter reading routes to obtain
22 customer meter readings, particularly in
23 the environment of Northern Ohio in the
24 winter, we have experienced slips, trips
25 and falls so to speak and on occasion



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1 meter readers who have been placed in
2 certainly uncomfortable situations, we
3 would dramatically reduce these safety
4 items with deployment of an AMR system.

5 Q. Any other areas where your
6 team identified savings that would be
7 associated with the AMR deployment in
8 Ohio?

9 A. No.

10 Q. And were these various
11 savings items that you've just listed,
12 were they consistent with the savings
13 that Dominion Virginia realized when
14 they did their deployment of AMR?

15 MR. KUTIK: Objection.

16 Q. For instance, in Virginia did
17 Dominion Virginia recognize savings in
18 the operational areas that you were
19 discussing, such as meter reading?

20 MR. KUTIK: Objection.

21 A. Could you rephrase the
22 question?

23 Q. Yes. In Virginia, in
24 Dominion Virginia once the deployment
25 was done in 2003 and since 2003, has



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1 the company recognized savings such as
2 the operational savings that you spoke
3 to, the savings in the meter reading
4 department?

5 A. Yes.

6 Q. And so just field metering
7 services?

8 A. Yes.

9 Q. Call center savings, did they
10 achieve savings in that area?

11 A. We believe so, but it's
12 very, very hard to measure specifically.

13 Q. And in Virginia were there
14 fewer Workers' Comp or lost time
15 accidents?

16 A. Yes.

17 Q. When you were doing your
18 business case analysis in Ohio, were you
19 able to quantify what the expected
20 savings would be as a result of the AMR
21 deployment in Ohio?

22 A. Could you be more specific
23 please?

24 Q. Yes. In Ohio as part of the
25 team analyzing the deployment of AMR



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1 devices, did you quantify the savings to
2 be expected associated with reduction in
3 meter reading costs?

4 A. Yes.

5 Q. And do you recall what those
6 savings were anticipated to be?

7 A. No.

8 Q. Were the savings that you
9 quantified used in developing the NPV?

10 A. Yes.

11 Q. The IRR?

12 A. Yes.

13 Q. And payback?

14 A. Yes.

15 Q. And you said that you
16 anticipated savings, I think it was
17 field meter services regarding the
18 re-read issue, were those savings
19 included in your analysis in the NPV?

20 A. Yes.

21 Q. In the IRR?

22 A. Yes.

23 Q. And the payback?

24 A. Yes.

25 Q. And do you recall, if you



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1 recall, can you quantify what those
2 savings were?

3 A. No.

4 Q. Okay. You said there were
5 savings, anticipated savings from the
6 Ohio MGSS, do you recall what amount of
7 savings were anticipated there?

8 A. Yes.

9 Q. How much did you anticipate
10 to save in the Ohio MGSS?

11 MR. KUTIK: I'll object. Go
12 ahead.

13 Q. You can answer if you know,
14 sir.

15 A. We had in the business case
16 a range of in the mid \$9 million
17 annually.

18 Q. And that savings item was
19 included in your NPV analysis?

20 A. Yes.

21 Q. And the IRR?

22 A. Yes.

23 Q. And payback?

24 A. Yes.

25 Q. Was that the area that you



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1 had anticipated the greatest amount of
2 savings?

3 MR. KUTIK: Objection.

4 A. Could you rephrase the
5 question?

6 Q. Yes. Looking at the
7 different items that you've listed, the
8 operational savings or the field meter
9 services savings or the savings from the
10 Ohio MGSS or the call center savings or
11 the employee incident savings, you've
12 listed several of them, I'm trying to
13 get a sense as whether your team
14 anticipated savings from -- regarding
15 the Ohio MGSS would be the greatest of
16 the savings to be anticipated?

17 MR. KUTIK: I'll object because
18 it assumes that that's a separate item
19 from the other things.

20 If you can answer the question,
21 go ahead.

22 A. Can you read the question
23 back to me please?

24 (Record read.)

25 MR. KUTIK: So the question is



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1 would the savings, anticipated savings
2 from the Ohio Minimum Gas Service
3 Standards be greater than any of the
4 other items, is that your question?
5 Counsel?

6 MR. SAUER: Yes. That was the
7 question.

8 MR. KUTIK: Note my objection.

9 A. The way I would answer this
10 question is going into the business case
11 for AMR, I don't believe we anticipated
12 any specific savings, you know, one
13 versus another or what the magnitude
14 would be. It was only after the
15 analysis then did it reveal itself.

16 Q. And with the hindsight that
17 you have based on the information that
18 came to light through the business case
19 analysis, I was just trying to get a
20 sense as to where the different items
21 that you listed, where the MGSS fell in
22 terms of anticipated savings.

23 MR. KUTIK: Well, do you want to
24 ask him a question?

25 Q. You listed several items



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1 regarding the savings, sir, we just kind
2 of ticked them off, operational savings,
3 savings from Ohio MGSS. Let's go on,
4 call center, you identified there were
5 savings, did you include those savings
6 in your NPV analysis?

7 A. No.

8 Q. And why not?

9 A. We felt they were too hard
10 to quantify exactly.

11 Q. And what is it about those
12 savings that made them hard to quantify?

13 A. We don't have a specific
14 accounting mechanism per se to track
15 savings related to AMR in an exact
16 fashion or even in an inexact fashion.

17 Q. Does the call center
18 currently track how many calls they
19 receive?

20 A. Yes.

21 Q. Do they track the nature of
22 the calls they receive?

23 A. I don't know.

24 Q. So the fact that meters are
25 being read more accurately, it's only



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1 speculation on your part that the call
2 level would go down?

3 A. Yes.

4 Q. Are you not aware or are you
5 aware, let me ask it that way. Are you
6 aware if the call center maintains
7 statistics on calls, the nature of calls
8 that they receive?

9 A. I am not aware.

10 Q. Are you aware that in
11 discovery the company has supplied data
12 regarding call center savings?

13 MR. KUTIK: Objection.
14 Mischaracterizes the documents.

15 You can answer if you know.

16 A. Can you read back the
17 question please?

18 (Record read.)

19 A. Yes.

20 Q. And do you recall what the
21 items identified as savings were?

22 A. Those were estimated savings
23 for the call center.

24 Q. And do you recall
25 specifically what type of savings were



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1 anticipated or estimated?

2 A: Yes.

3 Q. And can you tell me what
4 those were?

5 A. The bottom line saving that
6 I recall was a number of full-time
7 equivalents that equal ten.

8 Q. Did you say, I'm sorry, did
9 you say a full-time equivalent equaling
10 ten?

11 A. The number that I recall was
12 a savings of ten full-time equivalent
13 call center agents.

14 Q. Were these savings identified
15 over a course of time?

16 MR. KUTIK: Objection.

17 A. Could you rephrase the
18 question please?

19 Q. Yes. Did the estimated
20 savings, were those achieved over a
21 number of years?

22 A. I don't know.

23 Q. Were the estimated savings
24 dependent on the investment decision
25 Dominion made regarding the AMR.



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1 deployment?

2 A. Could you please be more
3 specific?

4 Q. Yes. Were the savings
5 estimate that you are speaking to, for
6 example, the full-time equivalent of
7 ten, was that dependent on whether
8 Dominion -- was that based upon Dominion
9 doing the full AMR deployment?

10 A. Yes.

11 Q. And was Dominion considering
12 other deployment scenarios?

13 A. Can you be more specific
14 please?

15 Q. Besides deployment of AMR
16 devices on every meter, was Dominion
17 considering other deployment scenarios?

18 A. Yes.

19 Q. And what were some of those
20 scenarios?

21 A. One scenario -- well, the
22 full deployment scenario was one. A
23 second scenario involved deployment of
24 AMR devices on inside meters plus on
25 meter reading routes that had 50 percent



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1 outside meters. And a third scenario
2 was deployment with a different
3 technology than Itron, called a fixed
4 network.

5 MR. KUTIK: Let's go off the
6 record for a second.

7 (Discussion had off the record.)

8 MR. SAUER: Okay. I was
9 wondering if I might have marked and
10 this may be a good time to go back off
11 the record.

12 MR. KUTIK: Okay.

13 (Discussion had off the record.)

14 - - - - -

15 (Thereupon, Deposition
16 Exhibit-2 was marked for
17 purposes of identification.)

18 - - - - -

19 MR. KUTIK: We have marked as
20 Exhibit 2 a document that starts
21 Dominion, It All Starts Here, and ends
22 on page 18, a document that's labeled
23 Call Center Impact. We should note that
24 this document has been produced under
25 the protective agreement in this case.



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1 My understanding is Staff has agreed to
2 abide by the protective agreement that
3 was reached with Blueridge and any
4 testimony with respect to this document
5 will be deemed confidential pursuant to
6 those agreements.

7 MR. REILLY: Hello. Hello.

8 MR. KUTIK: Yes.

9 MR. REILLY: Hello. This is
10 Steve Reilly from Staff, can you hear
11 me?

12 MR. KUTIK: Yes.

13 MR. SAUER: Yes.

14 MR. REILLY: Okay. Just a
15 couple of corrections before we go much
16 further here. Anne Hammerstein and I
17 were the ones originally on the call,
18 but since it's been going on, Steve
19 Puicin and Barbara Bosard apparently
20 have come in the room.

21 Another thing more importantly,
22 on the confidential portion of this,
23 what Staff has always told everybody is
24 that we are bound by statute, those
25 statutes I think everybody on this call



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1 knows and those are the things that
2 apply with regard to our
3 confidentiality. We haven't seen nor
4 have we agreed to any private documents
5 regarding confidentiality. Our -- that
6 which binds the Staff is laid out by
7 statute and is fairly severe if it is
8 breached. That has been acceptable to
9 everybody all along in this case as far
10 as I know and has been acceptable to
11 everybody in every other rate case that
12 I'm aware of or that other people have
13 told me about.

14 Is there some misunderstanding
15 here?

16 MR. KUTIK: My understanding is
17 that you advised our team that you would
18 abide by the provisions of the
19 confidentiality agreement with Blueridge
20 and maintain our documents
21 confidentially --

22 MR. REILLY: You have been
23 given --

24 MR. KUTIK: Hold on a second.

25 MR. REILLY: You have been --



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1 MR. KUTIK: Let me finish.

2 MR. REILLY: I never said that.

3 MR. KUTIK: Let me finish.

4 Subject to your statutory obligations.

5 MR. REILLY: We have said that
6 we would --

7 MR. KUTIK: All right.

8 MR. REILLY: -- be subject to
9 statutory obligations. Don't let there
10 be any confusion about that.

11 MR. KUTIK: Let's make it easy.
12 We will not let this witness in this
13 deposition testify about confidential
14 information. If the Staff has any
15 qualms about keeping anything
16 confidential, go ahead.

17 MR. REILLY: We have agreed to
18 abide by our procedures with regard to
19 confidential information and that
20 included -- did you mark it
21 confidential, Mr. Whitt, Mr. Murphy, Mr.
22 Campbell are well aware of what those
23 procedures are.

24 MR. KUTIK: I know, I am aware
25 and I thought I stated them correctly.



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1 Apparently you have a problem with that.

2 MR. REILLY: I have never seen
3 your confidential agreement nor I've
4 never agreed to it. That's right, I do
5 have a problem with that part of it.
6 That's in addition. What we have said
7 all along to be very clear with
8 everybody, is that the Staff is bound
9 statutorily. Those are the rules that
10 apply to Staff. Dominion is well aware
11 of this.

12 MR. KUTIK: You're not telling me
13 anything I don't know, counselor.

14 MR. REILLY: Okay. Then you
15 mischaracterized what Staff had said
16 because we never said that we will be
17 bound by anybody's private agreement.
18 We have never said that to anyone.

19 MR. KUTIK: Did you not tell Mr.
20 Campbell that, was there not an exchange
21 of e-mails with respect to Mr. Murphy's
22 deposition documents on that subject?

23 MR. REILLY: I'm sorry, what?
24 Regarding what?

25 MR. KUTIK: That you folks were



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1 going to maintain the document that was
2 going to be discussed in Mr. Murphy's
3 deposition, that was going to be
4 maintained as confidential subject to
5 the Staff's statutory obligations.

6 MR. REILLY: We told him that we
7 would comply with normal procedures, I
8 think we're talking about the same
9 thing, counsel.

10 MR. KUTIK: I agree.

11 MR. REILLY: What we said we
12 would do, just so there's no
13 misunderstanding, is that we are bound,
14 our confidentiality requirements are
15 provided by statute, one.

16 Two, the Commission's procedure
17 with regard to confidential information,
18 with regard to information that's
19 claimed confidential, if somebody marks
20 something confidential, the Commission
21 holds it as such under its procedures
22 unless -- until there's a request.

23 At that point the Commission
24 makes a determination under the statute
25 whether it is not -- whether indeed it



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1 is confidential.

2 It under its current procedures,
3 provides notice to the person or the
4 side requesting confidentiality, that
5 that request has been made. They have
6 ability to seek protective orders or
7 whatever other things they may want to.

8 MR. KUTIK: Counsel, and that's
9 my understanding of what the
10 agreement --

11 MR. REILLY: And I also point
12 out --

13 MR. KUTIK: And that was my
14 understanding of the agreement, so why
15 are we having this discussion? Let's
16 move on.

17 MR. REILLY: Because I've never
18 seen your agreement and you said we were
19 subject to some agreement we've never
20 seen.

21 The other things I point out,
22 just so there's no misunderstanding on
23 this and I don't expect it to ever be a
24 problem is the Commission will always
25 apply its current procedures. These are



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1 the current procedures that I have
2 outlined to you. Now I don't think it
3 should be a problem. It's never been a
4 problem in the past, but I don't want
5 there to be any mistakes about it.

6 MR. KUTIK: There aren't any
7 mistakes, counsel.

8 MR. REILLY: Okay. Then we're
9 fine.

10 MR. KUTIK: All right. Let's
11 proceed then.

12 MR. REILLY: Okay.

13 MR. SAUER: Mr. Kutik?

14 MR. KUTIK: Yes.

15 MR. SAUER: Do you suggest we
16 proceed under seal from this point
17 forward given the confidential nature of
18 the information within this document?

19 MR. KUTIK: Yes. That's why I
20 believe at this point to the extent
21 you're going to have discussions about
22 this document, that we would treat this
23 portion of the deposition going forward
24 as confidential. And if the deposition
25 is going to be submitted to the



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1 Commission that we would do it under
2 seal pursuant to the agreement that we
3 have with you.

4 MR. SAUER: Correct. I think
5 that's reasonable. Let's move forward
6 then.

7 Q. Mr. Armstrong, do you have a
8 copy of what's been marked previously as
9 Deposition Exhibit Number 2?

10 A. Yes.

11 Q. I'm sorry, I didn't hear
12 your answer, did you say you have seen
13 this document before?

14 A. Yes.

15 Q. Okay. Can you tell me what
16 this document is?

17 A. It's a PowerPoint
18 presentation.

19 Q. Okay. How is it you're
20 familiar with this document, sir?

21 A. I didn't hear that question?

22 Q. How is it that you are
23 familiar with this document?

24 A. I have seen it before.

25 Q. Do you know who prepared



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1 this document?

2 A. The AMR business case team.

3 Q. And if we look at the second
4 page on this document at the top it
5 says, AMR Business Case Team and lists
6 nine members and an adhoc column with
7 three members, is that correct?

8 A. No.

9 Q. I'm sorry, eight members, I
10 can't count this morning. Eight members
11 and three adhoc members?

12 A. Yes.

13 Q. Thank you. At the very top
14 of the list it says, Bill Armstrong, is
15 that you, sir?

16 A. Yes.

17 Q. And who is Joe Patten, the
18 second name on the list?

19 A. Joe Patten is the manager of
20 meter reading for Dominion East Ohio.

21 Q. And Patty Gilinsky, who is
22 that?

23 A. Patty Gilinsky is a financial
24 analyst for Dominion East Ohio.

25 Q. And Bob Metzinger?



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1 A. Bob Metzinger is a manager
2 of field metering services for Dominion
3 East Ohio.

4 Q. And David Batson?

5 A. David Batson is a senior
6 business performance analyst for
7 Dominion Virginia Power.

8 Q. How about Rod Holmes?

9 A. Rod Holmes is the supervisor
10 for meter engineering and planning for
11 Dominion East Ohio.

12 Q. Supervisor of meter, did you
13 say planning?

14 A. Supervisor of meter
15 engineering and planning for Dominion
16 East Ohio.

17 Q. Okay. And Abby Corbin?

18 A. Abby Corbin is manager of
19 financial services for Dominion
20 Services.

21 Q. And Ken -- I'm not sure --
22 Opipery, is that a correct
23 pronunciation?

24 A. You've got it correct. Ken
25 Opipery, I am not sure of his exact



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1 title but he in general terms is a
2 financial analyst working for Abby
3 Corbin in the Financial Services Group
4 for Dominion Services.

5 Q. And were any of these team
6 members part of the Dominion Virginia
7 AMR deployment team?

8 A. Yes.

9 Q. And who would they have
10 been?

11 A. David Batson.

12 Q. He's the only one?

13 A. And myself.

14 Q. And you, yes. The adhoc
15 members that are noted here, what was
16 their role?

17 A. The role of the adhoc
18 members was primarily someone in certain
19 areas of the company that we could reach
20 out and touch and get information needed
21 for the business case.

22 Q. And Brett Crable who is on
23 the adhoc list, what's his position?

24 A. At that time or at this time
25 of this document, he was the director of



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1 credit for Dominion Virginia Power and
2 for Dominion East Ohio.

3 Q. Did Mr. Crable serve in a
4 similar adhoc role on the Dominion
5 Virginia AMR deployment?

6 A. I'm trying to remember back
7 that far, I believe it was him.

8 Q. Okay.

9 A. There's a lot of movement of
10 folks.

11 Q. I understand. Gwen Beadles,
12 what was her role?

13 A. At the time of this document
14 she was director of billing for Dominion
15 Virginia Power and Dominion East Ohio.

16 Q. And again, did she play a
17 similar adhoc role for your Dominion
18 Virginia AMR deployment team?

19 A. Yes.

20 Q. And Ella Hochstetler, what
21 was her position?

22 A. Ella was our adhoc member
23 representing the Dominion call centers.

24 Q. And again, did she play a
25 similar adhoc role for your Dominion



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1 Virginia AMR deployment team?

2 A. No.

3 Q. And when was that business
4 case team formed, sir?

5 A. This case team was formed in
6 early 2006.

7 Q. And were you the team
8 leader?

9 A. Yes.

10 Q. And did you have any
11 particular role in particular as a team
12 leader, any particular responsibilities
13 I should say?

14 A. Could you be more specific?

15 Q. Did you have any
16 responsibilities on this team in
17 addition to or different from -- scratch
18 that.

19 Did you have any responsibilities
20 different from the other team members
21 because you were the team leader?

22 A. Yes.

23 Q. And what were those
24 additional responsibilities you had?

25 A. Well, as team leader, I



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1 scheduled, arranged for and scheduled
2 meetings of the team, managed overall
3 work assignments. And by manage meaning
4 through general management practices
5 ensured that the various members of the
6 team were working towards conclusion of
7 their particular pieces. And it would
8 be my responsibility to make sure that
9 our effort to develop the business case
10 scenarios was done in a timely fashion
11 per management's direction.

12 Q. Did you have a specific
13 deadline in which the business case had
14 to be completed?

15 A. Not specifically that I can
16 recall.

17 Q. Did the team report to upper
18 management?

19 A. Yes.

20 Q. And who in Dominion, Dominion
21 East Ohio's upper management did the
22 team report to?

23 A. There was a steering
24 committee that we reported to.

25 Q. And who was on the steering



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1 committee, sir?

2 A. Richard Walden, who was
3 director of metering services. Jeff
4 Murphy, Carrie Fanelly, Brett Crable,
5 Gwen Beadles, Mike Reed. That's it.

6 Q. Can you tell me what Carrie
7 Fanelly's position is or was at the
8 time? Is it a -- is that a male or a
9 female, Carrie?

10 A. Carrie Fanelly's position at
11 the time of this document was director
12 of call centers for both Dominion
13 Virginia Power and Dominion East Ohio.
14 Carrie Fanelly is a female.

15 Q. Okay. I think you told me
16 who Brett Crable and Gwen Beadles were.
17 Mike Reed, what is Mike's position?

18 A. At the time of the document,
19 Mike Reed was director of -- I'm not
20 sure of the exact title, but director of
21 field metering services.

22 Q. Is Mr. Reed in that position
23 for Dominion East Ohio only?

24 A. Yes.

25 Q. And is your business case



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1 team still meeting?

2 A. No.

3 Q. When did the team disband?

4 A. Sometime during the first
5 quarter of 2007.

6 Q. And between early 2006 when
7 you said the team was formed and the
8 first quarter of 2007, how many times
9 would you say your team met with the
10 steering committee?

11 A. I cannot remember exactly.

12 Q. Was it on a set schedule?

13 A. No.

14 Q. Do you know when this
15 particular document was prepared?

16 MR. KUTIK: Well, counsel, I'll
17 note that I think there was -- on the
18 electronic version, I think there's a
19 date that does not show up on the
20 printed version, so I don't know if you
21 have the electronic version available to
22 you, but we do not.

23 MR. SAUER: I don't here, but I
24 do recall that that was the case.

25 MR. KUTIK: But if the witness



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1 knows, you can obviously testify.

2 A. Yes. I believe it was March
3 of 2006.

4 Q. And I think that would be
5 consistent with the date Mr. Kutik was
6 referring to. Did the team -- was this
7 the only such document that the team
8 provided to -- let me ask you this.
9 Scratch that. Was this document
10 presented to the steering committee?

11 A. Yes.

12 Q. And was it presented to the
13 steering committee in March of '06?

14 A. Yes.

15 Q. And what did the steering
16 committee do with the information the
17 team provided in March of '06?

18 A. I don't know.

19 Q. Did the steering committee
20 give the team any instructions after
21 meeting with the team in March of '06
22 and being presented this information?

23 A. Could you be more specific?

24 Q. Following the meeting in
25 March of '06 where this information was



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1 presented, did the steering committee
2 give the team any instructions?

3 A. On the day of the meeting
4 with the steering committee where this
5 information was presented, the steering
6 committee did not receive any
7 instructions from the steering
8 committee.

9 Q. Well, not necessarily the day
10 of the meeting, but after the steering
11 committee had time to look at it, review
12 it and make any decisions, were there
13 any instructions that came back from the
14 steering committee following --
15 subsequent to being presented with this
16 information?

17 A. Just that the steering
18 committee was going to present relevant
19 information to senior management.

20 Q. And do you know when that
21 meeting with senior management took
22 place?

23 A. No, I do not.

24 Q. Were you or any members of
25 your team present when that meeting with



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1 senior management took place?

2 A. I was not present during
3 that meeting and I am not aware that
4 any of the AMR business case team was
5 present.

6 Q. Would have that presentation
7 to senior management been made by the
8 entire steering committee?

9 A. I don't know.

10 Q. Following the steering
11 committee's meeting with senior
12 management, did the steering committee
13 come back to your business case team
14 with any instructions?

15 A. We were informed -- I'm
16 jumping ahead a little bit, but we were
17 informed that the aggressive business
18 case scenarios were not going to be
19 included.

20 Q. When you say aggressive
21 business case scenarios, can you
22 describe for me what made them
23 aggressive?

24 A. What made the three business
25 -- basically there are three business



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1 cases. And what made them aggressive,
2 we ran in essence a sensitivity analysis
3 that assumed whatever the particular
4 business case item was most favorable
5 whether it was price, or installation
6 time, et cetera. So in other words, it
7 would be like if everything fell exactly
8 into a dream case scenario on every
9 aggressive item, what that business case
10 would look like.

11 Q. Was there a team leader so
12 to speak of the steering committee?

13 A. No.

14 Q. And was the document that's
15 been marked as Deposition Exhibit 2, is
16 it the only document that was provided
17 to the steering committee by your
18 business case team?

19 A. No.

20 Q. What else was provided to
21 the steering committee?

22 A. We provided the steering
23 committee a monthly update on our
24 progress.

25 Q. And did you prepare that



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1 monthly update?

2 A. It was often done verbally.

3 Q. And did you do that in
4 conjunction with the entire team or did
5 you do that by yourself?

6 A. As the team leader, I would
7 gather input from the appropriate
8 members of the team to provide that.

9 Q. And did you provide that
10 information to the entire steering
11 committee or to components of the
12 steering committee?

13 A. I provided it to components
14 of the steering committee.

15 Q. And what would be the
16 typical subset of the steering committee
17 that you would make your monthly updates
18 on progress?

19 A. To Mr. Richard Walden who
20 was my direct boss.

21 Q. Did you present anything else
22 to the steering committee other than the
23 monthly updates on progress?

24 A. No.

25 MR. KUTIK: We need to take



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1 another break so let's just do that.

2 MR. SAUER: Okay. This is a
3 good time.

4 (Recess taken.)

5 Q. Mr. Armstrong, were there any
6 other documents that you recall
7 providing to the steering committee from
8 your business case team?

9 A. No.

10 Q. And what's been marked as
11 Deposition Exhibit 2, is this the final
12 draft of what was presented to the
13 steering committee?

14 A. Yes.

15 Q. So whatever information the
16 steering committee had for the executive
17 management, it was derived from
18 information that was contained in this
19 document?

20 A. I don't know.

21 Q. If it was information that
22 the steering committee would have had
23 from your business case team, it would
24 have been from this document, is that
25 correct?



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1 A. Yes.

2 Q. Can you turn to page 2 of
3 that document, sir, it's numbered as
4 page 2, it says, Business Case - What
5 Has Changed, do you see that?

6 A. Yes.

7 Q. Can you tell me what
8 analysis was done prior to the
9 preparation of this document?

10 MR. KUTIK: Objection.

11 A. Could you rephrase the
12 question?

13 Q. In the title of this
14 document it says, What has changed,
15 changed from what?

16 A. There were two additional
17 scenarios run previous to this document.

18 MR. SAUER: I'm sorry, can I
19 have that answer reread please?

20 (Record read.)

21 Q. And what were those
22 scenarios, sir?

23 A. One scenario was to deploy
24 AMR on premises or meters that have a
25 current device called a Badger or



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1 American Read-O-Matic device. The
2 second scenario was a scenario that
3 included moving all current inside
4 meters to the outside of the premise and
5 then deploying AMR full deployment.

6 Q. So under the first scenario
7 you were describing deploying AMR on
8 premises or meters that have a Badger or
9 American Read-O-Matic device, how many
10 AMR devices would have been deployed
11 under that scenario?

12 A. I can't remember exactly.

13 Q. Do you have just an
14 approximation as to the percentage
15 compared to full deployment?

16 A. My best guess is
17 approximately 50 to 100,000 premises
18 with Badger or Read-O-Matic devices.

19 Q. And then the second involved
20 moving all current meters that were
21 inside to the outside and then full
22 deployment of AMR, is this what you
23 said?

24 A. Yes.

25 Q. And did you do a full



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1 business case analysis on those two
2 scenarios?

3 MR. KUTIK: Objection.

4 A. Could you rephrase the
5 question?

6 Q. Yes. Did you do a similar
7 business case analysis on those two
8 scenarios as you've done within this
9 document?

10 A. No.

11 Q. Did you present these two
12 scenarios to the steering committee?

13 A. No.

14 Q. Were those two scenarios that
15 were -- well, let me ask you this. How
16 did you arrive at the two scenarios that
17 you mentioned?

18 A. Could you clarify the
19 question please?

20 Q. Yes. How did the team come
21 to review the scenarios that you just
22 identified, one, being deploying the AMR
23 on premises or meters that have a Badger
24 or American Read-O-Matic device as being
25 one scenario and the second scenario



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1 moving all inside meters outside and
2 then full deployment of the AMR devices?

3 A. In analyzing our distribution
4 system, we could break the analysis down
5 into logical subsets. The deployment to
6 the Badger, Read-O-Matics only was a
7 logical subset. Moving meters, moving
8 the inside meters outside was also a
9 logical subset scenario.

10 Q. And if you'd move the inside
11 meters outside were the AMR devices
12 necessary anymore in order to comply
13 with the Ohio MGSS rules?

14 A. Could you rephrase the
15 question please?

16 Q. Under the scenario number two
17 you were talking about, moving all
18 current meters from the inside to the
19 outside, would DEO then be able to
20 comply with Ohio MGSS without deployment
21 of AMR devices?

22 A. Yes.

23 Q. So when were these two
24 scenarios that your team was initially
25 thinking about, when did those first



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1 come to light?

2 MR. KUTIK: I'm sorry, what
3 scenarios are we talking about?

4 Q. The first one being the
5 deployment of AMR on premises, on meters
6 that have a Badger or American
7 Read-O-Matic device and the second
8 scenario being moving all current meters
9 from the inside to the outside and then
10 full AMR deployment, when were those two
11 scenarios first being considered by the
12 team?

13 A. In the period of January of
14 2006 up to no later than this
15 presentation.

16 Q. And I was going to say when
17 were they rejected?

18 A. I cannot remember.

19 Q. Do you remember how they
20 were rejected?

21 A. Yes.

22 Q. How did it come that they
23 were rejected?

24 A. The installation of AMR on
25 just the Badger and American



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1 Read-O-Matic devices for those, what I
2 can recall 50,000 to 100,000 meters,
3 would be such a small slice of the pie
4 and still not have us comply fully with
5 the Ohio Minimum Gas Service Standards,
6 we rejected that. The scenario where
7 moving all meters outside and then
8 deploying AMR was viewed as too costly.

9 Q. And when you say the
10 scenario of moving all inside meters to
11 the outside was too costly, was that
12 after performing a net present value
13 analysis?

14 A. No.

15 Q. After performing an IRR
16 analysis?

17 A. No.

18 Q. Looking at the payback?

19 A. No.

20 Q. How was the decision made
21 that it was too costly?

22 A. The estimated cost to deploy
23 that option was much higher than the
24 three scenarios that we forwarded on.

25 MR. KUTIK: Let's go off the



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1 record for a second.

2 MR. SAUER: Okay.

3 (Discussion had off the record.)

4 Q. Mr. Armstrong, we were just
5 discussing a couple of different
6 scenarios that your team decided not to
7 go forward with, how was the decision
8 not to go forward, who made that
9 decision?

10 A. The AMR business case team
11 by consensus.

12 Q. And is that typically how
13 decisions were made, were they put to a
14 vote or as team leader, if it was a 4-4
15 tie, did you have -- did you break the
16 tie?

17 MR. KUTIK: Objection.

18 Q. Could you clarify the
19 question?

20 A. Yes.

21 Q. I'm just trying to understand
22 how the decisions were made, you said it
23 was by consensus, does that mean you put
24 these type of decisions to a vote by
25 the team?



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1 A. No.

2 Q. How did you decide what was
3 a consensus?

4 A. Different points of views
5 were expressed and debated and then
6 decided upon or agreed to.

7 Q. Not necessarily unanimous
8 decisions?

9 MR. KUTIK: Objection.

10 A. Can you clarify the question?

11 Q. Well, I'm just trying to
12 understand how the dynamics of the team
13 decision making was working, I mean, you
14 said you didn't put it to a vote, so
15 how exactly did these decisions get
16 made?

17 A. By consensus.

18 Q. And I'm asking, what does by
19 consensus mean?

20 A. Consensus means that points
21 of view were allowed to be expressed.
22 During that point of view discussion
23 oftentimes various members of the team
24 were -- would, excuse me, possibly see
25 the point in a different light with



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1 added information.

2 Q. The decision not to go
3 forward with the two scenarios we were
4 talking about earlier, the deployment of
5 AMR on premises where the Badger or
6 American Read-O-Matic devices were
7 located or moving all current meters to
8 the -- inside meters to the outside, did
9 you agree with those decisions?

10 A. Yes.

11 Q. And was there different
12 points of view on the team as to
13 whether or not those scenarios should go
14 forward?

15 A. No.

16 Q. The team agreed in totality
17 that those scenarios should not be
18 pursued?

19 A. Yes.

20 Q. Okay. Besides the two
21 scenarios we were talking about here,
22 are there any other scenarios that the
23 team contemplated that aren't described
24 within this document itself?

25 A. No.



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1 Q. On page 2 right below the
2 title of this, there's something about
3 added fixed network technology solutions
4 scenario, can you tell me what that
5 means?

6 A. Yes.

7 Q. What is that?

8 A. Fixed network technology is
9 an AMR technology where the device that
10 reads the meters would be on a elevated
11 structure of some sort that would be
12 able to read all the meters in an
13 approximate radius surrounding that
14 elevated structure collector device.

15 Q. And was this fixed network
16 technology added to all the different
17 scenarios within the business case in
18 this document?

19 A. No.

20 Q. Is the fixed network
21 technology solution included in the
22 scenario the company is proposing to go
23 forward with?

24 A. I'm sorry, could read that
25 one back to me, that question.



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1 (Record read.)

2 A. The answer to that is no.

3 Q. So what was the technology,
4 which scenario was it added to?

5 A. Could you clarify that
6 question please?

7 Q. On this page 2 the bullet
8 point says, Added fixed network
9 technology solution scenario, added to
10 what?

11 A. Added to the array of
12 scenarios.

13 Q. And then this was rejected,
14 is that what you're telling me?

15 A. Could you rephrase the
16 question?

17 Q. I thought I asked you the
18 question of whether or not this fixed
19 network technology is included in any of
20 the scenarios within this document and I
21 thought you had said no?

22 MR. KUTIK: No. That
23 mischaracterizes his testimony. What he
24 said no to was that it was not part of
25 the scenarios or the scenario that's



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1 been proposed by the company.

2 Q. All right. Within this
3 document there are various scenarios
4 that your business team analyzed, is
5 that correct?

6 A. Yes.

7 Q. Within any of those scenarios
8 is the fixed network technology
9 included?

10 A. Yes.

11 Q. Okay. Which of those
12 scenarios is the fixed network
13 technology included in?

14 A. The scenario of partial
15 deployment, all inside meters, plus a
16 111,000 outside meters.

17 Q. And what was the determining
18 factor in deciding which scenarios to
19 include the fixed network technology
20 solution in?

21 A. Rephrase please.

22 Q. How did your team come to
23 determine which scenarios to add the
24 fixed network technology to?

25 A. The fixed network scenario



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1 was added to the inside meter, the
2 partial deployment scenario based upon
3 this technology applying to that subset
4 of the distribution system.

5 Q. What do you mean by the
6 technology applying to that subset of
7 the scenario?

8 A. We considered the fixed
9 network for the partial deployment
10 that's listed as all 560,000 inside
11 meter locations plus the 111,000 outside
12 meter locations, we considered the fixed
13 network for that scenario.

14 Q. And I thought your previous
15 answer had said something about its
16 application of the technology to that
17 scenario, did I misinterpret something
18 you said?

19 A. Could you clarify please?

20 MR. SAUER: I wonder if you
21 could reread the answer, not previous
22 but the one before that.

23 MR. KUTIK: Well, let's do that,
24 but I think we need to be breaking so.

25 (Record read.)



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1 Q. And my follow-up question was
2 what did you mean by that technology
3 applied to the subset -- to that subset
4 of the distribution system?

5 MR. KUTIK: Objection. Asked and
6 answered. Go ahead.

7 A. What I mean by that is that
8 technology would -- that technology
9 would work for that scenario.

10 Q. And when you say work, in a
11 operational sense it would work?

12 A. Yes.

13 Q. And not work in a cost
14 effective sense of the word?

15 MR. KUTIK: Objection.

16 A. Could you clarify that last
17 question?

18 Q. Yes. I was trying to
19 determine whether the decision as to
20 where to deploy the fixed network
21 technology was a cost-based decision?

22 A. Yes.

23 Q. So there's a couple of
24 components to how your team arrived at
25 where to put the fixed network



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1 technology or where it best fit, one
2 being from an operational standpoint it
3 worked best in that partial deployment
4 scenario, you agree with that?

5 A. No.

6 MR. KUTIK: Well, at this point
7 we do really need to break.

8 MR. SAUER: Okay. Let's take a
9 break and resume at 1:30.

10 (Recess taken at 11:19 a.m.)

11 MR. SAUER: Go back on the
12 record.

13 Q. All right. Mr. Armstrong,
14 earlier this morning we were asking you
15 some questions about the benefits of the
16 AMR program or the AMR deployment that
17 you included in your business case, do
18 you recall that discussion?

19 A. Yes.

20 Q. And with regard to potential
21 benefits of the AMR, did DEO consider
22 the possibility of benefits arising from
23 the reduction in fraud or theft or meter
24 tampering, those kind of items?

25 A. No.



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1 Q. Did Dominion Virginia
2 experience any reduction in costs
3 associated with fraud or theft or meter
4 tampering as a result of their AMR
5 deployment?

6 A. Could you be more specific
7 please?

8 Q. Does Dominion Virginia
9 experience any problems that you're
10 aware of with theft of service or meter
11 tampering or those kind of items?

12 A. Yes.

13 Q. And once Dominion Virginia
14 implemented or deployed the AMRs in
15 their service territory, was there a
16 reduction in cost associated with theft
17 or meter tampering?

18 A. I don't know.

19 MS. HAMMERSTEIN: Hello, this is
20 Anne Hammerstein. I've joined the call.

21 MR. SAUER: Hi, Anne, we were
22 just getting started.

23 MS. HAMMERSTEIN: Thank you,
24 Larry.

25 Q. Mr. Armstrong, remember this



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1 morning we had asked you some questions
2 about the Ohio Minimum Gas Service
3 Standards?

4 A. Yes.

5 Q. With regard to DEO's outside
6 meters, do you believe that there are
7 impediments to DEO obtaining an actual
8 reading once every 12 months?

9 MR. KUTIK: Objection.

10 A. Can you be more specific?

11 Q. In terms of attempting to
12 comply with the Ohio Minimum Gas Service
13 Standards, does DEO face an impediment
14 to that compliance when attempting to
15 read outside meters?

16 MR. KUTIK: Objection.

17 A. Is there a way you can
18 rephrase that question please?

19 Q. In your business case you've
20 quantified some benefits associated with
21 doing the AMR deployment as a result of
22 cost savings will be derived from
23 compliance with Ohio's Minimum Gas
24 Service Standards, is that correct?

25 A. Yes.



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1 Q. Are the cost savings that
2 you've identified, are those all in
3 relation to inside meters?

4 A. No.

5 Q. So that you're anticipating
6 there will be some cost savings from the
7 AMR associated with -- in the area of
8 saving costs in DEO's compliance with
9 Ohio Minimum Gas Service Standards
10 resulting from AMRs that are installed
11 on outside meters, is that correct?

12 A. Is there a way that you can
13 rephrase that question?

14 Q. Are there cost savings that
15 DEO has estimated in your business case
16 associated with the deployment of AMR
17 technology on outside meters?

18 A. Yes.

19 Q. So that DEO has identified
20 impediments to obtaining meter reads in
21 compliance with Ohio Minimum Gas Service
22 Standards on outside meters?

23 MR. KUTIK: Objection. Go ahead.

24 A. Yes.

25 Q. And can you kind of explain



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1 what those impediments are?

2 A. Yes.

3 Q. What might those be?

4 A. Because a meter is designated
5 as outside does not equate to that it
6 is accessible for manual meter reading
7 purposes.

8 Q. Can you explain what would
9 create a situation where an outside
10 meter is not accessible to a meter
11 reader?

12 A. Yes.

13 Q. Please do so.

14 A. For example, a typical
15 example would be a row of either
16 condominiums or townhouses that might
17 have the meter outside but located at
18 the rear of the property building wall.
19 And each one of those townhouse/condo
20 properties have fences around the
21 perimeter of each of their lot parcels
22 that are -- that separate one from
23 another and are behind locked gates.

24 Q. Is that a prevalent problem?

25 MR. KUTIK: Objection.



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1 A. Could you be more specific?

2 Q. How much of a problem is
3 that, can you quantify it?

4 A. No.

5 Q. Is that the only example
6 that you can identify where an outside
7 meter is not accessible to a meter
8 reader?

9 A. A similar occurrence would be
10 on an apartment complex again where the
11 meters are outside but they are what's
12 termed as banked, in other words,
13 they're meters that are side by side by
14 side at, for instance, one end of the
15 complex and the apartment owner has,
16 again, enclosed those by a security
17 fence or a fence that would, again,
18 limit access for the meter reading.

19 Q. Were you able to quantify
20 what the estimated cost savings would be
21 by the deployment of AMR devices to
22 outside meters?

23 A. No.

24 Q. Are the impediments that
25 you've described, were they deemed



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1 sufficient to justify deploying the AMR
2 to all outside meters?

3 MR. KUTIK: Objection.

4 A. Can you rephrase the question
5 please?

6 Q. Yes. You've stated that
7 there are impediments in attempting to
8 read outside meters that make compliance
9 with the Ohio Minimum Gas Service
10 Standards problematic, such as
11 apartments or condos putting up a
12 security fence or in a manner blocking
13 the meter reader from access to those.
14 In looking at your business case, were
15 those impediments deemed sufficient to
16 deploy AMR to all outside meters?

17 MR. KUTIK: Objection. Assumes
18 that that analysis was done. Go ahead.

19 A. That analysis was not
20 conducted.

21 Q. Mr. Armstrong, you indicated
22 that there are cost savings by the
23 deployment of AMR associated with DEO's
24 compliance with Ohio Minimum Gas Service
25 Standards, correct?



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1 A. Yes.

2 Q. Do those costs -- do those
3 estimated cost savings include savings
4 associated with DEO's deployment of AMRs
5 to outside meters?

6 A. Can you please rephrase?

7 Q. The estimated cost savings by
8 deploying the -- by deploying AMR
9 associated with compliance with Minimum
10 Gas Service Standards, can you tell me
11 what makes up your estimate of those
12 cost savings?

13 A. Yes.

14 Q. What are the components of
15 the cost savings, please?

16 A. The cost savings derived --
17 well, the avoided costs from having to
18 gain access to limited access meter
19 locations. The -- that's it.

20 Q. And are those avoided costs
21 broken down by how much of that
22 pertained to outside meters versus
23 inside meters?

24 A. No.

25 Q. How were those cost estimates



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1 derived? Let me ask you another
2 question. Let's try this. Would the
3 cost savings associated with compliance
4 with Minimum Gas Service Standards,
5 would you expect those to be the same
6 for inside meters versus outside meters?

7 A. I would expect them to be
8 the same for inside meters and outside
9 meters knowing that the accessibility of
10 particular outside meters and inside
11 meters are essentially the same.

12 Q. Are there impediments to
13 reading all the inside meters?

14 A. Can you be more specific?

15 Q. Isn't it true that DEO has
16 meters that are installed inside of
17 customers' homes that DEO actually reads
18 every other month?

19 A. Yes.

20 Q. And for those meter locations
21 there are no impediments for reading
22 those meters?

23 MR. KUTIK: Objection.

24 A. Can you rephrase the
25 question?



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1 Q. You had previously answered
2 that on DEO's system there are inside
3 meter locations that DEO is able to read
4 every other month, and my question was
5 in those situations, there are no
6 impediments to reading those meters,
7 correct?

8 MR. KUTIK: I'll object because
9 the question doesn't state over what
10 period of time we're talking about
11 reading meters. You're talking about,
12 for example, reading meters every month,
13 are you talking about reading meters
14 every other month, once a year?

15 Q. The question was just
16 surrounding the reading of meters every
17 other month, is that DEO's normal meter
18 reading practice, Mr. Armstrong, that
19 meters are read every other month?

20 A. Currently DEO's practice is
21 to read all meters every other month.

22 Q. And with those meters that
23 happen to be located inside that DEO is
24 able to receive -- to actually gather
25 actual reads, there is no impediment to



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1 reading those meters then, is there?

2 MR. KUTIK: Objection.

3 A. Is there any way you can
4 restate or rephrase that question
5 please?

6 Q. What do you consider to be
7 an impediment to reading the inside
8 meters?

9 A. Accessibility.

10 Q. And for the meters that are
11 located inside the DEO is able to get
12 access to every other month, is that
13 because, one, the customer's at home,
14 may that be one reason how you get
15 access?

16 A. That's one reason how we
17 gain access.

18 Q. Another way does Dominion
19 have a key to some of the locations
20 where the meters are located inside?

21 A. Dominion has keys to some
22 locations to gain access.

23 Q. Are there other ways that
24 Dominion has access to these inside
25 meters other than that?



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1 A. No.

2 Q. So if I understand what you
3 told me, the business case that you've
4 prepared and is contained in the
5 document that was marked as Deposition
6 Exhibit Number 2, the cost savings
7 associated with installing or deploying
8 the AMR that would be achieved complying
9 with the Ohio Minimum Gas Service
10 Standards did not differentiate between
11 cost savings associated with inside
12 versus outside meters, is that true?

13 MR. KUTIK: Objection. Misstates
14 his testimony.

15 A. Can you rephrase the question
16 please?

17 Q. Your business case you have
18 identified and estimated there to be
19 savings associated with compliance with
20 the Ohio MGSS because of the deployment
21 of AMR technology, is that correct?

22 A. Yes.

23 Q. Do those estimated savings
24 contain -- do those estimated savings
25 assume savings associated with inside



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1 and outside meters?

2 A. Yes.

3 Q. Was there any attempt when
4 quantifying those savings estimates to
5 differentiate between inside and outside
6 meters?

7 MR. KUTIK: You mean to break it
8 down?

9 MR. SAUER: Yes.

10 MR. KUTIK: Okay. Objection.
11 Asked and answered. Go ahead.

12 A. No.

13 Q. All right. Could you turn
14 to page 9 of the document that's been
15 marked Deposition Exhibit Number 2. At
16 the top it says, Financial Summary, do
17 you see that?

18 A. Yes.

19 Q. Can you tell me what page 9,
20 what this page is attempting to do?

21 A. Yes.

22 Q. There's a column at the far
23 left that has what appears to be
24 different deployment scenarios, do you
25 see that?



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1 A. Yes.

2 Q. There is the first one full
3 deployment, A 3, A - 3 year
4 installation, what is that depicting,
5 what is the full A - 3 year
6 installation deployment?

7 A. The full deployment A - 3
8 year installation depicts the scenario
9 of full AMR deployment with the
10 aggressive assumptions over a deployment
11 period of three years.

12 Q. And right. Below that it
13 says, full deployment three-year
14 installation, that would be the full
15 deployment without the aggressive
16 assumptions?

17 A. Yes.

18 Q. And then coming down the
19 next box it says, inside meters, A - 3
20 year installation and the description
21 says, a partial deployment, all 560,000
22 inside meters, plus 111,000 outside
23 meters, does the A there depict again
24 the aggressive assumptions?

25 A. Yes.



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1 Q. And are the aggressive
2 assumptions in the partial deployment
3 the same as the aggressive assumptions
4 in the full deployment?

5 A. Yes.

6 Q. These deployment scenarios
7 all involve installation of the Itron
8 AMR devices?

9 A. Can you be more specific?

10 Q. There are if I'm counting
11 right now, there are five different
12 scenarios depicted on this pages
13 identified as financial summary, is that
14 correct?

15 A. Yes.

16 Q. Two full deployment scenarios
17 and three partial deployment scenarios,
18 true?

19 A. Yes.

20 Q. And those five scenarios, do
21 they all involve installation of the
22 Itron AMR devices?

23 A. No.

24 Q. And which ones -- which one
25 or ones involved installation of the



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1 Itron?

2 A. The installation -- let me
3 answer that in reverse. The one
4 installation that does not involve an
5 Itron device is the inside meters
6 network three-year installation.

7 Q. The very last one, is that
8 correct?

9 A. Yes.

10 Q. And what device does that
11 deployment assume installation of?

12 A. That installation assumes a
13 Neptune meter device.

14 Q. You say that was a Neptune
15 device?

16 A. Excuse me, I misspoke, that
17 was a Hexagram, a Hexagram metering
18 device.

19 Q. Hexagram. And how does the
20 Hexagram device differ from the Itron
21 device?

22 A. The Hexagram device on the
23 meter and the Itron device on the meter
24 are similar devices.

25 Q. They perform the same



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1 functions?

2 A. Essentially, yes.

3 Q. Hexagram is battery operated?

4 A. Yes.

5 Q. And Hexagram has one-way
6 communication capabilities?

7 A. Yes.

8 Q. Is there a reason why there
9 wasn't full deployment scenario done
10 with the Hexagram?

11 A. Yes.

12 Q. And what would that reasoning
13 be?

14 A. That the cost for a full
15 deployment with the Hexagram technology
16 was too expensive.

17 Q. So are the Hexagram meters
18 themselves more expensive than the Itron
19 devices?

20 MR. KUTIK: Objection.

21 A. Could you be more specific
22 or rephrase that?

23 Q. Is the cost of a Hexagram
24 meter device more expensive than an
25 Itron meter device?



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1 A. Yes.

2 Q. Is the cost to install a
3 Hexagram meter device more expensive
4 than to install the Itron device?

5 A. No.

6 Q. The second column in that
7 financial summary describes each of the
8 scenarios that we were describing or you
9 were just describing, correct?

10 A. Rephrase please?

11 Q. The second column it's
12 labeled, description and it is a
13 description of the different deployment
14 scenarios that you were discussing,
15 correct?

16 A. Yes.

17 Q. And the next column coming
18 over, it says, deployment costs, do you
19 see that?

20 A. Yes.

21 Q. And for a full deployment
22 aggressive three-year installation, it
23 says it's \$94.8 million, do you see
24 that?

25 A. Yes.



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1 Q. Can you explain where this
2 -- where your cost information, how that
3 was derived?

4 A. Yes.

5 Q. How was that information
6 derived, sir?

7 A. It was derived by per
8 scenario and it was derived by
9 determining the cost of the technology
10 plus the estimated labor cost to deploy
11 that technology.

12 Q. Are there any other factors
13 that went into developing the deployment
14 costs?

15 A. Yes.

16 Q. What else went into that
17 cost item?

18 A. There are certain existing
19 meter types in our distribution system
20 that the technology would not fit so to
21 speak. The technology could not be
22 installed on a certain subset of meters.

23 Q. Can you explain what
24 technology that is, Mr. Armstrong, that
25 was not compatible with the AMR



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1 technology?

2 A. Yes.

3 MR. KUTIK: Objection. Go ahead.

4 Q. What is that?

5 A. There are existing meters in
6 our distribution system that are known
7 as tin case meters. In general, these
8 are old meters and the technology would
9 or cannot physically be installed on
10 that type of meter.

11 Q. So in order to do the
12 deployment, you had to actually take
13 that tin case meter out and put a
14 different type of meter in and then
15 install the AMR technology?

16 A. Yes.

17 Q. And how many of those tin
18 case meters are on your system?

19 A. Approximately 88,000.

20 Q. And the cost of the removal
21 of the tin case meter and the
22 replacement of that with a different
23 meter and installation of the AMR
24 technology, is that all included within
25 the deployment cost of 94.8 million



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1 shown on the full deployment A - 3 year
2 installation scenario?

3 A. Yes.

4 Q. And are there any other
5 costs that flowed into the calculation
6 of that 94.8 million?

7 A. No.

8 Q. What is it about, I'm
9 looking at the next deployment cost
10 down, the 102.8 million for the full
11 deployment three-year installation, what
12 is it about the aggressive nature of
13 your assumptions in the one above that
14 would actually reduce the cost of that
15 deployment?

16 A. Can you please rephrase that
17 question?

18 Q. Yes. Do you see the
19 deployment costs shown for the full
20 deployment three-year installation of
21 102.8 million?

22 A. Yes.

23 Q. And the difference between
24 that one and the one right above it is
25 \$8 million, is that correct?



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1 A. Yes.

2 Q. And what I was asking is
3 what is it about the assumptions, the
4 aggressive assumptions in that first
5 deployment scenario that reduces the
6 deployment costs by the \$8 million?

7 A. The aggressive assumptions on
8 various items are financially lower in
9 the aggressive scenario.

10 Q. Can you give me an example?

11 A. Yes.

12 Q. What would that be?

13 A. The cost to change those tin
14 case meters that we spoke of.

15 Q. Okay. And on the full
16 deployment how does the cost treatment
17 for the tin case meters differ from the
18 scenario in which there are aggressive
19 assumptions?

20 A. Could you read that question
21 back to me please?

22 (Record read.)

23 A. Might you rephrase that
24 please?

25 Q. In the aggressive scenario,



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1 why is it cheaper to replace the tin
2 cost -- the tin case meters than in the
3 nonaggressive scenario?

4 A. In the aggressive business
5 case, we took the approach of certain
6 cost items to be assumed to be the best
7 that we could foresee them to be for
8 the installation. So that is why in
9 this example the meter change labor cost
10 was lower than in the full deployment
11 aggressive scenario versus the full
12 deployment regular scenario.

13 Q. So are you suggesting under
14 a normal scenario, it might take you two
15 hours to change out the tin case and
16 put a different meter in and the AMR
17 device and under the aggressive you're
18 suggesting, well, we cut that in half,
19 maybe we can do that in an hour, I
20 mean, best case scenario, is that the
21 kind of thing you're talking about?

22 MR. KUTIK: Objection.

23 A. Can you be more specific?

24 Q. In the full deployment,
25 three-year installation, what did you



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1 assume for the time to remove the tin
2 case meter and installing the AMR
3 device, do you recall?

4 A. We did not assume a time.

5 Q. Well, when you said your
6 aggressive assumptions were kind of a
7 best case scenario, what did you assume?

8 MR. KUTIK: For what?

9 Q. All right. We've agreed
10 that there's an \$8 million difference
11 between the full deployment three-year
12 installation and the full deployment
13 aggressive scenario, is that true?

14 A. Yes.

15 Q. And you stated that one of
16 the areas in which there were cost
17 savings was in the installation of the
18 tin case meters, was that true?

19 A. Yes.

20 Q. Can you quantify what that
21 estimated difference would be pertaining
22 to the tin case meters, how much of
23 that 8 million is encapsulated in your
24 assumptions regarding the tin case meter
25 installations?



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1 A. Yes.

2 Q. How much would that be?

3 A. \$20 times 88,000. I don't
4 have a calculator.

5 Q. What does that \$20 represent?

6 A. The labor cost assumption
7 delta between the aggressive and the
8 standard business case.

9 Q. Okay. And that labor cost
10 difference is the only difference
11 between those two scenarios?

12 MR. KUTIK: With respect to tin
13 can meters?

14 Q. Tin case meters, yes.

15 A. With respect to tin case
16 meters?

17 Q. Yes.

18 A. Yes.

19 Q. And in the aggressive case
20 is there a different assumption for the
21 cost of the technology between the
22 aggressive and just the standard full
23 deployment three-year installation?

24 A. Yes.

25 Q. And what drives that



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1 difference, sir?

2 MR. KUTIK: Objection.

3 A. Can you be more specific?

4 Q. Why have you estimated a
5 cost difference between the full
6 deployment and the full deployment
7 aggressive relative to the cost of the
8 technology?

9 A. Because in the aggressive
10 scenario, we believe that it is possible
11 to extract a better price.

12 Q. The next column, sir, is
13 labeled, first year net income, do you
14 see that?

15 A. Yes.

16 Q. What do those numbers
17 represent?

18 A. The net of the cost benefits
19 for the first year of the deployment.

20 Q. I'm sorry, could you reread
21 that answer please.

22 (Record read.)

23 Q. Do you mean that the
24 benefits -- does the 3.8 million in the
25 first column, the first row here for



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1 full deployment aggressive three-year
2 installation, does that mean the
3 benefits are greater than the costs, is
4 that what you're saying?

5 A. Yes.

6 Q. And what benefits were
7 factored in to your calculation of the
8 first year net income?

9 A. I don't know specifically.

10 Q. And what cost factors did
11 you consider in deriving the first year
12 net income?

13 A. The total cost of --

14 Q. The 94.8 million in the
15 first example, first scenario?

16 MR. KUTIK: Objection.
17 Mischaracterizes his testimony. Go
18 ahead.

19 A. Can you rephrase the question
20 please?

21 Q. Yes. In computing the first
22 year net income, are you suggesting that
23 in the first year the cost of the
24 technology, the labor cost to deploy the
25 technology, the replacement of the tin



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1 case meters, all of those costs were
2 compared to the benefits and the result
3 of that comparison is \$3.8 million?

4 A. For the first year of the
5 deployment.

6 Q. And in each of the five
7 scenarios, the benefits were greater
8 than the costs in the first year each
9 time, is that correct?

10 A. The first year net income
11 are -- for the various scenarios are
12 shown in that fourth column.

13 Q. Okay. And they're all
14 positive numbers, does that mean that
15 the benefits of each of those scenarios
16 outweighs the cost?

17 A. Yes.

18 Q. And how did your team
19 utilize this information?

20 A. Can you be more specific?

21 Q. What did a positive 3.8
22 million in first year net income in the
23 full deployment aggressive three-year
24 installation scenario, how did your team
25 use that information?



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1 A. It was one comparison
2 statistic to compare the -- in this case
3 the five scenarios listed.

4 Q. So for example, if you look
5 at down the line, the third one coming
6 down, the 4.5 million inside meters
7 aggressive three-year installation, is
8 that the best of the five scenarios
9 then?

10 MR. KUTIK: Objection.

11 A. Can you be more specific?

12 Q. Yes. I'm just focusing on
13 that column that's labeled first year
14 net income, you said that was one factor
15 that was being considered, was it
16 considered based on the higher the
17 number, the better the scenario?

18 MR. KUTIK: Objection.

19 A. The higher the number on
20 first year net income, that statistic,
21 the higher the number, the better,
22 relatively speaking.

23 Q. Okay. And if we come across
24 to steady state net income, years four
25 to six, what does that column represent?



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1 A. It's a numerical statistic
2 similar to the first year net income but
3 during years four, five and six of the
4 project.

5 Q. So --

6 MR. KUTIK: Before you ask your
7 question, I need to take a break.

8 MR. SAUER: Okay.

9 MR. KUTIK: We'll be back in a
10 couple minutes.

11 (Recess taken.)

12 A. This is Bill Armstrong,
13 before we proceed any further, I'd like
14 to go back and clarify, I believe I may
15 have misstated an answer to a previous
16 question.

17 Q. Okay. Which question are
18 you referring to, Mr. Armstrong?

19 A. I don't know the exact
20 question number. I know I can easily
21 -- more easily refer to it as on this
22 financial summary page 9 document.

23 Q. Okay.

24 MR. KUTIK: Go ahead and explain.

25 A. Okay. I want you to



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1 reference column four that's titled,
2 first year net income.

3 Q. Okay.

4 A. What that represents is the
5 effect of each particular scenario on
6 the net income as a result of the first
7 year of the project. Before I believe
8 I stated that it was a net of the cost
9 and the savings or the cost and the
10 benefits I think is the word I used.
11 What -- I'm correcting that and what I'm
12 telling you that these numbers represent
13 is the -- and again, for each scenario
14 the relative effect on net income from
15 the first year of the project.

16 Q. And maybe it's a distinction
17 that I'm not sure I'm completely
18 following, but are you saying -- just a
19 second please. Can you explain what the
20 distinction is between your first answer
21 and what you're answering now?

22 A. Yes.

23 Q. And please do.

24 A. I believe I implied that in
25 my first answer that, for example, under



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1 the full deployment A - 3 year
2 installation scenario, the number under
3 first year net income column of 3.8
4 million, was the net of the cost for
5 deployment and the savings. And you had
6 followed with several questions
7 regarding that. What I am now hoping
8 to correct and explain to you is that
9 that number represents in the first year
10 of, again, using the full employment
11 deployment A - 3 year installation
12 example, in the first year of that
13 project, that project's effect on net
14 income is \$3.8 million.

15 Q. Your original description you
16 said it was a net of cost and benefits.
17 The cost of the program, would they have
18 an effect on net income?

19 A. Net income in a macro sense
20 are revenues less expenses, everybody
21 pays taxes, gives you net income.

22 Q. And what we were talking
23 about, let's say the cost of technology
24 when you're doing your full deployment A
25 - 3 year installation that cost of



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1 technology, will that have an effect on
2 net income?

3 A. I do not think so.

4 Q. And the labor cost to deploy
5 that technology will that have an effect
6 on net income?

7 A. No, it would not.

8 Q. The tin case meter, the cost
9 associated with the change out of the
10 tin case meters to create compatibility
11 with the AMR technology, would the cost
12 associated with that portion of the cost
13 you identified effect net income?

14 A. No.

15 Q. So the cost side of the
16 deployment doesn't factor into the first
17 year of the net income column at all,
18 is that correct?

19 A. That's correct.

20 Q. So the effect on net that is
21 represented by this fourth column is
22 just the benefits side of the
23 deployment?

24 A. No.

25 Q. Why not?



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1 A. It would include, and we may
2 be talking the same thing, it would
3 include the reduced O and M expenses or
4 operating expenses as a result of the
5 deployment.

6 Q. And maybe we are talking the
7 same thing, I mean, the savings that are
8 derived from the deployment, benefits
9 from the deployment are what you're
10 trying to capture in the first column,
11 effect on net, that fourth column, is
12 that true?

13 A. Column four is the effect of
14 the operating expense in this case
15 savings that have that particular effect
16 on net income.

17 Q. Let's move over to the next
18 column, steady state net income, years
19 four to six?

20 A. Same as we just explained or
21 I just explained but for a different
22 time period.

23 Q. Okay. And was there a
24 reason for selecting years four to six?

25 A. I don't know.



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1 Q. Was there a reason not to
2 look at years two to three?

3 A. Years four to six are
4 typical years that the financial group
5 uses to evaluate in this case this
6 project for this item.

7 Q. Was there a transition or a
8 change in the effect on net in that
9 time period that made that a relevant
10 period to look at?

11 A. Can you rephrase that?

12 Q. Yes. I was just trying to
13 get a sense, between years one and years
14 four to six, was there some reason in
15 particular that made that a relevant
16 period to look at for your study?

17 A. Yes.

18 Q. And what is that?

19 A. The net income will -- the
20 effect of the -- for any given scenario,
21 the effect of the benefits or the
22 savings on net income will change during
23 the deployment time period. Under this
24 scenario, years four to six are three
25 years post-deployment completion,



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1 therefore, deemed steady state which the
2 financial numbers show in full
3 deployment A - 3 year installation
4 became steady at 3.5 million.

5 Q. And if we can step back for
6 just a second to the first year net
7 income column. You said relatively
8 speaking, the greater the number, the
9 better the scenario, did that change
10 with your change in or your
11 clarification on your answer to what
12 that column represented?

13 A. No.

14 Q. And would the same hold true
15 for the steady state net income column,
16 years four to six, the higher the
17 number, the better the scenario?

18 MR. KUTIK: Objection.

19 A. Just rephrase the question
20 please.

21 Q. Sure. Does the same hold
22 true in the column marked steady state
23 net income, years four to six, is it
24 true that the higher the number, the
25 more desirable the scenario?



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1 MR. KUTIK: Objection.

2 A. Please rephrase or clarify.

3 Q. How did your team view the
4 numbers that are in the various boxes
5 under the steady state net income, years
6 four to six?

7 A. The way the team viewed the
8 numbers under the column steady state
9 net income, years four to six was for
10 that financial measure, the higher the
11 number, the better that financial
12 measure is for any given scenario.

13 Q. And did your team pit
14 scenario versus scenario in looking at
15 how they shake out based on the results
16 of the steady state net income, years
17 four to six?

18 MR. KUTIK: I think there was a
19 word that cut out, so could you repeat
20 that please?

21 Q. Yes. Did your team compare
22 scenarios based on the outcome of the
23 steady state net income calculation?

24 A. Yes.

25 Q. For example, was the full



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1 deployment aggressive three-year
2 installation viewed more favorably than
3 the full deployment three-year
4 installation because the steady state
5 net income was higher in that first
6 scenario versus the second scenario?

7 A. Under the assumptions that
8 were made in the aggressive case, yes.

9 Q. And the next column is
10 labeled, unlevered IRR, do you see that?

11 A. Yes.

12 Q. Can you explain what an
13 unlevered IRR calculation represents?

14 A. Yes.

15 Q. And what does that mean?

16 A. IRR is a particular financial
17 analysis that is yet an additional
18 measure of investment projects. And
19 unlevered means that in that financial
20 analysis calculation, the unlevered
21 piece means that the relative financial
22 structure of the Dominion subsidiary
23 submitting the project is in effect
24 discounted from that IRR calculation.

25 Q. And the results of the



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1 unlevered IRR calculation are depicted
2 in percentage form, correct?

3 A. Yes.

4 Q. And again, is the higher the
5 percentage, the more -- or the higher
6 the percentage, the better the scenario?

7 MR. KUTIK: Objection.

8 A. Can you rephrase the
9 question?

10 Q. Yes. How did your team
11 utilize the percentages that are
12 depicted under the unlevered IRR column?

13 A. The team used the percentages
14 under the unlevered IRR column as a,
15 again, for that financial measurement, a
16 benchmark to the relative financial
17 performance of that scenario.

18 Q. And relatively speaking, is
19 the higher the unlevered the IRR, the
20 better the scenario?

21 A. Yes.

22 Q. And why did DEO -- let me
23 ask you this. Are there also levered
24 IRR calculations, can you do that?

25 A. Can you rephrase the



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1 question?

2 Q. Yes. When you're doing
3 financial analysis, what you've depicted
4 here are unlevered IRRs or unlevered
5 NPVs in the next column, can you also
6 do the same analyses using a levered
7 methodology?

8 A. Yes.

9 Q. And is there a reason why
10 your team chose to use unlevered versus
11 the levered methodology?

12 MR. KUTIK: Objection. It
13 assumes that that's what they did. Go
14 ahead.

15 A. Using an unlevered approach
16 enables senior management of Dominion to
17 equitably compare investment
18 opportunities from the various business
19 units.

20 Q. Again, in the next column
21 over, there's the unlevered NPV, 9.4
22 percent for 15 years, do you see that?

23 A. Yes.

24 Q. What's the 9.4 percent
25 represent?



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1 A. That represents the discount
2 rate input to the NPV analysis.

3 Q. And what does 15 years
4 describe?

5 A. 15 years describes over what
6 time period we evaluated the net present
7 value.

8 Q. And why was the 9.4 percent
9 discount rate decided upon?

10 A. That was decided on because
11 that's the weighted average cost of
12 capital for Dominion for this analysis.

13 Q. Okay. Not necessarily
14 Dominion's authorized rate of return?

15 A. Weighed average cost of
16 capital doesn't have anything to do with
17 authorized rate of return.

18 Q. Okay. How was the 15 years
19 decided upon?

20 A. 15 years was decided upon
21 because looking at other industry
22 projects of a similar nature, typically
23 the technology device on the meter will
24 last 15 years.

25 MR. SAUER: I'm sorry, could I



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1 have that answer reread?

2 (Record read.)

3 Q. When you look at the
4 unlevered IRR column, is there a
5 benchmark that DEO compared the results
6 of their study to?

7 A. Can you be more specific?

8 Q. Did you look at the results
9 of your analysis, and right now I'm just
10 focused on the unlevered IRR column, did
11 you look at your results in a vacuum?

12 A. Can you be more specific?
13 I'm not sure what you mean by vacuum.

14 Q. I mean, did you have --
15 let's take the 15 years, for example,
16 you said that that was -- you had
17 looked at what the industry practices
18 had been and what you thought the
19 technology would last and you came up
20 with 15 years and that was what was
21 input in the NPV. When you did your
22 IRR calculations, were the numbers just
23 what they are and you didn't do anything
24 else with them?

25 A. The numbers that are shown



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1 on this financial summary for each
2 column of financial calculation were
3 used by the team to compare the
4 scenarios.

5 Q. As part of this analysis is
6 there a threshold IRR percentage result
7 that must occur for a project to go
8 forward?

9 A. Not that I'm aware of.

10 Q. So an IRR of zero, the
11 project still could have gone forward?

12 MR. KUTIK: I'll object.
13 Incomplete hypothetical. Go ahead.

14 A. I would say yes.

15 Q. And moving on to the
16 unlevered NPV, what do these numbers
17 represent?

18 MR. KUTIK: I'll object to the
19 extent that this question has been asked
20 and answered. Go ahead.

21 A. NPV analysis takes in this
22 case deployment costs and associated
23 savings, orients them over the time
24 period specified and then since we're
25 talking about a future period when the



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1 analysis is being done, brings those --
2 that net value back to the date and
3 time you're doing that analysis. So it
4 gives you a dollar figure from which to
5 compare alternatives.

6 Q. Again, how did your team use
7 the results of your unlevered NPV
8 analysis?

9 A. Again, on this particular
10 financial benchmark or analysis, the
11 unlevered NPV looking at 15 years and a
12 discount rate of 9.4 percent, we used
13 the results of that to compare the
14 different alternatives.

15 Q. And again, in doing that
16 comparison, would your team view the
17 higher the unlevered NPV to be the
18 better scenario?

19 MR. KUTIK: Objection.

20 A. Could you rephrase the
21 question?

22 Q. Yes. Based on the
23 assumptions contained on this financial
24 summary, would your team view relative
25 one scenario to another scenario, the



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1 better scenario to be the one that has
2 the higher unlevered NPV?

3 A. The scenario with the higher
4 NPV for an unlevered NPV shows the
5 alternative that has the more attractive
6 financial result.

7 Q. If you come down to the
8 second box under the unlevered NPV
9 column, full deployment three-year
10 installation, there's a negative number
11 in that box, do you see?

12 A. Yes.

13 Q. Can you explain the
14 significance of the negative value
15 associated with that unlevered NPV
16 calculation?

17 A. In an NPV analysis when the
18 result is a negative number represents a
19 scenario in that NPV analysis where the
20 net present value is a negative number.

21 Q. I understand it's negative,
22 what I'm trying to understand is what's
23 the significance of the fact that that's
24 a negative number?

25 A. The significance is that it's



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1 a negative number would be, again, over
2 that time period at that discount rate
3 that the money invested would -- the net
4 present value of the money invested
5 would be negative. So what I'm trying
6 to explain is that, as we said before,
7 the higher -- there's NPV analysis that
8 could come out positive and negative,
9 and again, it's the more positive the
10 number, the better the financial
11 indicator is for that analysis for
12 whatever scenario you're running it on.

13 Q. For let's say if you come
14 down to the box, the third box down,
15 there's a number in there, approximately
16 \$23 million, do you see that?

17 A. No.

18 Q. 22,690,000?

19 A. Got it, got it. Yes.

20 Q. Does that mean for over the
21 15 year period that you're looking at,
22 the money invested would have a positive
23 return in that amount over that period
24 of time?

25 A. No.



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1 Q. What does that represent?

2 A. Can you be more specific?

3 Q. Yes. The 22 million, almost
4 23 million dollar number, what would
5 that represent?

6 A. What that represents, means
7 for the -- I think you said the third
8 box down, which to be specific is
9 referencing the inside meters aggressive
10 three-year installation scenario, what
11 that means is when analyzing that
12 scenario looking at the costs and the
13 benefits and bringing it back to today's
14 dollars with today being the date that
15 you did the analysis, that that scenario
16 is in essence worth \$22,690,245. That's
17 the present value of that analysis.

18 Q. The last column, sir, the
19 payback in years. Similarly, how did
20 your team use the numbers that are under
21 that column?

22 A. We, again, for that financial
23 measure, we used the numbers in that
24 column to compare the scenarios.

25 Q. And for this particular



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1 column, would it be true that the
2 reverse is true, the lower the number or
3 the faster the payback, the better the
4 scenario, is that true?

5 A. The lower the number in this
6 column would represent the scenario or
7 this payback financial measure would
8 indicate the most favorable financial
9 measurement when comparing these
10 scenarios.

11 MR. SAUER: Mr. Kutik, if I
12 could have another document marked as
13 Deposition Exhibit Number 3. It's a
14 data request, OCC 14th Set, question was
15 number 524, do you have that one there?

16 MR. KUTIK: Yes, we do. Let me
17 mark it.

18 - - - - -
19 (Thereupon, Deposition
20 Exhibit-3 was marked for
21 purposes of identification.)
22 - - - - -

23 MR. SAUER: That's been marked?

24 MR. KUTIK: Yes, it has.

25 Q. Mr. Armstrong, do you have a



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1 copy of what's been marked as Deposition
2 Exhibit Number 3?

3 A. Yes.

4 Q. Have you seen this document
5 before?

6 A. Yes.

7 Q. And what is the document,
8 sir?

9 A. It appears to be Dominion's
10 response to an OCC interrogatory
11 regarding items that are articulated
12 under the section called question.

13 Q. Okay. And did you assist in
14 the preparation of this response at all?

15 A. No.

16 Q. And you see part B of the
17 question it says, if the company has not
18 conducted any business case analysis
19 that assumed a five-year deployment
20 schedule, please explain why. Or I'm
21 sorry, let's move up before that under
22 A, it says, please explain whether the
23 company has conducted any business case
24 analysis that assumed a five-year
25 deployment schedule and the answer is



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1 your company did not, is that your
2 understanding?

3 A. Yes.

4 Q. And then under B it says, if
5 the company has not conducted any
6 business cases that assumed the
7 five-year deployment schedule, please
8 explain why. And then the response
9 below is, the company's decision to
10 propose a five-year deployment was based
11 on additional criteria, including the
12 time needed by company employees to
13 complete the program, and additional
14 studies were not necessary, do you see
15 that?

16 A. Yes.

17 Q. And is it your understanding
18 that the deployment the company is
19 undertaking right now is a five-year
20 deployment?

21 MR. KUTIK: Objection.

22 A. Could you rephrase the
23 question please?

24 Q. Yes. Under what period of
25 time does the company propose to deploy



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1 its AMR technology?

2 A. It's my understanding that we
3 have proposed a five-year deployment.

4 Q. And do you know when that
5 decision was made?

6 A. No.

7 Q. Was that decision made while
8 your business case team was still
9 intact?

10 A. I answered that I don't know
11 when that decision was made, so I can't
12 answer this question.

13 Q. The analysis that we've been
14 looking at on page 9 was all done
15 pursuant to an assumption that the
16 deployment would be in three years,
17 correct?

18 MR. KUTIK: Are you talking about
19 Exhibit 2?

20 MR. SAUER: Back on Deposition
21 Exhibit 2, page 9.

22 A. All of the scenarios on
23 Exhibit 2, page 9 assumed three-year
24 deployment scenarios or time frames.

25 Q. And why was the three-year



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1 deployment scenario selected?

2 A. That deployment scenario was
3 selected because that's the time frame
4 that would be feasible for those
5 deployments to occur assuming we use a
6 contractor.

7 Q. Assuming you use a contractor
8 for what phase of the project?

9 A. For the labor to deploy,
10 excuse me, for the labor to deploy the
11 technology.

12 Q. Why assume three years for a
13 contractor?

14 MR. KUTIK: Objection.

15 A. Can you rephrase the question
16 please?

17 Q. Yes. You said you decided
18 on three-year deployment because of the
19 assumption that you were going to use a
20 contractor to perform the deployment.
21 Why did you assume three years for that
22 assumption?

23 A. Based on our experience with
24 the Dominion Virginia Power deployment
25 and industry experience and knowledge,



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1 we knew for the deployment scenarios in
2 question on Exhibit 2, page 9, that with
3 a contractor they could be feasibly
4 completed in that time frame.

5 Q. And now that the deployment
6 is five years, does that still assume
7 using a contractor?

8 A. No.

9 Q. Does it assume using Dominion
10 in-house labor?

11 A. If by Dominion you mean
12 Dominion East Ohio, the answer is yes.

13 Q. Exclusively Dominion East
14 Ohio labor?

15 A. With the exception of myself
16 and David Batson, whom we referenced
17 earlier, we're on the deployment
18 management team.

19 Q. Okay. But as far as the
20 actual, the physical deployment, there's
21 no assumption for the use of a
22 contractor to do any of that work?

23 A. Rephrase please.

24 Q. As far as the actual
25 physical deployment of the AMR devices



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1 under a five-year deployment scenario,
2 you're not assuming the use of any
3 contract labor to do that deployment, is
4 that correct?

5 MR. KUTIK: And this is as
6 proposed, correct?

7 MR. SAUER: As proposed.

8 A. That is true. That is
9 correct. No contractor.

10 Q. Does the use of in-house
11 labor versus contract labor change the
12 cost profile of the deployment?

13 MR. KUTIK: Objection.

14 A. Could you be more specific?

15 Q. Has your team done any
16 analysis on the change in deployment
17 costs that might arise due to the use
18 of in-house labor rather than contract
19 labor?

20 A. Yes.

21 Q. And when did your team
22 perform that analysis?

23 A. I can only answer that
24 relatively, it was after the decision of
25 a five-year scenario was put forth.



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1 Q. But your team did that
2 analysis, is that correct?

3 MR. KUTIK: Objection.

4 A. Just rephrase the question.

5 Q. Did I understand you to say
6 your team has done the analysis to
7 compare the deployment cost of the --
8 the difference in deployment cost
9 assuming the use of Dominion East Ohio
10 labor versus contract labor?

11 A. Yes.

12 Q. Your team did that study or
13 analysis?

14 A. Was that another question?
15 Yes.

16 Q. And I asked when did your
17 team do that analysis?

18 MR. KUTIK: And he answered that
19 question after the decision was made to
20 go to the five-year scenario.

21 Q. And was that analysis
22 performed in a comparable fashion to the
23 analysis that was performed on what is
24 depicted on page 9 of Deposition Exhibit
25 Number 2?



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1 A. No.

2 Q. So you didn't do a full
3 deployment aggressive five-year
4 installation and look at what the net
5 present value of that scenario might
6 have been?

7 A. We did not do that.

8 Q. Do you recall what the
9 difference in the deployment cost was
10 when you did that analysis of using
11 company labor versus contract labor?

12 A. Yes.

13 Q. And what was that, what did
14 that analysis show?

15 A. That the difference in,
16 again, we're talking labor costs for
17 deployment, for a five year full
18 deployment timeline would be
19 approximately \$4 million difference.

20 Q. I'm sorry, you trailed off
21 after you said \$4 million, I didn't hear
22 the rest.

23 A. I'm sorry. The difference
24 between --

25 MR. KUTIK: The word was



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1 difference.

2 A. A \$4 million difference.

3 Q. Was it more expensive to use
4 company labor than contract labor?

5 A. Yes.

6 Q. And did you look at that
7 only in the sense of a full deployment
8 scenario?

9 A. Be more specific. Did we
10 look at what?

11 Q. The difference in the cost
12 of labor for the deployment of AMR
13 devices using company labor versus
14 contract labor?

15 A. We looked at that under the
16 assumption of a five-year deployment.

17 Q. For how many different
18 scenarios?

19 A. Just the -- one scenario.

20 Q. Mr. Armstrong, when you
21 looked at what changed relative to the
22 costs, were there any change in the
23 benefits as a result of using company
24 labor versus contract labor?

25 A. No.



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1 Q. Based on the results of the
2 financial summary that's shown on
3 Deposition Exhibit 2, page 9, did your
4 team make any recommendations to the
5 steering committee as to which scenario
6 was most desirable?

7 A. No.

8 Q. Was there any discussion with
9 the team from the steering committee
10 regarding one scenario versus another?

11 A. Yes.

12 Q. And based on that discussion,
13 did the team have an understanding of
14 what scenario the steering committee
15 felt was most desirable?

16 A. No.

17 Q. Mr. Armstrong, do you have
18 an opinion as to which of the five
19 scenarios shown on page 9 is most
20 desirable?

21 MR. KUTIK: I'll object to the
22 extent it's beyond the scope of this
23 deposition, but you can answer.

24 A. Yes.

25 Q. And which installation or



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1 which scenario do you believe to be most
2 desirable?

3 MR. KUTIK: Same objection.

4 A. I believe the most desirable
5 installation is full deployment over a
6 five-year period performed by company
7 labor.

8 Q. And how do you come to that
9 conclusion, sir?

10 MR. KUTIK: Objection.

11 Q. Well, let me take a step
12 back before we do that. Based on the
13 five scenarios that are on page 9 of
14 Deposition Exhibit 2, which of these
15 five do you believe to be most
16 desirable?

17 A. I would believe the scenario
18 full deployment three-year installation,
19 in other words, the second row down, to
20 be the most desirable.

21 Q. Now, as I come across the
22 columns, the most desirable scenario
23 that you've identified is the most -- it
24 has the highest deployment cost?

25 A. There was a word that



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1 blanked out there.

2 Q. Okay. As I come across the
3 full deployment three-year installation
4 that you have identified as being the
5 most desirable scenario on this page,
6 the deployment cost column shows it to
7 be -- that scenario to have the highest
8 deployment cost, correct?

9 A. Yes.

10 Q. And in the next column over,
11 the first year net income, it has the
12 least effect on net, correct?

13 A. Yes.

14 Q. And if I keep coming across,
15 it's not the worst, it's the -- it's
16 the second to lowest effect on net in
17 this column, correct?

18 A. No.

19 Q. No? What is this, what does
20 the steady state net income --

21 A. It appears --

22 Q. -- presume?

23 A. Can you repeat the question
24 he asked me?

25 Q. Yes. I'm sorry. It's



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1 getting a little confusing here. As you
2 come across the columns under the
3 scenario that you've identified as the
4 most desirable, I'm trying to understand
5 where it ranks in the various analyses
6 that are performed on this page, as you
7 come to the steady state net income,
8 years four to six where you said the
9 greater the number, the more desirable
10 the scenario, I said this isn't the
11 lowest, but it's the second to the
12 lowest on the page?

13 MR. KUTIK: Objection.
14 Mischaracterizes his testimony. Go
15 ahead.

16 A. The full deployment
17 three-year installation is the second
18 lowest for the steady state net income,
19 years four to six.

20 Q. As we come across to the
21 unlevered IRR, which one of the
22 scenarios has the most desirable
23 unlevered IRR calculation?

24 A. The aggressive inside meter,
25 partial deployment, plus 111,000 outside



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1 meters.

2 Q. And which one has the least
3 desirable unlevered IRR?

4 A. The full deployment three
5 years installation.

6 Q. And if we come across to the
7 unlevered, net present value, 9.4
8 percent, 15 years column, which one has
9 the most desirable result of that
10 particular calculation?

11 A. The inside meters aggressive
12 partial deployment, plus the 111,000
13 outside meters.

14 Q. And which one has the least
15 desirable NPV calculation?

16 A. The full deployment
17 three-year installation.

18 Q. As we come across to the
19 payback, sir, which one has the most
20 desirable payback calculation?

21 A. The inside meters aggressive
22 three-year installation.

23 Q. And which one has the worst?

24 A. The longest payback is the
25 full deployment three-year installation.



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1 Q. So I'm somewhat confused as
2 to what leads you to the conclusion that
3 the full deployment three-year
4 installation is the most desirable
5 scenario on this page?

6 MR. KUTIK: So your question is?

7 Q. What is it about the full
8 deployment three-year installation that
9 makes it the most desirable scenario on
10 this page?

11 A. My view, which is what you
12 asked, that makes the full deployment
13 three-year installation scenario on this
14 page the most desirable in my view
15 relies on factors that are not
16 articulated on this page.

17 Q. And what would those factors
18 be?

19 A. What I need to establish
20 that -- and it appeared to me that you
21 were primarily in your questioning
22 comparing the full three-year
23 installation deployment versus the
24 inside meter aggressive three-year
25 installation scenario.



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1 Q. I wasn't doing any comparison
2 whatsoever other than trying to get some
3 sense from you as to what the relative
4 ranking of these different scenarios
5 were based on the outcome of the
6 financial analysis that you and your
7 team performed.

8 A. The reason that I'm -- that
9 my opinion that the full deployment is
10 the most desirable solution on this page
11 is that any nonfull deployment solution,
12 and let me speak to the aggressive full
13 year deployment, that as we have spoken,
14 the aggressive assumptions assume the
15 best of all worlds for various cost
16 factors which I believe are unrealistic.
17 So any deployment short of full
18 deployment in effect creates or would
19 create two classes of customer in the
20 Dominion East Ohio system. One would be
21 if you were, on any partial deployment
22 shown on Exhibit 2 page 9, if you
23 happen to be endowed with an inside
24 meter or an outside meter that just
25 happened to be on a route where there



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1 was predominantly inside meters, you
2 would at the end of deployment be
3 blessed with monthly meter readings,
4 accurate monthly meter readings,
5 dramatically reduced consecutive
6 estimates. And if you happened to have
7 a meter that was not part of any of
8 these partial deployments, you would
9 continue to get the quality of service
10 that exists today that includes manual
11 meter reading, subject to errors in that
12 manual meter reading process, additional
13 consecutive estimates, along with other
14 company benefits of safety, the fact
15 that to have a less than full deployment
16 means that we would have to have two
17 different meter reading systems
18 maintained with two different databases
19 in our customer Legacy system, that
20 would all increase the possibility of
21 mistakes being made as we try to service
22 those customers on essentially two
23 dramatically different platforms of
24 service.

25 Q. Are those the factors then



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1 that lead you to the conclusion that a
2 full deployment three-year installation
3 is preferable --

4 A. Those are the --

5 Q. -- based as scenarios as
6 they are on page 9?

7 A. Of the scenarios on page 9,
8 those are the factors that lead me to
9 conclude that the full deployment
10 three-year installation is the most
11 desirable scenario.

12 Q. Are there any of those
13 factors contained within your business
14 case analysis that was presented to the
15 steering committee?

16 A. No.

17 MR. KUTIK: Why don't we take a
18 break?

19 MR. SAUER: All right.

20 (Recess taken.)

21 MR. SAUER: Mr. Kutik, I had
22 sent you a couple of documents, one of
23 which is discovery response to a 14th
24 set question number 517 and I think
25 attached to that is a very similar



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