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License Public Scoping Meeting

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UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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PUBLIC SCOPING MEETING
COMBINED LICENSE APPLICATION

+ + + + +

WEDNESDAY,

APRIL 16, 2008

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MINERAL, VIRGINIA

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The Public Meeting was convened at the
Louisa County High School, 727 Davis Highway, Mineral,
Virginia, at 7:00 p.m., F. "Chip" Cameron,
Facilitator, presiding.

NRC STAFF PARTICIPATING:

F. "CHIP" CAMERON

RICHARD RAIONE

ALICIA WILLIAMSON

THOMAS KEVERN

ANDY KUGLER

RENEE HOLMES

RICH EMCH

NILESH CHOKSHI

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SPEAKERS :

PAUL GUNTER

KENNETH REMMERS

ALLISON FISHER

BARBARA J. CRAWFORD

DR. JAMES BRYAN

SENATOR JOHN WATKINS

WILLY HARPER

LEE LINTECUM

JACK WRIGHT

BOB GIBSON

JACK MANZARI

JERRY ROSENTHAL

JAMES O'HANLON

CHARLES TRIBLE

KENNETH MOORE

LARRY ELLIS

KELLY TAYLOR

REBECCA FAWLS

MICHAEL STUART

LOUIS ZELLER

ELEANOR AMIDON

VANTI NGUYEN

BURTON MARSHALL

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1 JOHN FARMER

2

3 SPEAKERS: (CONT.)

4 PETER BEAMENT

5 KENNETH BALL

6 EUGENE BROWN

7 MARK PIERSON

8 DONAL DAY

9 ELENA DAY

10 BETTY BLACK

11 MIGUEL AU CLAIR-VALDEZ

12 LISA STILES

13 DALE JONES

14 DOUG SMITH

15 J.R. TOLBERT

16 PRATT CHERRY

17 MICHELLE RICHMOND

18 VICKY ANN HARTE

19 JOE MONTAGUE

20 DENNIS SCHAIBLE

21 BILL MURPHEY

22 EUGENE GRECHECK

23

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P-R-O-C-E-E-D-I-N-G-S

(7:03 p.m.)

FACILITATOR CAMERON: Good evening, everybody, and welcome to the public meeting tonight.

My name is Chip Cameron, and it's my pleasure to serve as your facilitator for the meeting tonight, and in that role I'll try to help everybody to have a productive meeting.

And our topic tonight is the NRC -- the Nuclear Regulatory Commission -- we'll be using the acronym NRC, but we're here to talk about and listen on issues related to the NRC's evaluation process, specifically the environmental review that the NRC conducts on making a decision whether to grant a license for -- to build and operate a new reactor. And we do have an application in from Dominion to build and operate a new reactor at the North Anna site.

And I just want to spend a couple of minutes on some meeting process issues before we go to the substance of tonight's discussion. And I'd like to talk about the format for the meeting, some very simple ground rules, and to introduce the NRC speakers who will be talking to you tonight.

In terms of the format for the meeting, I

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1 like to describe this as a two-part meeting. And the
2 first part is to give all of you some background, some
3 context, on what the NRC looks at when it evaluates a
4 license application like this, and particularly how
5 you can participate in the NRC's evaluation process.

6 And we have a couple of NRC speakers to
7 give you some information on that, and then we're
8 going to go out to you for a short round of questions
9 before we move into the second part of the meeting.
10 And that second part of the meeting gives us an
11 opportunity to listen to all of you, to your advice,
12 to your recommendations on what the NRC should look at
13 when it conducts its environmental review -- what
14 issues should be looked at, what alternatives, and
15 that's why this is called a scoping meeting.

16 What should be the scope of the NRC's
17 environmental review? And that environmental review
18 culminates in a document called an environmental
19 impact statement, and the staff will be telling you
20 more about that.

21 They will also be telling you that we're
22 going to be taking written comments on these issues,
23 but we wanted to be with you tonight in person to talk
24 to you. And any comments that you give us tonight
25 will carry the same weight as a written comment.

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1 And during this second part of the meeting
2 when we ask all of you to come up here, those of you
3 who have signed up to speak tonight, the NRC is just
4 going to be in a listening mode. We won't be
5 responding, unless there's an issue that comes up on
6 which there is new information that would be useful
7 for you to know, and that will be probably rare, but
8 there may be a time when we just ask one of the NRC
9 staff to offer some information for you.

10 In terms of ground rules for the meeting,
11 when we get to the question period after the staff
12 presentations -- and I would just ask you to hold your
13 questions until the two short presentations are done
14 -- just signal me and I'll bring you this cordless
15 microphone. And if you could introduce yourself to us
16 and ask your question, we'll try to answer your
17 question.

18 And if you could keep it to a question and
19 save your comments for the comment part of the
20 meeting, that would be appreciated. And I would ask
21 that only one person speak at a time, whoever has the
22 -- whomever has the cordless mic, and two reasons for
23 that. The most important, obviously, is so we can all
24 give our full attention to whomever is speaking.

25 And, secondly, we are taking a transcript.

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1 Our stenographer is Doug Turner -- I hope I got that
2 correct -- back there. And we want to make sure that
3 he can get a clean transcript, he knows who is
4 talking. And that transcript will be available to
5 anybody who wants to see a record of what transpired
6 this evening.

7 And when we get to the second part of the
8 meeting and we go to comments, I'm going to have to
9 ask you to be brief, because we have probably 50
10 people tonight who want to talk. And from past
11 experience, that is going to take us a while. And it
12 passes fast, but time passes fast because there is
13 always interesting comments and commenters.

14 But we will have to move along with
15 alacrity, and I'm going to ask everybody to try to sum
16 up their presentation, to do this in three minutes.
17 It's a three- to five-minute guideline, but -- so I'll
18 have to be a little bit strict on that, so that we can
19 get out on time.

20 We'll be able to stay past the end of the
21 meeting, if necessary, the end of the meeting that was
22 noticed at 10:00. But we do have to be out of the
23 school, because of the school restrictions, at 11:00.

24 So we'll be wrapping up then.

25 If you want to amplify on your comments,

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1 you can do that in the written comment period. So I
2 just would ask you to try to be brief.

3 Final comment is that you are going to
4 hear a lot of opinions possibly that you disagree with
5 tonight, and I would just ask you to extend courtesy
6 to the speaker and respect the person who is giving
7 that comment, even though you might disagree with it.

8 Let me introduce our speakers tonight. We
9 have Richard Raione right here, and Richard is the
10 Chief of the Environmental Projects Branch in the
11 Division of Site and Environmental Review in our
12 Office of New Reactors.

13 And Richard's staff are the ones who
14 supervise the preparation of the environmental reviews
15 when we get an application for a new reactor. So
16 Richard is going to speak to us at -- first, and give
17 you some background on the NRC.

18 And then, we're going to go to one of
19 Richard's key staff people, Alicia Williamson, who is
20 right here. And Alicia is the Project Manager for the
21 preparation of the environmental review on the
22 Dominion application, and she'll be talking to you
23 about specifics of the environmental review and also
24 will give you an overview of the entire NRC review
25 process, including the safety review.

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1 And with that, I just thank all of you for
2 coming out tonight. We realize that this is a solemn
3 anniversary down in this part of the country, and so
4 thank you for being here and giving your time and your
5 comments tonight.

6 And with that, Richard, would you want to
7 talk to us? Thank you.

8 MR. RAIONE: Well, thank you, Chip, for
9 that introduction.

10 I'd like to start the evening out by
11 saying thank you all for taking the time out of your
12 personal schedules to meet with us and share your
13 views on the North Anna project. Can everybody hear
14 me okay?

15 Okay. I want to thank all of you for the
16 time that you are taking to help us fulfill our
17 important responsibilities under the National
18 Environmental Policy Act, otherwise known as NEPA. We
19 have had some valuable discussions already during the
20 open house and hope that we have helped you better
21 understand why we are here tonight and what we might
22 accomplish. I expect that your comments will help us
23 have an effective meeting this evening.

24 Tonight we're going to be presenting some
25 information on the application for a new power reactor

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1 to be constructed and operated at the North Anna
2 project site. As Chip indicated, my staff is
3 responsible for managing the environmental review that
4 has to be conducted before the NRC can make a decision
5 on the application.

6 We work closely with our safety
7 counterparts in our Division of New Reactor Licensing,
8 who manage the safety review and the overall schedule
9 for the NRC. At this time, I'd like to introduce Mr.
10 Tom Kevern. He is our Safety Manager for this
11 particular site.

12 Some of you may be familiar with NRC and
13 its processes and participated in the North Anna early
14 site permit review. An early site permit, also
15 referred to as an ESP, is NRC's approval of a site as
16 suitable for construction and operation of new nuclear
17 units. An early site permit review examines both the
18 safety and environmental topics.

19 The NRC conducted an early site review --
20 early site permit review at North Anna and approved an
21 early site permit for the North Anna site in November
22 of last year, November 2007. In addition, some of you
23 may have attended the new reactor licensing public
24 information meeting held back in October of 2007. In
25 that meeting, we informed you about the opportunities

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1 that you would have to observe or participate in the
2 work of the NRC, if we were to receive an application
3 to construct and operate a new reactor from Dominion.

4 We identified several tracks, including
5 safety review, inspection activities, formal hearings,
6 as well as the environmental review back then. In
7 October, we wanted to share with you information about
8 what the combined license is. And as you know, in the
9 government we have acronyms for everything --
10 otherwise referred to as the COL.

11 We also identified what you could expect
12 as far as the NRC's role in reviewing the application
13 and how one could get involved in the process. During
14 all of the early site permit and new reactor licensing
15 public meetings, we have also stressed that this is
16 your home and your community.

17 If the NRC and all of the other permitting
18 agencies grant approvals, the proposed project will
19 have more of an impact on you than anybody else. We
20 recognize that. As you will hear from our staff
21 tonight, the NRC did receive an application in
22 November of 2007 for a combined license at North Anna.

23 After the staff determined the application was
24 acceptable for docketing, we began a review of the
25 combined license application in February of this year,

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1 February '08.

2 Slide 2, please.

3 The purpose for tonight's meeting is to
4 give you the opportunity to share with us your
5 comments on what you think we should consider in the
6 environmental review when we develop the NRC's
7 environmental impact statement on the North Anna
8 combined license application. This is a scoping
9 meeting, which is part of the scoping process, that
10 helps shape what matters we should consider when we
11 undertake this type of review.

12 We will describe to you how we perform our
13 review. You will hear that we have a well-structured
14 review process, and our review team is staffed with
15 nationally-recognized experts in all of the
16 environmental disciplines. We will also talk about
17 how various stakeholders, including you as members of
18 the public, can participate in this process.

19 As we conduct our review and develop our
20 environmental impact statement, or, if you prefer,
21 EIS, we will be meeting with a number of agencies
22 locally and at the state, tribal, and federal level,
23 to obtain information about the region and the
24 potential effect of the project.

25 And you will hear that later in our

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1 review, after we issue the draft environmental impact
2 statement, we will come back into your community, and
3 we will explain the analyses that we performed and our
4 preliminary conclusions. And we will ask you for your
5 comments on our work.

6 We also will give you some information
7 about the schedule for our environmental review, and
8 let you know how you can submit comments if you do not
9 plan to provide comments here tonight.

10 Then, finally, we will get to the most
11 important part of tonight's meeting, which is for us
12 to take comments on the scope of the environmental
13 review for the North Anna combined license
14 application. In other words, it's going to be a time
15 for us to listen to you. That's why we're really
16 here.

17 So with that as my effort to set the stage
18 for this meeting, let me thank you again for allowing
19 us to come into your community and for you taking this
20 effort to meet with us and share your views on the
21 potential environmental issues associated with this
22 project.

23 With that, Alicia Williamson, our
24 Environmental Project Manager for the North Anna
25 combined license environmental review, will now

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1 describe our process for reviewing a combined license
2 application with a focus on the environmental review.

3 FACILITATOR CAMERON: Okay. Thank you.
4 Thank you very much for those comments.

5 I just -- before Alicia talks to all of
6 you, I just wanted to introduce you to a senior NRC
7 official who is with us tonight who will be closing
8 out the meeting for us, and that's Nilesh Chokshi, who
9 is right here. And he's the Deputy Division Director
10 of the Division of Site and Environmental Review where
11 Richard's branch is, and where Alicia works.

12 Alicia?

13 MS. WILLIAMSON: Thank you, Chip. Thank
14 you, Richard.

15 I would also like to extend my thanks to
16 everyone for taking time out to attend this meeting
17 tonight.

18 Next slide, please.

19 I would like to start the presentation by
20 identifying the key participants who have influence on
21 the NRC licensing process. Of course, the Nuclear
22 Regulatory Commission, or the NRC; members of the
23 public, in terms of these meetings; and any written
24 comments we receive also have influence on the
25 process; stakeholders, including federal, state, and

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1 local government officials and agencies; and, finally,
2 the applicant, in this case Dominion Virginia Power.
3 I will refer to them tonight as just "Dominion."

4 Next slide, please.

5 Combined license. What exactly is a
6 combined license, also commonly referred to as COL?
7 It is a combined license to construct and operate a
8 new nuclear powerplant in accordance with the law and
9 regulations. The primary laws are the Atomic Energy
10 Act and the National Environmental Policy Act, while
11 the key regulations are in Title 10 of the Code of
12 Federal Regulations.

13 Dominion submitted an application to the
14 NRC on November 27, 2007, for a combined license for
15 one reactor at the North Anna site located here in
16 Louisa County, Virginia. Dominion proposes to build
17 the additional unit, or Unit 3, adjacent to the
18 existing Units 1 and 2.

19 Next slide, please.

20 This slide presents the three primary
21 reviews for the North Anna combined license -- a site-
22 specific safety review, a review of the environmental
23 impact, and, finally, the staff is reviewing the ESBWR
24 design to determine if it is appropriate for
25 certification by rulemaking.

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1 Now, NRC regulations allow combined
2 license applications to reference what are called
3 "certified designs." These are designs that NRC has
4 reviewed generically and approved through a public
5 rulemaking process. The ESBWR reactor design is
6 currently being certified by the NRC through a
7 rulemaking.

8 Dominion, like some other COL applicants,
9 is interested in using the ESBWR design, and the COL
10 application references this design in the event it
11 gets certified. I would like to note the design
12 rulemaking process includes specific opportunities --
13 excuse me, separate and specific opportunities for
14 public notice and comment.

15 As Mr. Raione described earlier in his
16 presentation, Dominion received an early site permit
17 from the NRC in November of 2007. Much of the
18 environmental review for the combined license will be
19 based on the findings in the early site permit.

20 Next slide, please.

21 This slide presents the big picture
22 overview of the combined license review process, which
23 involves two parallel paths -- the safety review,
24 shown here along the top portion of the diagram using
25 the orange arrows, and along the bottom portion of the

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1 diagram, using the green arrows, is the environmental
2 review process.

3 Finally, you will notice the brown arrows
4 indicating the notice for hearing and hearing, which
5 is actually in the middle of the diagram. I know
6 those colors might be a bit difficult to see. Each
7 graphic in the oval shape indicates the document is
8 available for public review.

9 Next I'm going to describe all of these
10 processes, beginning with the safety review.

11 Next slide.

12 This slide outlines some of the areas of
13 our site safety review. Mr. Raione introduced Mr. Tom
14 Kevern earlier. I won't ask him to stand up again,
15 but he is the person in charge of this portion of the
16 review.

17 Some of these areas in the safety review
18 include the design of the facility. As I mentioned,
19 North Anna plans to use the ESBWR reactor design. Site
20 suitability, this describes how environmental factors,
21 such as flooding, hurricanes, and tornadoes, can
22 affect the plant design. Quality assurance. Adequate
23 physical security, which we coordinate with the
24 Department of Homeland Security. Emergency
25 preparedness conducted in consultation with FEMA or

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1 the Federal Emergency Management Agency, and, finally,
2 operator training.

3 This is to ensure that the reactor
4 operators for the potential new unit are trained in
5 operating the unit in a safe manner.

6 Next slide, please.

7 The environmental review, which is the
8 subject of today's meeting, is guided by the National
9 Environmental Policy Act of 1969, which we commonly
10 refer to as NEPA. NEPA is the federal statute which
11 requires that all federal agencies follow a systematic
12 approach in evaluating potential environmental impacts
13 associated with major federal actions which have the
14 potential to significantly affect the human
15 environment.

16 The NRC has determined that an
17 environmental impact statement, or EIS, is required
18 for issuing a combined license. In addition, the
19 Commission has determined that combined license
20 applications referencing an early site permit will
21 prepare a supplement to the early site permit EIS.
22 This will be the case for the North Anna environmental
23 review.

24 NEPA, and our supplemental environmental
25 impact statement for the combined license, are

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1 disclosure tools. They are specifically structured to
2 involve public participation and obtain public
3 comment. This meeting facilitates the public
4 participation in our environmental review.

5 Next slide, please.

6 Dominion was granted an early site permit
7 for the North Anna site in November of 2007. As the
8 NRC considered the early site permit application
9 Dominion submitted, the staff prepared this
10 environmental impact statement, "The North Anna Early
11 Site Permit EIS."

12 If you would like a copy of this document,
13 we do have electronic copies available at the NRC
14 display tables in the back of the room. Well,
15 actually, out in the hallway.

16 Now, many of the environmental issues
17 related to the construction and operation of an
18 additional unit at North Anna was analyzed and
19 resolved in the early site permit EIS. Therefore, the
20 environmental review for the combined license
21 application for North Anna Unit 3 will tier off the
22 early site permit EIS.

23 The process of incorporating analysis
24 previously conducted into a supplemental document is
25 known as tiering. For the North Anna COL

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1 environmental review, the NRC staff will tier off, or
2 incorporate by reference, the early site permit EIS
3 analyses into the supplemental EIS.

4 The scope of the combined license
5 supplemental EIS will focus on environmental issues
6 not analyzed or unresolved. An example of an
7 environmental issue not analyzed or unresolved in the
8 early site permit EIS is need for power. A need for
9 power analysis was not conducted for the early site
10 permit review, because NRC regulations do not require
11 a need for power assessment for an early site permit.

12 For issues that are evaluated and resolved
13 -- excuse me. For issues that were evaluated and
14 resolved in the early site permit EIS, the staff will
15 not reevaluate these issues unless new and significant
16 information is discovered.

17 New and significant information is
18 information that could call into question conclusions
19 previously reached in the early site permit review.
20 As part of our regulations, Dominion was required to
21 research and disclose all new and significant
22 information discovered since publication of the early
23 site permit EIS.

24 As part of our review, we will audit these
25 records, as well as perform an independent search for

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1 new and significant information. During our
2 environmental review, new information may be revealed.

3 It may not be significant. However, if new
4 information is determined to be significant, then its
5 potential effects would be evaluated and disclosed in
6 the supplemental EIS.

7 An example of an environmental impact with
8 new and significant information -- and will be
9 reevaluated in the supplemental EIS -- is transmission
10 lines. Dominion determined that changes to the
11 transmission lines are needed to support additional
12 power produced by the proposed Unit 3.

13 Next slide, please.

14 This slide is a presentation of the
15 detailed steps we will take for the environmental
16 review. Dominion submitted the environmental report
17 for the combined license to the agency on November 27,
18 2007. Next, the application was evaluated to ensure
19 that it met our technical sufficiency guidance and was
20 docketed -- excuse me, accepted and docketed by the
21 agency.

22 Once this decision was made by the NRC, we
23 issued a notice of intent on March 14th to notify the
24 public of the agency's intentions to develop an
25 environmental impact statement and to conduct scoping.

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1 Scoping is the process of providing all stakeholders
2 outside the NRC an opportunity to provide information
3 regarding issues and impacts the NRC should consider
4 during the NEPA review.

5 The notice of intent also initiates the
6 scoping public comment period. The scoping comment
7 period for the North Anna project began on March 14th,
8 and it ends on May 16th. This public meeting also
9 serves as an opportunity to provide comments, because
10 it is being transcribed.

11 The next step in the environmental review
12 is the environmental site audit or site visit.
13 Members of the NRC environmental review team have been
14 at the North Anna site and in the site vicinity this
15 week to conduct an independent evaluation of the
16 information provided by Dominion in the environmental
17 report.

18 Also, we are searching for new and
19 significant information on the issues resolved during
20 the early site permit. And, finally, we are searching
21 for new or unresolved issues.

22 For some issues, the NRC may seek to
23 obtain additional information from the applicant to
24 ensure that the record is complete. This step is
25 called request for additional information, or RAIs.

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1 Now, after reflecting on the information
2 that we obtained at the site audit, and the comments
3 received during the scoping period, the NRC will
4 develop its supplemental draft environmental impact
5 statement. That document is a draft not because it's
6 incomplete, rather because the public has not yet had
7 the opportunity to comment on it.

8 With the publication of the draft
9 supplemental EIS, this initiates another comment
10 period. We will then come back to Mineral and have a
11 public meeting explaining the results of our review
12 and collect comments on the draft environmental --
13 supplemental environmental impact statement.

14 After we evaluate comments on the draft
15 supplemental EIS, we may decide to modify it. Once we
16 complete that action, we will issue the supplemental
17 EIS as a final document. That document will be used
18 as one of several different inputs to the formal
19 hearing process, which I will provide a few more
20 details on in just a moment.

21 Our regulations require a hearing for all
22 new reactor applications. The result of the combined
23 license process is a decision by the agency on the
24 application.

25 Next slide.

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1 The environmental review is a big
2 information-gathering time for us. This slide shows
3 the various sources that we use. The key point that I
4 would like to make is that the staff's supplemental
5 EIS is an independent evaluation. So although we are
6 starting with the applicant's environmental report and
7 the early site permit, we are investigating
8 information from many other sources.

9 Next slide, please.

10 To conduct the combined license
11 environmental review, we have assembled a team with
12 backgrounds in the necessary scientific and technical
13 disciplines. The NRC has contracted with Pacific
14 Northwest National Laboratory, or PNNL, to assist us
15 in preparing the supplemental EIS.

16 The NRC team, along with PNNL contractors,
17 is combined of nationally and internationally
18 recognized experts on wide-ranging topics related to
19 environmental issues and nuclear powerplants. This
20 slide gives you an idea of some of the areas we will
21 consider during our review.

22 New and significant information regarding
23 subject matter such as these shown is what we would
24 like to hear your comments on.

25 Next slide, please.

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1 This slide shows where we are in the
2 environmental review. The application was received on
3 November 27, 2007, and notice of intent initiating the
4 scoping comment period was published on March 14,
5 2008. We are currently in the middle of the scoping
6 public comment period. It is scheduled to end on
7 May 16th.

8 We expect to address all public comments
9 received during the scoping comment period in the
10 scoping summary report set to be issued in September
11 of 2008. We plan to issue the draft supplemental EIS
12 in December of 2008, come back and present our results
13 and take comments on the draft in a public meeting in
14 February of 2009, and, finally, issue a final
15 supplemental EIS in December of 2009.

16 Next slide.

17 As I stated a few minutes ago, the
18 deadline to submit comments on the North Anna combined
19 license environmental review is May 16, 2008. And
20 there are several ways you can provide comments.

21 You can provide comments today during the
22 comment period of this meeting. You can send your
23 comments via regular mail, if perhaps you are not
24 ready to give us your comments tonight. And you can
25 also send us a comment via e-mail at the e-mail

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1 address that we have specifically set up for the North
2 Anna review, which is northanna.colaeis@nrc.gov. You
3 can also submit comments in person at the NRC
4 headquarters in Rockville, Maryland.

5 All comments received, including ones
6 received during tonight's meeting, will carry -- will
7 be excluded -- excuse me, will be included in the
8 scoping summary report and carry the same weight.

9 Next slide, please.

10 NRC regulations require a hearing for any
11 new reactor licensing application. The result of the
12 combined license process is a decision by the agency
13 on the application. An opportunity for public
14 involvement is available in the hearing process. The
15 public has 60 days from March 10th, which is May 9,
16 2008, to petition the NRC to intervene or become a
17 party to the hearing process.

18 This petition to intervene must be filed
19 electronically, and you must obtain a digital
20 certificate of approval in advance, or a waiver from
21 the digital certificate requirement. Please allow a
22 minimum of five business days to receive this digital
23 certificate.

24 Detailed instructions for e-filing are on
25 the NRC website listed on this slide and described in

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1 the hearing notice. If you would like a copy of the
2 hearing notice, please feel free to check with the NRC
3 staff members, and also there should be some on the
4 display tables out in the hallway.

5 The hearing covers both safety and
6 environmental issues. And in the last -- in recent --
7 the last few days, there has been an update regarding
8 the hearing process for North Anna. I'd like to have
9 Mr. Kevern now come up and just give us a brief
10 overview of what is happening.

11 MR. KEVERN: Thank you. Real brief
12 update. As Alicia mentioned, the -- we published on
13 March 10th in the Federal Register the notice of
14 hearing and opportunity to petition to intervene in
15 the North Anna combined license formal hearing.

16 We are issuing a supplement to that
17 notice. The purpose of the supplement is to improve
18 the availability to the public of information that is
19 referenced in the North Anna application, and
20 specifically that is going to be documentation related
21 to the ESBWR design certification application, and the
22 North Anna early site permit.

23 So in this notice that we expect to be --
24 is likely to be published in the Federal Register on
25 Monday, this coming Monday, you'll see various

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1 references, improved references to website, and
2 identification of the documentation that is -- was
3 previously identified in that notice of March 10th,
4 but is now -- more extensively identifies members of
5 the public that we think will have better access and
6 improved availability for that information that is
7 referenced in the North Anna application.

8 Thanks.

9 MS. WILLIAMSON: Next slide.

10 I would now like to take this time to
11 recap some very important public involvement
12 information. The scoping public comment period ends
13 on May 16, 2008. After the draft supplemental EIS is
14 complete, the public meeting on the draft will be held
15 here in Mineral sometime in February of 2009.

16 The opportunity for petition to intervene
17 in the hearing process closes on May 9, 2008. Please
18 keep in mind you must receive a digital certificate of
19 approval before you can file a petition, and that the
20 hearing covers both safety and environmental issues.

21 Finally, the last bullet shows the NRC web
22 page dedicated specifically to the North Anna combined
23 license project. This website can help you stay
24 informed of all the activities related to the project,
25 including any changes to the schedule and access to

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1 the draft and final supplemental EISs that will
2 document our environmental review results.

3 Next slide, please.

4 And, finally, this slide identifies me as
5 your primary point of contact at the NRC for the North
6 Anna combined license environmental review. It also
7 has Mr. Kevern, the safety and lead licensing project
8 manager's contact information. Mr. Kevern has the
9 responsibility for the overall coordination of the
10 project, in addition to the safety review.

11 Next, it identifies where documents
12 related to the North Anna environmental review may be
13 found in the local area, including libraries located
14 in Mineral, Hanover, and Fredericksburg, just to name
15 a few.

16 I will close the presentation by saying if
17 you wish to be on the environmental review mailing
18 list, make sure your name and mailing address, or
19 e-mail address, is provided to one of our NRC staff
20 members manning the registration desk out front. This
21 is one way of assuring that you will be notified of
22 upcoming meetings, and that you will get copies of the
23 draft and final supplemental EIS.

24 With that, I would like to say thank you
25 again to each and every one of you for coming out

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1 tonight, and I will now turn the microphone back over
2 to our Facilitator, Mr. Cameron.

3 FACILITATOR CAMERON: Okay. Thank you
4 very much, Alicia.

5 We have time for questions on the process.
6 Let's go right away over to Paul, and if you could
7 just introduce yourself to us.

8 MR. GUNTER: My name is Paul Gunter. I'm
9 with Beyond Nuclear, Washington, D.C. You know, could
10 somebody just give me an explanation of how the
11 process works with regard to the opportunity to
12 intervene on -- particularly with regard to
13 environmental review? That closes out on May 9th,
14 while the draft environmental impact statement
15 comments close out on May 16th.

16 So could somebody explain to me why the,
17 you know, issues involving the environmental --
18 potentially involving the environmental impact
19 statement are closed out to an opportunity to
20 intervene because the closeout of the intervention
21 date precedes the closeout to the filing of comments
22 on the DEIS. Is that clear?

23 FACILITATOR CAMERON: I think it is, Paul.
24 And we'll go back to you if we don't get you the
25 information that you need. Now, this is -- as I

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1 understand the way the process usually works is that
2 the initial intervention period is designed to focus
3 contentions on what the applicant submitted, and the
4 NRC does its safety and environmental review after
5 that.

6 And then, when those documents are
7 available, there is an opportunity for people to file
8 contentions on those documents. And, Renee, do you
9 want to offer anything on that score? Or any of our
10 environmental project managers? I think that that's
11 the way it works. Do you want to add anything,
12 Alicia? And then, we'll go back to Paul, to see if
13 that --

14 MS. WILLIAMSON: No. Chip pretty much --
15 I mean, I'll just reiterate what you said, is the fact
16 that the contentions -- or, excuse me, not the
17 contentions, but the opportunity to file a contention
18 or intervene in the hearing is based on the
19 information provided in the environmental report,
20 which is the applicant's document -- that is correct.

21 And that's mainly what that is geared for,
22 so that's why it doesn't necessarily -- they are not
23 -- they don't overlap, or they're not the -- well,
24 they do overlap, but they're not the exact same time
25 periods.

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1 The scoping period is separate from the
2 hearing process, in that we are -- the scoping period
3 is used to give the opportunity for the public to give
4 us comments on the environmental review and what they
5 have concerns about or issues about in terms of the
6 environmental report as well, but it is for us to
7 evaluate.

8 While the hearing is for information that
9 you all have concerns about, but that you want the
10 Board -- or, excuse me, the Atomic Safety and
11 Licensing Board to look at and evaluate, you want the
12 -- and the Commission to look at, not necessarily --
13 well, the staff will look at it, but that it's not --
14 that's why it is pretty much -- it doesn't overlap.

15 I think maybe -- Andy Kugler, I don't know
16 if you would like to embellish a little. Mr. Kugler
17 actually worked closely with the early site permit
18 process. He was actually a PM at one time on the
19 early site permit process, so he has the historical
20 knowledge on the early site permit proceeding. So
21 maybe he might be able just to give us a little more.

22 FACILITATOR CAMERON: Okay. It may be
23 more of the same explanation, but we'll repeat it a
24 third time. But, Paul, why don't you go ahead and
25 elaborate.

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1 MR. GUNTER: Yes. Let me just -- let me
2 just ask Andy, is it possible that, as the result of
3 broadening the scope in an EIS, that follows the
4 closing out of the opportunity for intervention, that
5 new information that might disclose that the
6 application was inadequate, the environmental report
7 was inadequate, that that new information is closed
8 out from an opportunity to address in the hearing,
9 because it doesn't come out until after the notice of
10 hearing and the 60-day time table is closed?

11 FACILITATOR CAMERON: Okay. Go ahead,
12 Andy.

13 MR. KUGLER: Well, first of all, the rules
14 are based on the contentions that are being submitted
15 by somebody who petitions to intervene -- are based
16 off of the application, both the environmental portion
17 and the safety portion of the application.

18 If at any time after the opportunity to
19 intervene has passed new information becomes available
20 under any process, whether it be our scoping process
21 or any other process, there is the option within the
22 rules to submit what's called a late-filed contention.

23 It does have a different set of criteria to be
24 admitted, and I believe the reasoning is that if
25 you're reviewing the environmental report or the

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1 safety analysis report submitted by the applicant and
2 you see that something is missing, or inaccurate, then
3 that's what the Board is asking you to -- or what the
4 opportunity to intervene is asking you to provide as
5 contentions that are proffered to us.

6 So I think the reasoning is that you would
7 be able to determine, based on the application,
8 whether something is missing or something is not
9 correct. But if new information does become
10 available, there are mechanisms to submit contentions
11 afterwards.

12 FACILITATOR CAMERON: So you will not be
13 foreclosed under the -- yes, but the -- if you look at
14 the criteria, if it -- the situation you described, it
15 should meet the criteria. And we have -- not so speak
16 now, but Renee Holmes is right here. Renee? From our
17 Office of General Counsel. And, Paul, if you could
18 talk later or call her and get a clarification on
19 that.

20 Let's go to this gentleman over here.
21 Yes, sir.

22 MR. REMMERS: Ken Remmers. I just had
23 three short questions. One, in the combined operating
24 license, does the Atomic Licensing and Safety Board
25 Panel review it, and then it goes on to the Commission

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1 for approval? And the second one was: is Dominion
2 submitting any other combined operating licenses that
3 you're reviewing at the same time as this license?
4 And, thirdly, is the scoping report going to be
5 available to the public?

6 FACILITATOR CAMERON: We can -- Alicia, do
7 you want to address the first question about what --
8 the role of the Commission vis-a-vis the Licensing
9 Board and the staff? Okay. And then, we'll go on to
10 the other two. I think they're probably yours.

11 MS. WILLIAMSON: Okay. The answer to your
12 first question about the Atomic Safety Licensing
13 Board, yes, sir, they will be reviewing the combined
14 license application. Yes, sir, and they will give
15 their recommendations to the Commission, and then the
16 Commission will then render a decision.

17 Actually, the -- I can also answer the
18 last question regarding the scoping summary report.
19 That is a publicly-available document that you will be
20 able to access. And I think I said it comes out in
21 September timeframe of 2008.

22 FACILITATOR CAMERON: And as far as you
23 know, does any of the NRC staff know if there's
24 anything else from Dominion?

25 MS. WILLIAMSON: No.

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1 FACILITATOR CAMERON: No?

2 MS. WILLIAMSON: We do not have any other
3 notices of intent or letters of intent from Dominion
4 about any additional reactors.

5 FACILITATOR CAMERON: Okay. Thank you,
6 Ken.

7 Yes, Allison? Go ahead.

8 MS. FISHER: Does the --

9 FACILITATOR CAMERON: This is Allison
10 Fisher.

11 MS. FISHER. Allison Fisher. Does the
12 scoping report, does that let people know whether or
13 not their comments are going to be included within the
14 EIS? Or how do they know that their comments are
15 being addressed?

16 FACILITATOR CAMERON: Go ahead, Alicia.

17 MS. WILLIAMSON: The scoping summary
18 report will let you know -- yes, is the answer to your
19 question. It will let you know whether or not your
20 information will be evaluated in the EIS. Yes, it
21 does. Yes.

22 FACILITATOR CAMERON: And does it explain
23 why a particular comment -- for example, let's say a
24 comment is outside the scope of the environmental
25 review?

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1 MS. WILLIAMSON: Yes. We will provide an
2 explanation if it is outside of the scope of the
3 environmental review and tell you why.

4 FACILITATOR CAMERON: Okay.

5 MS. WILLIAMSON: Okay?

6 FACILITATOR CAMERON: And will it be sent
7 out to all of the people who are here?

8 MS. WILLIAMSON: No, it will not be sent
9 out to everyone here. Only if you provide us your
10 information, we will then send you a copy of the
11 report. And you can also -- I know some folks don't
12 want us to send things to them, because they get tired
13 of all the documents that we send them sometimes. You
14 can always call me, and I will send it to you if you
15 -- particularly, everyone knows it's coming out in
16 September of 2008.

17 In addition to that, you can also check
18 our website periodically. I think that we might have
19 copies or -- of the link there where you can get a
20 hold of it as well.

21 FACILITATOR CAMERON: But if Allison, for
22 example, gave us her name and address --

23 MS. WILLIAMSON: Yes.

24 FACILITATOR CAMERON: -- tonight, she
25 would --

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1 MS. WILLIAMSON: Or her e-mail.

2 FACILITATOR CAMERON: Or e-mail. Or
3 anybody else.

4 MS. WILLIAMSON: Yes.

5 FACILITATOR CAMERON: Okay. Anybody else
6 before we go on to listening to all of your comments?
7 Oh, Paul.

8 MR. GUNTER: Could you give us a time
9 table on when we can expect to see the design
10 certification on the ESBWR? What's your anticipated
11 release date?

12 FACILITATOR CAMERON: And did we explain
13 what that acronym meant? And how many megawatts?
14 Tom? Okay. If you could just -- for people who might
15 not understand this design certification, could you
16 just give us a few words on that?

17 MR. KEVERN: Certainly. General Electric-
18 Hitachi submitted an application for the ESBWR design
19 in the fall of 2005. It was docketed. We have been
20 going through the detailed review since that time.
21 The current -- I'm going to have to waffle just a
22 little bit, because I don't know the exact date, but
23 the current expectation is that the staff's review
24 would be complete and it would -- the recommendation
25 would go to the Commission for their decision in the

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1 approximately mid-2010 timeframe.

2 The ESBWR is a boiling water reactor
3 advanced design, approximately 1,500 to 1,600
4 megawatts electric, depending on where you're
5 measuring the electrical output, whether it's internal
6 or to the grid. So between 1,500 -- 1,500 and 1,600
7 megawatts electric.

8 Did that answer your question, sir?

9 FACILITATOR CAMERON: Go ahead. Yes, go
10 ahead. Follow up.

11 MR. GUNTER: Thank you for indulging me on
12 this. So, again, we have a situation where the
13 certification will follow the closing out of the
14 opportunity for intervention. So you have, I imagine,
15 lots of requests for additional information still out
16 unanswered with regard to this design.

17 And yet the -- again, we have the
18 situation where the opportunity to raise those
19 questions, to address those issues that are still
20 open, with regard to the safety issues -- and, again,
21 this might not be in context of the -- this particular
22 session, but, you know, it just seems that these are
23 things that should be finalized before the public is
24 closed out to an opportunity to raise these things in
25 a legal format. That's all.

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1 FACILITATOR CAMERON: Anyone on the staff
2 want to address this aspect of the design that is
3 going to be finalized after the notice for petition to
4 intervene?

5 Renee, can you tell people how those
6 issues, if there are issues identified there, how
7 those will get into the hearing?

8 MS. HOLMES: Sure. First of all, this --
9 the opportunity to intervene is based on what the
10 applicant gives us. It's not based on our review. It
11 is not based on the design certification. If, in
12 fact, during that process there is new and significant
13 -- not just new information, it has to be significant
14 also -- that comes out, there is always an opportunity
15 for the public to participate.

16 The NRC wants everyone's input, you know,
17 in terms of how -- and how we get it is determined by
18 the regulations. And there is always an opportunity
19 for you to comment, but, realistically, the
20 regulations -- we would never go any further in any
21 licensing process if we had to wait for every other
22 process that is already ongoing or is being done by
23 another group within the agency to be completed.

24 But you do have plenty of opportunities,
25 and there are plenty of individuals, as well as

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1 organizations that have participated in the process,
2 after perhaps times for filing a notice to intervene
3 in the hearing have been filed.

4 So you do have more opportunities, but
5 realistically the whole idea of getting behind, you
6 know, combined operating licenses -- one of the
7 reasons behind it is, you know, to do things a little
8 faster, simplified, and still safe and still meeting
9 all of the regulatory and statutory requirements.

10 If we were to wait two years before we
11 even went to the next step, I think some of the --
12 some of our regulatory mandates from our Commission
13 might not be met also. But there is plenty of time
14 and opportunity for everyone to -- if there is indeed
15 new and significant information.

16 FACILITATOR CAMERON: And I guess the
17 license application references the design, and that
18 would be the design as finally approved. And if there
19 were implications of that final design approval for
20 site safety or environmental issues, those issues
21 would not be foreclosed from someone raising those
22 particular issues.

23 But it is a -- it is on its surface
24 confusing, and it looks like issues are being closed
25 out. So thanks for raising that issue. I don't know

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1 if we completely explained it to you.

2 Yes, ma'am. Can I -- let me squeeze in
3 here and give you this microphone. Here you are.

4 MS. CRAWFORD: Thank you. My name is
5 Barbara Crawford. I'm sure you're not going to tell
6 me that this design certification is a foregone
7 conclusion, correct? Not until it's done. So what
8 happens if it's not certified? Does Dominion have to
9 start all over?

10 FACILITATOR CAMERON: I don't want to
11 reach conclusions as the Facilitator, but you can't
12 use a design that's not certified. Tom, do you want
13 to amplify on that for us? This is Tom Kevern, Safety
14 Project Manager.

15 MR. KEVERN: The point that Chip made is
16 absolutely correct. The North Anna combined license
17 application references the ESBWR design. The ESBWR
18 design is currently being reviewed by the staff. You
19 cannot issue a combined license for a design that does
20 not exist.

21 So if the certified design is not -- or,
22 I'm sorry, if the ESBWR design is not certified, then
23 there would not be a combined license that referenced
24 that design. That would be applicable to North Anna
25 as well as the half dozen other applicants that either

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1 already have or are pending that we anticipate
2 combined license applications from.

3 MS. CRAWFORD: Then, Dominion would have
4 to start all over?

5 FACILITATOR CAMERON: Why don't you just
6 repeat that question so the transcriber --

7 MR. KEVERN: So the question was: does
8 that mean Dominion has to start all over? That's the
9 applicant's choice or option. They would not be able
10 to have a -- under the circumstances you just
11 described, they could not get a combined license for
12 an ESBWR plant, because the ESBWR design was not
13 certified. So whether they choose some other option
14 or what they do is their choice.

15 FACILITATOR CAMERON: All right. Let's
16 take one final question, and then move on to comments.
17 Do you want to add anything? Oh, okay.

18 For everyone's information, you should
19 know that, unlike the evaluation of the license
20 itself, which is done in an adjudicatory hearing, its
21 litigation, the approval of -- the certification of
22 designs is done through a rulemaking process where a
23 proposed rule will be issued and comment comes in, NRC
24 staff evaluates those comments and decides whether to
25 approve the final design. It's a rulemaking. So it's

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1 a different process.

2 Yes, sir.

3 DR. BRYAN: I'm James Bryan, Dr. James
4 Bryan. And I'm concerned about what happens with
5 concerns about safety. I submitted several concerns
6 with the -- during the first edition of the
7 environmental impact statement, and got an answer for
8 it but it really doesn't -- doesn't satisfy my
9 concerns with your evaluation of the possibility of
10 severe accidents.

11 How is this resolved if I get back an
12 answer that's fairly lengthy? I have 22 pages of
13 documents for you, but it doesn't really answer my
14 safety concerns. Where can I go with this? Is it --
15 who is the final authority?

16 FACILITATOR CAMERON: The first thing you
17 have already done, which is to submit a comment. If
18 you look at this draft environmental impact statement
19 that the staff is going to be working on, you still
20 have the same concerns, you can submit comment there.

21 You can also file a petition to intervene in the
22 hearing that we're talking about.

23 You can take the usual steps that are open
24 to anybody in terms of the political process, and
25 those are the two -- commenting on the new draft EIS

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1 and filing a petition for leave to intervene are
2 probably the best routes, I would imagine, on that.

3 DR. BRYAN: Now, will this be the third
4 draft IES -- EIS?

5 FACILITATOR CAMERON: It will be the
6 second.

7 DR. BRYAN: I've already got two.

8 FACILITATOR CAMERON: Oh, okay. Second
9 supplemental? Okay.

10 DR. BRYAN: And when will this be
11 available?

12 FACILITATOR CAMERON: When is your
13 schedule, Alicia?

14 MS. WILLIAMSON: December of 2009. But if
15 you have comments -- I'm sorry? Oh, the supplemental
16 EIS for the COL will be available December of 2009.
17 But if you have comments that you -- you can also
18 submit them through the scoping process as well. So
19 it's not just for -- on the draft supplemental EIS.
20 You can also submit them again on the scoping, which
21 is the period we're in right now.

22 FACILITATOR CAMERON: So you should really
23 submit them right now, submit them, sir.

24 DR. BRYAN: And do you have a procedure
25 written out for what was just stated, that if, for

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1 example, statistical concerns are not really
2 adequately addressed, how would I address that? Is
3 this written out someplace where it's easily available
4 and clearly available, what the --

5 FACILITATOR CAMERON: Do we have our
6 process online about submitting comments on the
7 scoping and draft EIS? Is that somewhere that's
8 written in the regulations?

9 MR. EMCH: When you're talking about --
10 hello, I'm Rich Emch. I'm a Senior Health Physicist
11 with the Nuclear Regulatory Commission. Sir, I'll
12 tell you what, let me give you my card here, because I
13 have some connection to the review process, the
14 subject area you're talking about -- severe accidents,
15 I assume. Severe accidents?

16 DR. BRYAN: Yes.

17 MR. EMCH: Okay.

18 DR. BRYAN: That's my main concern.

19 MR. EMCH: I'm guessing, from what you
20 were mentioning a moment ago, you are not satisfied
21 with some of the statistical evaluations, like core
22 damage frequency, that sort of thing. Okay. And I'll
23 tell you what, I'd be happy to speak with you after we
24 finish the meeting a little bit more about that, if
25 you'd like. So --

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1 DR. BRYAN: And do you have a procedure --
2 if I feel like your statistics are entirely
3 inadequate, how would I address that?

4 MR. EMCH: I'm sure we can get you in
5 touch with the right people, so that you can bring
6 that to their attention. Yes, sir.

7 DR. BRYAN: And I'd be able to do this
8 before some final deadline?

9 MR. EMCH: Yes.

10 DR. BRYAN: In other words, it seems like
11 we're being hit with kind of a moving target, that
12 we'll be given a revision, but we have to get our
13 comments in before the revision.

14 FACILITATOR CAMERON: I'm not sure what
15 you mean by you have to get your comments in before
16 the revision. This is scoping period. You can submit
17 -- the comments that you submitted originally, you can
18 submit them now. The staff will look at those
19 comments.

20 There will then be a draft EIS, and I
21 think the staff said December of 2009. It's really
22 December of 2008. You can submit those comments again
23 there. You can talk to Mr. Emch to get a better
24 understanding, or his colleagues, to get a better
25 understanding of why the staff response was such as it

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1 was to your comments.

2 If that can occur before the end of
3 scoping, then you may want to go back and revise those
4 original comments and submit them again. Okay? And
5 you can also file a petition to intervene in the
6 licensing proceeding. Okay.

7 MR. EMCH: Thank you.

8 FACILITATOR CAMERON: Thank you, sir.

9 Okay. We're going to go to the public
10 comment part of the meeting. And it's not only
11 important for the NRC to hear your comments, but also
12 important for all of those here in the audience and
13 the community to hear your comments.

14 And as I requested before, if you could
15 try to be as brief as possible, and we're going to be
16 using the three- to five-minute guideline, so that we
17 can get through everybody tonight.

18 I'm going to go to Senator John Watkins,
19 Senator in the Virginia Legislature.

20 SENATOR WATKINS: Mr. Cameron, thank you
21 very much. And to the staff and management of the
22 NRC, I particularly appreciate the opportunity to make
23 a comment here this evening.

24 My name is John Watkins, and I'm with the
25 10th Senatorial District in Virginia. It includes the

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1 counties of Amelia, Powhatan, most of Cumberland,
2 Chesterfield, and Goochland, which borders Louisa
3 County, the location of the North Anna power station.

4 I also have part of the City of Richmond, and part of
5 the County of Henrico.

6 I have also had the opportunity in my
7 service in the legislature to represent Virginia on
8 the Southern States Energy Board, of which I serve
9 currently as the Co-Chairman of that Board. That
10 Board represents the energy interest of some 16
11 states, including Virginia, in the southeastern United
12 States.

13 Recently, the Southern States Energy Board
14 produced a report that was entitled Nuclear Energy:
15 The Cornerstone of Southern Living Today and Tomorrow.

16 And as co-chairman of that Board, I want to call this
17 report to your attention. I think it is an important
18 report and one worthy of reading, and I will be
19 submitting it electronically for the record as a part
20 of this proceeding.

21 Some of the points that the report makes I
22 wish to reiterate at this point. One is that the
23 Southeastern Region depends on this reliable nuclear
24 energy low-cost source of electricity for 20 percent
25 of its power. While this source provides

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1 approximately 35 percent of the electricity that is
2 used here in Virginia, nuclear energy makes a
3 tremendous positive contribution to our economy and to
4 our standard of living here.

5 Some of the key points that are in this
6 report that are particularly relative to this third
7 nuclear generating station in North Anna -- there is a
8 need for a substantial amount of new generation
9 capacity here in this state. Recent estimates call
10 for an additional 4,000 megawatts within a decade in
11 order to serve the needs of Virginia.

12 The southeastern region is a well-balanced
13 mix of energy resources that help maintain reliable
14 service and act as a hedge against price volatility
15 and supply interruptions. It is important that we
16 expand generation capacity and that we maintain the
17 diversity of these sources.

18 The existing nuclear facilities in our
19 region have an outstanding safety record, and the new
20 reactor designs like those that are being proposed
21 promise to be even safer than the current designs.
22 The economic simplified boiling water reactor, or
23 ESBWR, as has been talked about earlier, was pioneered
24 by General Electric. It has been selected for the new
25 unit at North Anna. It is a third generation plus

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1 design that already has proven itself in many Asian --
2 in several Asian countries. It exceeds the safety
3 criteria set by the NRC for existing boiling water
4 reactor designs by more than 100-fold.

5 In the interest of energy security and to
6 minimize environmental impacts, nuclear must continue
7 to play a major role in supplying electrical energy
8 through upgrades in life extension of existing
9 facilities and existing units.

10 It is interesting to me to note that
11 Dominion has taken the effort and has put forth the
12 effort to have its currently licensed units extended
13 -- each of them, each of the four units -- for another
14 20 years.

15 The Virginia Energy Plan, of which I was a
16 part in drafting and getting passage of in the
17 Virginia Legislature back in 2006, calls for the needs
18 of nuclear energy here in Virginia as an important
19 capacity. Utilities are encouraged to take advantage
20 of the reforms and incentives that have been put in
21 place at the federal level.

22 Dominion is to be commended for having
23 already obtained the early site permit, the ESP, and
24 for applying under the new combined licensing for a
25 new unit here at North Anna. There are few power

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1 generating technologies that have as little adverse
2 environmental impact as nuclear plants. It produces
3 none of the Greenhouse gas emissions associated with
4 fossil fuels, nor does it generate any of the highly
5 regulated pollutants such as sulfur dioxide and
6 nitrogen oxides.

7 The adverse impact of the new unit on Lake
8 Anna will be minimal. Dominion has already committed
9 to install a \$200 million cooling system to that new
10 unit, so that the power station will not increase the
11 temperature of the water it feeds into the lake.

12 The Virginia General Assembly has gone on
13 record by putting incentives in for the production of
14 new nuclear generation plants here in Virginia, and it
15 has been supported and endorsed by Governor Kaine. I
16 want to encourage the NRC to move forward with these
17 necessary permits for a new nuclear unit here at North
18 Anna power station, so that this option is available
19 to help provide the energy that we need to sustain
20 Virginia's economy and Virginia's environment.

21 And I thank you for the opportunity to be
22 here.

23 FACILITATOR CAMERON: Thank you. Thank
24 you very much, Senator.

25 We're going to go next to Willy Harper.

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1 MR. HARPER: Thank you, Mr. Cameron. My
2 name is Willy Harper, and I'm Chairman of the Louisa
3 County Board of Supervisors. I appreciate the
4 opportunity to address you.

5 After getting here this evening, I learned
6 that a former Board Chairman is going to speak, the
7 County Administrator is going to speak, and the
8 Economic Development Director is going to speak, so I
9 should be able to be real brief with you, if you will.

10 But, obviously, Louisa County's
11 involvement with Dominion goes back to the days when
12 it was Virginia Power back in the late '60s when they
13 built this. And so through the years we've had the
14 opportunity to work with Dominion in many instances,
15 some of those involving environmental issues, and we
16 can go back to when we negotiated or worked with them
17 in the development of an onsite alternate means of
18 spent fuel storage, various fish kills perhaps through
19 times where they've helped us to understand the causes
20 behind it, what not, and have helped us with the
21 development of Louisa County's shoreline management.

22 Based on that commitment from Dominion
23 Power, and their willingness to come to the table and
24 talk to us on occasion, and also their willingness to
25 sit down when we do have issues and work them out, the

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1 Louisa County Board of Supervisors has unanimously
2 voted to support Dominion's application for a combined
3 license for Unit 3.

4 Thank you, sir.

5 FACILITATOR CAMERON: Thank you. Thank
6 you very much.

7 Lee Lintecum? I'm sorry if I didn't get
8 that right.

9 MR. LINTECUM: It's close enough for
10 government work.

11 FACILITATOR CAMERON: Yes.

12 (Laughter.)

13 MR. LINTECUM: My name is Lee Lintecum.
14 I'm the County Administrator of Louisa County. Most
15 people have never seen that name before, so they don't
16 know what to do with it.

17 (Laughter.)

18 The Board, at its April 7th meeting, went
19 on record, as Mr. Harper referred to, supporting the
20 combined permit for Dominion. But at the same time,
21 it wanted to express some concerns it had, and I have
22 a detailed letter I will submit regarding those
23 concerns. But I just want to briefly go over what
24 those concerns are.

25 One is the State Route 652 Kentucky

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1 Springs Road, which is a two-lane road. And with the
2 construction that is going to happen, and with the --
3 and then afterwards with the additional workers that
4 we're going to be able to enjoy, the question is, you
5 know, is that road adequate enough to handle the
6 traffic that's coming?

7 And we have more development coming in
8 that area, as it is -- Lake Anna is one of the growth
9 areas in Louisa County, and we're going to have to
10 face these problems. Obviously, the state currently
11 is not in a position to help us with roads, so we're
12 having to try to figure it out ourselves.

13 The second issue has to do with our school
14 population. We're getting ready to build our fourth
15 elementary school, and when it's built it will already
16 be full. So we're wondering about this influx of new
17 people, about how to play catch up in our school
18 construction, and what may be available to help us on
19 that.

20 The third concern we have is that, since
21 it is a growth area, we're going to have to some day
22 figure out how to get the public water supply in that
23 area, and what the availability of or the tributaries
24 that make up Lake Anna or Lake Anna as a possible
25 water source, we would like to discuss those with

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1 Dominion.

2 Dominion -- I've had conversations with
3 Dominion. We'll be meeting with them next week to
4 address these issues. But the Board felt that it
5 needed to go on record supporting it. We realize that
6 this plant, if it's constructed, will be a real
7 economic boom for Louisa County. But you have to get
8 there first, and getting there sometimes causes us
9 problems of playing catch up, which can be very
10 expensive.

11 But, again, the Board does support the
12 combined license. Thank you.

13 FACILITATOR CAMERON: Thank you for those
14 issues, Lee. And we're going to go to Jack Wright at
15 this point. Jack, are you here? Oh, there he is.
16 All right.

17 MR. WRIGHT: Yes. My name is Jack Wright,
18 and I'm the former Chairman that Mr. Harper referred
19 to, but currently a member of the Board, but I'm
20 speaking tonight primarily, though, as a private
21 citizen, since we have already had adequate spokesmen
22 for the county.

23 One of the issues that -- concerns I have,
24 and I think everybody does, we have -- there will be a
25 shortage of energy, and I think Senator Watkins

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1 adequately covered that, so I'm not going to touch
2 that, because I think he has made that very eloquent
3 to us -- the need for power.

4 The second area that has been touched on a
5 little bit is safety, and after 43 years in the
6 property and casualty business, that is a very key
7 thing to me and a thing close to my heart with safety.

8 And with this -- and I'm not presumptuous enough to
9 tell you how to do your work. I'm convinced that you
10 will do it thoroughly, and I'm comfortable with how
11 you approach it.

12 And one of the things I will say -- that
13 from a safety standpoint, you can make all the
14 regulations you want to, but unless you have a total
15 commitment from the organization involved, from the
16 top down, it's worthless.

17 And I will say, based on my experience
18 with Virginia Power or Dominion Power -- and I've been
19 on the Board -- this is my eleventh year on the Board,
20 and with that they have a firm commitment -- I have
21 seen it demonstrated time and again, they are totally
22 committed to have the best safety program they can
23 possibly have. And I strongly support this
24 application.

25 Thank you, sir.

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1 FACILITATOR CAMERON: Okay. Thank you,
2 Jack.

3 Our next three speakers -- we're going to
4 go to Toney Rigali, Bob Gibson, and Jack Manzari.
5 Toney?

6 MR. RIGALI: Good evening. My name is
7 Toney Rigali. I'm the President of the Virginia State
8 Building Construction Trades Council of the State of
9 Virginia. I represent thousands of construction
10 workers all over -- from this county, throughout the
11 State of Virginia.

12 And I'm here tonight in support of Unit 3.
13 I worked at Unit 1 back 35 years ago as an
14 apprentice. I served my apprenticeship at that unit.
15 And what that unit offered me was a trade for the
16 rest of my life. I've supported my family for 35
17 years. And what I'm here tonight to speak on is this
18 is going to support -- once this project starts, it's
19 going to support young kids that want to get in a
20 trade, to learn a trade, which it can support them the
21 rest of their life for their families.

22 I got laid off over there in 1982, and
23 that was sad because I had to travel out of town. But
24 I was happy; it taught me a trade. And other things
25 -- other issues, too, economic issues. I'm just going

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1 to spend just a few times bringing up on that.

2 North Anna 3 could -- is an economic
3 engine for Louisa County and the Commonwealth as a
4 whole. And Dominion -- if Dominion were to build this
5 new nuclear unit at North Anna, the company would
6 expect a workforce for more than 3,000 construction
7 workers, and that's pretty much what it took when I
8 was over there, and would require permanent workers of
9 750 high-paying permanent workers that were created
10 for the station's operation.

11 The power station currently provides
12 employment for more than 900 people. Roughly one-
13 third of these employees live in Louisa County, while
14 the rest live in Richmond, Fredericksburg, and
15 Spotsylvania County.

16 The additional unit at this station would
17 provide low-cost, reliable energy for Virginians,
18 while at the same time will provide good jobs for the
19 hard-working men and women in this region. And I
20 would like to thank you for allowing me to speak on
21 this tonight.

22 FACILITATOR CAMERON: Okay. Thank you
23 very much, sir. How about Bob, Bob Gibson?

24 MR. GIBSON: I'm Bob Gibson, Economic
25 Development Director for Louisa County. Since Mr.

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1 Wright said the county was already adequately
2 represented, I'm not sure I should speak, but I would
3 like to add a few points to our previous speaker
4 concerning the economic value of the current Dominion
5 North Anna and the third reactor.

6 In direct revenue, North Anna pays Louisa
7 County each year approximately \$11 million. And since
8 its inception, it has paid Louisa County over
9 \$230 million of direct revenue. The third nuclear
10 reactor will add millions more dollars to that, and if
11 you really want to see the impact just look at our new
12 schools and our fire trucks and police cars and the
13 services that this revenue provides our county.

14 The second point I'd like to make is, like
15 our previous speaker said, 300 -- approximately 300 of
16 the 900 workers live in Louisa County. The average
17 salary of these workers is \$60,500. That equates to
18 an annual payroll of Louisa County citizens of over
19 \$18 million.

20 The new reactor is going to employ 750
21 people. If the same ratio applies, that means 250 of
22 these jobs will go to Louisa County citizens, and with
23 the same average payroll that's an additional
24 \$15 million annually of payroll in Louisa County for
25 Louisa County citizens.

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1 Taken together, that is over \$33 million
2 of payroll within Louisa County, and keep in mind this
3 money changes hands several times before it leaves
4 Louisa County, so which will mean several million
5 dollars more of additional indirect revenue for the
6 county.

7 And, third, I would like to again bring
8 out the point that a previous speaker made of the
9 3,000 construction workers coming into Louisa County.

10 You know, the word "surge" is kind of popular these
11 days in the United States, but this is going to be an
12 economic development surge for the county, because
13 these workers are going to get paid and probably a
14 pretty good salary, and they're going to rent homes,
15 they're going to buy homes, they're going to buy
16 groceries, they're going to buy automobiles and trucks
17 and every other type of retail purchase in our county.

18 So this is going to mean additional revenue for our
19 county.

20 And I guess the final thing that I want to
21 leave with you -- and I want to say this as strongly
22 as I can -- that Dominion North Anna is the most
23 important economic development project in the history
24 of Louisa County, more so than the railroads in the
25 19th century or the interstate highways in the 20th

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1 century. This is the most important economic
2 development project in the history of our county.

3 Thank you.

4 FACILITATOR CAMERON: Thank you, Bob.

5 Jack? Jack Manzari? Oh, there he is.

6 MR. MANZARI: You did great with my name,
7 and we really appreciated what Bob said. My name is
8 Jack Manzari. I'm a retired physician, and I'm a
9 director of the Louisa County Chamber of Commerce and
10 am representing them this evening.

11 We support the construction of North Anna
12 Unit 3, with its associated cooling tower. The United
13 States, and Virginia in particular, has an ever-
14 increasing need for electric power. In order to
15 maintain our economic prosperity, we must continue to
16 develop new sources of energy -- electricity -- as
17 well as conserve as much as possible. This new unit
18 will help in meeting that increased need.

19 I would also compliment Dominion in its
20 efforts to educate the public on conservation, which
21 is a very important issue. Nuclear energy has been
22 used safely throughout the world, and Dominion has
23 lived up to all of the safety standards required of
24 them.

25 Nuclear energy seems to be the best

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1 vehicle to produce energy in that it does not produce
2 any of the Greenhouse gases associated with other
3 fossil fuel generation.

4 The North Anna power station has also been
5 -- had a positive impact on the county. I don't think
6 I could add anything to what Bob just said. However,
7 the county has benefitted economically from the --
8 through the increased tax base and increased numbers
9 of employees.

10 We support the development of the new unit
11 on the basis of the need for electricity, which is
12 safe and has a positive impact on the country in
13 general and the county specifically.

14 Thank you for allowing me to speak.

15 FACILITATOR CAMERON: Thank you very much,
16 Jack.

17 We're going to go next to Ken Remmers,
18 Jerry Rosenthal, and Paul Gunter. Ken?

19 MR. REMMERS: Good evening. My name is
20 Ken Remmers, and I am the Water Control or Water
21 Quality Chairman of LACA and President of Waterside
22 Property Owners Association. Some of you may see me
23 around. I and my teams go out and measure the water
24 quality of the lake all over the lake, both the warm
25 side and the cold side. And I have a few what I

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1 consider to be some new significant information I want
2 to talk to you about tonight, just four items.

3 The first one is now that the economically
4 simplified boiling water reactor has been selected by
5 Dominion, the issue of cooling the third reactor can
6 now carefully be reviewed. The once passthrough
7 cooling was rejected in the EIS ESP because of the
8 water temperature. It heated the lake up too much.

9 The current proposed cooling is a
10 combination of wet/dry cooling tower, which introduces
11 significant evaporation of the water in Lake Anna
12 reservoir, up to 16.6 million gallons a day of water
13 in the maximum water conservation mode.

14 Several state agencies -- DGIF, VDEQ,
15 Division of Water Resources, DCR, and many other
16 public sources such as the Lake Level Task Force
17 Committee, which is a group of organizations and
18 associations around the lake -- LACA, FOLA, LABERA,
19 and many other businesses around the lake -- have
20 objected to this high evaporation rate. It takes away
21 the water in the lake very significantly.

22 A new fresh look at cooling technologies
23 needs to be performed, specifically the hybrid cooling
24 process, will only remove up to one-third of the heat
25 of the entire system during the hot humid days. The

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1 other two-thirds will be done by wet cooling with
2 large evaporation -- the 16.6 million gallons a day.

3 In contrast, dry cooling technology would
4 consume only about 5 to 10 percent of that amount.
5 Despite this enormous water savings, most of the
6 cooling for new powerplants primarily use wet cooling.

7 This is because on hot days dry cooling can lead to
8 increased turbine back pressure that prevents a plant
9 from generating at its full rated capacity.

10 This problem is compounded because the hot
11 days are precisely when the electric demand is the
12 highest. The hot day performance problem with a dry
13 cooled unit can be alleviated by using a technique
14 such as small water supplemental cooling as needed.
15 One such method is recommended by PIER Energy-Related
16 Environmental Research -- to introduce a small amount
17 of water spray in the cooling tower inlet stream where
18 it evaporates and cools the air, and such studies have
19 shown that reducing the inlet air temperature, even by
20 a few degrees, can maintain much of the plant's output
21 during hot hours.

22 This is just one of many dry cooling
23 examples which are currently being used in the USA and
24 worldwide. No such studies of dry cooling were
25 performed in the ESP EIS, because the PPE did not

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1 define this specific reactor design.

2 Second item -- plan 3 was considered in a
3 stand-alone condition. No consideration was made for
4 the alternative of installing additional water
5 conservation measures to the existing power reactors
6 of Unit 1 and 2, to compensate or mitigate against the
7 significant, adverse, incremental impacts caused by
8 Unit 3.

9 Judge Karlin of the Atomic Licensing
10 Safety Board Panel stated that some of the once-
11 through cooling water from Unit 1 and 2 could be
12 diverted to the cooling tower used for Unit 3. While
13 this diversion would be small, it would offset some of
14 the impacts of Unit 3.

15 He rejected NRC staff position that such
16 an offset per se is unreasonable under NEPA. He
17 stated there is no dispute that the NEPA alternative
18 analysis is the heart of the environmental impact
19 statement. When a company operates in an existing
20 facility and emits pollution and/or has environmental
21 impacts, it is common for regulators to at least
22 consider, and sometimes impose, additional
23 environmental controls on existing units as a
24 tradeoff.

25 Judge Karlin stated, "It seems to me that

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1 creative nuclear engineers and environmental
2 scientists, if properly motivated, might very well
3 propose a realistic offset or mitigation measures that
4 could be applied to the preexisting reactors at the
5 same site." This is significant new information.

6 Third item -- the NRC's report on the
7 North Anna early site permit water budget model, lake
8 WHTS, for Lake Anna in January of 2005 is
9 insufficient, and significant new information can come
10 from an update water budget model. This study was
11 performed before the change in the cooling technique
12 to wet/dry cooling hybrid systems, and only looked at
13 once passthrough and totally wet cooling.

14 The study should be redone to include
15 hybrid and totally dry cooling systems. Once again,
16 this study indicated that the travel time for the
17 water to circulate from the discharge, all the way
18 back to the intake of the plant, was not available for
19 this study. This critical information should be
20 collected at least in the waste heat treatment
21 facility, so that accurate predictions can be made on
22 that study.

23 The study does not address temperature.
24 In response to a question by NRC, Dominion stated on a
25 long-term basis the average temperature of the cooling

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1 lake, due to the reduced lake level from Unit 3, has
2 been estimated to be less than one-tenth of a degree
3 Fahrenheit. The so-called long-term effects is not
4 where the problem exists. The hot summer months need
5 to be evaluated for temperature change.

6 No calculations were provided by Dominion.

7 It was only estimated. The calculation for the
8 summertime period should be performed by Dominion, and
9 independent calculations done by NRC. Unit 1 and 2
10 will heat the water, less amounts -- less amounts of
11 water faster, and return time for recycling will be
12 shortened during the problematic hot summer months.
13 This temperature needs to be investigated more
14 carefully.

15 And, finally, Dominion has proposed a new
16 waste heat treatment facility for Unit 3. This is new
17 and significant information. The effluent would be
18 discharged into the waste heat treatment facility of
19 Lake Anna. The current waste treatment facility for
20 Units 1 and 2 already discharge into the lake, and we
21 would oppose a new discharge.

22 Why can't the current treatment plant
23 support the new Unit 3? Is it up to capacity already?

24 Is the size of the proposed new waste treatment plant
25 larger than needed? Or would it replace the Units 1

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1 and 2 treatment plant? Why can't new techniques be
2 used where the effluent is not dumped into the lake?

3 Thank you very much for your attention.

4 FACILITATOR CAMERON: Okay. Thank you.
5 Thank you, Ken.

6 MR. REMMERS: And I've got a copy of my --

7 FACILITATOR CAMERON: Good. And we'll
8 make a copy of this, and then we'll put it on the
9 transcript.

10 Jerry? This is Jerry Rosenthal.

11 MR. ROSENTHAL: Thank you. There is a lot
12 of stuff that's going on. Lake Anna Civic Association
13 and the Friends of Lake Anna and a lot of people right
14 around the lake are doing a great job of dealing with
15 water issues. And I think, again, not much needs to
16 be said.

17 One thing that we haven't talked about
18 here is our CO2 impact. And everybody keeps saying
19 this is a carbon-free source of energy. There are no
20 carbon-free sources of generation. Zero, none. It's
21 boring to hear them say, "This is carbon-free," so
22 let's get on with it.

23 You want to go? Hit a site ieer.org, and
24 it will tell you pretty much where the carbon is.
25 When you pour concrete, you make carbon. There is a

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1 lot of concrete that goes into the plant. A quick
2 study should be done showing how much is being used
3 after one year, three years, five years, 10 years.
4 Show how much carbon is put in before one little
5 kilowatt comes out.

6 We can also do a CO2 impact just of this
7 process. How many NRC people drove down here? How
8 much paper is being used? We ought to know. This is
9 part of our carbon end stuff.

10 Let's look at the economic review. When
11 we talk about the cost of nuclear power, it is not
12 just Dominion's cost. Taxpayers -- every time
13 somebody in the nuclear industry opens their mouth,
14 they want to put their hand in your pocket and take it
15 out with your money. It's taxpayer money.

16 So let's add it all up. Let's find out
17 where all these costs are. We've got the utility
18 cost, we've got the fed cost, we've got waste, we've
19 got high-level waste, we've got low-level waste.
20 We've got insurance, we've got subsidies. Let's add
21 it up, so that we can have a true site.

22 Again, it's right there on the web. Go to
23 IEER.org, pick it up. You'll get some good
24 information.

25 Another thing we have to look at is our

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1 good old friends, the NRC. How have they been doing?

2 What are their responsibilities? What has been their
3 record? What are they responsible for? Well, they're
4 responsible for low-level waste. What's the record?
5 Pretty bad. Zero out of eight. No low-level sites
6 selected. North Anna doesn't have anywhere for the
7 low-level waste to go, and they want to put more here.

8 High-level waste -- 1982 is when it
9 started. Ten years behind at this date, estimated 20
10 years behind and it's not ever going to open. Where
11 are they going to put the waste? They don't want to
12 talk about this.

13 And independent sources -- NRC talks --
14 oh, safety. We talk about safety. One of the safety
15 rules that the NRC has put for Louisa County, they are
16 to distribute KI, potassium iodide, in the event of an
17 accident. Our potassium iodide has expired 18 months
18 ago. It has been brought up. Where is the NRC?
19 Distributing this. These are the safety concerns of
20 this organization?

21 We don't have the mandatory items right at
22 our hand. Let's use some real independent sources
23 when they're getting information. PNNL is -- it's a
24 joke organization. Let's get some independent
25 organizations in here to do some real work to get the

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1 information to the NRC and move forward.

2 The NRC's goals are the adequate
3 protection of human health and safety, to promote the
4 common defense and security, and to protect the
5 environment. They're not doing a very good job, and
6 we all know it. We need to sit back, take a deep
7 breath, and use some good common sense.

8 Thank you.

9 FACILITATOR CAMERON: Okay.

10 (Applause.)

11 Thank you, Jerry.

12 We next have Paul Gunter.

13 MR. GUNTER: Thanks, Chip. My name is
14 Paul Gunter. I'm Director of the Reactor Oversight
15 Project with Beyond Nuclear at the Nuclear Policy
16 Research Institute in Takoma Park, Maryland.

17 I'd like to start out by saying that the
18 EIS -- I think one of the primary purposes of the EIS
19 is to provide a clear, reasoned, and transparent cost-
20 benefit analysis. And so we believe that this EIS
21 should include a full range of cost estimates for the
22 projected construction of the ESBWR, rather than hold
23 those costs as propriety information.

24 So I think that it's vital, and
25 particularly in terms of providing public credibility

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1 to this whole process, that the EIS -- first of all,
2 take a look at the fact that since the early site
3 permit process was completed, that the cost
4 projections for nuclear power have gone up by about
5 300 to 400 percent.

6 Right now, the latest estimate that we've
7 seen was provided in discovery documents as a result
8 of Florida Power and Light disclosures to the Florida
9 Public Service Commission where now we're looking at
10 projected costs of anywhere from \$5,500 per kilowatt
11 to more than \$8,000 per kilowatt hour for new nuclear
12 construction.

13 So if you convert that to about a 1,500
14 megawatt reactor, that is anywhere from between
15 \$6 billion to \$12 billion for a new reactor. Clearly,
16 this should be taken into consideration in terms of
17 the cost-benefit analysis.

18 We would fully concur with Jerry's
19 comments with regard to radioactive waste. The EIS
20 particularly needs to include the fact that -- and
21 assume that there will be no available repository for
22 the full operating lifetime of this reactor, this
23 proposed reactor, and to consider the consequences of
24 onsite storage in perpetuity there on Lake Anna.

25 This would also apply to -- again, to what

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1 Jerry pointed out, was that as of June 2008, South
2 Carolina will be closing the Barnwell low-level
3 radioactive waste facility to Virginia, and so the EIS
4 consequently, since there are no other sites, I
5 believe it's the responsibility of the EIS to fully
6 account for the consequences of onsite storage of low-
7 level -- so-called low-level radioactive waste.

8 I would also like to address the issue in
9 context of emergency planning. It was brought out
10 earlier that this is a high growth area. That growth
11 affects emergency planning. And, clearly, one of the
12 concerns that we have, again supporting what Jerry
13 said, but amplifying on it, Congress passed in 2002 a
14 public law which requires the distribution of
15 potassium iodide out to 20 miles.

16 So Jerry's point that it's not being
17 provided out to 10 miles currently is amplified by the
18 fact that the Nuclear Regulatory Commission and the
19 Department of Homeland Security have not complied with
20 the Congressional law as it provides to the
21 Bioterrorism Protection Act.

22 We have ongoing concerns with regard to
23 security issues, in particular the fact that there is
24 -- we will be watching very closely the design
25 certification process in context of a new rulemaking,

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1 which you might be aware of, that new designs that
2 have not been certified will be required to address
3 aircraft impact hazards analysis as a result of the
4 9/11 crash.

5 Now, the ESBWR will have to go through
6 that process, although the criteria have not been
7 established at this point. However, the North Anna
8 sites 1 and 2 have been exempted from any reanalysis
9 on aircraft impact hazards analysis, so our concern is
10 that the EIS should fully address the consequences of
11 an aircraft attack, a crash, on Units 1 and 2 and its
12 impact on the safe operations of Unit 3.

13 Thanks.

14 FACILITATOR CAMERON: Thank you. Thank
15 you very much, Paul.

16 Our next three speakers -- James O'Hanlon
17 and Charles Tribble and Kenneth Moore.

18 MR. O'HANLON: Good evening. Thank you.
19 My name is Jim O'Hanlon, and I'm here tonight in
20 support of the construction operating license for
21 North Anna Unit 3.

22 I retired from Dominion Resources in 2003
23 after working for the company for 13 years. At the
24 time of my retirement, I was the President and Chief
25 Operating Officer of Dominion Energy, where my

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1 responsibilities included all aspects of operations
2 and management for nuclear, fossil, and hydro
3 generation plants, as well as the gas transmission and
4 storage systems.

5 My earlier positions with Dominion
6 included Senior Vice President and Chief Nuclear
7 Officer for four -- five years, Vice President of
8 Nuclear Operations, and Vice President of Nuclear
9 Services. Prior to joining Dominion, I had various
10 positions in operations engineering and management for
11 both the utility industry and the United States Navy.

12 Nuclear power is a safe and effective way
13 to generate reliable energy. As is already mentioned,
14 this additional unit at North Anna would generate more
15 than 1,500 megawatts net of electricity, enough power
16 to -- enough energy to power the equivalent of 375,000
17 homes.

18 Safety is Dominion's top priority. At
19 North Anna power station, safety is planned into all
20 work activities. Safe work practices are reinforced
21 through training and continuous improvement measures.

22 The Nuclear Regulatory Commission, the Institute of
23 Nuclear Power Operations, and the World Association of
24 Nuclear Operators, gives North Anna station high marks
25 in safety.

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1 The Nuclear Regulatory Commission oversees
2 every aspect of operation at North Anna power station
3 and has two resident inspectors working at the station
4 daily to ensure that the station is operating safely
5 at all times.

6 Not only would the reactor -- the third
7 reactor at North Anna provide safe and reliable
8 energy, it would do so while protecting the
9 environment. The new reactor at North Anna will not
10 increase the temperature of Lake Anna.

11 After concerns were raised by -- of the
12 potential thermal impact of a new reactor, Dominion
13 committed to change the design to include cooling
14 towers. The NRC reviewed a number of environmental
15 issues during the early site permit process and
16 addressed them satisfactorily in the environmental
17 impact statement.

18 During the EIS review period, Dominion
19 worked with the NRC, state agencies and other
20 stakeholders to resolve those environmental issues.
21 There is no need to revisit these issues again during
22 the COL process.

23 In closing, let me say that Virginia needs
24 a balanced strategy moving forward to meet our
25 increasing energy needs, while at the same time being

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1 mindful of the environment. The third unit at North
2 Anna is a key component of this responsible and
3 balanced strategy.

4 Thank you for the opportunity to speak.

5 FACILITATOR CAMERON: Thank you, Jim.

6 And this is Charles -- Charles Tribble?

7 MR. TRIBLE: Hi. My name is Charles
8 Tribble. I am a retiree from Virginia Power. I'm also
9 a CPA and an attorney. I'm here tonight in support of
10 the third unit at North Anna/Lake Anna.

11 I think it is important to support energy
12 development right here in Virginia to ensure that
13 electric service remains affordable and reliable. As
14 Dominion's lowest cost source of baseload electricity,
15 nuclear is important to the economic well being of
16 Virginians and to the economy of the Commonwealth.

17 North Anna power station, as has been
18 stated, has paid over \$230 million in taxes to Louisa
19 County, and I am informed that the taxes would more
20 than double after this third unit goes into operation.

21 With respect to environmental impacts, I'm
22 certainly no environmentalist as such. I don't have
23 the training in that area, but I do note that the site
24 has already been approved and that nuclear units have
25 already been operating here for over 30 years. The

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1 transmission lines are already in place to move the
2 power, so there is no need to build additional
3 transmission.

4 There is less thermal impact, of course,
5 from nuclear than any other source of fuel. With
6 respect to the growth in the Commonwealth as being an
7 environmental impact, when I started with Virginia
8 Power in 1984, that winter we just reached 10,000
9 megawatt hours as a peak load. Last fall, last
10 summer, we reached almost 20,000 megawatt hours as a
11 peak load, so we doubled from '84 to '07.

12 The projections indicate that we will
13 double again by 2030. That's 40,000 megawatts. Now,
14 we all talk about conservation and, you know, I've got
15 some of those little lightbulbs that burn less energy,
16 and I tend to cut off lights when I leave rooms, like
17 I was taught. But at the same time, we can't get
18 there with conservation. We can help, but we can't
19 get there. We've got to have additional energy.

20 There was a conference in Washington a
21 couple of weeks ago, and there was a piece in the
22 Richmond paper, and let me just quote briefly from
23 that. It says Representative John Dingell, Democrat,
24 Michigan, Chairman of the House Energy and Commerce
25 Committee, and I quote, said, "The future of this

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1 country is dark without nuclear power."

2 And he went on to indicate that the cost
3 of the oil that we are buying abroad by 2030 will
4 equal \$8.5 trillion. Now, this is money that is going
5 outside the United States instead of staying here.

6 Nuclear power is vital, it's much cheaper
7 than the alternatives, it's already here, it has been
8 safe for 30-some years here in Louisa County, and I
9 understand that the GE new ESBWR design is even more
10 efficient. This is a critical investment, because it
11 will provide increased generating capacity while not
12 producing any greenhouse gas emissions in a time when
13 carbon regulations are inevitable. Nuclear is a key
14 component of a balanced energy strategy moving
15 forward.

16 Thank you for the opportunity to comment.

17 FACILITATOR CAMERON: Thank you for those
18 comments. Next is Kenneth, Kenneth Moore?

19 MR. MOORE: Good evening. My name is
20 Kenneth Moore, and I'm here in support of the
21 continued -- combined operating license for North
22 Anna 3.

23 In my career at Virginia Power, which
24 extends for over 30 years -- and I retired in 1998 as
25 the Vice President of Fossil and Hydro Services -- I

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1 had a number of assignments. But one of the early
2 ones when I first came to work for the company was on
3 the site selection and licensing of the North Anna
4 Reservoir.

5 I had a number of other assignments,
6 mainly in construction, but a later assignment was,
7 ironically, on the original North Anna 3, which was,
8 of course, subsequently cancelled.

9 As a registered engineer in Virginia, and
10 a former executive of Dominion, I would like to point
11 out several reasons why the combined operating license
12 ought to be supported. First, Virginia is in a
13 deficit as far as generating capacity is concerned.
14 The generation gap is projected to be about 4,000
15 megawatts by 2017, and that goes well beyond already
16 significant ability to import power from other states.

17 In order to keep Virginia's growing energy
18 needs and keep rates stable, we surely need to have a
19 strong investment in baseload energy sources within
20 the Commonwealth.

21 Secondly, through the early site
22 permitting process, the NRC conducted a thorough
23 review of the environmental impact a new nuclear unit
24 would have on the North Anna site, and determined that
25 a new reactor can safely be sited and operated in a

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1 way that will have minimal effect on the environment.

2 A new reactor at North Anna will not have
3 a significant impact on Lake Anna. In response to
4 concerns raised by the Department of Environmental
5 Quality and local citizens, as you have already heard,
6 Dominion committed to install a \$200 million plus
7 cooling system that will allow the temperature of the
8 lake not to be affected, not even in the company-owned
9 waste heat treatment facility, the cooling lagoons
10 that are adjacent to North Anna.

11 Nuclear generation in general, and North
12 Anna in particular, will of course help protect the
13 environment. Nuclear is the only baseload source
14 available at a reasonable cost to produce reliable
15 power without significant greenhouse gas emissions.

16 Lastly, I would like to point out what
17 others have already said, and I certainly experienced
18 in construction not only at North Anna but in other
19 sites around the state, construction will -- and
20 operation of this unit will really continue to be a
21 Godsend to the area in general, and to Louisa County
22 in particular. So North Anna plays a particular role
23 in Virginia's economy overall, and Dominion -- and
24 it's Dominion's lowest cost of baseload generation and
25 will continue to be for the foreseeable future.

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1 Thank you for the opportunity to let me
2 comment tonight.

3 FACILITATOR CAMERON: Yes. Thank you,
4 Kenneth.

5 Could we go to Larry Ellis, James Bryan,
6 and Kelly Taylor?

7 MR. ELLIS: Good evening. My name is
8 Larry Ellis, and I'm here tonight to also speak in
9 favor of the combined operating license for the third
10 reactor at North Anna. I retired from Dominion
11 Virginia Power in 1997 after working there for over 35
12 years.

13 At the time of my retirement, I was Senior
14 Vice President of Power Supply and Planning. Prior to
15 that, I was Senior Vice President of Energy Services
16 and Senior Vice President of Power Operations and
17 Planning.

18 At one time or another in these
19 capacities, I was responsible for the operation of the
20 company's bulk power supply system, the planning for
21 future generation and transmission to meet future
22 customer load, the operation of the company's fossil
23 and hydro generating facilities, and the acquisition
24 of power from non-company suppliers.

25 Since my time with the company, the

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1 state's energy needs have continued to grow due to
2 Virginia's growing economy and population. It is
3 projected that Dominion's Virginia service territory
4 will require an additional 4,000 megawatts in the next
5 decade. The state currently is the second largest
6 importer of electricity, second only to California.
7 Because 30 percent of the electricity currently used
8 in Virginia is imported, Virginians are more
9 vulnerable to price volatility in the electricity
10 market.

11 In order to keep rates stable, there is a
12 significant need for investment in a diverse mix of
13 generation within the state. Nuclear energy is an
14 important part of this energy mix, because today it is
15 Dominion's lowest source of baseload electricity.

16 Not only will the third reactor at North
17 Anna provide affordable baseload power, but it will do
18 so in a safe, environmentally acceptable manner.

19 As we have already heard tonight, the NRC
20 has already approved -- conducted a very thorough
21 review of the environmental impact a new nuke unit
22 would have on North Anna -- at North Anna through the
23 early site permitting process.

24 The NRC has determined that a new reactor
25 can be safely sited and operated in a way that will

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1 have minimal impact on the environment. As part of
2 the early site permit environmental review process,
3 Dominion agreed to build a cooling tower instead of
4 using once-through cooling from Lake Anna.

5 Dominion has indicated -- demonstrated
6 that it is a good neighbor by changing its plans for
7 cooling so that no additional heat will be placed in
8 North Anna -- in Lake Anna.

9 The company has embraced policies and
10 technologies, worked hand in hand with protecting our
11 environment, and at the same time they continued to
12 demonstrate that this third unit at North Anna will
13 continue to implement those policies.

14 Thank you for giving me the opportunity to
15 comment in support of the COL tonight.

16 FACILITATOR CAMERON: Thank you. Thank
17 you for those comments.

18 Mr. Bryan? Dr. Bryan? This is James
19 Bryan, right?

20 DR. BRYAN: Right. I am Dr. Bryan, Dr.
21 James Bryan. I'm not a statistician. I'm not a
22 nuclear scientist, but I have done some work in
23 science, and I'm concerned about some aspects of this
24 proposal.

25 I spent a good bit of time looking at

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1 graduate students' research and research proposals,
2 and I seem to have a knack at putting my finger on
3 stuff that just didn't make sense. And, in fact, I've
4 done this in several different countries, and even in
5 languages I didn't understand very well. And this, to
6 me, is just as glaring as anything I've run into
7 anywhere.

8 When I read about the risk assessment of
9 severe accidents in the environment impact statement
10 prepared here, and specifically in Table 518, which I
11 think was renumbered, but it's -- it was reviewed
12 somewhat in response to public comments on that
13 section in Volume 2, Section 3.14.3, Severe Accidents.

14 And here I quote, "A severe accident
15 without loss of containment for an advanced boiling
16 water reactor is estimated to have a core damage
17 frequency of 1.34 times 10^{-7} ." That is 1.34 of the
18 severe accidents in 10 million years.

19 Now, how in the world are you predicting
20 10 million years from here? It just -- it's -- my
21 algebra teacher, when I was in ninth grade -- and this
22 was quite a few years ago -- said, "You can't
23 extrapolate way beyond your data."

24 And I found this true when I did my
25 master's degree. I found this true when I did my

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1 doctorate. You can't extrapolate like this. What are
2 you doing thinking about 10 million years from now,
3 and there is a likelihood of 1.34 accidents, severe
4 accidents, in the proposed plant.

5 I object also to the using two decimal
6 points. It gives an illusion of -- that you know what
7 you're doing. And I have to say these two decimal
8 points do not give any additional information. You
9 don't have any idea, even to -- even to an order of
10 magnitude, and to put in 1.34, this is -- this is a
11 problem we've got in this country.

12 Right now, we have a problem of wishful
13 thinking replacing careful observation, and it's
14 exacerbated by a lot of money going beyond desired
15 decisions, it's exacerbated by a lot of political
16 control where political people come and overrule the
17 careful scientific observations in many different
18 fields of science.

19 And I believe that we have -- this is just
20 too important an issue to let wishful thinking replace
21 careful analysis. And I'm afraid that's what has been
22 happening here. It's -- I'm not a statistician, but
23 this just does not make sense, to have this type of
24 extrapolation from the data.

25 Now, looking a little further at the same

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1 data, there is another problem. And that's that when
2 they do their analysis they leave out Three Mile
3 Island. And if you read the explanation for it, Three
4 Mile Island Reactor Number 2 is left out of the data
5 set, and this accident -- this absence, I thought it
6 was an accident.

7 But they answer -- Three Mile Island,
8 Unit 2 is not among the current generation reactors
9 included in preparation of Table 522, because it is no
10 longer in operation. Well, do you want to make your
11 basis of thinking the elimination of your most
12 significant accident? That's scary. That's scary.

13 I propose this does not rise to the level
14 of science. This is in the area of fantasy and
15 wishful thinking, and it's dangerous.

16 My third concern about the safety issue is
17 the human error problem. And within the reports, the
18 NRC says that they are taking into consideration human
19 error. Human error has been the problem at Chernobyl,
20 it has been the problem at Three Mile Island, it has
21 been the problem in Japanese reactors. And one of the
22 main human reactors -- one of the main human errors
23 has been when they have neglected to do the safety
24 checks, the analyses that they needed to do.

25 Now, you may say, "Oh, this is Russia.

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1 This is Japan. This is not the United States." Well,
2 right this month we have got airlines not being
3 inspected when they needed to be inspected. We all
4 know about that. There may be some people in this
5 room that have been grounded for it. Fortunately, no
6 one has been damaged by it, as far as I know.

7 But leaving out the safety inspections
8 that are mandated has been a worldwide problem, and it
9 has not been absent here in the States either.

10 You've got to pay more attention to human
11 error. It's a human characteristic. It's just as
12 part of us as breathing, is that we make mistakes. We
13 try to take shortcuts. We try to do things the easy
14 way. When there are safeguards, we figure out ways to
15 make it -- to overlook them. And this has to be part
16 of a solid safety analysis is human error.

17 Thank you very much.

18 FACILITATOR CAMERON: Okay. Thank you.

19 Kelly?

20 (Applause.)

21 And then, we're going to go to Rebecca
22 Fawls and Michael Stuart.

23 MS. TAYLOR: Thank you for the opportunity
24 to speak here this evening. My name is Kelly Taylor.
25 I'm here representing myself. I'm a private citizen

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1 and a resident of Louisa County.

2 I'd like to point out to -- as the NRC
3 knows, and to members of the audience, that when you
4 talk about rising fuel costs, the rising cost of
5 concrete, the rising cost of metal, and you talk about
6 the skyrocketing expenses that are involved in
7 building a potential North Anna Unit 3, those same
8 skyrocketing costs would apply to any baseload energy
9 that you want to put in.

10 It would be the same if you were trying to
11 build a fossil station, coal station, whether it was
12 an oil station or natural gas. Those expenses are
13 going to be the same regardless of what type of fuel
14 that you decide to put in. So while you're selecting
15 what kind of fuel supply for the electricity you are
16 going to use, I appreciate the fact that Dominion has
17 selected nuclear for this county for the upcoming
18 generations, because of its decreased carbon dioxide
19 emissions and because of the cleaner air that is a
20 result for myself and my family.

21 When you talk about opposing a new
22 discharge effluent path into the lake, that you don't
23 want to put the water back in the lake, it seems to me
24 contradictory if you're going to say that and then
25 talk about water balanced studies, and so on and so

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1 forth. If you're not going to put the water back in
2 the lake, what are you going to do for it? What are
3 you going to do with it?

4 You're going to increase how much water
5 you're taking out of the lake. And if the water is
6 clean enough and meets the government's standards and
7 the EPA standards and the state standards, in all the
8 studies that are done, why wouldn't you put the water
9 back in the lake so that we can use it for the water
10 table, so we can use it for the downstream effluence?

11 Why would you just randomly say, no, don't put this
12 water back in the lake, and somebody else figure out
13 what to do with it. It is not a consistent argument,
14 or it doesn't -- it doesn't sound that way to me.

15 For those who wish studies to be redone
16 because the water balance studies don't account for
17 the improved cooling design for the decreased
18 evaporation rates for the reduction in heat that is
19 trajected back into the lake, then I would submit that
20 you are asking to spend money for no benefit, since
21 the increase -- since the improved design is actually
22 more conservative than the one that the studies were
23 done for.

24 For those who would talk about the
25 difference between the long-term cooling versus the

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1 short-term cooling in the summer months when the
2 cooling is most critical, I would submit that I like
3 using the power the other 350 days a year, and I would
4 appreciate the fact that the plant goes in so that
5 it's available for use whenever we need it. And if
6 there are periods in the summer months where we have
7 issues meeting those, I would say the long-term
8 benefit will override those short-term concerns.

9 When we talk about a balanced energy
10 portfolio, and we need diverse sources, we need the
11 renewables, we need to do more conservation, we need
12 to maintain the fraction of our power that comes from
13 nuclear because of its low CO2 emissions. We need to
14 not replace that with something that is more damaging
15 to the environment than nuclear is.

16 I would also submit to you that the long-
17 term studies that talk about the increase in baseload
18 use in Virginia probably do not account for another
19 move that we really need to make, which is more
20 electric vehicles. That doesn't figure into any of
21 the baseload studies. So if you want to replace what
22 we're using in foreign oil with electric vehicles and
23 things that are battery-powered, that's going to be a
24 significant increase in what our baseload power needs
25 are nationwide.

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1 And that has to come from nuclear. We are
2 now at the next opportunity for nuclear to replace
3 more of the foreign oil and more of the national
4 security issues that we have, because those electric
5 vehicles are going to be using the extra power.

6 I really appreciate the fact that Dominion
7 is considering nuclear for the county, for my family,
8 for my environment. I particularly appreciate the
9 fact that it is Dominion that's doing it, because they
10 have already demonstrated a concern for the
11 environment, they have demonstrated a concern for the
12 local issues over water evaporation, local issues for
13 heat rejection.

14 They have already increased their expenses
15 in redesigning the cooling towers. And I thank them
16 for the opportunity to benefit from this as the whole
17 county has benefitted.

18 And I thank you for the chance to speak
19 tonight.

20 FACILITATOR CAMERON: Okay. Thank you.
21 Thank you, Kelly.

22 (Applause.)

23 Is Rebecca with us? There she is.
24 Rebecca and a guest I guess, huh?

25 MS. FAWLS: Hi. My name is Rebecca Fawls.

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1 I'm speaking on behalf of the North American Young
2 Generation in Nuclear, the Virginia section. I am
3 also speaking as a wife, a mother, and a lifelong
4 resident of Virginia.

5 I'd like to start off talking about a
6 Nuclear Energy Institute study that looked at the
7 economic impact of North Anna power station on the
8 State of Virginia. North Anna generates more than
9 \$710 million in economic benefit to the state. This
10 includes approximately \$11 million in property tax for
11 the surrounding counties, which enables the counties
12 to provide excellent educational facilities and staff,
13 and other public works for everyone in the county, not
14 just Dominion employees' families.

15 The study also shows that this nuclear
16 facility's electricity production cost was 1.38 cents
17 per kilowatt hour in 2006. This is considerably lower
18 than the coal, natural gas, and renewables whose --
19 when the renewables cost was \$4.37 per kilowatt hour.

20 I bring these points up because it has
21 been recently reported that the country may be in a
22 economic downtrend, and possibly a recession.
23 Virginians should be concerned about our jobs and our
24 electricity costs. Currently, Virginia is an overall
25 energy importer. Nearly half of the electricity used

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1 in Virginia is generated in other states.

2 Over the next 10 years, Virginia will need
3 to add an additional 4,000 megawatts of capacity in
4 order to keep up with demand. This electricity can
5 either be generated here in Virginia, bringing our
6 state closer to energy independence, or it can be
7 imported. Either way it will be needed.

8 North Anna Unit 3 would generate an
9 additional 1,520 megawatts. Building a new nuclear
10 powerplant will bring approximately 2,000 jobs during
11 construction and provide approximately 600 permanent
12 high-paying jobs. The new nuclear powerplant would
13 also increase tax revenues to the surrounding counties
14 and Virginia as a whole. An added benefit would be
15 the ripple effect on the economy, such as housing,
16 restaurants, and manufacturing for the state.

17 The GE-designed ESBWR has multiple backup
18 safety systems with automatic safety features. It is
19 a low carbon energy source with a small ecological
20 footprint. To make the same amount of electricity
21 from a wind farm as a nuclear powerplant, it would
22 take up to 200 square miles. And a solar plant would
23 take 75 square miles, where a nuclear powerplant would
24 take approximately one square mile.

25 In summary, nuclear power provides many

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1 economical benefits, such as maintaining low
2 electricity costs, increased tax revenue, and
3 providing job stimulus here in Virginia. Nuclear
4 power has been proven to provide safe, clean, and
5 reliable power, and it is an important part of our
6 balanced energy mix in Virginia.

7 Thank you.

8 FACILITATOR CAMERON: Thank you. We're
9 going to hear from Michael, Michael Stuart, at this
10 point.

11 MR. STUART: Hi. My name is Michael
12 Stuart. I live inside the ten-mile EPZ -- that's
13 emergency preparedness zone in nuclear talk -- for
14 North Anna Power Station over in Beaverdam. That's
15 where I live, in Beaverdam. North Anna Power Station
16 is in Mineral.

17 I am here today to speak about the need
18 for power. Let me start by making it clear that
19 Virginia is the second largest importer of electricity
20 in the United States. The only state that imports
21 more electricity in the United States is California.

22 Does anyone wonder where the electricity
23 is coming from that is lighting up the room that we
24 are in, that is powering the microphone that I am
25 speaking into right now? Well, that's where my graph

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1 comes in.

2 Here is where it is coming from. First
3 take a look at the number. That's 73 billion kilowatt
4 hours, 73 billion thousand-watt hours. And about
5 almost two-thirds of that is derived from coal and oil
6 and gas. I've got oil and gas out separate here
7 because we import that, a lot of it anyway. And over
8 here in the green section, that is about one-third of
9 our energy. Thirty-seven percent is from nuclear.

10 Now here is the classroom participation
11 part. How many people think it would be great to have
12 more renewable energy in the United States?

13 (Whereupon, there was a show of hands.)

14 MR. STUART: Me, too. How many people
15 think the conservation is a great idea?

16 (Laughter.)

17 MR. STUART: Me, too. So how many people
18 think it would be great if we could reduce our
19 dependence on foreign oil, coal, and gas?

20 (Whereupon, there was a show of hands.)

21 MR. STUART: Me, too. Okay. Now I'm
22 going to show you another graph. Okay. This is
23 today. This is that same pie chart, but now it's a
24 stack chart.

25 As you can see, according to the U.S.

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1 Department of Energy projections, we're going to need
2 to increase our energy production by about 50 percent
3 in the coming years.

4 And the increase is necessary due to
5 population increases. That's due to greater reliance
6 on electronics. And it doesn't even account for the
7 electric vehicles that Kelly was talking about
8 earlier.

9 As you can see, even if we hopefully build
10 North Anna unit 3 and, by some miracle, this little
11 blue part right here, we implement a 15 percent
12 renewable portfolio standard, we still have this gap
13 up at the top.

14 Now, there's a lot of people in this
15 audience that want to get rid of coal and they want to
16 get rid of oil and gas and they want to get rid of
17 nuclear. And that leaves nothing. If somebody cut
18 the lights out, that would be a great, dramatic effect
19 right now, but that's okay. As you can see, it is
20 highly unlikely.

21 Now, we can meet our energy demands of a
22 growing population, support a shift to plug in
23 electric hybrid vehicles while reducing our dependence
24 on coal, foreign oil, and gas. We can't do it all.
25 That's why we need unit 3 as soon as we can get it.

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1 So, please, NRC, do a good job in
2 reviewing this application and get this thing approved
3 so we can start putting out some clean energy.

4 FACILITATOR CAMERON: Okay. Thank you.
5 Thank you, Michael.

6 (Applause.)

7 FACILITATOR CAMERON: Let me go to Lou
8 Zeller, Allison Fisher, Eleanor Amidon, and Vanti
9 Nguyen. I'm sure I got that wrong. Lou, please?

10 MR. ZELLER: Thank you. My name is Lou
11 Zeller. And I am the Science Director with the Blue
12 Ridge Environmental Defense League. And I am here
13 tonight to talk primarily about seismicity.

14 We will be submitting written comments
15 before the close of the comment deadline, but we found
16 that, of course, many people may know that North
17 Anna's nuclear reactor is built on stable ground that
18 Virginia Electric Power Company, now Dominion, was the
19 center of a decade-long struggle, which ended in two
20 nuclear reactors being built on top of an earthquake
21 fault.

22 In fact, the Department of Justice in the
23 1970s in this action, which resulted in a fine, found
24 that VEPCO and its consultants knowingly and willfully
25 filed false statements of material fact with the

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1 Atomic Energy Commission and conspired to conceal from
2 the public and the Board the existence of a fault
3 underlying its nuclear reactor site.

4 I hold in my hand here North Anna 3
5 combined license application part 7 departures report.

6 Departures report is variances of plant-specific
7 deviation from one or more of the site characteristics
8 design parameters terms and conditions of the early
9 site permit or from the site safety analysis report.

10 I picked out a few of these. There's a
11 long list of them, including annual thyroid dose and
12 liquid effluent releases and gaseous pathways. But
13 regarding the radiological exposure, the variances
14 requested by Dominion say, "distances to the closest
15 receptors had changed." People are living closer to
16 the plant.

17 They also say with regards to groundwater
18 flow, "maximum hydraulic conductivity is larger than
19 the ESP value." The groundwater is moving more
20 quickly. A table on page 2.3 in the document says,
21 "3.4 feet per day was assumed under the ESP. It looks
22 like it's 9.9 feet per day hydraulic conductivity,"
23 for which they are requesting a variance.

24 Regarding seismicity, vibratory ground
25 motion, the variance requested says, "Unit 3 does not

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1 fall within the ESP and the site safety analysis
2 report. The data show the top of competent rock under
3 unit 3, seismic category 1 structures is higher than
4 assumed for the ESP."

5 The Nuclear Regulatory Commission has
6 responsibility in this matter under 10 CFR 51.105,
7 also under appendix A to part 100, which describes the
8 type of inquiry necessary for the Nuclear Regulatory
9 Commission to determine site suitability with regard
10 to geologic stability and seismicity.

11 I guess more important and also relevant
12 in this matter is the Fifth Amendment to the
13 Constitution of the United States, which says that no
14 person shall be deprived of life, liberty, or property
15 without due process of law. I would submit to you
16 that an accident caused by a foreseeable event cannot
17 be construed as due process.

18 Thank you.

19 FACILITATOR CAMERON: Thank you, Lou.

20 And Allison?

21 MS. FISHER: As Chip said, my name is
22 Allison Fisher. I am with Public Citizen. I want to
23 thank you for the opportunity to address some of the
24 issues that should be considered in the environmental
25 impact statement for North Anna's unit 3.

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1 Based on a lot of the comments that we
2 have been hearing tonight, it seems that we are at a
3 critical time in the debate on our energy future. I
4 know coming from D.C., it certainly is a big issue at
5 the national level but I think perhaps even more so on
6 the state level because what we have seen is that some
7 states are actually taking a greater leadership over
8 our representatives in D.C. in establishing and
9 implementing clean and sustainable energy strategies.

10 So I want to focus the bulk of my comments
11 on the potential for clean and sustainable energy in
12 Virginia, but first I would like to point out that,
13 you know, the clean and sustainable criterion is
14 certainly the most important, but it is not the only
15 thing that we should be considering in our energy
16 future. And to this extent, you know, we hear a lot
17 about the need for energy independence. And it's been
18 raised a couple of times already tonight.

19 And in Virginia, this is interesting the
20 way it is playing out is the claim for energy
21 independence currently is being lauded by those
22 seeking to extract uranium from the enormous deposit
23 that has been identified in Virginia, in Pittsylvania
24 County.

25 The basis of this claim is that we do

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1 currently import about 70 percent of the uranium we
2 use for fuel, for fuel in our reactors from abroad,
3 from countries like Canada and Australia and some of
4 the former Soviet Union states.

5 So, then, to mine it here in Virginia, I
6 suppose it would help us reduce our dependency on
7 foreign sources of energy. I would say that it
8 probably does not reduce our addiction to oil, as it
9 has been brought up here tonight.

10 As far as I know, we are not using uranium
11 in our tanks at this point. But certainly it would
12 bring up uranium. It would bring it back into our
13 economy in the form of both mining and milling.

14 What is interesting is that Virginia is
15 going to be the only state in the country that is
16 witnessing firsthand the cause and effect of nuclear
17 expansion. Here in Virginia we have both a proposal
18 for a new reactor and a corporation challenging the
19 state's moratorium on uranium mining.

20 Because of this unique experience, I think
21 residents in Virginia are going to be able to see just
22 how unclear nuclear power is. And also due to this
23 unique circumstance, the environmental impact
24 statement, whose main purpose is to establish a
25 cost-benefit analysis of the project to determine if

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1 the environmental costs outweigh the stated benefits,
2 should consider the effects of nuclear expansion and
3 how it relates to the booming speculation on uranium.

4 And these should be present in the environmental
5 impact statement. The NRC should fully review the
6 impacts of mining and milling within the scope of the
7 EIS.

8 Secondly, just a note. The scope of the
9 EIS also considers alternatives to the project. This
10 includes a no-action option. And this goes back to the
11 first statement I made. I mean, obviously the
12 alternative question is paramount here in Virginia. It
13 asks the following. If not this reactor, how will
14 Virginia meet its energy needs or we can pose it
15 another way. Do we even need to assume the risk
16 associated with the new reactor and mining in order to
17 keep the lights on?

18 I appreciate the graph that was just up
19 here a few minutes ago. And I saw what was trying to
20 be projected. I think what that was speaking to was
21 not potential for renewable energy here in Virginia.
22 It was talking about the political will and the
23 utility's will to implement those kind of
24 technologies.

25 So, to address these questions, the EIS

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1 should consider that Virginia's choices are not
2 limited to new nuclear or coal. In fact, it is
3 technically and economically feasible for a diverse
4 mix of existing renewable energy and efficiency
5 technologies to completely meet Virginia's electricity
6 needs over the coming decades.

7 These renewable resources could be
8 harnessed effectively and reliably and without
9 producing carbon dioxide or carbon emissions,
10 radioactive waste, or relying on mining a finite
11 resource.

12 According to the National Renewable Energy
13 Laboratory data in a Virginia Center for Coal and
14 Energy Research study, Virginia's electricity needs
15 can be fully met in the coming decades by wind, solar,
16 advanced hydroelectric power, and geothermal heat
17 pumps.

18 Then the EIS should include a full
19 examination of the following data from the NREL study.

20 First, Virginia's wind potential comes over 104
21 million megawatt hours. That is over 92 percent of
22 Virginia's total annual electricity consumption.

23 Virginia's PV solar potential is 25,000
24 megawatts by 2025, which would generate over 46
25 million megawatt hours annually. Right now that's

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1 about 41 percent of Virginia's electricity use.

2 And then, finally, geothermal heat pumps
3 could also be used in Virginia to reduce the energy
4 used for heating and cooling billings by 30 to 60
5 percent. So it's not just turning off your lights,
6 and it's not just putting in those newfangled light
7 bulbs. There's some other stuff out there that could
8 be implemented.

9 So regarding these technologies and for
10 the purposes of the EIS, an analysis should consider
11 cost comparison, ratepayer savings, and certainly job
12 creation, which is another issue that has been
13 broached here by several of the presenters.

14 And there are plenty of studies that are
15 showing that these technologies are bringing just as
16 many jobs and just as many opportunities into
17 communities and without the risks associated with
18 nuclear power or coal. Alleviating us from these
19 technologies is not going to shut down the economy, I
20 assure you.

21 So, just again, you know, or the choices
22 our utilities are making for us are critical. And we
23 really cannot afford economically as well as
24 environmentally to continue on this business as usual
25 path.

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1 And I think that, when all things are
2 considered, what we will see is nuclear power is not
3 the cheapest. It's not the safest. And it's certainly
4 not the cleanest.

5 Thank you.

6 FACILITATOR CAMERON: Thank you, Allison.

7 We are going to go next to Eleanor,
8 Eleanor Amidon, and then to Vanti.

9 MS. AMIDON: My name is Eleanor Amidon. I
10 am a member of the Charlottesville Center for Peace
11 and Justice. I want to call attention to one very
12 serious problem. The storage of spent fuel rods has
13 never been adequately solved.

14 Radioactive material will continue to be
15 active for thousands of years. Regarding human
16 health, exposure to radioactive material will lead to
17 the increase of many types of cancers. Nobody wants
18 radioactive waste stored in their territory.

19 Yucca Mountain is geologically unstable.
20 The people of Nevada don't want radioactive materials
21 stored there. The people of Virginia do not want
22 radioactive materials stored at Lake Anna. To me it
23 makes no sense to continue building nuclear reactors
24 and adding to this glaring problem until there is a
25 satisfactory solution to the radioactive waste storage

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1 problem.

2 Thank you.

3 FACILITATOR CAMERON: Thank you very much.

4 And Vanti?

5 MS. NGUYEN: Good evening. My name is
6 Vanti Nguyen. And I am with the People's Alliance for
7 Clean Energy. The truth is that life is sacred. No
8 one in this room can deny that, even government
9 officials and industry scientists.

10 The truth is that it is also fragile and
11 that we are participants in its mysteries of only one
12 of the many species on the planet and that the only
13 thing that makes life worth living for us is the love
14 and the creativity we experience in our relationships
15 with each other within the whole world community.

16 The fundamental questions that have
17 meaning for us as humans are questions of value and of
18 ideas about human nature and human destiny. All
19 discussions of nuclear power and the abstracted debate
20 going on in this room are not based on the conditions
21 for human well-being and for plenary health and
22 survival but on an illusion of mastery and control, on
23 a pretense of russianality, and on an acceptance of
24 the demented nuclear logic as normal.

25 The result is that you are unconsciously

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1 compelled to entrust the future of all of life to a
2 technology that is grossly out of scale with our
3 experience as biological beings and with our capacity
4 to grasp its implications.

5 Industrial civilization confuses money
6 with fulfillment, standards of living with quality of
7 life, and painful cancer deaths with the natural death
8 that comes as the closing of life.

9 But this confusion is only a blip in the
10 history of evolution. The proverb says no matter how
11 far you have traveled down the wrong road, you can
12 still turn back. So even at this point, you can still
13 give up the illusion that nuclear power is a sane
14 energy consideration.

15 You can allow into your consciousness that
16 radioactives cannot be isolated from the environment
17 and that they forever damage the DNA of not only
18 humans but of all living things. And you can turn
19 your considerable talents and your healthy ambitions
20 to life-enhancing projects, utilizing solar, wind, and
21 wave energy to creating real and not bogus safety and
22 security and to safeguarding the intensity of our
23 relationship with future generations and with the
24 whole of the natural world.

25 Thank you.

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1 (Applause.)

2 FACILITATOR CAMERON: Thank you very much.
3 Thank you.

4 Our next three speakers are Burt Marshall,
5 John Farmer, and Peter Beament. This is Burton.

6 MR. MARSHALL: Thank you. My name is
7 Burton Marshall. I am a professional engineer
8 registered in the State of Virginia. And I am a
9 retired employee of Dominion, after 33 years.
10 However, I do keep an eye on what is going on in the
11 energy markets around the country. And I am here to
12 speak in support of the combined operating license for
13 unit 3.

14 Right now Virginia is facing a significant
15 shortfall of electricity of about 4,000 megawatts in
16 2017. With today's volatile energy markets, we can no
17 longer afford to rely on imported power for Virginia's
18 needs. If built, unit 3 would make us less dependent
19 on electricity produced outside the state. And it
20 will also provide nearly a third of that shortfall in
21 2017.

22 Dominion is one of the nation's most
23 experienced operators of nuclear reactors. The
24 company's four nuclear power stations have a capacity
25 to produce 5,726 megawatts of emissions-free

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1 electricity.

2 Not only will this facility be a safe and
3 reliable addition to Virginia's energy portfolio, but
4 it will do so while being mindful of the local
5 environment.

6 While I was Manager of Water Quality at
7 Dominion, the 316(A) temperature study of Lake Anna
8 was completed and approved by the regulatory agencies.

9 The company has agreed to change their water cooling
10 design to a closed loop, hybrid system, instead of an
11 open system, to minimize thermal impacts on Lake Anna.

12 Dominion has been a good corporate citizen
13 at the North Anna site since the first unit was built
14 in 1978. And I expect the company will continue to
15 uphold the environmental responsibility throughout the
16 life of this reactor.

17 I had other economic benefits that others
18 have already mentioned. So I will just close by saying
19 that this is a great opportunity for Virginia. We
20 need to seize the opportunity to build this third unit
21 and provide more economic benefits to Virginians and
22 Louisa County.

23 Thank you for hearing my remarks.

24 FACILITATOR CAMERON: Okay. Thank you.
25 Thank you, Burt.

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1 And this is John Farmer.

2 MR. FARMER: Thank you very much.

3 I am John Farmer. I am a retired employee
4 of Virginia Power. During my time with the company, I
5 served in several areas, the last being manager of
6 transmission and distribution projects. Our
7 responsibility in this job was to site, permit, and
8 construct transmission lines. These lines connect the
9 power station with the substation that served the
10 customers, be they governmental, residential, or
11 industrial.

12 Dominion has experienced tremendous growth
13 in the last several years, which is going to require
14 additions to all the systems that it operates: the
15 generation, the transmission, the distribution.

16 You have heard and I won't repeat the
17 dependency on imported power, the need for additional
18 power. North Anna right now contributes 17 percent of
19 the power generated and used by Dominion customers.
20 Of course, the new unit will increase this. And this
21 station is strategically located between two very high
22 growth areas in the company.

23 This is a source for base-loaded power,
24 which can operate at a very low cost and will enable
25 us to keep electric rates within a reasonable amount

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1 of charge at which probably inflation increases. Cost
2 is going to go up, but this would in my view reduce
3 the increase in electric power.

4 You have heard about the number of jobs
5 provided. You have heard about the taxes that will be
6 generated. This is a win-win situation for everyone
7 in Virginia. It provides low-cost energy,
8 emission-free with respect to greenhouse gases, and a
9 safely operated plant.

10 So thank you for allowing me to make these
11 comments.

12 FACILITATOR CAMERON: Thank you, John.

13 We're going to go to Peter.

14 MR. BEAMENT: My name is Peter Beament.
15 And I am a retiree from Dominion Resources. I was the
16 first station manager at North Anna. And I worked on
17 the nuclear side of the company for 28 years, at
18 CBMPA, and Surry Power Stations. And I would like to
19 comment in favor of this new reactor.

20 And I don't plan to say very much of this
21 because it has already been said about the necessity
22 of the energy and the simplified boiling water reactor
23 design with its combination of passive safety,
24 simplicity, operation, reliability, economics, and the
25 fact that it has no impact on the waste heat

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1 treatment. That's all been said.

2 I would like to comment, though, on one
3 point. And, in closing, we have talked about base
4 load. Base load means a lot of generation when it's
5 needed. And the alternatives are offered of
6 conservation, solar, wind energy, and tidal energy.

7 Now, the problem is that when the wind
8 doesn't blow and the sun doesn't shine, then base load
9 is needed for reliability of the system as a whole to
10 provide our customers. And conservation has a limited
11 application in favor of an increase in population and
12 customer demand.

13 Thank you.

14 FACILITATOR CAMERON: We have some
15 professors of engineering with us tonight: three from
16 Virginia Tech and one from UVA. I think we will go to
17 Kenneth Ball, then Eugene Brown, then Mark Pierson and
18 then to William Hall.

19 MR. BALL: Good evening. My name is Ken
20 Ball, and I am the L. S. Randolph Professor and head
21 of the Department of Mechanical Engineering at
22 Virginia Tech.

23 We are leading a task force at Virginia
24 Tech to establish a nuclear and radiation engineering
25 and science program in accordance with our mission of

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1 teaching, research, and outreach. I have almost 20
2 years of experience in research and service in the
3 area of nuclear engineering and science, including
4 public policy related to nuclear waste, weapons, and
5 security.

6 Prior to coming to Virginia Tech, I was a
7 professor at the University of Texas at Austin and
8 Chair of UT's Nuclear Reactor Committee. I was
9 responsible for the safety of the research reactor
10 facility and its operations and ensuring independent
11 oversight of all of its related activities.

12 My research experience include
13 nonproliferation issues surrounding weapons-grade
14 plutonium and special nuclear materials and the
15 preparedness and response to terrorism attacks
16 involving weapons of mass destruction, such as dirty
17 bombs and nuclear devices.

18 I am a member of the American Nuclear
19 Society and the American Physical Society. And I am
20 also a fellow of the American Society of Mechanical
21 Engineers and a registered professional engineer.

22 Virginia Tech's new nuclear engineering
23 and science initiative has a strong support of the
24 campus community, administration, faculty, staff, and
25 students. Our new program will be very broad in

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1 scope, ranging from traditional areas, such as nuclear
2 power generation and nondestructive testing and
3 evaluation to nuclear medicine, both therapeutic and
4 diagnostic, and material science and engineering.

5 It involves multiple colleges, the
6 Colleges of Engineering, Science, Veterinary Medicine,
7 Agriculture and Life Sciences, Natural Resources, and
8 even Liberal Arts and Human Sciences, as well as the
9 joint Virginia Tech-Wake Forest School for Biomedical
10 Engineering and Science.

11 Scholars and researchers recognize the
12 importance of nuclear and radiation science in many
13 fields and technologies vital to society and also
14 recognize that the benefits far outweigh legitimate
15 concerns about safety, security, and the environment.

16 The Virginia Tech College of Engineering
17 is taking the lead on campus in the development of new
18 programs in nuclear science and engineering. My
19 colleagues Gene Brown and Mark Pierson will provide
20 more detailed information about these programs.

21 As a department head, I would like to
22 emphasize the widespread interest in our new nuclear
23 program among our alumni, students, and their parents
24 throughout the Commonwealth of Virginia.

25 Almost every day, we receive inquiries

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1 about our nuclear program and the opportunities that
2 it presents. If you simply Google the key words
3 "nuclear" and "Virginia Tech," you will see hundreds
4 of hits for links to sites related to our recent
5 activities in nuclear engineering and science.

6 Our initial course offerings in nuclear
7 engineering have been filled to room capacity as
8 students are very quick to recognize the career
9 opportunities that exist in the field. The nuclear
10 renaissance is real and is generating considerable
11 excitement nationwide.

12 Virginia Tech was one of the first
13 universities to publicly announce its intention to
14 reestablish a nuclear program about two years ago.
15 But even in that short period of time, many other
16 universities have followed our path and are
17 establishing new programs throughout the nation.

18 The Commonwealth of Virginia and its
19 citizens have much to gain by supporting nuclear
20 energy initiatives, and we are well-positioned to be
21 at the forefront of technological leadership in this
22 area, which will have far-reaching implications for
23 Virginia's economy.

24 One of my current responsibilities is to
25 represent Virginia Tech on the board of directors for

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1 a new consortium of universities, citizens groups, and
2 economic development partnerships and industry called
3 SUNRISE. That's the Southeast University's Nuclear
4 Reactors Institute for Science and Education.

5 Virginia Tech is a charter member of
6 SUNRISE, which functions with the strong support and
7 cooperation of our nation's Department of Energy
8 laboratories; in particular, Oak Ridge and Savannah
9 River national laboratories.

10 SUNRISE is dedicated to supporting nuclear
11 science and technology development. SUNRISE provides
12 a framework to support the growth and training of the
13 new generation of specialists who can advance and
14 protect our nation's critical infrastructure.

15 Together SUNRISE partners will advance the
16 level of technical achievement and research and
17 workforce development in the United States and will
18 lead the nation in innovation spurred by research and
19 education.

20 Prestigious universities in the Southeast
21 United States, such a Georgia Tech, recognize the
22 enormous opportunities that exist in nuclear
23 technologies. The citizens of the Southeastern United
24 States, the States, will benefit from cheaper, cleaner
25 power production as a majority of new nuclear reactors

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1 will be built in the Southeast.

2 For Virginia to remain in a leadership
3 position is important to support the nuclear power
4 industry as they are key partners and the largest
5 employers of the graduates of our nuclear programs.

6 In conclusion, I would like to voice my
7 strong support for the combined operator license
8 application submitted by Dominion Nuclear Power for
9 North Anna Power Station unit number 3.

10 As a citizen of the Commonwealth of
11 Virginia and also a father of four teenagers, I
12 believe that ensuring that the electric power supply is
13 sufficient to meet the future requirements of the
14 Commonwealth in an efficient, cost-effective, and
15 environmentally responsible manner is vital for our
16 future prosperity.

17 As a researcher, engineer, and scientist,
18 I believe that nuclear reactors and nuclear power
19 generation must be included in our nation's energy
20 portfolio and that nuclear power generation is
21 extremely safe and environmentally sound.

22 Thank you for providing me with this
23 opportunity to express my opinions and support nuclear
24 power.

25 FACILITATOR CAMERON: Okay. Thank you.

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1 Thank you.

2 We will go to one of your colleagues now.

3 Gene?

4 MR. BROWN: Good evening. I am a
5 professor of mechanical engineering at Virginia Tech
6 and have taught courses related to energy conservation
7 for almost 40 years. Along with my colleague Mark
8 Pierson, who will be speaking next, I am currently
9 managing Virginia Tech's relationship with a nuclear
10 industry cluster in Lynchburg.

11 This involves nearly \$750,000 in nuclear
12 energy research supported by Virginia's Department of
13 Housing and Community Development and the
14 responsibility for the development of a statewide
15 program in nuclear engineering education.

16 I am a member of the American Nuclear
17 Society and a registered professional engineer in the
18 Commonwealth of Virginia. Nuclear energy is a key
19 ingredient in the Virginia energy plan, which calls
20 for a 20 percent increase in the in-state production
21 of electrical energy by 2017 and the simultaneous 30
22 percent decrease in the level of greenhouse gas
23 emissions by 2025.

24 According to remarks made by Steven Walsh,
25 Chair of Governor Kaine's Energy Policy Advisory

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1 Council, conservation and renewable energy targets
2 will only get us halfway to this target. Research in
3 the use of clean-burning coal-fired power plants and
4 nuclear energy is clearly needed to make up the
5 difference.

6 Nuclear energy now represents the nation's
7 and Dominion's least expensive source of electrical
8 energy. The need for increased in-state energy
9 production along with the need to reduce greenhouse
10 gas emissions requires serious consideration of the
11 installation of new nuclear power plants, such as
12 North Anna's unit 3, which, of course, is the topic of
13 this meeting.

14 Virginia is not the only state which has
15 realized this. After 27 years with no nuclear power
16 plants built, the NRC has received a request to build
17 and license 50 new reactors in the past 2 years.
18 Designing and building these facilities will require
19 large numbers of trained professionals, who are in
20 short supply because of the aging nuclear workforce
21 and because of the limited number of nuclear engineers
22 produced by the small number of nuclear engineering
23 programs in existence today.

24 Times have changed. And now the nuclear
25 industry is in a period of resurgence, resulting, in

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1 part, from fears of global warming and the related
2 need for carbon-free electricity production.

3 In the words of Steven Walsh, Chair of
4 Governor Kaine's Energy Policy Advisory Council,
5 Virginia's universities have cut back on nuclear
6 programs over the past few decades. Now is the time
7 to turn this back.

8 In 2006, Virginia Tech was given the
9 opportunity to do exactly this with an economic
10 development grant provided by the Department of
11 Housing and Community Development to Region 2000.
12 Region 2000 comprises the 2,000 square mile area
13 incorporating Amherst, Bedford, Appomattox, and
14 Campbell Counties, the Cities of Lynchburg and
15 Bedford, and the Town of Alta Vista.

16 In 2007, in response to encouragement
17 provided by Region 2000, the Mechanical Engineering
18 Department at Virginia Tech developed a distance
19 learning nuclear engineering graduate certificate
20 program. In the first year of offering courses, the
21 program has attracted 220 graduate students and is now
22 delivered by the Commonwealth graduate engineering
23 program throughout the state.

24 In addition, our newly announced
25 undergraduate nuclear engineering certificate program

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1 has attracted 40 students. We have an aggressive plan
2 to grow Virginia Tech's engineering program in the
3 future.

4 Our long-term vision is to grow our
5 present certificate program into an undergraduate
6 minor in nuclear engineering and eventually to
7 establish a School of Nuclear Science and Engineering,
8 which will offer M.S. and Ph.D. degrees in nuclear
9 engineering and science in collaboration with our
10 College of Science and our sister departments in the
11 College of Engineering.

12 These are exciting times for nuclear
13 engineering. I enthusiastically support the building
14 of North Anna's unit 3 and the other 14 proposed
15 nuclear power plants in the United States but the
16 secure and affordable source of electrical energy,
17 which they promise, and the opportunity that this
18 offers to universities like Virginia Tech to provide
19 the workforce and the technological advancements which
20 will make this promise a reality.

21 Thank you very much.

22 FACILITATOR CAMERON: Thank you.

23 And Mark Pierson?

24 MR. PIERSON: Good evening. My name is
25 Mark Pierson. I am a research associate professor

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1 with nuclear engineering programs in the Mechanical
2 Engineering Department at Virginia Tech.

3 I am also a retired U.S. Navy commander,
4 having spent the majority of my 23-year career in
5 nuclear-powered submarines and related assignments,
6 including a tour at the naval reactors headquarters in
7 Washington, D.C.

8 I am also a member of the American Nuclear
9 Society and a member at large on the Executive
10 Committee of the local Virginia Section of the
11 American Nuclear Society.

12 I am here today to speak in favor of
13 Dominion's application for a combined license for
14 North Anna Power Station unit 3. The environmental
15 impact of this nuclear power plant will be significant
16 but in a positive way. Let me explain.

17 In 2006, nuclear power provided
18 approximately 19 percent of the electricity in the
19 United States and about 38 percent within the
20 Commonwealth of Virginia. For the U.S., the remaining
21 electrical generation sources come from coal, at 50
22 percent; natural gas, at 20 percent; hydroelectric, at
23 7 percent; oil, at 2 percent; and, finally, from all
24 other renewable energy sources combined, such as
25 geothermal, solar, wind, and biomass, at only 2

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1 percent.

2 The North Anna Power Station unit 3
3 reactor plant would provide about 1,500 megawatts of
4 electricity. For comparison, this is equivalent of
5 about 750 to 1,000 wind turbines, more than twice the
6 size of the world's largest wind farm.

7 Additionally, wind turbines have an
8 average output of only about 30 percent of the maximum
9 power capacity, only providing electricity when wind
10 speeds are able to support it. Thus, they
11 consistently provided the same electrical power
12 generation as North Anna unit 3 require about three
13 times as many wind turbines or 2,000 to 3,000
14 turbines.

15 I contend the environmental impact of one
16 modern state-of-the-art nuclear reactor is much less
17 than the impact of 3,000 wind turbines covering 100
18 acres per turbine or over 300,000 acres total.

19 Additionally, on a hot, steamy, windless
20 day, when power loads from air conditioning are at a
21 peak, wind power is not available. However, North Anna
22 unit 3 would be online providing 1,500 megawatts
23 electricity all day.

24 If we compare a nuclear reactor to solar
25 generation, it would take at least 12,000 acres of

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1 solar rays to produce a maximum electrical power
2 output equivalent. But, once again, solar is not
3 always available, especially at night. And the
4 average output is only 20 percent of the maximum
5 capacity. Thus, over 60,000 acres of solar rays would
6 be needed to consistently produce the same output as
7 one nuclear reactor.

8 Of course, the largest solar farm
9 currently planned to be built would only yield about
10 80 megawatts of electricity and at an estimated cost
11 of about half a billion dollars.

12 Note also that most solar facilities are
13 being built in the western United States, in the
14 desert, where there is no snow and ice. Thus, on an
15 overcast snowy and icy day on the East Coast during a
16 peak heating load, solar power is not available.
17 However, North Anna unit 3 would be online providing
18 1,500 megawatts of electricity day and night.

19 Why I applaud renewable sources, such as
20 solar and wind, and believe that we must continue to
21 build more of these kinds of plants, the point I am
22 making is that they just cannot keep up with the
23 current growth in electrical demand compared to other
24 electrical generation sources, such as nuclear.

25 Additionally, the size of their footprint

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1 leads to an environmental impact that could be much
2 greater than that of a new state-of-the-art nuclear
3 power plant, such as North Anna unit 3.

4 Let us look at electrical generation
5 costs. Since the year 2000, nuclear power has
6 surpassed coal as the cheapest method of electricity
7 production.

8 We do admit these costs are based on the
9 current fleet of nuclear power plants, which have long
10 since paid off most of their capital costs. However,
11 since global warming has become an issue. There will
12 come a time soon in this country where we will have
13 some sort of a carbon emission cap and trade program
14 in place.

15 Under this scenario, the cost of
16 generating electricity from new nuclear plants will be
17 much slower than the cost from other sources, such as
18 coal or natural gas. This is because nuclear power
19 plants have zero emission of carbon dioxide during
20 production of electricity.

21 In fact, nuclear power provides the
22 largest source of emission-free electricity, making up
23 over 73 percent of the total emission-free electrical
24 general in the United States. The other primary
25 source of emission-free electricity, at 24 percent, is

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1 hydroelectric. However, hydroelectric capacity in
2 this country is about tapped out.

3 To put all of this in perspective, it is
4 estimated that the new North Anna Power Station unit 3
5 would reduce greenhouse gas emissions by the
6 equivalent of taking 1.5 million cars off the road
7 compared to conventional power production sources.

8 In this discussion, it must be noted that
9 every method of electrical power generation has its
10 advantages and disadvantages. Nevertheless, I
11 personally believe that if one looks at all of the
12 facts associated with nuclear power generation, that
13 its advantages by far outweigh any disadvantages,
14 especially in the environmental arena.

15 Regardless of what opinions others may
16 conclude in this regard, we still face the serious
17 issues of both global warming and that of providing a
18 secure energy supply to meet U.S. demand. We will
19 need to use all of the technologies available at our
20 disposal, such as renewable energy sources, clean coal
21 technology, nuclear energy, nuclear fusion, reduced
22 auto emissions, conservation efforts, et cetera.

23 While we, similarly, cannot rely solely on
24 nuclear power as an only resolution, we also cannot
25 ignore it as a necessary part of the solution. Thus,

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1 I fully support Dominion's combined license
2 application for the North Anna Power Station unit 3 as
3 a first step in the battle of fighting global warming.

4 Thank you.

5 FACILITATOR CAMERON: Okay. Thank you.

6 And is our other professor here from
7 University of Virginia? We're going to go to Elena.
8 Okay. We are going to Donal Day, and then we are
9 going to go to Elena Day. Donal?

10 MR. DAY: Thank you, Chip. My name is
11 Donal Day. And I am here as a member of the Piedmont
12 Alliance for Clean Energy. While I didn't bring my
13 CV, just let me tell you that I am a faculty member, I
14 have been for more than 20 years, a nuclear physicist
15 in the Institute of Nuclear and Particle Physics at
16 the University of Virginia. And I oppose this
17 application.

18 I believe the entire process is flawed.
19 And I will give you a few reasons, some of which have
20 already been pointed out by Paul Gunther and Jerry
21 Rosenthal.

22 One of the main problems I have is that
23 this whole process is being run by the NRC. And I
24 think we have to question its competency to regulate
25 this industry. We only have to remember Davis-Besse.

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1 Davis-Besse is a reactor in which
2 corrosion due to poor water chemistry came within a
3 few millimeters of revealing the reactor to the
4 reactor building. And when this was exposed, the NRC
5 reacted and ran around the country, finding, in fact,
6 that this corrosion had occurred at many reactors,
7 including North Anna. And the only reason a disaster
8 was averted wasn't because of the NRC but, rather,
9 because of different corrosion rates at different
10 reactors around the country, also the question of
11 national security.

12 If you go outside here, you see thousands
13 of dollars worth of glossy material about national
14 security and supporting force on force at the
15 reactors. Well, if you go to You Tube, you will find
16 videos of reactor guards sleeping on duty. And this
17 is an industry. This is a responsibility of the NRC.

18 So I wonder how this review is going to
19 account for these sleeping guards, for the failure of
20 the NRC to do its job; or, in fact, for Dominion. I
21 mean, these corrossions at the reactor facilities were
22 under the eyes of the safety watchdogs hired by, paid
23 for by Dominion or elsewhere at Davis-Besse by other
24 reactor operators.

25 And one of the biggest problems I also

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1 have -- and it has been pointed out by others, but
2 this application is really due to the failure of
3 imagination and not only the failure of imagination
4 but also the lust for the easy handouts being promoted
5 by the current administration in Washington. And I
6 might add these may disappear in the near term.

7 This is not a vision for the future. It's
8 trying to keep the past current. Nuclear power
9 technology is an old technology. It's an old
10 technology that belongs in the past.

11 Let me also point out that nuclear power
12 leaves two-thirds of the energy it produces at the
13 plant before one watt goes down the wire. So to the
14 new students at Virginia Tech, I think the professors
15 are going to have a hard time explaining to them why
16 they're promoting an industry that dumps two-thirds of
17 the energy at the site before it delivers one watt to
18 somebody's hot water tank that needs a very low form
19 of energy in order to accomplish the task.

20 This is hardly a program for a rational
21 and sustainable energy future. It is time for us to
22 think creatively and to think outside the box. The
23 future is not nuclear. It's not 1,000-megawatt or
24 1,500-megawatt plants located in outlying areas. It's
25 production matched to the needs.

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1 Most of the energy used in your home is a
2 very low-quality. It is a crime to take electricity
3 and to heat your home. It is a crime to use
4 electricity and to heat your hot water. This is a
5 mismatch.

6 You're taking the highest form of energy
7 and using it for a very low-grade use. And to suggest
8 that we need more nuclear power to do similar tasks
9 is, in fact, I think irresponsible. More so our
10 energy falls on the surface of the Earth in one hour
11 than the entire humanity uses in a year. It's time
12 for us to get creative, and it's time to think outside
13 the box.

14 Let me also point out to all of these
15 people who talk about the windmills only producing
16 when the wind blows and solar only producing when the
17 sun shines.

18 Dominion operates one of the largest pump
19 storage facilities in the world because not all of the
20 time they run their nuclear power plant, people are
21 using the energy. They pump water uphill and store it
22 very effectively and run it downhill. There is no
23 reason that that same technique can't be used for wind
24 or for solar.

25 Thank you very much.

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1 FACILITATOR CAMERON: Thank you. Thank
2 you, Donal. Thank you.

3 Elena?

4 MS. DAY: I'm just going to be very brief.

5 I think that the environmental impact statement has
6 failed to address the consequences of what might well
7 be permanent storage of high-level waste at Lake Anna
8 in the irradiated fuel water pools as well as in dry
9 casks.

10 The high level waste continues to
11 accumulate. And the new nukes will be generating more
12 waste. And, as we have heard, Yucca Mountain is not
13 likely to be open any time soon. And, furthermore,
14 Yucca can only accept waste generated by nuclear power
15 plants that is generated before 2010. It will be used
16 up by the waste that is produced by 2010.

17 So Dominion continues to bet that this
18 high-level waste is going to go somewhere else. So I
19 feel that this is irresponsible for Dominion as well
20 as the NRC to entertain construction of new nukes when
21 the high-level radioactive waste -- and now since
22 Barnwell is also going to close in June 2008, the
23 low-level radioactive waste issue remains unresolved.

24 In fact, recently a week ago in California, the
25 legislature of California denied the nuclear industry

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1 to be able to site any new nuclear plants in that
2 state unless the waste issue is resolved.

3 How much low-level waste does Dominion
4 plan to store on Lake Anna shores? These are my
5 concerns. This should be addressed in the EIS. How
6 many dry casks does Dominion plan to site on the
7 shores of Lake Anna? How will it be expanding water
8 storage capacity for spent fuel? Will construction of
9 more pools physically disturb lake water? Will more
10 waste increase the possibility of accident in the
11 irradiated fuel pools?

12 And if and when a repository for
13 high-level waste is licensed, how will the waste be
14 transported safely along what routes? And is an
15 evacuation plan included to safeguard residents in
16 Louisa and along transportation routes in Virginia?
17 Are water pools and dry casks accumulating on the lake
18 targets for terrorist attacks? Will additional
19 storage be adequately protected?

20 I'm also concerned about the hazards of
21 tritium exposure. And we also note that this tritium
22 is routinely released into the lake and into the
23 atmosphere. How would Dominion and the NRC act to
24 limit tritium releases?

25 Both Dominion and the NRC must continue to

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1 study and make public the effects of tritium exposure
2 on humans and flora and fauna who live in and around
3 the lake and downstream.

4 I am outraged that Dominion continues to
5 discharge water without an upper temperature limit
6 into Lake Anna's cooling lagoons. Dominion's
7 activities are not in compliance with the federal
8 Clean Water Act, which protects surface waters of the
9 United States. And, indeed, the waters of Lake Anna
10 are surface waters of the United States.

11 The ill effects of high water temperatures
12 in Lake Anna have been well-documented. It's
13 irresponsible again for Dominion and the NRC to
14 continue with an application to site new nukes on an
15 already environmentally and hydrologically stressed
16 watershed. And soon you're going to find us humans
17 competing with the nuclear reactors for water, for our
18 sustenance.

19 Finally, we are again facing the very real
20 possibility of uranium mining and milling in Virginia,
21 which Allison spoke about. There are uranium deposits
22 not only in Pittsylvania County but in Orange,
23 Madison, Fauquier, and Culpeper Counties.

24 The drive by Dominion and other nuclear
25 utilities to build new reactors has made uranium

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1 mining attractive once again after a 25-year ban in
2 our state.

3 Mining and milling of uranium have never
4 been attempted in a wet climate like ours.
5 Furthermore, the history of mining and milling of
6 uranium in our western states is one of high cancer
7 rates. The radioactive tailings love to continue to
8 disburse their radioactivity as the wind blows. So
9 the uranium fuel cycle from start to finish leaves a
10 huge carbon imprint, a footprint, or whatever.

11 In fact, it takes two coal plants at
12 Paducah, Kentucky to run the facility that processes
13 the uranium into fuel rods. So, regardless of the
14 claims of the industry that building nukes to save us
15 from greenhouse gas emissions and global warming, you
16 know, it's not true that uranium cycle from start to
17 finish leaves a huge carbon footprint.

18 I think Dominion's plans for nukes will
19 only associate it with the defoliation of our pristine
20 rural Virginia counties if mining is allowed in the
21 Commonwealth. It is time for Dominion to stop its
22 quest for new nukes and, instead, commit to programs
23 of conservation, efficiency in conjunction with
24 renewables as they come on line.

25 I think this is possible. The R&D for

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1 renewables is minimal. Come on now. The handouts for
2 nukes are gross. And Dominion has plenty of money and
3 plenty of power in the Commonwealth as well.

4 FACILITATOR CAMERON: Okay. Thank you,
5 Elena. We are going to go to Betty Bush and Miguel
6 Valdez. And then we are going to go to Lisa Stiles,
7 Dale Jones, Doug Smith, and Barbara Crawford. And
8 this is Barbara Bush.

9 MS. BLACK: Hello. I am Betty Black. I'm
10 speaking for --

11 FACILITATOR CAMERON: How did I get that?

12 MS. BLACK: Not Bush. I am speaking this
13 evening as a representative of the Piedmont Group of
14 the Sierra Club, which has over 1,200 members residing
15 in central Virginia.

16 The Sierra Club is opposed to the
17 construction of a new reactor at the North Anna Power
18 Station. We believe that the on-site storage of
19 radioactive waste poses unreasonable environmental and
20 security risks for the people of Virginia.

21 Building new reactors will increase these
22 risks and leave our children and grandchildren with a
23 horrible burden. The North Anna Power Station already
24 threatens the water resources of this region.

25 One, water temperatures have reached as

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1 high as 106 degrees Fahrenheit in the Lake Anna
2 cooling lagoons and 93 degrees in the main lake.
3 There are no limits on these water temperatures. The
4 human brain eating Naegleria fowleri amoeba was found
5 in both the main reservoir and the cooling lagoons.
6 This same amoeba caused deaths in Florida, Texas, and
7 Arizona last summer. It proliferates in water around
8 86 degrees and thrives especially well at 95 degrees
9 and above.

10 Let's see. This is the third. PCBs have
11 been found in Lake Anna, resulting in a fish
12 consumption advisory by the State Health Commissioner.

13 Four, a major clam die-off occurred last
14 year, but no study has been conducted by a certified
15 -- I can't read that -- malacologist. Does anybody
16 know what that is? Malacologist -- okay -- to
17 determine the health of the muscles and clams in Lake
18 Anna.

19 Lake Anna is the smallest body of water in
20 the eastern United States that provides water for
21 cooling a nuclear power plant. The two operating
22 reactors are putting a tremendous strain on the water
23 resources of central Virginia, particularly during
24 times of drought. Additional reactors will threaten
25 the water that Virginians use for drinking,

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1 agriculture, and recreation. They will put increasing
2 pressure on the ecosystem of the York River watershed.

3 I'm almost finished. We support the legal
4 appeal that has been filed in state court by the Blue
5 Ridge Environmental Defense League and the People's
6 Alliance for Clean Energy. Permits for new reactors
7 should not be considered until this issue has been
8 resolved.

9 The NRC should take the advice of the
10 governing bodies of the City of Charlottesville and
11 Spotsylvania County when they passed resolutions
12 calling for a moratorium on the construction of any
13 new reactors.

14 Thank you for listening to my comments.

15 FACILITATOR CAMERON: Thank you, Betty.
16 And did you say you are from Sierra Club?

17 MS. BLACK: Yes.

18 FACILITATOR CAMERON: Is that Sierra Club?
19 Okay.

20 MS. BLACK: I'm sorry.

21 FACILITATOR CAMERON: Thank you. No.
22 That's fine. Well, now that I know that Barbara Bush
23 isn't here -- what? Thank you. Thank you, Paul. And
24 this is -- is it Miguel Valdez?

25 MR. AU CLAIR-VALDEZ: Close. I am Miguel

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1 Au Clair-Valdez. I am from Charlottesville. I have
2 two points I would like to address. They have been
3 touched on.

4 The first is as a neighboring city council
5 just down the road, there was a resolution signed and
6 sealed on December 17th. And I would just like to
7 read the most germane section. And that is, "Now,
8 therefore, it is resolved that the City of
9 Charlottesville shall petition the Commonwealth of
10 Virginia to create a mandatory renewable portfolio
11 standard for public utilities and, further, to place a
12 moratorium on new coal-fired power plants, such as
13 proposed for Wise County and expansion of existing
14 nuclear power plants, such as proposed for North Anna
15 until there has first been a significant expansion of
16 investment in energy conservation and energy
17 efficiency efforts and development of renewable energy
18 alternatives."

19 The other thing I would like to speak
20 about that has been discussed is the water issue.
21 Last October the Virginia Department of Environmental
22 Quality reissued the 316(a) variance to Dominion,
23 which permitted the utility to continue to dump water
24 used to cool the nuclear generating units at Lake
25 Anna, which have been discussed. There has been

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1 reference to the cooling lagoon, reaching temperatures
2 of 106 degrees Fahrenheit.

3 Now, as a retired administrative law
4 judge, it would seem to me that if we go with the same
5 standards that the applicants used when they first
6 came in, we are missing the point.

7 I can't imagine that Dominion came in and
8 say, "You know, we've got this great cooling system.
9 We're going to have 106-degree Fahrenheit water in our
10 cooling lagoons." I can't imagine they said that.

11 So they have proven, in fact, that there
12 are some real suspect operations in terms of what they
13 are doing. So if the NRC again uses this neutral kind
14 of standard with somebody who already has one strike
15 against them, they're missing the boat.

16 They've go to say, "Look, the applicant
17 has not performed satisfactorily in the past. The
18 stakes are so high we are actually going to have a
19 presumption against them." And until they can come up
20 with convincing evidence to the contrary, they're not
21 going to get a pass from us.

22 The other thing is that this temperature
23 is in violation of the Clean Water Act since Lake
24 Anna, as has been pointed out, is surface water of the
25 U.S.

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1 Now, I'm part of the People's Alliance of
2 Clean Energy. Also we heard Lou speak from the Blue
3 Ridge Environmental Defense League. Three residents of
4 Louisa have petitioned, have filed suit against that
5 decision of reissuing 316(A) and hopefully will be
6 successful. We are confident about that.

7 But, in the meantime, I am concerned about
8 the condition of the quality of life. And the drought
9 conditions in the past summer decreased the level, the
10 lake levels, as well as downstream flow. Another
11 reactor would simply increase the need for cooling
12 water. More hot water will be released in the lake,
13 which will increase evaporation and further decrease
14 lake levels as well as downstream flow into the North
15 Anna and Pamunkey Rivers.

16 I have canoed in those rivers. I would
17 really like the opportunity to be able to continue to
18 do that, to have my children do that and my
19 grandchildren to do that. And the only way that can
20 be guaranteed is for the NRC to make sure that they
21 protect that natural resource and not provide it for
22 wasteful, inefficient, and consumptive new and old
23 nuclear units.

24 Thank you.

25 FACILITATOR CAMERON: Thank you, Miguel.

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1 Thank you. Yes. Thank you. That would be great.

2 Thank you.

3 And now we are going to hear from Lisa,
4 Lisa Stiles.

5 MS. STILES: Hello. A lot of us have been
6 here before. I noticed as I was preparing my remarks
7 I had to change every year how many years I have
8 worked in the nuclear industry. This year is 13. The
9 original one in 2005 was 10.

10 My name is Lisa Stiles. I live in Henrico
11 County. I am a nuclear engineer with degrees from the
12 University of Missouri-Rolla and the Massachusetts
13 Institute of Technology and, as I said, have been in
14 the nuclear industry for 13 years.

15 I am also the President of the
16 International Youth Nuclear Congress. IYNC was formed
17 in 1998 and is a network of young professionals in
18 over 50 countries with the goals of developing new
19 approaches to communicate the benefits of nuclear
20 power, promoting the peaceful uses of nuclear science
21 and technology and transferring knowledge from today's
22 leading experts to the next generation.

23 IYNC supports the expanded use of safe,
24 clean, and reliable nuclear power as part of a
25 balanced energy portfolio that will serve the world's

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1 growing energy needs while minimizing the impact to
2 our environment.

3 IYNC supports Dominion's combined license
4 application and NRC's detailed review process that
5 solicits public participation and ensures that all
6 safety, licensing, and environmental issues are
7 resolved prior to the majority of the capital
8 investment to build is made.

9 Two issues not addressed in the early site
10 permit are detailed in chapters 8 and 9 of the COL
11 application. And those are the need for power and
12 evaluations of the alternatives. Clearly the need for
13 4,000 megawatts of new generating capacity, with 2,000
14 of that being base load, is well-documented and
15 validated by the PJM Interconnection Corporation.

16 Also, the evaluation of the alternatives
17 available to meet future energy needs show that to
18 best meet Virginia needs, nuclear must play a large
19 part. Those items and the others considered as part
20 of Dominion's ESP permit successfully fulfill the
21 environmental portions of the licensing regulations.
22 In fact, Dominion's ESP license is an example of how
23 well the licensing process is working.

24 When the local community voiced its
25 concern over escalating water temperatures on the hot

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1 side of Lake Anna, Dominion revised its application to
2 include a closed hybrid cooling system. I would like
3 to add here that one of the benefits of the hot side
4 is I can still go swimming in the middle of November.

5 Given that success story of the licensing
6 process, I find it ironic that the new talisman of
7 anti-nuclear groups appears to be water consumption
8 and drought. Unfortunately, they have been successful
9 in getting media outlets to carry their erroneous
10 message that nuclear power plants are particularly
11 vulnerable to shutdowns during periods of high
12 temperatures and drought. In fact, nuclear power
13 plants are among the most reliable power options
14 during extreme weather conditions. But let me set up
15 the overall picture.

16 All power plants that use steam to turn a
17 turbine and a generator shaft rely on water. Ninety
18 percent of our electricity is made this way: with
19 coal, natural gas, and nuclear plants. But the amount
20 of water actually consumed is small relative to the
21 amount of power produced and is very small compared to
22 other uses.

23 Electric power generation accounts for
24 only about three percent of freshwater consumption in
25 the U.S. The largest portion, 80 percent, is used for

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1 irrigation. And the next largest consumption is for
2 residential use, at seven percent.

3 There is nothing unique to nuclear power
4 plants about the possibility of reducing electricity
5 production because of decreased water levels in a
6 drought or a severe heat wave. Whether this happens
7 depends on what is constrained in local, state, and
8 federal permits and the assumption of flow rates,
9 temperatures, and water levels used in the safety
10 analyses.

11 In the few recent cases, the nuclear
12 plants have had to reduce power. It was not because
13 they have had trouble operating. It is because they
14 are ensuring they meet the conditions of their
15 licenses and permits.

16 And there are many things that recent
17 claims and stories didn't mention, such as though the
18 last August heat wave is often mentioned, most stories
19 fail to point out that during the hottest weeks, the
20 nation's nuclear power plants were running at 98
21 percent capacity factor.

22 During California's heat wave in 2006, in
23 which 60 people died, San Onofree and Diablo Canyon
24 nuclear power plants were running at full output. On
25 the other hand, the capacity factor for the state's

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1 wind farms was an abysmal four percent.

2 This performance for wind turbines during
3 a heat wave is not unusual. According to the Energy
4 Information Administration, capacity factors for wind
5 farms are always the lowest during the hottest months
6 of the year.

7 Other widely touted alternatives have
8 problems, too. Hydroelectric and thermal solar use
9 more water per megawatt hour produced than nuclear.
10 The already low efficiency of solar photovoltaics
11 drops even further at high temperatures. And we
12 certainly don't want to depend on being able to grow
13 corn, sugar, or switch grass, or anything else during
14 a prolonged drought.

15 The single largest nuclear facility in
16 North America is in the middle of the desert in
17 Arizona. And it does not suffer from any
18 drought-related setbacks simply because water
19 conservation was built into the design.

20 In fact, nuclear power plants are one of
21 the best alternatives if we are looking at a future of
22 higher temperatures and lower water levels because
23 they can be designed to minimize water usage and can
24 also be modified later if conditions drastically
25 change; hence, the number of new plants being proposed

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1 with wet and dry cooling towers and older plants being
2 retrofitted with helper cooling towers.

3 Consider the other end of extreme weather.

4 When the Northeast United States get hit with several
5 blizzards in a row and the trains carrying fuel can't
6 get through, and natural gas prices are through the
7 roof, and all the while the nuclear power plants are
8 humming along better than ever, I just find it hard to
9 believe that conservation, solar, wind, corn, and
10 switch grass are going to save the day.

11 Just like nuclear power, they all have
12 their place in a diverse energy portfolio. They all
13 have their pros and cons. But none alone is the
14 answer to our energy and environmental problems.

15 With that, I come back to what has become
16 my mantra, that as citizens of this nation and the
17 world, we need to evaluate all energy technologies
18 with the same set of objective criteria, whether they
19 relate to lifetime emissions, economic issues, -- I
20 started making notes as the speakers were going on --
21 waste streams, or environmental footprints.

22 When we consider all of those criteria
23 objectively, then we need to thoughtfully deploy all
24 our energy technologies so we meet the needs of all
25 members of society, especially those that are

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1 disadvantaged and minimize the impact to our
2 environment. If we do that thoughtfully and
3 carefully, we will find that we need all energy
4 technologies, including nuclear.

5 As one speaker put it, nuclear is not the
6 cheapest or the cleanest. In this country, that would
7 be hydro. But, in addition to the limit imposed by
8 the number of adequate sites for hydroelectric power,
9 consider that per-kilowatt hour produced, as I said
10 before, hydro consumes much more water than nuclear.
11 And as far as safety, far more people have been hurt
12 or killed by dam breaks in this country than by
13 nuclear power plants.

14 What I am saying is that there is no one
15 energy technology that is safest, cleanest, and
16 cheapest. We have to thoughtfully maximize the
17 benefits and minimize the risks of each one to solve
18 our energy and environmental problems.

19 I was going to end here, but then I
20 started taking notes with all the other speakers. So
21 I just wanted to make a few small points. Dr. Bryan,
22 is he gone? Darn it. I was going to let him know.
23 He mentioned that Three Mile Island is considered as a
24 reference case in either the ESP or the COL, wherever
25 he had his comment. And I wanted to tell him that

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1 Three Mile Island was a PWR, pressurized water
2 reactor.

3 The reactor we are proposing or that
4 Dominion is proposing here is ESBWR, a boiling water
5 reactor. What happened at Three Mile Island can't
6 happen at a boiling water reactor.

7 Life cycle emissions. Oh, well. Am I
8 getting short on time? If I had time, I wanted to
9 address the real life cycle emissions analysis:
10 nuclear waste compared to other energy technologies;
11 government support compared to other technologies;
12 radiation sources and benefits; Davis-Besse; energy
13 security versus energy independence; the real story on
14 the Duke enrichment facility; how the waste heat
15 treatment facility really works; and, of course, the
16 circle of life, but I think I have to end here.

17 Thank you.

18 (Applause.)

19 FACILITATOR CAMERON: Okay. Thank you.
20 Thank you, Lisa.

21 And Dale, Dale Jones, and then Doug Smith
22 and Barbara Crawford. This is Dale Jones.

23 MR. JONES: Hi. My name is Dale Jones. I
24 have a residence right on the edge of the Lake Anna.
25 I thank you very much, Dominion.

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1 I am President, current President, of the
2 Lake Anna Boating and Recreation Association. Lake
3 Anna Boating and Recreation Association has concerns
4 that the proposed cooling towers for the third nuclear
5 reactor at Lake Anna will create an additional adverse
6 impact when lowering the lake levels, lower lake
7 levels when compared to the safety and welfare of the
8 estimated 500,000 boating and recreation enthusiasts
9 that live at and visit the lake.

10 Lake Anna has hundreds of stumps and
11 boulders that were not removed prior to the hurricane
12 filling the lake. When the lake level starts to
13 decline below the 250-foot level, many hazardous
14 conditions are created. The reduced water level has
15 already caused numerous boating accidents on the lake
16 and from these submerged objects. During the drought
17 in years 2002 and 2007, I observed from my pier as
18 many as 10 or more boating mishaps a week.

19 Unsafe low water conditions cause many of
20 the people that previously boated here to look
21 elsewhere for the boating recreation. This causes a
22 negative impact on our local business community. Many
23 Lake Anna businesses rely on the sales that are made
24 in the spring, summer, and fall months. The low water
25 condition affects real estate, construction, marinas,

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1 dock builders, restaurants, banks, fishing guides,
2 boat sales, repair shops, et cetera.

3 The business owners that we had personally
4 spoken to -- and we haven't spoken to all of them --
5 have all concurred that the low lake levels will
6 adversely impact their businesses.

7 According to Dominion Resources, a
8 proposed wet/dry cooling system will remove up to 24
9 million additional gallons of water from the lake per
10 day except when they are in the water conservation
11 mode. In the conservation mode, they will evaporate
12 16 million gallons of water a day. This would cause
13 the lake water level to drop more than 12 inches of
14 water annually.

15 During the past ten years, we experienced
16 several periods of drought that reduce the lake levels
17 from the requisite 250 to below 245 feet level.
18 During the drought in 2007, the lake level dropped 3
19 and a half feet. Further adding to the problem is a
20 requirement of dumping a minimum of 26 million gallons
21 of water per day from the lake to supply the
22 businesses located below in Hanover County.

23 Presently there are over 40 million
24 gallons of water being removed daily from the lake
25 over the dam. And the lake is still below 250 feet.

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1 A comprehensive study should be completed to evaluate
2 the amount of water that is flowing into the lake when
3 drought conditions prevail. Obviously for the last 8
4 years, there has been insufficient water flow to
5 maintain the 250-foot level during the critical summer
6 months.

7 The consumption of an additional 24
8 million gallons of water a day only aggravates an
9 already serious condition. If the proposed cooling
10 towers are to be used, then consideration must be
11 given to other options to conserve and/or send water
12 back into the lake for environmental concerns and
13 public safety as the lake was originally designed.

14 This is required to help facilitate the
15 needs of the nuclear power plant, control water for
16 usage in Hanover County, provide safer boating
17 conditions on the lake for recreation, and ultimately
18 help restore and promote business for all of the
19 communities.

20 The Lake Anna Boating and Recreation
21 Association recognizes and appreciates the many
22 benefits that are derived from the Dominion Resources,
23 including construction of the lake. Many of our
24 members, friends, and neighbors enjoy employment,
25 which we have seen here tonight, a lot of them. They

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1 have enjoyed home ownership and business due to their
2 presence.

3 In the past, we have considered them to be
4 a good neighbor and would expect that in the process
5 of planning for future business expansion, Dominion
6 Resources would be considerate of the needs of the
7 public and continue to help maintain a healthy lake
8 condition, as promised, rather than purposely destroy
9 them. The maintenance of the 250-foot water level
10 will only help ensure the continued success as well as
11 others in the community.

12 Now, outside the written paperwork, I
13 would like to make a point. This summer we are going
14 to educate probably about 40 people in the use of
15 personal watercraft. I don't know how many of you
16 people are boaters, but a boat that is traveling 35 to
17 40 miles an hour and hits a solid object and stops
18 suddenly has a terrible force in throwing people over
19 the side of the boat and the front.

20 Probably half of these people we are going
21 to educate are going to be kids, children around 15 or
22 16, 17 years old. They have no idea what to expect
23 that is going to hit them three inches below the
24 water.

25 To give you an example -- and it's kind of

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1 graphic -- in the year 1982, while boating in the
2 Patuxent River in southern Maryland, we happened to
3 see a boat hit -- actually, we didn't see it hit it
4 because it was buried three inches below the water --
5 a telephone pole. How it got there we don't know.
6 The boat flipped, went up in the air, exploded,
7 decapitated the driver, and the son was never found.

8 That's just an example, an extreme
9 example, of what we could expect with all the
10 conditions that might happen when this water level
11 drops. I think we need to look at the situation and
12 make sure that we correct it.

13 Thank you.

14 FACILITATOR CAMERON: Thank you. And this
15 is Doug, right, Doug Smith? Okay. Then Barbara
16 Crawford, and then we are going to go to J. R. Tolbert
17 and Pratt Cherry if Pratt is still here. Go ahead.
18 Sorry.

19 MR. SMITH: Thank you, Chip.

20 I am Doug Smith. I am a resident of
21 Louisa County. I own property on the Lake Anna
22 waterfront. And I am Vice President of the Lake Anna
23 Civic Association and Chair of their Lake Level
24 Committee.

25 LACA promotes water safety, monitors water

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1 quality, and advocates the interests of residents and
2 users of Lake Anna. LACA supports the proposed third
3 unit at Lake Anna. We believe it is good for the
4 community, the State of Virginia, and the country.

5 The new unit will bring 750 new jobs to
6 the local area, additional tax revenues, and reduce
7 the dependence on foreign oil, providing enough
8 electricity to provide 375,000 homes.

9 We applaud the NRC in its review of the
10 environmental impacts as a part of the early site
11 permit process. However, we have concerns about the
12 impact of the operation of the third unit that we
13 would like the NRC to focus on in the development of
14 the new supplemental environmental impact statement.

15 First, in order to support the operation
16 of a new unit and 750 workers hired to operate and
17 maintain it, Dominion plans to build a second waste
18 treatment plant to locally process human and other
19 wastes. The treated effluent of that plant, like the
20 effluent from the existing waste treatment facility,
21 would be dumped into Lake Anna at the discharge canal.

22 Lake Anna is not a free-flowing stream.
23 The added nutrients from the effluent will remain in
24 the lake and accumulate over the years. The build-up
25 of nitrates can produce algae blooms that produce fish

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1 kills and encourage plant growth, such as Hydrilla,
2 that can choke entire bays.

3 An alternative system that would store the
4 effluent and use it to water grass or wooded areas is
5 available. It is currently in place in the Town of
6 Louisa and is planned for the golf community called
7 Cutalong on Lake Anna.

8 We ask the NRC to review the cumulative
9 impact of dumping sewage effluent into Lake Anna.
10 This is legitimate because it is an unresolved issue
11 in supplement number 1. And, as far as I can tell, we
12 have never looked at the accumulated effect of the
13 dumping of the sewage effluent.

14 We would like Dominion to consider an
15 alternative method and include the existing sewage
16 treatment facility effluent so that no effluent is
17 dumped into the lake at all.

18 Second, low water levels on Lake Anna
19 expose safety hazards to thousands of recreational
20 users of the lake, create increased erosion along the
21 shoreline, and damage wetlands and other aquatic life.

22 Every effort to mitigate these impacts
23 should be carefully considered. We ask the NRC to
24 focus its attention in the combined operating license
25 and environmental impact statement on the impact of

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1 low water levels on the lake, its users, and its
2 ecosystems.

3 The third unit will consume 16 million
4 gallons a day in the water conservation mode,
5 resulting in the loss of 1.4 inches of lake level per
6 month. If the third unit were operating this last
7 year, the lake would currently be 15 inches lower.
8 Its low point last fall would have been an additional
9 nine inches, making this more than four feet below
10 normal.

11 The existing environmental impact
12 statement assumes one drought every 20 years. We have
13 had 2 official droughts and reached the drought
14 condition of 248-foot level on the lake in 5 of the
15 last 8 years. Clearly the water level modeling is
16 suspect.

17 The ESP EIS claims that wetlands impact is
18 small because as much wetland is created as is
19 destroyed, but is silent about the impact of what
20 appears to be an almost annual reduction to the
21 248-foot level.

22 The NRC should review modeling done in the
23 environmental impact statement to incorporate new
24 actual data and do further analysis of deviations from
25 the 20-year averages.

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1 Additionally, inflow assumptions have not
2 been field-verified and should be reviewed. Dominion
3 has developed new data, including actual surveys of a
4 portion of the wetlands on the lake. We ask that NRC
5 carefully review and use this new data to determine if
6 it alters its earlier impact assessment. Additional
7 steps can and should be taken to mitigate low water
8 level impact on safety, erosion, and ecosystems on the
9 lake.

10 In summary, the Lake Anna Civic
11 Association supports the third unit, but we have
12 concerns that should be addressed in the environmental
13 impact statement. We are concerned about the dumping
14 of sewage effluent into the lake and the impact of low
15 water conditions on safety, erosion, and aquatic life.

16 We ask the NRC to review long-term impact,
17 and we ask Dominion to consider a new alternative to
18 include the dumping of effluent. We are concerned
19 about the impact of low water levels. New information
20 is available to better estimate low water level
21 impacts, and steps can be taken to mitigate those
22 impacts.

23 We ask the NRC to focus its new efforts on
24 reviewing the modeling assumptions made on water
25 levels, performing further analysis of impacts on the

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1 lake and considering potential mitigation efforts.

2 Thank you.

3 FACILITATOR CAMERON: Okay. Thank you.
4 And thanks to the civic association also.

5 Barbara? And then we're going to go to J.
6 R. Barbara, Barbara Crawford?

7 MS. CRAWFORD: Yes. My name is Barbara
8 Crawford. I live here in Louisa County, about six
9 miles from the nuclear power plant.

10 Before I give my comments, a gentleman by
11 the name of George Heino prepared a statement for
12 tonight. And he was injured this afternoon, I don't
13 think seriously, but he is unable to walk. And he
14 asked me to read his statement into the record.

15 "As you are well aware, Virginia has been
16 in drought conditions for some time. This has been
17 true at Lake Anna, where water levels have been down
18 from 2 to 5 feet in 5 of the past 8 years, 3.5 feet
19 this year.

20 "The majority of docks at Lake Anna only
21 have three feet of water. When water levels are down
22 two feet, the lake becomes unusable for the majority
23 of homeowners.

24 "Dominion is now proposing unit 3, which,
25 per their documentation, will double the drought cycle

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1 and increase its length from 21 to 40 days. Of
2 course, this occurs when the lake is most used in the
3 summer months.

4 "Up to 24 million gallons a day will be
5 extracted from the lake." I think he means via the
6 proposed unit 3 cooling through evaporation.

7 "Dominion, VEPCO, was allowed to build
8 their reactors as long as the lake provides
9 recreation. Their proposed design will limit that
10 significantly. Other impacts are unsafe water
11 conditions, which occur at low water levels; boating
12 hazards; shoreline stabilization issues; impact to
13 wetlands; and impacts to business and home values.
14 These issues have fallen on deaf ears. The solution
15 is simple. Although it may cost more, it will ensure
16 Lake Anna continues to be a major state attraction.

17 "Dominion has proposed dry cooling for
18 potential unit 4. If this were used for unit 3 also,
19 then these major issues would go away. This type of
20 cooling is used in other countries. So we can use it
21 here. We cannot control Mother Nature, but we can
22 control what we do to the lake.

23 "Your support in ensuring that these
24 issues receive due consideration before it's too late
25 is requested."

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1 FACILITATOR CAMERON: Okay. Sorry. He
2 didn't get hurt here, did he?

3 MS. CRAWFORD: Do you mean at this
4 meeting?

5 FACILITATOR CAMERON: Yes.

6 MS. CRAWFORD: All I know is something
7 happened to his knee and he can't walk.

8 FACILITATOR CAMERON: Okay. Well, go
9 ahead. Go ahead, Barbara.

10 MS. CRAWFORD: Normally at these meetings
11 Harry Ruth speaks for the Friends of Lake Anna. He
12 is, fortunately for him, out of the country right now
13 enjoying vacation.

14 His statement on behalf of Friends of Lake
15 Anna has been e-mailed to appropriate parties. If
16 there's anyone here who did not get a copy of it and
17 wants a copy of that statement, if you will see me
18 after the meeting, I will e-mail a copy of his
19 statement to you.

20 Okay. Based on my analysis, it's clear to
21 me that the environmental impact statement, which is
22 prepared as part of the early site permit, needs to be
23 revisited because there have been significant changes
24 and there are critical issues that were not considered
25 or were dismissed as not relevant.

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1 First of all is the on-site storage of
2 spent fuel rods. This environmental impact statement
3 assumes the existence of a federal repository
4 somewhere in this country where all the spent fuel
5 rods can be sent. It gives the example of Yucca
6 Mountain.

7 Now, you folks from the NRC know that
8 Yucca Mountain is not going to open. I mean, you know
9 it. There's not going to be a Yucca Mountain.
10 Probably reactor number 3 if it's ever built will be
11 decommissioned before there's even a federal
12 repository.

13 So to only deal with the storage of spent
14 fuel rods as if it's going to be shipped somewhere as
15 dealing with a fairy tale. And you really need in the
16 new impact statement to deal with how you are going to
17 store the spent fuel rods on site at North Anna, not
18 just for reactor 3, but, you know, how are you going
19 to deal with all of that waste that is sitting there?

20 There are 104 operational reactors in this
21 country today assuming that Millstone is back on.
22 Some of you may have heard Millstone is a nuclear
23 power plant in Pennsylvania that is also owned by
24 Dominion that had an accident last week. And I don't
25 know whether it's back online.

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1 You know, last month we celebrated if that
2 is the right word. We acknowledged the anniversary of
3 Three Mile Island. And I found it ironic that Three
4 Mile Island made the news almost exactly on the
5 anniversary date. They had a security lapse.

6 You know, we should not pretend that the
7 nuclear industry is entirely safe. We need to keep
8 our eyes open, and we need to ask you, the Nuclear
9 Regulatory Commission, to be the watchdogs we need you
10 to be.

11 Another of my major concerns is the lack
12 of any sort of a mass evacuation plan in the
13 environmental impact statement. I was born in the
14 shadow of Three Mile Island. Now, granted, when I was
15 born, it wasn't there yet. But during that
16 near-catastrophic incident, my folks were still there.

17 They were not evacuated.

18 The NRC decided that in the interest of
19 national security, the citizens of central
20 Pennsylvania were written off as collateral damage. I
21 want to believe that that is no longer the policy of
22 the NRC.

23 I want to believe that there is a plan to
24 get us the heck out of here as fast as possible in the
25 event of a terrorist attack, either on the reactors,

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1 on the pools of spent nuclear fuel rods, on the dam.
2 I would like to believe that there is a plan.

3 And I bring this up whenever we have a
4 meeting. I bring it up in front of the Board of
5 Supervisors. I bring it up in front of the NRC. And
6 I to date have heard nothing.

7 Now, we finally have sirens that most
8 people can hear. And that is a big improvement. In
9 the last couple of years, when that siren is
10 practiced, it knocks you right out of your socks, and
11 that is terrific. But nobody knows when we head for
12 the hills, get as far away from here as possible. How
13 quickly are all the roads going to be two lanes going
14 one way away from Louisa County?

15 And I don't have to say it, I'm sure. You
16 know, we need the cooperation of all the surrounding
17 counties, from Hanover; Goochland; Fluvanna;
18 Albemarle; Orange; Spotsylvania; Caroline; and, of
19 course, the Cities of Fredericksburg and Richmond and
20 Charlottesville.

21 I mean, is there cooperation in this plan?
22 Does this plan exist? And why doesn't the
23 environmental impact statement talk about it? I think
24 we have a right to know. I feel very strongly about
25 that.

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1 FACILITATOR CAMERON: And are you ready to
2 wrap up?

3 MS. CRAWFORD: No.

4 FACILITATOR CAMERON: Okay.

5 MS. CRAWFORD: Oh, come on. I listened to
6 all those retirees and all those professors from Tech.

7 (Laughter.)

8 MS. CRAWFORD: And you're not going to
9 hush me up. You're not going to hush me up --

10 (Applause.)

11 MS. CRAWFORD: -- because they didn't come
12 here --

13 FACILITATOR CAMERON: Well, let's come on.
14 Let's go.

15 MS. CRAWFORD: They didn't come here to
16 talk about what this meeting is about --

17 FACILITATOR CAMERON: Okay.

18 MS. CRAWFORD: -- new and significant
19 changes.

20 FACILITATOR CAMERON: And I have a
21 recommendation for you on emergency planning, too. We
22 have one of our experts back there: Bruce Musico.
23 Bruce? Anybody who wants to talk emergency planning,
24 please talk to him.

25 MS. CRAWFORD: I would love to.

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1 FACILITATOR CAMERON: Okay.

2 MS. CRAWFORD: Please don't run away when
3 the meeting is over.

4 (Laughter.)

5 MS. CRAWFORD: I'll chase you.

6 FACILITATOR CAMERON: You're not getting
7 out of here tonight, Bruce.

8 MS. CRAWFORD: I'll chase you.

9 FACILITATOR CAMERON: Okay. Go ahead.

10 MS. CRAWFORD: Okay. All right. I'll
11 move right along.

12 FACILITATOR CAMERON: Okay.

13 MS. CRAWFORD: Central Virginia and
14 especially Louisa County is notoriously drought-prone
15 and water-poor. And Lake Anna is already struggling
16 to sustain reactors 1 and 2 and protect those who
17 live, work, and recreate on and around the lake.

18 Dominion based its location of the power
19 plant on the assumption that there will be drought
20 every 20 years or so. In fact, we have had three
21 major droughts in the past nine years.

22 We are currently experiencing a drought
23 that began last May that is now 11 months old and
24 shows no sign of abating. There are predictions from
25 the weather experts that this drought will continue

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1 throughout the spring and summer.

2 Lake Anna's lake level has dropped in
3 excess of two feet in five of the past years. This
4 fact alone suggests that the environmental impact
5 statement needs to be revisited.

6 The NRC needs to stop passing the buck to
7 the State of Virginia and deal with our water crisis.

8 You can't ignore it anymore. The previous EIS gave
9 this issue short-shrift, stating if there is a water
10 problem, it is Virginia's problem. Well, maybe it is
11 Virginia's problem, but for you to say that all the
12 DEQ has to do is tell Dominion to take one or more
13 reactors offline, does it make sense to build another
14 reactor? Does it?

15 If your solution to water problems is, oh,
16 the DEQ can tell Dominion to take a reactor offline, I
17 mean, come on. It's not going to happen. We're going
18 to continue to have these water problems.

19 The proposed third reactor will contribute
20 to further low levels at the lake, contrary to
21 Dominion's repeated statements that the hybrid cooling
22 system will not use additional water. According to
23 Dominion's own numbers, the proposed cooling system
24 will cause up to 24 million gallons of water to
25 evaporate every day.

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1 Again, given that Lake Anna is struggling
2 to sustain two reactors, that the ongoing low water
3 levels are causing all sorts of problems for the
4 people who live and work at the lake as well as the
5 many people of the county and beyond who use Lake Anna
6 for boating, fishing, swimming, et cetera, does it
7 really make sense to build another reactor there?

8 The previous EIS, environmental impact
9 statement, looked at the three counties bordering the
10 lake plus Henrico County -- and that is where Ms.
11 Snipes lives, right? -- I wonder if that is why they
12 don't get Henrico -- and the City of Richmond and
13 Fredericksburg.

14 Considering that the water that flows over
15 the dam goes into Hanover County and that Hanover
16 County is dependent on that water for sewage treatment
17 plans, private businesses, such as Big Bear Paper
18 Company and King's Dominion, and the health and
19 recreational uses of North Anna and Pamunkey Rivers, I
20 would argue that the new EIS should take a close and
21 hard look at the impacts on that county.

22 The LLCP, or lake level contingency plan,
23 is a fragile and contentious balance between Louisa
24 County and Hanover County and reflects the competing
25 needs for water.

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1 It is important to remember that the lake
2 was not just built for Dominion to use to cool its
3 power plant. The enabling legislation set forth very
4 clearly that Lake Anna was also created as a
5 recreational lake for the public to enjoy. One use is
6 no more important than the other. And one use; for
7 example, cooling the reactors, cannot be allowed to
8 destroy the lake's other use: its recreational use.

9 You will hear from others tonight or you
10 have probably, I guess, heard from others tonight
11 about the serious problems being encountered right now
12 in the lake because of the lake levels, blah blah
13 blah.

14 FACILITATOR CAMERON: Okay. And, Barbara,
15 I am going to have to ask you to sum up because you
16 have been going longer than most.

17 MS. CRAWFORD: Okay. Well, I talked for
18 three people --

19 FACILITATOR CAMERON: Well, yes. Usually
20 we --

21 MS. CRAWFORD: -- for Harry, for George,
22 and for myself.

23 FACILITATOR CAMERON: -- only let someone
24 talk for one. But it was fine to read that statement.

25 But could you just sum up for us --

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1 MS. CRAWFORD: Sure.

2 FACILITATOR CAMERON: -- so we can get
3 everybody else on? Thank you.

4 MS. CRAWFORD: Sure. It's important to
5 bear in mind that when Lake Anna was created, neither
6 Dominion nor any governmental body, whether federal,
7 state, or local, in any way discouraged the public
8 from purchasing land and building homes around the
9 lake. I would argue that there, therefore, exists a
10 responsibility to those homeowners to protect them
11 from the adverse impacts of the power station.

12 Okay. There is misinformation in here.
13 It is in my written statements. We have three housing
14 developments going up there plus three businesses that
15 are going to use a lot of water. You have the
16 information in your hands, and you put down that there
17 was nothing planned. I don't understand how that can
18 happen.

19 Right now Dominion has been ordered to do
20 an IFIM study. That stands for in-stream flow and
21 incremental methodology study.

22 FACILITATOR CAMERON: Okay. Barbara, can
23 we just enter that into the record?

24 MS. CRAWFORD: Okay. Just one more thing.
25 One more thing. When you guys were here in October,

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1 you represented to us that, in fact, you would send
2 our potassium iodide pills to the Department of
3 Health. And I brought it up to the Board of
4 Supervisors. I want you to bear in mind we don't have
5 our pills.

6 I think the NRC needs to look at its
7 manner of distributing the potassium iodine pills
8 because we need them. It's part of a level of safety
9 that you promised us.

10 FACILITATOR CAMERON: Thank you, Barbara.

11 MS. CRAWFORD: Yes.

12 FACILITATOR CAMERON: And this is J. R.
13 Tolbert. Thank you.

14 Is Pratt here? Okay. Great. Go ahead,
15 J. R.

16 MR. TOLBERT: Excellent. My name is J. R.
17 Tolbert. I work with Environment America. And I
18 promise that I will be brief because I know there are
19 a couple of more people who need to speak.

20 The interesting thing that I just wanted
21 to bring up is the fact that we have talked a lot
22 about CO2 emissions and the global warming effects of
23 nuclear power. And a lot of people have stood up and
24 said that nuclear power doesn't have a net carbon
25 emission, a net carbon imprint.

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1 Let me back up just one second and just
2 say science has already demonstrated that global
3 warming is real. It's affecting us right now. And
4 it's an issue that we have got to take action on
5 immediately. To avoid the worst consequences, we need
6 to stabilize emissions of pollutants within a decade
7 and decrease those pollutants by 80 percent by 2050.

8 I am just suggesting that nuclear power is
9 not the best way to decrease emissions. It's
10 important to recognize those emissions from cradle to
11 grave. From the point where we begin to take action
12 on mining the uranium, we are making an environmental
13 imprint. Okay? So we have to take that into account
14 when we're considering nuclear energy.

15 Furthermore, not just a process of the
16 mining of the uranium, but you have to enrich the
17 uranium, the construction of the reactor, the
18 disposing of the waste, which has been pointed out
19 over and over, -- we don't really have a way to
20 dispose of that waste right now -- as well as any
21 changes to the transmission line that would occur.

22 I know that someone has stood up here and
23 said that there don't have to be any changes to the
24 transmission line, but listening to our introduction
25 this evening, I heard that Dominion has said that we

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1 will have to change the transmission line. So that's
2 something that needs to be considered.

3 There are alternatives out there, though,
4 that are not anywhere near as expensive as the nuclear
5 energy is and have lower CO2 emissions than nuclear
6 energy.

7 If you look at wind power, which everybody
8 has bashed wind power a lot tonight, there is a very
9 interesting study from March 2007 from the Oxford
10 Research Group that just compares the carbon emissions
11 of nuclear power to the carbon emissions of wind
12 power. And, at its best, nuclear power has 4 grams per
13 kilowatt hour more of carbon emissions than wind power
14 and 44 more grams of carbon emissions per kilowatt
15 hour at its worst. So that's one thing to consider.

16 What do we need to consider? We need to
17 be considering ways to look at energy efficiency.
18 Energy efficiency is a realistic reliable way to do
19 it. And we can decrease our energy consumption by 20
20 percent and be able to have no net cost to the economy
21 as well as we need to shift to renewable energy.

22 And, to wrap up, I would say don't just
23 look at the cost of building the plant. Look at the
24 true cost associated with it. Taxpayers are what fund
25 nuclear energy. You fund it when the money comes out

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1 of your check every week from the federal government
2 taxes. You fund it when you have to buy the power
3 from the utility company. You are what's funding
4 nuclear power. And look at the true cost to people.

5 So when you are doing this cost-benefit
6 analysis, peel back more than just the look at what
7 the cost is and the economic benefit for the local
8 community and compare what would it be if we didn't
9 have the massive subsidies that are paying for the
10 nuclear energy right now.

11 Thank you very much.

12 FACILITATOR CAMERON: Thank you, J. R.

13 And we have a few people left. And we are
14 really running up into the time when the facility is
15 going to close. So I am just going to have to ask you
16 to try to give us your best brief shot on this.

17 And this is Pratt. Then we are going to
18 go to Michelle Richmond, Vicky, Joe Montague, Delbert
19 Horn. Then we have a couple of people. Go ahead,
20 Pratt.

21 MR. CHERRY: My name is Pratt Cherry, and
22 I live in Henrico County. I have worked in the
23 nuclear industry for 25 years. And I represent the
24 Nuclear Advocacy Network. The Nuclear Advocacy
25 Network is a grass roots initiative for the nuclear

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1 energy industry.

2 This organization was started just 6 weeks
3 ago. And already more than 2,500 members have joined
4 from across the country. Our members are nuclear
5 advocates for the nuclear energy industry and are
6 willing to take action and voice support for this
7 industry when given an opportunity in a public forum
8 such as this.

9 I am going to skip a lot of information
10 that has been iterated previously but saying that the
11 nuclear energy is a clean, safe, reliable energy
12 source. It is an important component of a diversified
13 energy portfolio. It is this industry that fuels the
14 American business and industry in this country. There
15 will be excellent job opportunities with the
16 development of North Anna unit 3.

17 And I want to wrap up by saying that the
18 Nuclear Advocacy Network supports North Anna unit 3
19 and what it can contribute to the Commonwealth of
20 Virginia.

21 Thank you very much.

22 FACILITATOR CAMERON: Okay. Thank you,
23 Pratt. Nuclear Advocacy Network. Okay.

24 And Michelle Richmond? All right. Go
25 ahead.

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1 MS. RICHMOND: Good evening. My name is
2 Michelle Richmond. I am with the Clean and Safe
3 Energy Coalition, otherwise known as CASEnergy. Led
4 by our national co-chairs, Christine Todd Whitman,
5 former EPA Administrator and former Governor of New
6 Jersey; as well as Dr. Patrick Moore, co-founder and
7 former leader of Greenpeace, the coalition boasts
8 1,500 members, individuals, and organizations across
9 the nation. And we locally support nuclear energy as
10 well as the construction of new reactors and are
11 actively engaged in generating a public dialogue to
12 inform others about the ways nuclear power enhances
13 America's energy security, growth, and development.

14 North Anna has been a reliable generator
15 of electricity for Virginia for many years. And we
16 hope it will continue to do so for many more in the
17 future. We support the NRC's recommendation and a
18 continuation of the licensing process that would lead
19 to new construction at Virginia.

20 Thank you so much.

21 FACILITATOR CAMERON: Thank you, Michelle.
22 Do you want us to put that in the record?

23 MS. RICHMOND: Yes. I'll give you a clean
24 copy.

25 FACILITATOR CAMERON: Okay. Great. I

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1 think we have Vicky and then Joe Montague and Delbert.

2 Did he give up? Okay. Vicky? And anybody who is
3 remaining -- and I'll call off the rest of the names.

4 If you have a written statement, we'll put that in
5 the record.

6 Go ahead, Vicky.

7 MS. HARTE: Hi. I'm a representative of
8 Women in Nuclear Global and a 24-year resident of the
9 Town of Louisa. Our organization is supporting
10 approval of Dominion's combined operating license and
11 supplemental environmental impact statement.

12 We are a worldwide association of
13 individuals focusing on women working professionally
14 in various fields of nuclear energy and radiation
15 applications. Our vision is to make the public aware,
16 especially women, of the benefits of nuclear and
17 radiation applications.

18 While many of our members are employed in
19 the nuclear energy sector, a lot are a part of
20 research, medicine, agriculture, health care,
21 sterilization, and research on decreasing low-carbon
22 emissions, and creating from nuclear energy. We
23 promote and advance the peaceful use and public view
24 of nuclear technology.

25 On a scale of zero to 10, 35 percent of

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1 women -- this is over the world -- opinion leaders
2 rated their knowledge of nuclear power as a level 2 or
3 lower. We have found the most effective way to
4 communicate with women is through education by women.

5 WIN Global has determined that marketing efforts only
6 increase women's distrust of the industry.

7 With women controlling 80 percent of the
8 consumer dollars spent in North America and with the
9 distress in the industry, this is the most significant
10 hurdle that must be overcome in order to open the
11 minds of women to nuclear energy.

12 The public perception of nuclear is that
13 there is a growing recognition that nuclear power is
14 the only large-scale generation source that will
15 significantly lower global greenhouse gas emissions.

16 There is a flyer that I have seen here in
17 Louisa that doesn't say who it's from, but on it, it
18 has one or two residents in the County of Louisa will
19 have cancer. And 50 percent of those one out of 2
20 will lose the battle and die.

21 Now, I have lived here for 25 years. And
22 I could tell you that half of the people that I know
23 have not gotten cancer and a quarter of them are not
24 dead.

25 So this type of information is being

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1 distributed in the country. And mostly the places I
2 have seen it is where women participate more. And
3 that is because one of the scare tactics. Women, our
4 concern is on our families.

5 So we look at it from a more emotional
6 view than the technological view. And when flyers
7 like that are distributed throughout the county, you
8 can imagine what people think. Now, they also do not
9 say anything about the surrounding counties that are
10 also on Lake Anna. It just talks about Louisa.

11 So in the nuclear industry, two-thirds of
12 the world's radioisotopes are used for nuclear
13 medicine and 75 percent of the world's cobalt-60 is
14 used to sterilize 40 percent of the world's medical
15 supplies.

16 Areva, which is a French nuclear cycle,
17 has achieved carbon neutrality in 2007. Research
18 indicates that with no global carbon control,
19 emissions will triple by 2110.

20 Should the world act as one to impose a
21 tax on carbon dioxide emissions, that tax might have
22 to increase as high as \$800 per ton of carbon. The
23 ultimate goal of this research is to create an
24 energy-agriculture economy model containing full
25 linkages with the environmental impact, including

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1 feedback.

2 So my final message is that radiation is a
3 part of our life. If used in the right way, it is
4 beneficial. Nuclear industry cares for the
5 environment and all of its activities. It can make an
6 important contribution towards a sustainable energy
7 supply for the future of the world and, in particular,
8 Third World countries.

9 FACILITATOR CAMERON: Okay.

10 MS. HARTE: That is it.

11 FACILITATOR CAMERON: Thank you.

12 MS. HARTE: You are welcome.

13 FACILITATOR CAMERON: Thank you very much.

14 Joe, Joe Montague?

15 MR. MONTAGUE: Thanks. My name is Joe
16 Montague.

17 As was mentioned during the introduction
18 this evening, acronyms and metaphors are quite popular
19 and well-used in the context of nuclear power. For
20 example, the term "SCRAM," while describing a
21 well-practiced and regimented procedure for safely
22 controlling a potentially dangerous situation, is
23 often cited as representing the supposed inherent
24 risks and used metaphorically to describe what we
25 should do.

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1 There are a few acronyms and metaphors
2 that have arisen out of the so-called environmental
3 movement as well. Some appear to be strongly rooted
4 in the land of fruits and nuts. For example, while
5 watermelons appear green on the outside, closer
6 examination often reveals a core that, in addition to
7 being rather seedy, is opposed to the socioeconomic
8 and political systems upon which a free society is
9 based.

10 At the tremendously overblown risk of
11 exposing myself and the others in this room to the
12 hazards of an unshielded, albeit natural source of
13 radioactive potassium, let's look at another fruit and
14 its associated metaphor: the banana.

15 This has been used to describe someone
16 who, rather than simply espousing the more local not
17 in my backyard, or NIMBY, philosophy advocates that
18 nobody build absolutely nothing anywhere near
19 anything.

20 However, to express my support for the
21 plans to construct and operate a safe, economical,
22 reliable, proven asset to the overall energy mix used
23 to make electricity, I would like to also say banana:
24 Build a Nuke at North Anna.

25 (Laughter.)

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1 MR. MONTAGUE: Thank you.

2 FACILITATOR CAMERON: Okay. All right.
3 Dan Penn, Bill Murphey, Mark Paul, Dennis Schaible,
4 Todd Flowers, Gary Muller, anybody. Murphey? Okay.
5 Come on up. And your name is?

6 MR. SCHAIBLE: Dennis Schaible.

7 FACILITATOR CAMERON: Okay. And then we
8 have Mr. Murphey. Okay.

9 MR. SCHAIBLE: I'll take the first page of
10 boilerplate and put it there. And I must admit at
11 first I am a shareholder in Dominion Resources. And I
12 am a founding member of the Friends of Lake Anna and
13 responsible for giving it its name.

14 And so I support the power plant on two
15 fronts, but I will have to say I have one overriding
16 concern. And that is that North Anna is supplied by
17 one of the smallest bodies of water supporting a
18 nuclear power plant. And if we add an additional more
19 than 50 percent, unless Dominion has figured a way to
20 suspend the laws of physics and chemistry, we are
21 going to have hotter water, we are going to have less
22 water, and we are going to have lower levels in the
23 lake.

24 Now, a lot of this can be mitigated by
25 keeping the water levels higher, allowing less water

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1 to go out over the dam, et cetera, and I would
2 recommend that the NRC require Dominion to come up
3 with proven solutions to the low water conditions
4 before the permits are issued.

5 That's it. Thank you.

6 FACILITATOR CAMERON: Thank you.

7 (Applause.)

8 FACILITATOR CAMERON: Mr. Murphey?

9 MR. MURPHEY: Hi. My name is Bill
10 Murphey. I am a resident here along the lake.
11 Everybody has been talking about problems. I would
12 like to talk about a solution.

13 One of the problems has been the idea of
14 the low level of the lake and the small input into the
15 lake. One of the solutions lies in what Louisa County
16 is already doing. That is getting water from the
17 James River and bringing it over to Zion Crossroads.

18 What we would like to do is recommend that
19 NRC work with the many other entities that are
20 involved in the water and have the makeup water for
21 the third unit piped over from the James River. Pipes
22 are going to go all the way to Zion Crossroads.

23 Already have heard about one of the county
24 commissioners bringing water up into the center of the
25 county. What we are saying is for Dominion and Louisa

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1 County, Fluvanna County, and the James River
2 Authority, along with NRC, work to have the water
3 makeup brought in from the James River.

4 FACILITATOR CAMERON: Thank you. Thank
5 you, Mr. Murphy. We will put that on the record.

6 Gene, do you want to say anything to us?
7 This is Gene Grecheck from Dominion.

8 MR. GRECHECK: Thanks, Chip.

9 It's been a long day. And I am not going
10 to stand here and reiterate everything that you have
11 already heard tonight. I do want to thank everybody,
12 particularly those who have stuck it out here all
13 night. It does really demonstrate a certain level of
14 interest and a level of commitment to resolving the
15 many issues that we have here.

16 So, again, I do appreciate everybody here.

17 I sat here. I've taken notes all night on many of
18 the comments that you have made. And, again, I just
19 want to remind you that, you know, we have been doing
20 this for a long -- I have been in charge of this
21 project since the beginning. You know, we went
22 through the ESP process, and now we are in this.

23 We did respond to public concerns before
24 about temperature. And I can assure you that we have
25 done everything that we know how to do in a practical

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1 sense to mitigate the effect of a proposed unit on the
2 lake. And we are obviously always continuing to look
3 at additional features.

4 Again, thanks for coming out tonight. And
5 let's look to the future.

6 Thanks, Chip.

7 FACILITATOR CAMERON: Okay. Thank you,
8 Gene. And thank all of you for your patience. I
9 think we got to everybody who signed up, at least
10 those who are still here.

11 I want to ask Nilesh Chokshi, who is our
12 Senior Manager for the NRC, to close the NRC's meeting
13 out tonight for us. Nilesh?

14 MR. CHOKSHI: Well, thank you. And I wish
15 that there were more -- it's so late -- people here so
16 I can thank everybody who participated, but I think it
17 is not only taking time but also actively
18 participating in this meeting and providing diverse
19 perspectives, comments, and concerns. That's why we
20 came here.

21 And I think, as all of you know, that this
22 is an open and participatory process that is very
23 vital for us to carry out our responsibilities under
24 the NEPA to develop our prepared environmental impact
25 statement for the proposed action.

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1 So I think I want to close this with
2 reminding you of two important deadlines, which Alicia
3 had emphasized in her presentation. The comment
4 period for environmental scoping comments ends on May
5 16th. And the deadline to file a petition to
6 intervene is May 9th.

7 And, finally, I think if you take the
8 feedback forms, which are outside, and mail it to us
9 with your comments, that would be great on this,
10 feedback on the conduct of this meeting.

11 So, once again, thank you. And those who
12 participated, I think it, once again, shows the value
13 of this participatory process. Thanks.

14 (Whereupon, the foregoing matter was
15 concluded at 11:11 p.m.)
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