

Official Transcript of Proceedings
NUCLEAR REGULATORY COMMISSION

Title: Limerick Generating Station License Renewal
Public Meeting: Evening Session

Docket Number: (n/a)

Location: Pottstown, Pennsylvania

Date: Thursday, September 22, 2011

Work Order No.: NRC-1128

Pages 1-87

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1 UNITED STATES OF AMERICA

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3 NUCLEAR REGULATORY COMMISSION

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5 PUBLIC MEETING TO DISCUSS THE LICENSE RENEWAL
6 PROCESS AND ENVIRONMENTAL SCOPING FOR LIMERICK
7 GENERATING STATION, UNITS 1 & 2

8 + + + + +

9 THURSDAY

10 SEPTEMBER 22, 2011

11 + + + + +

12 The Public Meeting met in the Sunnybrook
13 Ballroom, 50 Sunnybrook Road, Pottstown, Pennsylvania,
14 at 7:00 p.m., Richard Barkley, Meeting Facilitator,
15 presiding.

16 PRESENT

17 RICHARD BARKLEY, Meeting Facilitator, NRC

18 ROBERT F. KUNTZ, Project Manager, NRR/DLR

19 DENNIS C. MOREY, Branch Chief, NRR/DLR

20 LISA M. REGNER, Sr. Project Manager,

21 NRR/DLR

22 DAVID J. WRONA, Branch Chief, NRR/DLR

23
24 PUBLIC COMMENTERS

25 CATHERINE ALLISON

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JIM BECKERMAN
JEFF CHUMNUK, Pottstown Borough Council
TRACI CONFER, Energy Justice Network
DONNA CUTHBERT, Alliance For a Clean
Environment
LEWIS CUTHBERT, Alliance For a Clean
Environment, PhD
JIM DERR
DAN ELY
MICHAEL GALLAGHER, Exelon Nuclear
DANIEL LUDEWIG
JEFFREY G. NORTON, Pennsylvania Energy
Alliance
WILLIAM MAGUIRE, Exelon Nuclear
LORRAINE RUPPE
THOMAS SAPORITO, Saprodani Associates
FRED WINTER, MD

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

7:01 p.m.

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1 FACILITATOR BARKLEY: Good evening. Could
2 everyone take a seat so we can start the meeting?
3 It's actually about two minutes after 7:00. Okay,
4 good evening. For those of you who were not at the
5 afternoon meeting my name is Richard Barkley. I'm the
6 meeting facilitator for this meeting. We had a very
7 successful meeting this afternoon, 15 individuals
8 spoke and the meeting went very, very smoothly.
9 Hopefully that's the same situation this evening. If
10 you are interested in speaking hopefully you've signed
11 up. If not there is a sign-up sheet at the back or
12 you can see me and we'll work with signing you up.

13 I wanted to go briefly over some of the
14 ground rules for this meeting as we go through it. It
15 worked very well again this afternoon and hopefully it
16 will be fine this evening. First of all, one of them,
17 we ask you to sign up on a yellow speaker card and I
18 have that for individuals, or on a white piece of
19 paper that we had back there in the back. At this
20 point I have 12 people signed up. We had 15 this
21 afternoon but I'll probably pick up two or three as
22 this meeting goes on. To be fair the amount of time
23 allotted will be limited based on the number of
24 speakers who speak up or who ask to sign up. This
25 afternoon we went through 15 speakers in 75 minutes.

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1 It works out to about five minutes a person. Some of
2 them had a little variation but that seemed to be
3 adequate to present your remarks in a concise manner.

4 I typically call three people at a time so
5 the first person comes up, the other two people know
6 they're going to be called shortly thereafter. That
7 makes for a smooth transition from one speaker to the
8 next. And we do have one or two members of elected
9 officials here who have signed up and so I'll call
10 some of them and alternate between them and individual
11 members of the public.

12 At this point in time I believe there was
13 one representative of an elected representative in the
14 audience. Would any members who are elected officials
15 want to speak up? That was represented. Yes, sir.

16 MALE PARTICIPANT: I'm representing
17 Senator Casey.

18 FACILITATOR BARKLEY: Okay, thank you.
19 Anyone else? Yes, sir. Let's go on to the next slide
20 here. Yes, sure.

21 MS. ALLISON: I wondered if earlier today
22 you said you had 15 people speak.

23 FACILITATOR BARKLEY: I had 15 people
24 speak, yes.

25 MS. ALLISON: Now how many are allowed to

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1 speak at this meeting?

2 FACILITATOR BARKLEY: Right now I have 11
3 signed up but if more want to sign up it's fine. If
4 we work smoothly there's 15. I'm hoping this evening
5 we'll have roughly 15. Many of the same speakers that
6 spoke this afternoon will speak this evening.

7 MS. ALLISON: Okay. One other question.
8 I would like to know why sometimes according to this
9 we get five minutes and I know there are people who
10 have to speak but it's hard to say something so
11 important in five minutes. Something that -- it's
12 just --

13 (Applause)

14 FACILITATOR BARKLEY: And again, I
15 understand your point. There were several speakers
16 that actually went seven to eight minutes who I gave
17 latitude. If you have much longer comments this is
18 only one format to handle these comments. You can
19 also supply them in a written form. We have some
20 flexibility, I will give you flexibility but just to
21 follow the time that's -- go ahead.

22 MS. ALLISON: How many meetings do we have
23 like this to speak? How many opportunities do we have
24 to speak? That we have like this.

25 FACILITATOR BARKLEY: Meetings with the

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1 license-holder or just this facility?

2 MS. ALLISON: Where the public is allowed
3 to speak.

4 FACILITATOR BARKLEY: We have public
5 meetings on a very frequent basis but regarding
6 Limerick this is the first one related to license
7 renewal. But we have many, many comments that are
8 received in a written format versus in a verbal
9 format.

10 MS. ALLISON: Well, I'd like to know how
11 many opportunities the public gets to speak and why we
12 get five minutes.

13 FACILITATOR BARKLEY: Continuing on I
14 would ask you to silence your cell phones so we don't
15 have interruption. Yes, sir, I'm sorry.

16 MR. TROUT: If people who speak from the
17 floor could use their microphones then we could all
18 hear what you have to say.

19 FACILITATOR BARKLEY: Okay, understood.
20 The gentleman had difficulty hearing the question.
21 But I can summarize that. I'll talk to you privately
22 about that. Again, if we could speak clearly into the
23 microphone. This afternoon we had the microphone
24 facing backwards. You weren't facing the audience.
25 This time we're going to try to have it facing the

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1 audience. That seems to be a little bit more
2 desirable for speakers. Again, written comments are
3 welcome during and after this meeting. At some of our
4 licensees we have had many, many times as many written
5 comments provided regarding the Environmental Impact
6 Statement as we have in verbal comments. Some of our
7 stations, I think Indian Point had almost 2,000
8 comments submitted, only about 50 of them in a verbal
9 format in a meeting such as this. And then again if
10 there are questions or concerns regarding the conduct
11 of this meeting please see me and we'll work through
12 them. All right? Go ahead, Rob. I'd like to turn it
13 over to Rob Kuntz now, please.

14 MR. KUNTZ: Good evening. My name is Rob
15 Kuntz. I'm the Safety PM for the -- in charge of the
16 review for the Limerick Generating Station License
17 Renewal Application. I'd like to thank you all for
18 taking the time and attending the meeting this
19 evening. Tonight we will provide an overview of the
20 license renewal review process which includes both a
21 safety review and an environmental review. We will
22 describe to you the numerous ways and opportunities
23 the public can participate in the Limerick license
24 renewal process through either the safety or the
25 environmental renewal review. But the most important

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1 part of today's meeting is to receive any comments
2 that you may have on the scope of the environmental
3 review. We also will give you some information about
4 how you can submit comments if you prefer not to speak
5 at this meeting.

6 At the conclusion of today's -- tonight's
7 presentation we'll be happy to answer any questions
8 that you may have on the license renewal process.
9 However, I must ask you to limit your participation to
10 questions only and hold the comments until the
11 appropriate portion of the meeting. Once all
12 questions are answered we can begin to receive any
13 comments that you have on the scope of the
14 environmental review. Next slide.

15 Before I get into discussion of the
16 license renewal process I'd like to take a minute to
17 talk about the NRC in terms of what we do and what our
18 mission is. The NRC is a federal agency established
19 by the Energy Reorganization Act of 1974. We regulate
20 the civilian use of nuclear material. The Atomic
21 Energy Act of 1954 authorizes the NRC to grant a 40-
22 year operating license for nuclear power reactors.
23 The 40-year term was based primarily on economic and
24 antitrust factors, not on safety or technical
25 limitations. The Atomic Energy Act also allows for

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1 license renewal. The National Environmental Policy
2 Act of 1969, also referred to as NEPA, established a
3 national policy for considering the impact of federal
4 decision-making on the human environment. Lisa will
5 discuss NEPA in greater detail.

6 The NRC's regulations governing nuclear
7 safety, security and environmental protection are
8 contained in Title 10 of the Code of Federal
9 Regulations, often referred to as 10 CFR. In
10 exercising its regulatory authority the NRC's mission
11 is threefold: to ensure adequate protection of public
12 health and safety, to promote the common defense and
13 security, and to protect the environment. The NRC
14 accomplishes its mission through a combination of
15 regulatory programs and processes such as establishing
16 rules and regulations, conducting inspections, issuing
17 enforcement actions, assessing licensee performance
18 and evaluating operating experience from nuclear
19 plants across the country and internationally. The
20 NRC has resident inspectors at all operating nuclear
21 power plants. These inspectors are considered the
22 eyes and ears of the NRC. They carry out our safety
23 mission on a daily basis and are on the front lines of
24 ensuring acceptable safety performance and compliance
25 with regulatory requirements. Next slide.

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1 A little bit about the Limerick license
2 renewal. That application was received on June 22nd
3 of this year. The operating license is expiring in
4 2024 for Unit 1 and 2029 for Unit 2. A license can be
5 -- a licensee can submit an application up to 20 years
6 prior to the expiration of their license. The length
7 of the license cannot exceed 40 years and the renewed
8 license supercedes the previous license. Next slide.

9 The first step of the license renewal
10 process is to perform an acceptance and sufficiency
11 review of the application. When the NRC receives a
12 license renewal application the NRC staff examines it
13 to determine whether the application contains
14 sufficient information to justify the staff's review.

15 The staff looks to see whether the applicant has
16 provided enough information in terms of technical
17 information, technical specifications and the
18 environmental report so that the staff can begin its
19 work. If the application has enough in it to warrant
20 the staff's review then the application is considered
21 acceptable and sufficient and is put on the NRC's
22 docket. General information such as the applicant's
23 name and address, business and administrative
24 information, technical information about the plant
25 structures and components and how the applicant

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1 proposes to manage aging, pertaining to aging
2 management. This information is the focus of the
3 staff's safety review.

4 Technical specifications define the
5 operating parameters of the plant. The application
6 indicates what, if any, changes or additions to
7 technical specifications are necessary to manage the
8 effects of aging during the period of extended
9 operation. The application also includes an
10 environmental report which is the applicant's
11 assessment of the environmental impacts of continued
12 operation. This information is the starting point for
13 the staff's environmental review which will be
14 discussed a bit later in this presentation. Next
15 slide.

16 I'd like to mention a few very important
17 areas of NRC oversight that routinely come up during
18 our interactions with the public. NRC staff address
19 these areas of performance every day as part of the
20 ongoing regulatory oversight provided for all
21 currently operating power reactors. They include
22 current safety performance as defined by NRC
23 inspection findings, violations and general assessment
24 of plant performance, emergency planning and security.
25 For specific information on the current performance

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1 at Limerick you can use the link that's provided on
2 the slide here. The NRC monitors and provides
3 regulatory oversight of activity in these areas on an
4 ongoing basis under the current operating license.
5 Thus, we do not reevaluate them in license renewal.
6 That's not to say they're not important, we just don't
7 duplicate the regulatory process in these areas for
8 license renewal. Next slide.

9 I'd like to talk briefly about the NRC's
10 response to the incident in Japan. Since the accident
11 at Fukushima the NRC has taken multiple steps to
12 ensure the safe operation of nuclear power plants both
13 now and in the future. As part of its initial
14 response to the accident the NRC issued temporary
15 instructions to inspectors directing specific
16 inspections of nuclear power plants in order to assess
17 disaster readiness and compliance with current
18 regulations. The next step in the NRC's response was
19 the report of NRC's Near-Term Task Force. The purpose
20 of the Near-Term Task Force was to develop near-term
21 recommendations and suggest a framework for us to move
22 forward in the long term. The Near-Term Task Force
23 issued its report on July 12th and discussed the
24 results of their review in a public meeting held on
25 July 28th. As a result of its review the Near-Term

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1 Task Force presented 12 overarching recommendations
2 for improvement. These recommendations are applicable
3 to operating reactors regardless of license renewal
4 status.

5 Based on the results of the Near-Term Task
6 Force the Commission has directed the NRC staff to
7 evaluate and outline which of the recommendations
8 should be implemented. The staff submitted a paper to
9 the Commission on September 9th providing the staff's
10 recommendation on which task force recommendations can
11 and in the staff's judgment should be initiated in
12 part or in whole without delay. On October 3rd the
13 staff will submit another Commission paper on its
14 prioritization of 11 of the 12 task force
15 recommendations. Recommendation 1 of the task force,
16 the recommendation to reevaluate the NRC's framework,
17 will be evaluated over the next 18 months. To date
18 the NRC has not identified any issues as part of these
19 activities that call into question the safety of any
20 nuclear facilities. Additionally, this review process
21 is going on independent of license renewal. Any
22 changes that are identified as necessary will be
23 implemented for all licensees regardless of license
24 renewal status.

25 More information on the NRC's post-

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1 Fukushima activities including the results of the
2 Near-Term Task Force can be found on NRC's website by
3 clicking on the Japan Nuclear Accident NRC Action link
4 on the home page, or directly through the web address
5 on the slide. There are also a limited number of
6 copies of the Near-Term Task Force Report that are
7 available in the back of the room.

8 Now on to the license renewal process.
9 Here's a simplified diagram of the license renewal
10 process. License renewal review involves two parallel
11 paths, the safety review and the environmental review.

12 These two reviews evaluate separate aspects of the
13 license renewal application. It also features three
14 other considerations in the Commission's decision of
15 whether or not to renew the license. One of these
16 considerations is the independent review performed by
17 the Advisory Committee on Reactor Safeguards, also
18 known as the ACRS. Statutorily mandated by the Atomic
19 Energy Act of 1954 the ACRS is a group of scientists
20 and nuclear safety experts who serve as a consulting
21 body to the Commission. The ACRS reviews license
22 renewal application, the NRC staff's safety
23 evaluation, and inspection of findings. The ACRS
24 reports their findings and recommendations directly to
25 the Commission.

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1 Hearings may also be conducted if
2 interested stakeholders submit concerns or contentions
3 and their request for hearing is granted. The Atomic
4 Safety and Licensing Board, an adjudicatory panel,
5 will conduct the hearing. The Commission considers
6 the outcome of the hearing process in its decision on
7 whether or not to renew the license.

8 As part of the environmental review, the
9 staff consults with local, state, federal and tribal
10 officials such as the EPA and the staff holds public
11 meetings to receive comments on the draft EIS,
12 Environmental Impact Statement. Next slide.

13 To better understand the license renewal
14 process it is good to know the safety principles that
15 guide license renewal. The first principle is that
16 current regulatory process is adequate to ensure the
17 licensing basis of all operating reactors provides or
18 maintains an acceptable level of safety. A second
19 principle is that the current plant's specific
20 licensing basis must be maintained during the renewal
21 term in the same manner and to the same extent as
22 during the original term. In other words, the same
23 rules that apply under the current license will apply
24 in the renewal term. In addition, a renewed license
25 will include conditions that must be met to ensure

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1 aging of structures and components important to safety
2 is adequately managed so that the plant's current
3 licensing basis is maintained during the period of
4 extended operation. Next slide.

5 Safety review focuses on the aging of
6 passive and long-lived structures and components and
7 systems that the NRC has deemed important to safety.
8 Components within the scope of license renewal are
9 defined in 10 CFR 54.4 and include safety-related
10 systems, structures and components, non-safety related
11 systems, structures and components whose failure could
12 prevent satisfactory accomplishment of safety-related
13 functions, and structure systems and components relied
14 on in safety analysis or plant evaluations to perform
15 a function that demonstrates compliance with
16 regulations for fire protection, environmental
17 qualification, pressurized thermal shock, anticipated
18 transient without scram and station blackout. Passive
19 components are components who perform function without
20 moving parts or change in configuration or properties.

21 Active components are generally excluded from the
22 scope of license renewal. Degradation is more readily
23 detected by existing surveillance and performance
24 condition monitoring for these active components.

25 The staff's main objective in this review

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1 is to determine if the effects of aging will be
2 adequately managed by the applicant. The results of
3 the staff's review are documented in the Safety
4 Evaluation Report. Next slide.

5 The safety review comprises numerous
6 aspects. The technical staff reviews the application
7 and supporting documentation to determine the
8 applicant's methodology for identifying systems,
9 structures and components within the scope of license
10 renewal and subject to an aging management review.
11 Also determined if the methodology has been properly
12 implemented and to determine with reasonable assurance
13 that the effects of aging for certain systems,
14 structures and components will be adequately managed
15 or monitored by new and existing programs and
16 surveillance activities. The staff uses site visits
17 called audits to verify the technical basis of the
18 license renewal application and to confirm that the
19 applicant's aging management programs and activities
20 conform with how they are described in the license
21 renewal application. The staff documents the basis
22 and conclusion of its review in a Safety Evaluation
23 Report which is publicly available. In addition, a
24 team of specialized inspectors travel to the reactor
25 site to verify the aging management programs are being

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1 implemented, modified or planned consistent with the
2 license renewal application. Finally, as I've
3 mentioned, the ACRS performs an independent review of
4 the license renewal application, the staff's SER and
5 inspection findings and makes a recommendation to the
6 Commission regarding the proposed action to issue a
7 renewed license. Next slide.

8 The next slide shows some milestones for
9 the review of the Limerick license renewal
10 application. As you can see today, September 22nd,
11 the Environmental Scoping Meeting. October 24th, the
12 opportunity to file hearing closes, and there's some
13 other dates as we progress through. And these are
14 pending any unforeseen circumstances related to the
15 review. All right, that concludes my portion of the
16 presentation. I'll turn it over to Lisa Regner.

17 MS. REGNER: Good evening. Thank you,
18 Rob. Good evening, thank you for coming out tonight.

19 I know it's hard to take a night out and listen to
20 government officials but we do want to keep you
21 informed of our process. My name's Lisa Regner. I'm
22 going to talk about the environmental review during
23 the Limerick license renewal review. I'd like to
24 explain to you briefly about this separate but equally
25 important review.

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1 This review is performed in accordance
2 with the National Environmental Policy Act of 1969, or
3 NEPA, as Rob mentioned already. NEPA established a
4 national policy for conducting -- considering
5 environmental impacts and provides the basic
6 architecture for federal environmental reviews. All
7 federal agencies must follow a systematic approach in
8 evaluating potential impacts for projects, for federal
9 projects, and also to assess alternatives to those
10 actions. By law the NEPA process involves public
11 participation and public disclosure.

12 NEPA established the U.S. Council on
13 Environmental Quality within the Executive Office of
14 the President and the Council on Environmental Quality
15 establishes policy for implementation of NEPA. The
16 NRC's environmental regulations contained in 10 CFR
17 Part 51 are largely based on those that CEQ developed.

18 Our environmental reviews consider the
19 impact of license renewal and any mitigation for those
20 impacts that we consider to be significant. We also
21 consider the impacts of alternatives to the license
22 renewal, including the impacts of not renewing the
23 license. The staff documents its environmental review
24 in an Environmental Impact Statement which is made
25 publicly available. Ultimately the purpose of the

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1 staff's environmental review is to determine whether
2 the environmental impacts of license renewal are
3 reasonable and in combination with the other reviews
4 that Rob mentioned, the safety, inspection and ACRS,
5 Advisory Committee for Reactor Safeguards review, we
6 take that information and make a recommendation to the
7 Commission whether to renew the license or not. Next
8 slide.

9 During the review, the NRC environmental
10 staff looks at a wide range of impacts. Additionally
11 we consult with -- and the impacts are listed up here
12 on this slide. We also consult with various federal,
13 state and local officials as well as leaders of Indian
14 nations. We gather pertinent information from these
15 sources and ensure it's considered in our analysis.
16 So some of the agencies that we consult with are U.S.
17 Fish and Wildlife Service, the Environmental
18 Protection Agency, the Pennsylvania Department of
19 Conservation and Natural Resources, the State Historic
20 Preservation Office, and again, displaced tribal
21 nations. Next slide.

22 The environmental review begins with a
23 scoping process which is an assessment of the specific
24 impacts and significant issues that the staff should
25 consider in preparing the Limerick Environmental

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1 Impact Statement. Currently this is where we are in
2 the process and it's an important part of this meeting
3 as well. Information we gather from you today and in
4 the next few weeks will be considered and included in
5 the Environmental Impact Statement. We recognize that
6 some impacts are similar if not identical at all
7 plants so to improve efficiency the staff developed
8 what we call a Generic Environmental Impact Statement
9 and that addresses a number of impacts common to all
10 nuclear power plants.

11 So we then supplement that generic EIS
12 with a Site-Specific Environmental Impact Statement in
13 which we address issues that are specific to the
14 Limerick site. In addition, we also reexamine the
15 conclusions reached in the Generic Environmental
16 Impact Statement to determine if there's any new and
17 significant information that would change the
18 conclusions in the GEIS. Next page, please.

19 The scoping period started on October 26th
20 of this year when the Notice of Intent to Prepare an
21 EIS and Conduct Scoping was published in the Federal
22 Register. The NRC will accept comments from you, from
23 the public on the scope of the environmental review
24 until October 28th, 2011, this year. In general what
25 we're looking for is information about environmental

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1 impacts from the continued operation of Limerick. You
2 can assist us in that process by telling us for
3 example what aspects of your local community we should
4 focus on, what local environmental, social and
5 economic issues the NRC should examine during our
6 environmental review, what other major projects are in
7 progress or planned in the area, and what reasonable
8 alternatives are most appropriate for this region.
9 These are just some of the examples of the input we're
10 looking for and they represent the kinds of
11 information that we seek through the environmental
12 scoping process. We don't know your community like
13 you do, we at headquarters, so your comments tonight
14 provide insight and ensure a thorough review. Next
15 slide.

16 So this kind of gives you an overview of
17 what goes into our decision. Public comments are an
18 important part of the environmental review process.
19 So how do we use your comments? All of your comments
20 to us, whether provided verbally during this meeting
21 or in a written letter, fax, email, delivered
22 personally to the NRC, as long as they're written they
23 are accepted and they are considered. We respond to
24 each comment as part of the Supplemental or plant-
25 specific Environmental Impact Statement. The

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1 Supplemental Environmental Impact Statement is one of
2 the factors as well as -he several other factors shown
3 here that influences the Commission's decision to
4 renew the license or not. Next slide.

5 In addition to providing verbal and
6 written comments at this meeting there are several
7 other ways that you can submit comments for our review
8 process, and there's no limit to the length of those
9 written comments. You can submit comments online
10 using the federal rulemaking website which is
11 regulations.gov. And up at the top of that website
12 you'll see a box where you can enter a keyword or ID.

13 If you type in the NRC-2011-0166 docket ID then it
14 will list, it should list up at the top Exelon
15 Generation Company Notice of Intent to Prepare an
16 Environmental Impact Statement and Conduct Scoping
17 Process for Limerick. Okay. And then on the right
18 side of the screen you'll see a link to submit a
19 comment. Okay, so that's one way at regulations.gov.

20 You can also fax your comments to the number here.
21 And it might be easier if you reference Limerick or
22 put the docket ID number when you fax your comments.
23 That way we know it's for Limerick. Okay, next slide.

24 You can also submit comments by mail to this website
25 or you can come, if you happen to be in Rockville near

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1 D.C. you can come to headquarters, NRC headquarters,
2 and submit written comments. And you're welcome to
3 give me a call and I can help you with that.
4 Actually, and you can, if you have any problems with
5 any of these submittal methods feel free to give me a
6 call and I can help you through that process. Okay?
7 And I did want to remind people that comments, we'd
8 like to have comments submitted by October 28th,
9 please. Next slide.

10 So here are environmental review
11 milestones. These are a little more specific to the
12 environmental review but I did list the hearing
13 opportunity because those are two dates that are
14 coming up. And this is not the only time that we will
15 have a public meeting. These two public meetings that
16 we have on scoping today are, one of the two major
17 public meetings that we will have, the next one will
18 be once the staff has prepared a draft Supplemental
19 Environmental Impact Statement for Limerick. We will
20 issue that publicly and then again we welcome public
21 comments on that draft SEIS. And right now that's
22 tentatively scheduled for either late August or early
23 September 2012, so next summer, early fall. Okay.
24 And again, we will have two meetings. Next slide.

25 So this is our contact information. Rob

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1 and I are the primary points of contact within the NRC
2 for license renewal issues for Limerick. Okay.
3 Again, Rob is safety and I am environmental. Next
4 slide, please. Now, if you don't have a computer and
5 would like to view the license renewal application
6 there are -- we've placed hard copies at the two
7 libraries listed here. Pottstown Regional Public
8 Library and Royersford Free Public Library both have
9 the application available in hard copy. Also if you
10 do have a computer and want your own personal copy I
11 do have some disks in the back and you're welcome to
12 take those. The draft SEIS will also be available at
13 these libraries when it's published for comment.
14 They'll also be on the NRC website at the address
15 shown here on the slide. As you came in you were
16 asked to fill out a registration card at our reception
17 table. If you include your email address we'll sign
18 you up for the Limerick listserv which will provide
19 any NRC documents associated with Limerick, but if you
20 put your address on the card we will send you a hard
21 copy of the Environmental Impact Statement. This
22 concludes my presentation. I'd like to open the floor
23 up for questions.

24 FACILITATOR BARKLEY: Before we move to
25 the public comment period were there any questions

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1 regarding this presentation? Yes, sir.

2 MALE PARTICIPANT: Did you say in the back
3 of the room there's a disk -- there are disks with the
4 licensee application and submission? What's that?

5 FACILITATOR BARKLEY: Yes, so we'll be
6 glad to give you a copy of that. The entire
7 application is on that disk. With that I'd like to
8 move to our -- sorry. Yes, sir.

9 MALE PARTICIPANT: Are copies of these
10 slides available?

11 MS. REGNER: They will be, yes. Copies of
12 the slides will be available in our agency-wide
13 document management system. And I can either give you
14 that number, if you want to see me after the
15 presentation I can give you that number or you can
16 email me and I'd be happy to send you a copy.

17 FACILITATOR BARKLEY: Is there another
18 question? Okay. With that what I'd like to do is
19 call the first speaker.

20 MS. REGNER: Are we going to do Mr.
21 Saporito?

22 FACILITATOR BARKLEY: Yes. This meeting
23 is open to members of the public and some of the
24 members of the public are not in this local area. We
25 did have one request for a gentleman to attend this

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1 meeting via conference bridge. And due to the
2 arrangements of the audio in this room it wasn't
3 possible to do it any other way than a cell phone. So
4 we're going to go to him and ask him to make a
5 statement for the period and move from there. So our
6 first speaker will be Mr. Thomas Saporito who is a
7 senior consulting associate and he actually lives in
8 Florida. So as soon as we can work having him on the
9 microphone we will have him make his statement. Are
10 we free to give it a try?

11 MS. REGNER: Go ahead. Yes. Go ahead,
12 Mr. Saporito.

13 MR. SAPORITO: Is it my turn to speak?

14 MS. REGNER: Yes.

15 MR. SAPORITO: Okay. Can you hear me
16 okay?

17 FACILITATOR BARKLEY: As best we can, yes.

18 MS. REGNER: Yes, go ahead.

19 MR. SAPORITO: All right. My name is
20 Thomas Saporito. I'm the senior consultant with
21 SaproDani Associates and I'm located in Jupiter,
22 Florida. I would like to comment on the NRC's
23 environmental review but before I do that I want to
24 state that, you know, I'm very upset at the NRC's
25 refusal to honor my enforcement petition filed under

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1 10 CFR 2.206 with respect to the Limerick nuclear
2 plant. The NRC denied that petition on the basis that
3 I would have an opportunity to intervene on this
4 proceeding through the NRC's judicial process.
5 However, that's not available to me. I made that
6 quite clear in the 2206 petition. Now, I don't have
7 standing as a United States citizen because of my
8 physical location in Jupiter to intervene in a
9 proceeding in Pennsylvania where this plant is
10 located. The NRC staff is incorrect in their opinion
11 and they have a legal obligation to honor that
12 enforcement petition and to provide an opportunity for
13 me to address the Petition Review Board. So I want to
14 put that on the record and I'm asking the NRC to look
15 into that issue.

16 With respect to this environmental
17 petition the fellow who spoke earlier from the NRC, I
18 don't recall his name. It was very hard for me to
19 hear through this communication his name. But anyway,
20 one of his comments was exceptionally incorrect and he
21 misinformed the public. And I'd like to correct that
22 statement. He stated that the NRC is extending the
23 original operating license which was granted by the
24 NRC for a 40-year period of time that that initial 40-
25 year license was not based on safety considerations or

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1 technical considerations. But that's absolutely not
2 true and there was recently a year-long investigative
3 report done by the Associated Press who interviewed
4 expert nuclear personnel, engineers, safety engineers
5 in the nuclear industry who told them that the 40-year
6 licenses issued by the NRC for 104 nuclear plants in
7 the United States was based on safety and technical --
8 safety technical analysis. So these proceedings,
9 these license extension proceedings like the one we're
10 currently at are a rubber-stamping of these 20-year
11 license extensions. This is in fact a foot race
12 between the Nuclear Regulatory Commission and the
13 United States Congress where Congress wants to stop
14 this process, put a moratorium on the re-licensing
15 until the Fukushima disasters can be fully understood
16 and the enhancement enacted in August for our power
17 plants here. This particular nuclear plant, these
18 plants, you know, their license is already good till
19 2024. Why are we here now 12 years ahead of time
20 trying to extend this license? And the only reason is
21 because it's a foot race the NRC's in with Congress
22 and nothing more. This has nothing to do with
23 protecting public health and safety, it's the NRC's
24 zeal to continue to rubber-stamp these license
25 extensions without allowing citizens due process like

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1 I already talked about and without doing a cost-
2 intense and thorough environmental review.

3 And with respect to the NRC's
4 environmental review the NRC in my view failed to
5 properly consider the embrittlement of this nuclear
6 reactor vessel. When these nuclear reactors are
7 operating the neutrons cause the metal in the reactor
8 vessel to become brittle over time. And after
9 numerous years of operation these reactor vessels
10 could crack because they're so brittle. But the NRC
11 doesn't properly evaluate that and the NRC doesn't
12 require the licensee to do destructive testing and
13 analysis of the reactor's metal vessel prior to
14 rubber-stamping a 20-year extension to these licenses.

15 Twenty years from now, oh actually 20 years from 2024
16 which will be 2044 this reactor is going to be even
17 more critically brittle and the NRC's not going to
18 understand the dynamics of that and the reactor could
19 crack and it's going to melt down because you can't
20 recover from a loss of coolant accident of that
21 magnitude. So that's one point.

22 The other point is the NRC's Commission
23 over there in Rockville, in the White Flint Building,
24 they recently adopted a new policy with respect to
25 evacuations. They want these licensees to update

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1 their evacuation plans. Now, I would hope that the
2 NRC staff has made that requirement to the Limerick
3 licensee so that the people near and around within 15
4 miles of the nuclear plant can properly and timely
5 evacuate the area. Again, the Associated Press's
6 investigation, year-long investigation shows that the
7 populations around these nuclear plants increased
8 tenfold over the years and that the roads and the
9 congestion, you can't timely evacuate these areas.
10 And the NRC keeps pushing these evacuation plans onto
11 the licensee but the NRC doesn't enforce its
12 regulation or properly review if these plans are even
13 effective.

14 The NRC is required under the law in this
15 review, the environmental review to consider renewable
16 energy sources, alternatives. And that means need.
17 Is there really a need for these two nuclear plants to
18 operate and the answer is no. Simply stated if all
19 the customers who receive power from these nuclear
20 plants were to simply remove their hot water heaters
21 and replace them with on-demand electric water heaters
22 you would reduce the electric base load demand by 50
23 to 70 percent. You wouldn't need either one of those
24 nuclear power plants to operate. If you take that
25 further and introduce other energy conservation you

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1 would actually have the licensee shut down more of
2 their other power plants because of you would need a
3 demand. If you take wind energy which is plentiful up
4 there in Pennsylvania and even the new solar panel
5 which can operate when the sun isn't shining on a
6 cloudy day you could replace even more operating power
7 plants. So these renewable energy sources even with
8 respect to wind energy since you have a common grid
9 throughout the United States you can have wind farms
10 generate power to a common grid point and supplying
11 the power that these nuclear plants are now providing.

12 The NRC's required under the law to consider these
13 alternatives to extending this license. And I would
14 hope that the NRC's final evaluation and review shows
15 a complete and thorough analysis of all these
16 renewable energy sources including installing on-
17 demand hot water electric heater and doing an analysis
18 of how many megawatts you're going to take off the
19 grid and based on those evaluations make a licensing
20 determination whether or not this license should be
21 extended. Because 20 years from now all these
22 renewable resources are going to be all that much more
23 advanced and capable of supplying all that much more
24 power than they're currently supplying. So those are
25 my comments and I would hope that the NRC takes them

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1 seriously and applies them to this license renewal.
2 And I hope everybody heard me.

3 (Applause)

4 MS. REGNER: Can you hear that? They're
5 clapping.

6 FACILITATOR BARKLEY: Okay, at this point
7 I'll call back Mr. Saporito later and thank him for
8 his remarks and for being succinct in his remarks.
9 It's awfully awkward to provide comments via this
10 avenue.

11 The first three people I would like to
12 call are actually individuals who did not speak this
13 afternoon so I'd like to start with them. Firstly,
14 Jeff Chumnuk, then Daniel Ludewig, and then finally
15 Catherine Allison. So Jeff, if you could lead off.

16 MR. CHUMNUK: Hi, my name is Jeff Chumnuk
17 and I'm a member of Borough Council with Pottstown
18 Borough. And my comments tonight are more I guess
19 from my perspective as a newly elected official with
20 the generating station. About a year ago I had the
21 opportunity to go down to the generating station and
22 meet with Joe Saffron and the first part of my meeting
23 had to do with looking for some support for the
24 Pottstown Soapbox Derby. Through some conversation
25 while we were standing outside you know Joe

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1 enlightened me a little bit on what Exelon and the
2 generating station do for the surrounding communities,
3 whether it's supporting our firefighters, police
4 departments and other civic organizations. You know,
5 from a Pottstown perspective they help us with our
6 yearly borough cleanup, our Salvation Army and now the
7 Soapbox Derby. Thank you.

8 And we were standing outside that day, it
9 was pretty nice out, and our conversation led to the
10 power plant itself. We were standing there looking
11 around, it's a pretty impressive sight. So I asked
12 him about, you know, possibly having a tour for
13 municipal officials. He said he would look into it
14 and see what he could do. A couple of months later he
15 got a group of about 20 of us and gave us a tour of
16 the plant one evening. And I have to say that from
17 the time we walked through the front gates and past
18 the security as our tour progressed, you know,
19 throughout the plant safety was paramount. Whether
20 you were having explained what the different colors
21 are on the different panels and what they mean to
22 different failsafes, why you walk certain areas
23 certain ways and what lines you had to stand behind,
24 you know, safety was paramount with them. You know,
25 from the environment, I'm looking around and this

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1 place is spotless. And I asked why and it's because
2 they can't afford to have dirt or lint or fuzz balls
3 around because of static electricity because it could
4 create issues. So from that aspect I thought it was a
5 good tour and it made me feel good about the safety
6 aspects there.

7 To finish our tour we ended up in the
8 control room upstairs. And I'd say maybe a dozen or
9 so individuals up there monitoring you know everything
10 going on within the plant and around the plant. And
11 again, explaining the failsafes and why they're
12 double-, triple-checked to eliminate human error. It
13 was just very impressive and as an elected official to
14 go down and take a tour of the plant and understand
15 how it operates. I know when I left I personally know
16 how to issue a concern with the generating station. I
17 know I felt a lot better and a lot safer going home
18 that night. And it was also good to realize, you
19 know, as one of our region's largest employers now
20 that they are willing to give back to the community
21 and keep safety first. So thank you, I just wanted to
22 make those comments.

23 (Applause)

24 FACILITATOR BARKLEY: Thank you, Jeff.
25 Daniel?

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1 MR. LUDEWIG: I'm Dan Ludewig. Just two
2 questions. One would be what are we going to do with
3 the 20 years of spent rods and how are you going to
4 take care of those. And secondly, if we don't get the
5 license which I doubt but what would -- how would we
6 get electric if the license were canceled? I don't
7 know who answers this.

8 FACILITATOR BARKLEY: I'll ask Lisa to
9 speak.

10 MS. REGNER: Yes, the spent fuel rods.
11 Limerick is licensed for an individual spent fuel pool
12 facility. They offload the spent fuel. Once they've
13 cooled to a certain level they will put those into dry
14 cask storage and store those onsite. In the
15 environmental review that's looked at generically.
16 Limerick does have storage for the spent fuel rods.
17 That's an ongoing, it's onsite and part of their
18 reactor oversight process as well. So the residents
19 that work at the plant monitor the safe operation of
20 those facilities.

21 The second question, where would the power
22 come from if Limerick were shut down? There are
23 alternate power facilities in the area. Dave, you
24 want to give that a try?

25 MR. WRONA: I'm David Wrona, a branch

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1 chief in the Division of License Renewal with the
2 Nuclear Regulatory Commission. The choice of what
3 electricity is used is not the Nuclear Regulatory,
4 it's not under our purview. As Rob and Lisa had on
5 their slides our mission is to protect the public
6 health and the safety from the commercial use of
7 nuclear power. So if the decision is to have a
8 nuclear power plant then the Nuclear Regulatory
9 Commission is here to ensure the public health and
10 safety of that plant. But we don't get involved with
11 the decisions of exactly what type of power plant will
12 be used to power, put electricity on the grid.

13 In terms of the spent fuel, spent fuel is
14 an issue that we will address in our Environmental
15 Impact Statement. So when -- we're still developing
16 that report. We're very early in the stages of that.

17 When it's published you'll be able to see our
18 analysis on spent fuel and we'll be back in 2013 --
19 2012, sorry, to receive comments on that report.

20 FACILITATOR BARKLEY: Okay, thank you.
21 Catherine? Catherine, our longest speaker today was
22 Mr. Cuthbert, eight minutes. I will not interrupt you
23 before eight minutes.

24 MS. ALLISON: I appreciate that. He was
25 very concise and he had some great information for us.

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1 Can everyone hear me in the back row? I am Catherine
2 Allison and I was born and raised in this area so as
3 far as the NRC wanting to know how this impacts the
4 area I know it very well. I've also traveled the
5 world so, Europe, et cetera. So did anyone not be
6 able to hear me, just raise your hand. You're good?
7 Okay.

8 One thing I wanted to say is the NRC
9 tonight is doing a scoping basically for environmental
10 purposes for the re-licensing. What I wanted to say
11 is for years everyone, I'm being general here, but
12 most people have been talking about the effects of
13 like, you know, cancer, you know, the impact on the
14 clean air, clean water which things we are all
15 concerned about and a lot of us just didn't do
16 anything about it even though we were very concerned.

17 Now lately with the -- unfortunately it's
18 a reality now that we have hurricanes, more tornadoes,
19 tsunamis throughout the world. And I hate to say it
20 but it is a reality now that we have terrorist attacks
21 and Limerick is definitely one. I don't want to be
22 blowing this out of proportion but it's just something
23 that I know that we've all been concerned about, not
24 wanting to say yes, Limerick, and all the people that
25 built the power plant and the company say oh, there's

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1 no impact to the air and the water pollution and so
2 forth. So we've kind of just blinded our, you know,
3 selves to that and let's believe then, okay, let's
4 take a minute. Let's really believe that there is no
5 impact in our clean air, clean water and those type of
6 things and cancer, et cetera. Let's just go into the
7 new reality which is terrorist attacks which would
8 happen. Let's just say for example there was human
9 error there with the spent fuel rods and something
10 happened, or a radiation leak. I just drove tonight
11 from King of Prussia. Talk about evacuation when
12 these natural disasters and realities hit us. One
13 accident, two hour backup, almost no exaggeration, one
14 thousand cars. There will be no evacuation. I don't
15 want to be like scare tactics here but like I said,
16 the weather and so forth, natural disasters has really
17 been hitting the whole United States and the world
18 lately so it's a reality.

19 There was flooding after the hurricane
20 that we just had. Five days later there was roads
21 closed in Pottstown, in North Coventry, East Coventry.

22 There were, when I tried to get home from work right
23 on Route 724, no exaggeration again from all the back
24 roads about 500 cars. There will be no evacuation and
25 I certainly hope that people understand I'm not trying

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1 to be scare tactics. I see this. I'm sure a lot of
2 you have seen this and been in these situations. All
3 with a little bit of flooding. What this does to the
4 roads. Again, there will be no evacuation.

5 So from day one I think power plants never
6 should have been built but now that they are here why
7 would we ever want to re-license. And as our
8 gentleman caller just said, I believe his name was
9 Thomas, he was very eloquent. He was stating the fact
10 why are we re-licensing them, what, 12 years ahead of
11 time. To me that is absurd. Like maybe a year before
12 or they have to do some studies, two years before.
13 Why do they want us, and I love Thomas's words,
14 rubber-stamp something? Twelve years beforehand to go
15 into what, 2024 for Unit 1 was it and 2029 for Unit 2?

16 Why do they need to push this licensing renewal?
17 You've got to stop and think. People, go home, think
18 about that. I'm not an expert like evidently our
19 caller Thomas was but again, I'm concerned about human
20 life. This is what I have at the top here. We are
21 talking about human life. What's more important, not
22 all this electricity that we need for all our cell
23 phones and everything. In a way we are responsible
24 for the fact that PECO and all these other Exelon
25 companies are building power plants. I myself you

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1 know am guilty of a lot of this but let's just maybe
2 for a solution besides the wind and solar power and
3 everything stop using all this new technology. Yes,
4 you need it for some jobs and businesses, it's good
5 for certain things, but let's not overindulge where we
6 need so much electricity that we are willing to risk
7 our lives. Cancer, polluted water. There's no
8 drinking water anymore. People have to pay to buy
9 water that comes from natural springs. But you're
10 using plastic bottles, you can't even trust that.

11 But this whole world has kind of just
12 changed from you know nature. Let's get back to
13 nature, let the -- instead of having all the young
14 teenagers on their cell phones texting, using more
15 electricity, that again it's going to cause cancer for
16 them. Everybody has to stop and think why do we need
17 the power plants? We really don't and again, Thomas,
18 our wonderful caller mentioned some alternatives like
19 the solar power, wind, but I'm just saying we are
20 using so much electricity and stupid little video
21 games on the computers. People get on the computers
22 for hours at a time doing nonsense. That's taking up
23 electricity where again why do you need all this
24 electricity? It could be causing cancer in your
25 children. I am not that old but I'm not that young,

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1 but I hate to tell you I have so many friends and
2 coworkers and people that are only 35, 40, 50 years
3 old, cancer. And why? We have to stop and think. Go
4 home, don't just always, you know, just go watch TV
5 and get on your computer. Stop and think what we're
6 doing to ourselves, our bodies, our children, our
7 grandchildren.

8 This is again, this licensing renewal is
9 coming down to human lives, the quality of our lives.

10 Again, why all this cancer? Microwaves and
11 electricity. So I won't go on and on, but I just
12 think us as a group can't just all be just complaining
13 about the power companies, we are the ones using the
14 electricity. That's all I'm saying. Maybe we should
15 cut back and we won't need power plants. Thank you.

16 (Applause)

17 FACILITATOR BARKLEY: Thank you,
18 Catherine. The next three people I'd like to call
19 would be Jeffrey Norton of the P. Energy Alliance,
20 then Bill Maguire and then finally Lorraine Ruppe.
21 Mr. Norton?

22 MR. NORTON: Good evening. My name is
23 Jeffrey Norton and I'm here to represent the
24 Pennsylvania Energy Alliance which is an independent
25 grassroots diverse organization made up of community

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1 leaders and organizations who promote nuclear power as
2 a clean, safe, reliable and affordable source of
3 power. I'm going to be making essentially five points
4 in support of license renewal for Limerick Generating
5 Stations and they are that, number one, nuclear energy
6 lowers electricity prices, it protects our environment
7 against greenhouse gases, it strengthens our local
8 economies and it is safe.

9 With regard to my first point in lowering
10 electricity prices the Limerick Generating Station has
11 reduced wholesale energy costs in Pennsylvania by \$880
12 million in 2010 thus lowering electricity prices for
13 all consumers. It operates around the clock thereby
14 stabilizing the nation's electricity distribution
15 system and the electricity marketplace. The average
16 electricity production costs at nuclear plants have
17 actually declined more than 30 percent in the past 10
18 years due to various efficiencies. Nuclear power is
19 cheaper to produce than other forms of electricity
20 generation such as coal and natural gas, and helps
21 moderate the price of electricity for consumers.

22 My next point is that Limerick Generating
23 Station and nuclear plants strengthen our local
24 economies and it is a valuable economic driver for the
25 Commonwealth of Pennsylvania. Limerick Generating

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1 Station contributes \$113 million annually in direct
2 economic contributions to the Pennsylvania economy
3 through various employee wages and salaries, purchase
4 of goods and services from other Pennsylvania
5 businesses and in property tax payments to the local
6 governments. Limerick Generating Station also
7 contributes generously as we've also heard and in fact
8 in 2010 contributed \$600,000 to various community
9 organizations. Limerick has over 800 full-time
10 employees and employs more than 1,000 skilled
11 temporary contract employees during annual refueling
12 outages. A significant percentage of the current
13 nuclear plant workforce will reach retirement age in
14 the next 10 years creating a demand for high-paying
15 jobs in the nuclear industry. Yes, Limerick
16 Generating Station is one of Pennsylvania's most
17 valuable economic and energy assets and the
18 commonwealth should embrace it.

19 My third point is that nuclear energy
20 protects our environment from greenhouse gases and
21 reduces the need to generate electricity from fossil
22 fuels. If Limerick Generating Station were retired
23 from service replacing the electricity would require
24 increased natural gas-fired or coal-fired generation.

25 Nuclear energy is the nation's largest source of

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1 carbon-free electricity and is critical to our
2 nation's environmental, security and energy goals.

3 My next point is that nuclear energy is
4 safe. It's always on, it's stable, it's a reliable
5 source of electricity and the station here at Limerick
6 has been built with multiple redundant safety layers.

7 And the workforce is committed to best practices and
8 continuous improvement. It is also important for our
9 nation's quest to be energy-independent. According to
10 the Bureau of Labor Statistics it's safer to work at a
11 nuclear plant than in industries such as
12 manufacturing, real estate and finance. And according
13 to the Department of Energy a person receives more
14 radiation exposure flying from Baltimore to Los
15 Angeles than by standing near a nuclear plant 24 hours
16 for a year.

17 On a personal note I've been inside
18 Limerick Generating Station several times. I've also
19 lived within 30 miles with my four boys and wife next
20 to the Limerick Generating Station and also Three Mile
21 Island. I feel safe, secure and comfortable. That is
22 why I'm in support of the re-licensing of the Limerick
23 Generating Station. Thank you very much.

24 (Applause)

25 FACILITATOR BARKLEY: Thank you. Mr.

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1 Maguire?

2 MR. MAGUIRE: Good evening. My name is
3 Bill Maguire and I'm the site vice president at
4 Limerick Generating Station and I have overall
5 responsibility for the safe and reliable operation of
6 the facility. A little bit about my background. I've
7 got 25 years of experience in the nuclear industry
8 starting my career at Limerick station as an engineer.

9 I went on to receive a license to be a senior reactor
10 operator at the plant and was involved in the direct
11 supervision of the operators of the plant and was the
12 on-shift manager of the facility for many years. I've
13 worked at a few other nuclear facilities around the
14 country in capacities such as operations director,
15 maintenance director, plant manager and was recently
16 the site vice president at the Peach Bottom Atomic
17 Power Station before coming back to Limerick station
18 in May of 2010.

19 Operating Limerick Generating Station
20 safely and reliably is a key responsibility for all of
21 the employees at Limerick Generating Station, one that
22 the folks at the station take very seriously as a
23 personal commitment to themselves and to the industry
24 and to the community at large. An important part of a
25 thriving community is safe and reliable electricity,

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1 and Limerick has been a part of that key aspect of a
2 thriving community for the last 25 years. And as we
3 look at the growing demand for energy, safe and clean
4 energy in the future for Pennsylvania and for our
5 nation Limerick is a key component of that future.
6 And we have petitioned the NRC through the license
7 renewal process to extend our operating license for an
8 additional 20 years.

9 The U.S. nuclear industry consists of 104
10 nuclear reactors and those 104 reactors provide
11 approximately 20 percent of the U.S. electrical
12 supply. And that's been a pretty steady number over
13 the years. Even though there haven't been a lot of
14 new nuclear plants brought onto the grid in those
15 years the plants continue to run more and more
16 efficiently, keeping up with the growing demand for
17 electricity. Seventy percent, or excuse me,
18 approximately 70 of the 104 reactors have already been
19 through the license renewal process and have received
20 approval for a license renewal.

21 Limerick Generating Station operates in a
22 manner that preserves the environment. We perform
23 over 1,700 tests per year that look at the water, air,
24 fish, land, cow's milk, vegetation and the like to
25 ensure that we are not adversely impacting the

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1 environment. We also maintain a chain of radiation
2 monitors around the plant to make sure that we do not
3 have an adverse impact from the operation of the
4 facility.

5 In 2005 the environmental management
6 systems at Limerick Generating Station received
7 certification under the strict criteria of the
8 International Organization for Standardization (ISO).

9 This is a common industry recognition and the
10 certification that we received credit for is ISO
11 14001. And this is an internationally recognized
12 benchmark for environmental management. And the ISO
13 14001 certification requires a commitment to
14 excellence not only in meeting our regulatory
15 requirements but also in the prevention of pollution
16 and to ensure continuous improvement in our
17 environmental systems.

18 In 2010 the Wildlife Habitat Council
19 recognized Limerick Generating Station's commitment to
20 environmental stewardship by awarding us the Wildlife
21 at Work certification. And this distinction was
22 awarded for our commitment towards establishing long-
23 term wildlife habitat enhancements that maintain food,
24 water, cover and space for animal species that are
25 living in the power station's landscape.

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1 To ensure Limerick continues to operate
2 safely for years to come Exelon continues to invest in
3 Limerick. Since 2010 over \$200 million of investment
4 has been made into new safety systems and the
5 reliability of our electric generation components.
6 And since 2001 over \$40 million have been invested in
7 our security systems.

8 Our investment in the future doesn't stop
9 with investment in equipment. We've hired over 100
10 new employees in the last three years and we maintain
11 a steady-state workforce of approximately 850
12 employees. And during our annual maintenance and
13 refueling outages that population grows temporarily
14 for about a month by another 1,500 to 2,000 employees,
15 bringing a boost to the local economy.

16 Over the past 25 years Limerick has been
17 one of the best performing and most reliable plants in
18 the nuclear power industry. During that time the
19 plant has set several records for continuous days of
20 operation and has been recognized by the industry for
21 our reliable performance. In March 2010 Limerick
22 completed a successful run of 727 continuous days on
23 our Unit 1 plant and this represented the second
24 longest continuous run for a boiling water reactor in
25 the United States. While we do not set out to break

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1 records, continuous operations are one indicator of
2 the excellent human performance and equipment
3 reliability that Limerick strives for every day.

4 We also take pride in our investments in
5 the community. In 2010 Limerick Generating Station
6 donated more than \$600,000 in the community in
7 contributions to the United Way, fire and ambulance
8 companies, educational, health and youth
9 organizations, and many of our employees serve as
10 volunteers in the local community and around the
11 plant. In conclusion, Limerick Generating Station
12 looks forward to working with the Nuclear Regulatory
13 Commission in the review of our license renewal
14 application. And we thank you for this opportunity to
15 address the public this evening. Thank you.

16 (Applause)

17 FACILITATOR BARKLEY: Thank you.
18 Lorraine?

19 MS. RUPPE: Hi, my name is Lorraine Ruppe.
20 Thanks for letting me talk again this evening. I am
21 speaking here tonight to represent the children and
22 future generations, especially in our community.
23 Residents here are fearful about the possibility of
24 disasters here in light of Fukushima in March 2011 and
25 since the earthquake and Hurricane Irene in August

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1 2011 affecting our area. Climate changes, et cetera,
2 are causing disasters everywhere and continuing to get
3 worse. Increasing floods, droughts, earthquakes,
4 tornadoes have made us all feel insecure making
5 nuclear power increasingly risky, especially with the
6 Limerick plant basically in our backyards. Any
7 earthquake that comes through this area could be a
8 possible Fukushima, Chernobyl or Three Mile Island.
9 Four months had passed since the NRC failed to get
10 back to me when I asked how close the Ramapo fault
11 line is to the Limerick nuclear reactors. I was told
12 today earlier to call Andrew Rosenbaum so I will
13 hopefully receive that information.

14 Indian Point nuke plant was sketched as a
15 possible terrorist target in reference to the 9/11
16 attacks. A suspected terrorist worked at Limerick for
17 years without the industry knowing it. How scary is
18 that?

19 The Pacific Ocean is now severely
20 irradiated by Fukushima. Radiation impacts of
21 Fukushima equaled over 20 Hiroshima bombs when I last
22 researched. Our drinking and bathing water here is
23 being continuously polluted by Limerick every day,
24 24/7, for years with radiation and unfiltered toxic
25 contaminated mine water thanks to the NRC and Exelon.

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1 This is disgusting. Most of us have to depend on
2 this water, especially for bathing. Some of us pay
3 extra for water filtration or drink bottled water
4 because we are afraid to drink from the Schuylkill and
5 because it tastes really bad now. Imagine how toxic
6 it would be 18-plus years from now even if there is
7 any water left.

8 There has been increased particulate
9 matter in the air and other toxics from Limerick
10 causing increased asthma, heart attacks and strokes.
11 And to add insult to injury Limerick was granted a
12 permit to allow an eightfold increase in air pollution
13 since 2009. Cancer rates in our area have skyrocketed
14 since Limerick has been up and running in the '80s and
15 rates have steadily increased. The Tooth Fairy
16 Project showed high levels of strontium-90, a
17 radionuclide, in the baby teeth of children living
18 nearest to the nuclear plants. Baby teeth near
19 Limerick plant had the highest levels in the whole
20 United States. So all this stuff and God knows what
21 else is in our bodies now thanks to the Nuclear
22 Regulatory Commission that, to put it nicely, is less
23 than enthusiastic about protecting us.

24 Solar wind, geothermal, ocean thermal,
25 energy conservation and efficiency are now cheaper

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1 than nuclear power along with being clean and safe.
2 The Department of Energy 2006 report stated that solar
3 alone could provide 55 times our entire nation's
4 energy needs which leads me to the point: there have
5 been numerous studies proving the many dangerous and
6 deadly consequences of nuclear power. There is no
7 denying the massive devastation it has already caused
8 and will continue to cause indefinitely. But the
9 industry still goes on in their trance-like
10 indifferent fashion as if everything is safe and
11 wonderful and will continue to be 18-plus years from
12 now on until 2049 for our community.

13 This is what really scares us the most.
14 This is beyond unethical behavior from the industry.
15 The NRC has turned into a culture of secrecy, hiding
16 the dangers and sweeping the problems under the rug.
17 The industry's addiction to money and power have
18 blinded them to moral life and death issues and facts
19 set right in front of their faces. But my big
20 question of the day is why is Exelon applying for an
21 extension 18 years ahead of time. Thank you.

22 (Applause)

23 FACILITATOR BARKLEY: Okay, thank you. We
24 have had seven people speak and we have six more who
25 signed up for the remainder of the evening. The next

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1 three people I'll call are Donna Cuthbert, followed by
2 Mike Gallagher and then followed by Dr. Fred Winter.
3 Okay, Donna.

4 MS. CUTHBERT: You know, after hearing
5 some of these gentlemen speak tonight I feel like I'm
6 living in fantasy land. For somebody to get up here
7 and actually say that there's no adverse impacts from
8 Limerick nuclear power plant is insanity. It is
9 unbelievable. I have spent the last 11 years
10 reviewing permits from Limerick nuclear power plant.
11 They are a major air polluter under the Clean Air Act
12 and to say they're not doing it anymore, they just
13 asked for the conditions that would allow an eightfold
14 increase in dangerous air pollution that actually is
15 claimed to kill people, thousands of deaths per year.
16 And they asked for an eightfold increase.

17 As a matter of fact, these are all the air
18 pollution sources and the pollutants they list in
19 their own permit. If you add that to all the
20 radiation emissions there's a broad range of
21 radionuclides. For somebody to just claim that it's
22 only tritium going into the water is insanity. It's
23 unbelievable what they expect people to believe. I
24 encourage everybody to go back to the table we have
25 and take a good look at that Schuylkill River board.

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1 They are destroying the Schuylkill River. There was
2 never enough water in the Schuylkill River to sustain
3 this nuclear plant from the very beginning and now
4 we're seeing the consequences of that and they put
5 more and more pollution in it. They want to pump mine
6 water in to supplement the flow for Limerick. It's
7 contaminated and they don't filter it. And they're
8 actually asking for a huge, four times Safe Drinking
9 Water standard increase in total dissolved solids
10 which carry a lot of toxic pollutants. So they put
11 radiation into the river 24 hours a day, 365 days a
12 year, and now they're asking for these huge increases
13 and people have the nerve to get up here and say that
14 they have no environmental impacts. Frankly I've had
15 enough of this deception at the expense of public
16 health. I am sick of it.

17 The facts show, when we looked at Exelon's
18 thing for environmental harms they say they were clean
19 energy. The facts show Limerick isn't clean, it is
20 filthy. It's not safe, it's a ticking time bomb. And
21 nuclear power, they say it's always on. That's not
22 true either as evidenced by shutdowns, some for long
23 periods caused by earthquakes, tornadoes, hurricanes,
24 fires, heat and drought and more. It clearly isn't
25 always on in Japan. So when you take all of this

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1 together and you look at all the ways that they
2 pollute our environment with radiation and all the
3 other toxics, every day Limerick operates our children
4 face more risk. And that's what it's all about. It's
5 about the health of our region.

6 The sooner this place closes the better
7 off we'll all be. Even if you look at infant
8 mortality rates we have higher infant mortality rates
9 and neonatal mortality rates far above state averages
10 and even above Philadelphia and Reading, and we've had
11 these for quite awhile. The fact is when babies are
12 the most vulnerable in the womb what else would we
13 expect? And by the way, for those of you who have
14 been saying that ACE data is anecdotal today I have
15 news for you. This infant mortality report for
16 example is state data reported by EPA in 2003. Every
17 cancer statistic that you see back there is based on
18 Pennsylvania Cancer Registry statistics or CDC
19 statistics. So it is not anecdotal, those are the
20 cancer increases, those are the cancer above the
21 national average that have happened here since
22 Limerick started operating. That is a fact.

23 So it's not anecdotal and the fact of the
24 matter is I thought this was about the environment but
25 apparently it's about money. So I decided that

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1 between the sessions I was going to change things
2 around a little bit. I could talk about the
3 environmental impacts of this place for a whole week
4 it's so bad. And I've got all the documents in our
5 office to prove it. Let's talk about, let's take a
6 minute now though and we're going to talk about the
7 cost. What is this place actually costing us? Let's
8 just think about cancer for example. We have so many
9 cancers above the national average. Childhood cancer,
10 92.5 percent higher than the national average. Think
11 about that. We track the cost of one child with
12 cancer diagnosed at six months to two years and up
13 until that time it was \$2.2 million. How many more
14 kids have that above the national average? Cost that
15 out and how many other cancers are above the national
16 average? You do the math. Figure that out.

17 How about the customers that paid -- I
18 hear them talk about how great the costs are for
19 Limerick. We paid for Limerick from 1985 to 2010 in
20 our electric bills. And in fact the electric that was
21 supposed to be too cheap to meter turned out to be 55
22 percent above the national average by 1997. So that's
23 how cheap Limerick electric is.

24 Then you take the property taxes. They
25 tried to get zero for their property taxes by the end

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1 of the '90s and didn't pay any property taxes until
2 the early 2000s at which time they paid \$3 million
3 instead of the \$17 million they were supposed to pay.

4 So when you think about that no wonder Exelon's
5 willing to throw around a couple million in the
6 community. They owe this community a lot more than
7 what they're giving out.

8 (Applause)

9 MS. RUPPE: So then there's the cost for
10 the pollution they're putting in the river. They're
11 asking for increases in pollution. They want to put
12 more mine water in. They want to increase the total
13 dissolved salts. That's going to cost water treatment
14 systems a lot of money to try to -- for extra
15 treatment for that. It can even break down their
16 equipment, some of the stuff that's coming out of the
17 mines. And when you think about it who actually
18 ultimately pays that cost? We do. We pay for
19 increased costs for our water because they're having
20 to do that at the water treatment systems. And it
21 seems to me that if you really take a good look at
22 things Limerick has got to be the major cause for the
23 radiation in Philadelphia's water.

24 So all in all taken as a whole this place
25 has unprecedented environmental harms. There is no

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1 question about that. Anybody that doesn't believe it
2 come look at the permits with me and I'll show you
3 exactly what's going on. I invite anybody to do that.

4 And the one thing that's really important
5 is that NRC and the nuclear industry are claiming that
6 age is no issue while at the same time they admit that
7 some parts are too big and too expensive to replace.
8 I frankly am really concerned about NRC accommodating
9 the nuclear industry with weakened regulations, lax
10 enforcement, negligence and unsubstantiated denials.
11 It's happened right here even with their fire safety
12 regulations that are -- we're on weakened fire safety
13 regulations even though we know that that can
14 eventually lead to a meltdown. I know my time's up.
15 Thank you.

16 (Applause)

17 FACILITATOR BARKLEY: Thank you, Donna.
18 Mike?

19 MR. GALLAGHER: Okay, good evening. My
20 name's Mike Gallagher and I'm vice president of
21 license renewal for Exelon. I have the overall
22 responsibility for the Limerick license renewal
23 application. Exelon has a great deal of experience in
24 license renewal. We've obtained renewed licenses for
25 the Peach Bottom and TMI plants in Pennsylvania, also

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1 our Oyster Creek plant in New Jersey and our Dresden
2 and Quad Cities plants in Illinois. Just briefly
3 about myself, I've been working in the nuclear power
4 industry for 30 years. I was a licensed senior on a
5 reactor operator at Limerick and also the plant
6 manager at Limerick previously. I've worked at two
7 other nuclear facilities and in our corporate offices.

8 So Mr. Maguire, the site vice president of
9 Limerick, spoke about the reasons for renewing the
10 license for Limerick. I'd like to speak to you
11 briefly about the process that we took for preparing
12 this license renewal application and the amount of
13 work and engineering analysis that we put into
14 preparing the application.

15 So because the Limerick Generating Station
16 can be operated safely and reliably Exelon decided to
17 pursue license renewal. So Limerick is a very clean
18 energy source. It produces no greenhouse gases.
19 Limerick is also good for the economy in that it
20 lowers market prices of electricity for the citizens
21 of Pennsylvania to the tune of \$880 million per year.

22 So in 2009 we announced our intention to
23 seek license renewal. Later that year we started the
24 work necessary to prepare the application. After over
25 two years of work we submitted the application to the

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1 Nuclear Regulatory Commission on June 22nd, 2011. The
2 application when you print it out is about 2,100 pages
3 and when you put it in binders it's three large
4 binders. That's a huge amount of information but that
5 only represents a small part of the work that was done
6 for the engineering analysis to prepare this
7 application. The total amount of engineering analysis
8 that we produced if printed out would be about 290
9 binders of information. We invested over 60,000 man
10 hours of engineering work to prepare the application.

11 Once completed our engineering work to
12 prepare the application we brought in experts from
13 outside Exelon to review the application to ensure
14 that it was complete, thorough and accurate. Our
15 total cost to prepare the application and get it
16 reviewed by the NRC will be about \$30 million.

17 So there are two parts of this
18 application. It's the safety review and the
19 environmental review. For the safety review we took
20 an in-depth look at the history and the condition of
21 the safety-related equipment in the plant. We did
22 that to determine whether the necessary maintenance
23 was being performed on that equipment and to make sure
24 that this equipment will be able to operate an
25 additional 20 years of operation.

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1 So when you look back at Limerick when it
2 was built all the equipment was new. It was
3 thoroughly tested to make sure it performed properly
4 but like anything else equipment does age. That
5 doesn't mean it won't work but it does age and certain
6 activities need to be done with that equipment so we
7 perform preventative maintenance. We refurbish
8 equipment. We replace equipment. There's
9 modifications done to upgrade the equipment in the
10 plant. And in fact, as Mr. Maguire had stated
11 Limerick has spent over \$200 million in the last two
12 years to improve and modernize equipment and enhance
13 plant operations and safety.

14 We also reviewed the calculations that
15 were performed as part of the original design basis of
16 the plant that were done to ensure that the plant
17 could operate for 40 years safely. We analyzed those
18 calculations and were able to confirm that the plant
19 would be able to operate safely for up to 60 years.
20 So overall our conclusion from our engineering review
21 was that Limerick could operate safely for up to 60
22 years.

23 We also took a look at the environmental
24 impacts of continuing to operate Limerick. We looked
25 at all aspects of continued impact of the plant on the

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1 environment. Our conclusion is that the impact on the
2 environment are small and I use the term "small" in
3 the sense that's in the regulation. The regulation
4 defines "small" as the environmental effects are not
5 detectable or are minor. We also reviewed the
6 alternatives if Limerick would not have its license
7 reviewed and another source of electric generation
8 would have to be installed either onsite or someplace
9 to generate the replacement electricity. We concluded
10 that any other means of generation, the replacement
11 electricity would have more of an impact on the
12 environment than the continued operation of Limerick.

13 So for example, if Limerick could be replaced by a
14 wind generation facility the wind farm would have to
15 occupy between 10 and 40 percent of all the land in
16 the state of Delaware and its associated land impacts.

17 If a solar facility could replace Limerick it would
18 need to cover 32 to 50 percent of the entire land area
19 of Montgomery County.

20 So in conclusion we operate Limerick
21 safely and can continue to operate safely for an
22 additional 20 years. Limerick will provide
23 approximately 2,340 megawatts of base load electric
24 generation that's not only safe but clean, reliable
25 and economical. Continued operation of Limerick will

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1 benefit this community, the Commonwealth of
2 Pennsylvania, and our nation. Thank you.

3 (Applause)

4 FACILITATOR BARKLEY: Thank you. Go
5 ahead, Fred.

6 DR. WINTER: Thanks. That's fine. Good
7 evening, folks. As a physician practicing radiology
8 for over 50 years I still have a strong concern about
9 cancer sensitivities from harmful radiation exposures.

10 Now my medical colleagues are sharing the same
11 concerns because we have seen our cancer rates
12 increase since the Limerick power plant started as
13 Donna was saying.

14 Now especially the Pennsylvania thyroid
15 cancer rates are the highest in the United States,
16 according to the National Centers for Disease Control,
17 jumping to 78 percent higher here than in the national
18 average everywhere. Now, some of my friends have
19 argued with me and they say Fred, the reason why we're
20 having so many more cancers is because people are
21 getting so much older. Well, I don't think that makes
22 sense because there are other areas like Pottstown
23 around with the same healthy environment that don't
24 have nearly this high cancer rate. So that doesn't
25 make sense.

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1 Now, you wonder why some of our medical
2 and cancer fundraisers haven't reacted with more
3 responsibility in order to stop what's happening.
4 Yes, we are creating our own kind of terrorism. It's
5 the same, almost a form of terrorism by allowing all
6 these harmful exposures to exist. Now, I attended in
7 Japan a Hiroshima clinic right after World War II when
8 I was in the service. Excuse me. I have to sit down?

9 Oh. Anyway, when I was in the service at this
10 Hiroshima clinic after the atom bomb hit and you can
11 just imagine what I saw and what awful memories I
12 have, particularly of little kids that were going to
13 die any day and so many people injured. Anyway, it
14 left me with very sad memories. Now I can't help but
15 worry about our kids who are actually more vulnerable
16 than adults. And of course what is happening here
17 will be taking a lot much longer to happen than what I
18 saw but it sure is not good.

19 Besides harmful power plant exposures we
20 have environmental disasters and a concern about our
21 nearby earthquake fault and others in the eastern U.S.

22 And then there are radioactive spent fuel materials
23 that somebody mentioned sitting around but supposedly
24 protected.

25 We can't control the use of nuclear power

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1 in the rest of the world. Everywhere nuclear power is
2 being used. Now I don't know whether -- by the way, I
3 should remind you that there are some scientists who
4 are predicting that it may take a little while, maybe
5 a hundred years, but they're predicting that mankind
6 will be completely destroyed by the effects of nuclear
7 energy. That's saying a lot, I know.

8 So please ask your reliable politicians to
9 close the Limerick power plant. Let's save America
10 for our kids and our descendants if this ever happens.

11 So I hope you will take my concerns seriously. And
12 thank you for listening.

13 (Applause)

14 FACILITATOR BARKLEY: Thank you, Dr.
15 Winter. We have four individuals who would like to
16 speak before the meeting is over with so let me call
17 all four in this order. Dan Ely to start off, then
18 Jim Beckerman, then Dr. Lewis Cuthbert, and then
19 finally Jim Derr. So Dan, are you still here?

20 MR. ELY: Thank you, Rich. It's
21 pronounced Dan Ely. I'm a resident of Limerick. We
22 are pigs. We are energy pigs. Nuclear power is a
23 great resource for us. It is particularly clean and
24 in this day and age of understanding about carbon
25 dioxide and the effect on our environment it's a very

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1 important part of what we should consider. When I
2 went away to college to study physics I realized,
3 well, maybe I should be in nuclear engineering and get
4 into this sea. And I'd look at my elementary physics
5 book, elementary particle physics book and it looks
6 like hieroglyphics to me today.

7 I worked at Limerick nuclear power plant
8 and I worked for Bechtel Power Corporation in building
9 that plant. And I worked in quality assurance.
10 Quality assurance has been my life. It's very
11 important to understand that in the design of a
12 nuclear power plant there are criteria that are used,
13 particularly any engineer who has studied properly
14 knows failure mode effects analysis has to be done to
15 evaluate what possible effects come out of an incident
16 at any design, whether it's an automobile design or
17 any other design. And I have to ask because I read
18 most recently that the earthquake that occurred with
19 an epicenter in Virginia, the closest nuclear power
20 plant I understood actually took a Richter reading
21 that was higher than what the design criteria for the
22 failure mode effects analysis would have predicted.
23 It withstood that. I don't know, Bill, do you know
24 that? Did you understand that, that that was a
25 published fact?

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1 FACILITATOR BARKLEY: We have an
2 inspection ongoing at that point right now regarding
3 the North Anna facility. So yes, it did experience an
4 earthquake beyond its original design. So far the
5 inspections have revealed no -- minimal damage. I've
6 only heard of one piece of equipment that experienced
7 even visible signs of problems. But the overall
8 analysis, this is continuing and the licensee has to
9 have permission from us to restart after an extensive
10 inspection.

11 MR. ELY: My concern is that this hastened
12 license renewal process is inappropriate for
13 engineering reasons. I worked in a variety of
14 different areas in the construction of that power
15 plant and there were continual deviations that were
16 provided, whether it was in-storage maintenance
17 monitoring of the condition of the components that
18 were used to the actual construction of that plant. I
19 could cite you several examples.

20 What I would like to ask of the public is
21 that the people that had worked at that nuclear power
22 plant take a look at this licensing renewal and
23 understand that they need to review those failures and
24 those deviations that were provided to go ahead with
25 the construction of that plant with non-conformances

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1 that were reviewed, but not reviewed in light of what
2 we understand and know today about earthquakes or
3 other anomalies. We need to have enough time to make
4 the evaluation on those deviations. The cooling
5 pools. The fuel pool girders that are placed there.
6 There are rebar concrete reinforced supports where a
7 quality engineer, he was supposed to be accepting the
8 very highest grade of concrete to be placed in a 36-
9 hour pour there and he didn't pay attention. And the
10 cofferdam was being built down in the river and up
11 comes this sand mix with a very low strength and gets
12 pumped up into those fuel pool girders in a layer and
13 the engineer said well, boy, that was a terrible
14 mistake, but it'll be okay. We need to go back and
15 take a look at all of those mistakes and make sure
16 that they're not written off because a layer in a
17 structure under load caused by an earthquake, that's
18 an issue. It might not be an issue for the strength
19 of the fuel pool girders to support those fuel pools
20 that when we see them in Japan and they catch fire
21 because they're extremely hot and you need to address
22 that. I was on that pour but I wasn't the engineer
23 that made that error, but there's a number of errors
24 that were made. And I don't see or understand that
25 the NRC or the review or the licensing application is

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1 taking a look at those failures and those errors and
2 addressing them in light of the knowledge that we have
3 today.

4 Some people don't understand about
5 radiation and I read when the Japanese thing occurred
6 and I heard on the news a radiologist talking about
7 oh, the radiation is such a low amount. It really
8 isn't the low amount of radiation exposure that we get
9 incidentally in standing next to a nuclear power
10 plant. It's three ten-thousandths of a gram of
11 plutonium that is death for you if you breathe that
12 dust particle. It's almost certain death. And the
13 problem becomes you can't have -- and it's not going
14 to be a nuclear bomb. It's going to catch on fire if
15 the fuel pool girders were to fail and you'll have a
16 cloud of a material that in and of itself you might
17 not have radiation exposure to it but that particle
18 when it deposits itself can be an issue much the same
19 as fluoride is what causes thyroid cancer when it's a
20 radioactive fluoride. That's why we're very careful
21 in building a plant with no Teflon and no fluoride
22 components.

23 So we need to pay attention to some of
24 that engineering and I'm not certain that that's being
25 done. I'd like to see an agency or for somebody to

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1 contact me if they know about a variety of different
2 flaws that they saw during the construction. And my
3 email address is asqchair@yahoo.com. Yes, I will be
4 the chair of the Philadelphia section of the American
5 Society for Quality coming up and I've been past chair
6 in the past so yes, I'm very quality-oriented and I'd
7 appreciate any feedback from people that have issues
8 with that construction. Thank you.

9 (Applause)

10 FACILITATOR BARKLEY: Okay. Thank you,
11 Dan. Jim Beckerman?

12 MR. BECKERMAN: Good evening. My name is
13 Jay Beckerman. I'm a resident of Phoenixville. I
14 found out about this meeting because I scan a lot of
15 newspaper websites. I found the notice of the meeting
16 on the West Chester Daily Local website. Didn't find
17 it in the Phoenixville paper, didn't see it in the
18 Philadelphia newspaper, didn't hear about it on any of
19 the local radio stations, didn't hear about it on
20 cable, didn't hear about it on any of the television.

21 Once a month, what is it the first Tuesday
22 about 2:00 I hear the siren that we all hear. What
23 should happen in terms of people getting notice is
24 everybody who's within the plume area should something
25 happen at Limerick should find out about this meeting

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1 and I seriously doubt that that actually happened. I
2 think it was pure accident that I found it. Something
3 as serious as license renewal should get the same kind
4 of outreach that occurs when Limerick does what it
5 should which is to mail out every year or two to all
6 of the possibly affected homes the maps and the
7 notifications of how do you evacuate. If you're going
8 to renew a plant which happens once every 20 years I
9 don't understand why the NRC doesn't require the same
10 kind of outreach public notification so people get a
11 chance to come to one-time meetings like this. I
12 think that is a basic flaw in the NRC's licensing and
13 re-licensing procedure and I think it should address
14 that.

15 The slide behind me documents exactly two
16 libraries that the documents are going to go in. Why
17 not in my library in Phoenixville? Why not in
18 Montgomery County and Norristown and all of the other
19 public libraries that are in areas that can be
20 affected by the plume should something happen here?
21 Why are the documents in such a restricted area?

22 I'd like to switch a little bit. I've
23 been researching, I didn't even know about this ACE
24 organization. Glad to find it. I've been researching
25 on my own information about nuclear power plants and

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1 their risks for quite awhile. An organization I ran
2 across published this book titled Insurmountable
3 Risks. The organization is called the Institute for
4 Energy and Environmental Research. It's an amazingly
5 well-researched book. I doubt very many people have
6 read it but you should. This organization is at least
7 as interested in alternative energy sources as it is
8 in having put the effort in to document what are the
9 problems with nuclear power engineering-wise. The man
10 who's head of this organization is a nuclear
11 scientist, a guy named Arjun Makhijani. He's a PhD
12 nuclear scientist. These are first-class researchers,
13 this is PhD-level stuff written for popular
14 consumption. So I'll be glad to make more detail
15 about the book available to anybody who wants to know.

16 A few questions I have, one that I've been
17 thinking about for a long time. I wonder how many
18 people here are aware of something called the Price
19 Anderson Nuclear Industries Indemnity Act. Who knows
20 about that? The title alone should give you some
21 pause. Why do we need a nuclear industries indemnity
22 act? What does it do? What it does is it puts a
23 ceiling of a few hundred million dollars on the
24 liability that nuclear power plant owners have for the
25 damage their plants would cause. It's basically a

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1 scheme, they pay into a pool. The problem is that
2 ceiling was set a very long time ago. It's totally
3 unrealistic in terms of the risk in just the value of
4 houses in areas that are covered by a plant like this.

5 When this plant was planned the population in the
6 area that its plume would cover probably wasn't 20
7 percent of what the population is now. That is I
8 think a valid environmental concern. The environment
9 in which this plant operates has changed because of
10 in-migration, population increase for all sorts of
11 reasons. Part of that's been discussed tonight in
12 terms of evacuation routes, would you be able to get
13 people out were there an accident. The roads haven't
14 changed very much, the population has. That I think
15 is a valid environmental concern that surely ought to
16 be addressed.

17 The question I ask about the money
18 liability is -- let's just go back to the Price
19 Anderson Act. The fact is that the nuclear industry
20 does not pay market rates for insurance to cover it
21 for the liabilities. This congressional act from way
22 back in the 1960s eliminates that need. Back then the
23 insurance industry didn't have the research to put a
24 price on what should the Limericks of the world have
25 to pay for a liability policy. I think there's plenty

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1 of insurance industry experience now. So my question
2 would be if nuclear plants are so safe why do we need
3 the Price Anderson Act?

4 (Applause)

5 MR. BECKERMAN: I listened, I'm going to
6 switch subjects again. I listened to Mr. Gallagher
7 and I heard something I really didn't expect to hear.

8 He said that their studies said that this plant is
9 now safe to run for 60 years. That sounds to me like
10 advanced notice to the public that this isn't the
11 first renewal they're going to ask for on this plant.

12 Mr. Gallagher, are you going to ask for another one
13 20 years from now?

14 FACILITATOR BARKLEY: We haven't had any
15 licensee at this point in time ask for something
16 beyond that.

17 MR. BECKERMAN: You didn't make the
18 statement. Mr. Gallagher did.

19 FACILITATOR BARKLEY: I know and I'm not
20 going to have him address this from the audience.
21 This is a meeting with us.

22 MR. BECKERMAN: And I would like to
23 finally address an issue that the speaker on the cell
24 phone brought up. He talked about embrittlement of
25 concrete over the lifetime so far of the nuclear

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1 reactor containment vessel. That's an internal
2 environmental matter. I don't know if it's quite in
3 the scope of what the NRC plans to talk about or plans
4 to look at, but something that I have not read about
5 at all is an NRC requirement for destructive testing.

6 For instance, if you want to know what a tree looks
7 like on the inside you put a borehole in it and you
8 pull a core sample out and you find out what that tree
9 looks like on the inside. If an engineer wants to
10 know what is the quality of the concrete that was
11 poured for a road -- I used to work for Florida
12 Department of Transportation -- they bore out a sample
13 and then you take a look at it. What I haven't heard
14 anything about except generalizations is has anybody
15 done any destructive even borehole testing of these
16 containment vessels and their support pourings to find
17 out has there been in fact any deterioration of the
18 concrete, the rebar and anything else that went in
19 there. The stuff that's buried in the concrete, the
20 wire, all of those things that are buried in the
21 concrete. If you haven't bothered to open that stuff
22 up since the plant was built how on earth do you know
23 what condition it's in? Shouldn't that be a
24 requirement to do some destructive, open the bottom
25 testing, go all the way through and make sure what you

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1 think is there is what's there and in the condition
2 that it should be in to last for another 20 or 40
3 years? So these are questions that I'd like the NRC
4 to go into. I thank you very much for listening.
5 Overall it's been a very informative presentation by
6 both the proponents and people who have questions and
7 I thank you for the opportunity. I would like to see
8 a meeting like this occur at a bigger venue with more
9 notice. An example would be, as I've discussed with
10 Ms. Regner is it?

11 FACILITATOR BARKLEY: Regner, yes.

12 MR. BECKERMAN: I didn't have her name
13 correct. The Philadelphia Expo Center would be more
14 central to where the plume area for this plant is.
15 It's right off 422. This is not hard to get to,
16 that's not hard to get to. It's much more in the
17 center of the population. Thank you very much.

18 (Applause)

19 FACILITATOR BARKLEY: Okay, thank you.
20 Mr. Cuthbert? Again, following Mr. Cuthbert's remarks
21 it'll be Jim Derr to wrap up the evening.

22 DR. CUTHBERT: Good evening. My name is
23 Dr. Lewis Cuthbert. I'm the president of ACE, the
24 Alliance for a Clean Environment. And my comments
25 this evening are going to differ from this afternoon

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1 because they're going to be focusing on as a general
2 topic documented evidence. We've heard a lot of
3 assertions, assumptions and claims throughout the day
4 many of which would be very difficult to substantiate
5 in our experience. Based on an 11-year investigation
6 conducted by the Alliance for a Clean Environment we
7 have formed a conclusion that we are presenting to the
8 Nuclear Regulatory Commission today and that is very
9 simply that Limerick nuclear power plant must be
10 closed by the NRC, not re-licensed until 2049. And
11 that's based on a substantial body of evidence in
12 terms of documented environmental harms, threats and
13 risks that have in fact gotten into our air, our
14 water, our soil, our food, our milk and our children.

15 The evidence is not refutable.

16 So I'll be presenting as part of my
17 remarks tonight what I'm calling a short list of 14
18 reasons why the NRC may feel free to with more than
19 adequate justification deny this permit. And I'm
20 going to categorize each of them very briefly without
21 any further description or analysis. The evidence
22 comes from a variety of permits, official records and
23 reports, and Exelon's own renewal application which is
24 sizable by their own admission and in our experience
25 in taking a look at it.

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1 The 14 items any of which in our judgment
2 should be adequate and sufficient to deny this permit
3 renewal include, number 1, radiation into air and
4 water from routine and accidental emissions. Number
5 2, major air pollution under health-based standards of
6 the Clean Air Act. A Title 5 permit being issued to
7 this facility means by definition that they are a
8 major air polluter under the federal Clean Air Act.
9 Number 3, Schuylkill River depletion and major
10 drinking water contamination. Keep in mind this is a
11 vital drinking water source for nearly 2 million
12 people from here to Philadelphia. Number 4,
13 radioactive groundwater contamination. Number 5,
14 radiation reporting levels increased dramatically
15 after the Fukushima Japan disaster. Number 6,
16 documented alarming cancer increases especially in our
17 children since Limerick started operating. Number 7,
18 deadly high-level radioactive wastes that are packed
19 in vulnerable fuel pools on this site and they are in
20 fact unprotected. They are above ground and
21 unprotected. Number 8, lax fire safety regulations
22 and multiple violations. Number 9, accidents and
23 leaks from corroding, deteriorating equipment plus
24 miles of buried pipes and cables. Many problems and
25 shutdowns have already occurred at this facility in

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1 its first 26 years of operation. They are a matter of
2 record. Number 10, increased risk of meltdowns from
3 more frequent and stronger earthquakes and other
4 natural disasters such as tornadoes and floods, not to
5 mention mechanical failures. Number 11, threats from
6 unguarded terrorist attacks with planes and missiles
7 and a new threat, cyber attacks. Fuel pool are
8 vulnerable to attack.

9 Number 12, one that I think probably
10 should jump to the head of the list for the NRC based
11 on a lot of comments from a lot of other analysts and
12 elected officials, the need for an updated evacuation
13 plan and increased EPZ, a 10-mile radius. This plan
14 is seriously outdated. It is by many expert's
15 observations fatally flawed. There will be no
16 evacuation in the event of a worst case scenario.
17 Several people spoke to that this evening. The
18 population in this area has increased more than 180
19 percent since 1980 to 2010, U.S. Census data. Updates
20 are obviously needed and they should be reasonable,
21 comprehensive, detailed and accommodate all of the
22 demographics from 1985 to today and from today until
23 as far out as the NRC is willing to license this
24 facility.

25 Number 13, increased cost to the public.

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1 We've heard a little bit about this this evening, more
2 cancers, more illnesses, more emergency room visits,
3 more hospitalization from increased PM-10. Massive
4 research on what particulate matter in terms of PM-10
5 does to human beings. And there are a few other
6 things that contribute to those visits. The costs are
7 astronomical. One case that Donna mentioned, \$2.2
8 million for a childhood cancer case. You do the math.

9 And number 14, the last item on my list.
10 We have had 26 years of insults to our environment,
11 and I choose that word purposely, insults to our
12 environment and costly nuclear power. We can replace
13 it with safe, clean, renewable energy before 2029.
14 That is a matter of scientific fact.

15 It is a scientific certainty that harms,
16 threats and risks to our environment and to our
17 community will increase continuously daily until
18 Limerick's current operating licenses expire in 2029.

19 It would be both unethical and irresponsible for the
20 NRC to cavalierly approve a license renewal without
21 the most rigorous review and justification in the
22 history of this agency. NRC, you have a rare
23 opportunity before you that most people and agencies
24 never are afforded. It's called a do-over, a chance
25 to correct a litany of mistakes and errors associated

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1 with this facility and with your agency since 1985.
2 Twentieth century technology and infrastructure are no
3 longer sufficiently reliable for any of you to assure
4 us that there is nothing to fear and nothing about
5 which to be concerned. Denial of documented evidence
6 is no longer an option. We'll be submitting
7 additional packets of research documentation and
8 evidence tonight along with my comments which will
9 compliment what I did earlier today. The major
10 categories that you'll be getting for additional
11 reading and review, meltdown threats, evacuation
12 plans, Exelon's inaccurate and unsubstantiated claims
13 and a criticism of the NRC's oversight track record in
14 this community. Thank you very much and please accept
15 this for review.

16 (Applause)

17 FACILITATOR BARKLEY: Okay, thank you, I
18 will. Thank you. Mr. Derr?

19 MR. DERR: Good evening. I thought I
20 would add some comments just to make sure my
21 understanding is that this is essentially the NRC's
22 opportunity of listening for things specifically to be
23 included in the environmental site review of the re-
24 licensing. And just a few things which are question
25 marks that lots of folks in the community I think will

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1 be interested in. Most of these have been touched on.

2 Mine water issue, better defining that
3 quality and flow particularly in light of the likely
4 pending changes in stormwater concerns and regulations
5 in the area. Adding that flow to the Schuylkill is
6 going to affect all the municipalities around here who
7 have to deal with stormwater.

8 The emergency planning is an area which
9 needs to be seriously looked at. Hard and soft
10 infrastructure on that. Hopefully that's something
11 which is part of the ongoing operational requirements
12 for periodic review and update since obviously this is
13 not a static environment we live in. That has to be
14 changed on an ongoing basis. And then to -- I'm sure
15 that the generic plan includes a pretty good
16 discussion of fuel storage long-term and short-term
17 onsite but certainly the site-specific fuel storage
18 considerations. And I want to second the comments by
19 Mr. Ely of review of records of non-conformances and
20 anything that was done is part of the initial
21 construction record. And basically that's -- those
22 are the things that we're going to be looking for a
23 better understanding of. Thank you.

24 (Applause)

25 FACILITATOR BARKLEY: I did have one last

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1 request for an individual to speak. She promises
2 she'll only be two minutes so we'll have her up and
3 then we'll wrap up the meeting. Thank you.

4 MS. CONFER: Hi, my name is Traci Confer.

5 I'm with Energy Justice Network. We support clean
6 energy which we do not believe nuclear is. I would
7 like to put our name behind all of Buzz Cuthbert's
8 comments and I want to add that I want the NRC to look
9 into potential water depletion issues from shale gas
10 fracking upriver in both rivers. I also think that it
11 would be very prudent to put a lot of attention on
12 terrorist attacks on the fuel pools. And those are my
13 primary comments. Thank you for your time.

14 (Applause)

15 FACILITATOR BARKLEY: Okay, thank you.

16 With that I'd like to have Lisa Regner come up for a
17 minute and give closing remarks.

18 MS. REGNER: I just wanted to real quickly
19 thank our senior resident inspector who came out
20 tonight out of the goodness of her heart. She does
21 not get paid for this. Jo, would you mind standing
22 up?

23 (Applause)

24 MS. REGNER: Thank you. This is one of
25 the NRC inspectors who works at the plant day in and

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1 day out. She's onsite, she watches these guys like a
2 hawk and she's there to help keep you all safe. So
3 thank you for coming out tonight, Jo. If you would
4 also pass on my thanks to Nicole as well who was here
5 at the 2:00 session. She's also a resident inspector
6 who lives in the community and works at the plant
7 every day. Are there other regional people here that
8 wouldn't mind standing up? Anybody I missed? Oh,
9 Nancy McNamara is in the back. She is our state
10 liaison officer. Thank you for coming out, Nancy.
11 Anybody else? Thank you again to everyone for coming
12 out tonight, taking time away from your families to
13 provide environmental comments and look for the
14 Environmental Impact Statement where we'll address
15 your comments. Anything else? Anybody else? Rich,
16 thank you.

17 MR. ELY: One question. You're saying the

18 --

19 MS. REGNER: License renewal application?

20 Yes, sir.

21 MR. ELY: Is that the final version?

22 MS. REGNER: Right. Right. There are
23 additional on the reviewer copies there's some
24 additional data that is -- some of it's publicly
25 available, some of it's not publicly available. But

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1 and there are all kinds of drawings that the reviewers
2 use to look at those systems that are appropriate for
3 license renewal. There's a lot of extra information
4 that the public really didn't need, okay? But if
5 there is -- well, if there's -- okay. All right, yes,
6 I hear what you're saying. I'm sorry. You know, that
7 I didn't think you'd be interested in, can I put it
8 that way?

9 MR. ELY: The general public might not
10 have -- it might not be for them to see. Perhaps some
11 of them, it might not be -- for them to understand. I
12 don't know. But I wouldn't say that --

13 MS. REGNER: If you want me to go into
14 details of the other material that's on the disk
15 that's for the reviewers I'd be happy to go over that.

16 And if it's publicly available I'd be happy to send
17 it to you. Okay? And you have my email and phone
18 number, right? Okay. I've got the card for you.
19 Anything else?

20 FACILITATOR BARKLEY: Okay, with that I
21 very much appreciate your patience. We actually had
22 15 total speakers tonight, the same number we had this
23 afternoon. I tried to give everyone a fair chance to
24 speak their full mind so that's why we ran a little
25 long but hopefully that was considered fair to all

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1 members of the audience. So with that I'd like to
2 wrap up this meeting. Thanks very much.

3 (Applause)

4 (Whereupon, the foregoing matter went off
5 the record at 9:14 p.m.)

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