

UNITED STATES OF AMERICA

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NUCLEAR REGULATORY COMMISSION

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PALISADES SCOPING PUBLIC MEETING

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THURSDAY

JULY 28TH, 2005

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SOUTH HAVEN, MICHIGAN

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The Palisades Scoping Public Meeting met at
Lake Michigan College, 125 Veteran's Highway, at 7:00 p.m.

PRESENT:

Chip Cameron, Facilitator
Rani Franovich, NRC staff
Robert Schaaf, NRC staff
Richard Emch, NRC staff

P R O C E E D I N G S

(7:05 P.M.)

1
2
3 MR. CAMERON: Good evening, everybody. My name is Chip
4 Cameron. And, I'm the special counsel for the Nuclear Regulatory
5 Commission, the NRC. And, I want to welcome you to the NRC's public
6 meeting tonight.

7 And, our subject is the environmental review that the
8 NRC is going to conduct on a application that we received from Nuclear
9 Management Company to renew the license to operate Palisades nuclear
10 power plant.

11 And, it's my pleasure to serve as your facilitator
12 tonight for this meeting, and in that role, I'll try to help all of
13 you to have a productive meeting tonight.

14 I just want to go over a couple of things about meeting
15 process before we get started with the substance of our discussions
16 tonight. And, the first thing I'd like to tell you about is the
17 format for the meeting. It's basically going to be a two part format.

18
19 In the first part, we're going to give you, the NRC will
20 give you some background information on our license renewal process,
21 what types of things we evaluate in deciding whether to renew a
22 license for an operating reactor, and specifically what types of
23 environmental information we look at.

24 And, we'll have some questions after those brief
25 presentations to make sure that we have explained things clearly, and

1 that you understand what our process is all about.

2 And, the second part of the meeting is an opportunity
3 for us to hear from you. Your advice, your concerns, your
4 recommendations about the license renewal process. And again,
5 specifically about the environmental review process. What types of
6 issues should we be looking at when we prepare the draft environmental
7 impact statement.

8 And, the NRC staff will explain a little bit more about
9 that. We're going to be taking written comments on these issues, but,
10 anything you say tonight will have as much emphasis as a written
11 comment.

12 We are taking a record. Mr. Stuart Karoubas, a court
13 reporter is with us tonight and he's taking a transcript and that will
14 be your written record, our written record of this meeting. And,
15 anybody who wants to get a copy of the transcript, we'll be able to
16 get you a copy of it.

17 In terms of ground rules for the meeting, tonight.
18 They're very, very simple. When we're in the question and answer
19 period after the NRC presentations, if you have a question, just
20 signal me and I'll bring you this little microphone, and please
21 introduce yourself to us, give us any affiliation that you have, if
22 that's appropriate, and we'll try to answer your question.

23 I would ask that only one person at a time speak so that
24 we can give them our full attention, tonight. But also, so that
25 Stuart, Mr. Karoubas can get a clean transcript so that we know who is

1 talking at any particular time.

2 I would also ask you to try to be concise in your
3 questions. We're not really too time pressured tonight but, if you
4 can be concise, we'll make sure that we have time for those who have
5 questions or want to make comments.

6 And, when we are in the question format, I'd like to
7 remind you that we're on questions, sometimes we have a tendency to
8 slide over into comments. But, that's fine, but, if we can just keep
9 the questions to that portion, and then, we'll have a comment period
10 later on.

11 When we do get to the comment period, I'm going to set a
12 guideline of seven to ten minutes for people to talk so that we can go
13 on to other people. If you want to speak, I think we've had several
14 people who have filled out the yellow cards for talking. That's just
15 to give us an idea of how many people want to talk. '

16 If you haven't filled out a card, and you decide you
17 want to say something during the comment period, just tell me and
18 we'll put you on to give us your comments.

19 And, in terms of the NRC speakers, let me introduce them
20 to you. We have Ms. Rani Franovich right here. And, Rani is going to
21 give you a welcome, formal welcome and tell you some basic facts about
22 the license renewal process at the NRC.

23 And, she is the chief of the environmental review
24 section, in our Office of Nuclear Reactor Regulation. And, Rani and
25 her staff are responsible for developing the environmental reviews,

1 not only for licensing renewal applications like this one, but, for
2 other environmental reviews that are done in connection with reactors.

3

4 And, Rani has a lot of experience in different aspect of
5 the NRC's work. She has been a resident inspector. These are the NRC
6 staff who are actually at the plant and are available 24 hours a day
7 to make sure that NRC regulations are being complied with. She was a
8 resident inspector at the Catawba nuclear power plant in South
9 Carolina.

10 She's been with the NRC for 14 years. She's been a
11 project manager on the safety reviews of these types of license
12 renewal applications. She was most recently the enforcement co-
13 ordinator, the enforcement of NRC regulations in the Office of Nuclear
14 Reactor Regulation. And, in terms of her educational background, she
15 has a Bachelors in Psychology from Virginia Tech. And, she has a
16 Masters in industrial and systems engineering.

17 MS. FRANOVICH: No.

18 MR. CAMERON: Okay, from Virginia Tech. And then, we're
19 going to go to Mr. Robert Schaaf who's right here. He is on Rani's
20 staff. He's the project manager, the person in charge of the
21 environmental review for the Palisades license renewal application.

22 And, Bob has been with the NRC for 15 years in a variety
23 of positions. He's also worked in our regional offices like Rani has.
24 He's been a project manager on the operating reactors, and, including
25 the project manager for Palisades, for this particular plant.

1 So, he knows the plant and he knows the area well. And,
2 before Bob came to the NRC, he worked on engineering support for
3 submarines at the Charleston Naval Shipyard in Charleston, South
4 Carolina. He has a bachelors in mechanical engineering from Georgia
5 Tech. And, I'm going to turn it over to them, now. I just thank you
6 all for being here and helping us with this decision. And, go ahead,
7 Rani.

8 MS. FRANOVICH: Thank you, Chip. I'd like to reiterate
9 our thanks to all of you for coming out to this meeting. The process
10 is one that we value public participation and so, thank you all. I
11 know you're all very busy and it takes some time out of your day.

12 Also, I want you to know how happy I am to be here. I
13 got in yesterday evening and went down to the pier at South Haven,
14 took a little walk on the beach and drove around the neighborhoods.
15 You have a very lovely community here. I'm sure you're all very proud
16 of it.

17 I hope the information we provide this evening will help
18 you to understand the process we're going through in evaluating the
19 application for license renewal from Nuclear Management Company for
20 the Palisades plant, and the role you can play in helping us make sure
21 that our environmental impact statement addresses all the important
22 environmental issues, including those that are important to you.

23 First, let me provide some general context. For the
24 license renewal process, the Atomic Energy Act gives the NRC the
25 authority to issue operating licenses to commercial nuclear power

1 plants for a period of 40 years. For the Palisades nuclear plant,
2 that license will expire in 2011.

3 Our regulations also make provisions for extending those
4 operating licenses for an additional 20 years. Nuclear Management
5 Company has requested license renewal for Palisades.

6 As part of the NRC's review of that license renewal
7 application, we'll perform an environmental review to look at the
8 impacts on the environment for an additional 20 years of operation.
9 The purpose of this meeting is to give you information about the
10 process, and to seek your input on what issues we should consider
11 within the scope of our review.

12 At the conclusion of the staff's presentation, we will
13 be happy to answer any questions and receive any comments that you may
14 have on the process and the scope of our review. We have several
15 members of the NRC staff here, as Mr. Cameron indicated earlier in his
16 opening remarks.

17 As I indicated, the license will expire in 2011 with 20
18 additional years of operation that would, if granted, continue to
19 operate until 2031. And, before I get into the discussion of the
20 license renewal process, I'd like to take a few minutes to talk about
21 the NRC in terms of what we do and what our mission is.

22 The Atomic Energy Act is the legislation that authorizes
23 the NRC to regulate civilian use of nuclear material in the United
24 States. In carrying out that authority, the NRC's mission is three-
25 fold. To ensure adequate protection of public health and safety. To

1 protect the environment, and to provide for the common defense, and
2 for security.

3 The NRC accomplishes it's mission through a combination
4 of regulatory programs and processes, such as inspections at the
5 nuclear facilities, enforcement actions, assessment of licensee
6 performance and evaluation of operating experience for nuclear plants
7 across the country as well as internationally.

8 Turning now to license renewal in particular, the NRC
9 license renewal review is similar to the original licensing process in
10 that it involves two parts. An environmental review, and a safety
11 review.

12 In addition, as part of the safety review, the staff
13 carries out inspections and audits. And, the results of the review
14 are presented to the advisory committee on reactor safeguards. And,
15 I'll explain the role of the advisory committee or ACRS in just a
16 moment.

17 This slide gives a picture of the overview of the
18 license renewal process. As I indicated, there are two parallel
19 processes, the safety review and the environmental review. I'd like
20 to talk about the safety review for a minute.

21 Safety review involves the NRC staff's review and
22 assessment of the safety information that's contained in the
23 application for renewal. There's a team of about 30 NRC technical
24 reviewers and contractors who are conducting the safety review at this
25 time.

1 I'd like to introduce Mr. Michael Morgan who's the
2 safety project manager. Thank you, Mike. He's in charge of the
3 safety review which includes audits and inspections.

4 Safety review for license renewal focuses on how Nuclear
5 Management Company will manage the aging of certain structures,
6 systems, and components that are within the scope of the license
7 renewal review. Some of the programs for managing aging are already in
8 place, while others will be implemented as part of license renewal.

9 The audits and on-site inspections are conducted by a
10 team of inspectors by both headquarters and NRC's Region III office in
11 Chicago. A representative from our inspection program that's here
12 today, the senior resident at Palisades is John Ellegood. And, John,
13 if you could stand up? Okay, thank you. There's John.

14 The results of the inspections for Palisades will be
15 documented in separate inspection reports. The results of the staff
16 safety review as well as the results of inspections will be documented
17 in the safety evaluation report.

18 The staff safety evaluation is independently reviewed by
19 the advisory committee, the ACRS. This committee is a group of
20 nationally recognized experts in nuclear safety who serve as a
21 consulting body to the Commission. They review each license renewal
22 application, as well as the staff safety evaluation report and form
23 their own conclusions and recommendations and report those conclusions
24 and recommendations directly to the Commission.

25 Now, I'd like to focus on the environmental review

1 process. It's a parallel process to the safety review process. It
2 involves an environmental review with scoping activities and the
3 development of an environmental impact statement. As I've said, we're
4 here today to receive your comments on the scope of that review.

5 We'll consider any comments on the scope that we receive
6 at this meeting, or in any written comments that you provide when we
7 develop the draft of the environmental impact statement. And, in
8 February of next year, we expect to issue that draft environmental
9 impact statement for comment.

10 So, you can see from the slide that the final Commission
11 decision as to whether to approve or deny the application for renewal
12 involves several inputs. A safety evaluation report, the inspection
13 reports that document the results of the on-site inspections. The
14 environmental impact statement and the independent review of the ACRS.

15 I'd like to point out that the yellow hexagons on this
16 slide, like that one, these all indicate opportunities for public
17 participation, such as this one. This was actually an early
18 opportunity. The meeting on the draft environmental impact statement
19 will be another opportunity for you.

20 At this time, there also is still an opportunity to
21 request a hearing. That opportunity is available through August the
22 8th. And, the ACRS meetings on the Palisades license renewal will
23 also be open to the public.

24 That concludes my presentation. Thanks again for being
25 here with us. And, I'll now turn it over to the environmental project

1 manager, Mr. Robert Schaff. Bob?

2 MR. SCHAFF: Thank you, Rani. Once again, my name's Bob
3 Schaff. I'm the environmental project manager for the review of the
4 Palisades license renewal application. I'd also like to extend a
5 welcome to everyone and thank you for coming out to share your
6 comments with us.

7 I'll spend the next few minutes explaining the
8 environmental review process for the license renewal application and
9 how you can participate in that process.

10 A little background. The National Environmental Policy
11 Act of 1969, or NEPA, requires that federal agencies follow a
12 systematic approach in evaluating potential environmental impacts
13 associated with certain actions. We're required to consider the
14 impact of the proposed action, and to consider mitigation for impacts
15 that we consider significant.

16 We're also required to consider the impacts of
17 alternatives to the proposed action. For license renewal,
18 alternatives would include construction and operation of replacement
19 power generating facilities. Or, alternative means for replacing
20 Palisades' generating capacity.

21 The NEPA process requires development of an
22 environmental impact statement, or EIS for any proposed action that
23 may significantly effect the quality of the human environment.

24 NEPA and our environmental impact statement are
25 disclosure tools. We identify and disclose to the public the

1 potential impacts of a proposed action. This process is specifically
2 structured to involved public participation. This meeting is a part
3 of that effort to involve the public in our environmental review.

4 We're here to gather information on the scope of our
5 review, that is, what specific environmental issues should be
6 considered for the proposed Palisades license renewal.

7 The NRC staff developed the generic EIS or impact
8 statement for license renewal. We also refer to that as the GEIS,
9 that identifies a number of issues common to all nuclear power plant
10 license renewal applications. We are supplementing that generic EIS
11 with a site specific EIS or SEIS, that will address issues that are
12 specific to the Palisades site.

13 Now, I'd like to provide a little information about the
14 GEIS. The generic environmental impact statement for license renewal,
15 also known as NUREG-1437 identifies 92 environmental issues that are
16 evaluated for license renewal.

17 69 of these issues are considered generic, or category
18 one, which means that the impacts are similar for all reactors, or for
19 all reactors with certain features such as plants that have cooling
20 ponds.

21 Only certain issues addressed in the GEIS are applicable
22 to Palisades. For example, GEIS issues related to cooling ponds are
23 not applicable to Palisades because the plant uses cooling towers
24 instead of cooling ponds.

25 For those category one issues that are applicable to

1 Palisades, we will assess whether there is any new information related
2 to that issue that might effect the conclusion reached in the GEIS.
3 If there's no new information, then the conclusions of the GEIS will
4 be adopted for Palisades.

5 If new information is identified and is determined to be
6 significant, then a site specific analysis will be performed for that
7 issue. In the GEIS we concluded on a generic basis for all plants
8 that those 69 issues, the impacts were similar, mitigation would not
9 be required and we adopt that conclusion if we don't identify new and
10 significant information.

11 MR. CAMERON: Can we just hold the questions until after
12 he's done? And, I will go right to you?

13 MS. BARNES: That's okay. I just wanted to --

14 MR. CAMERON: Maybe there's a quick thing we can clarify
15 right here for you --

16 MS. BARNES: I was just wondering where can you find a
17 list of the 92 issues and the 69 generic ones?

18 MR. SCHAFF: Right. They're identified in the generic
19 impact statement which is available on our website. They're also
20 codified in the Code of Federal Regulations 10CFR, Part 51, where they
21 were adopted from the GEIS. Also, in our supplemental impact
22 statement for Palisades, we do identify all of the issues that were
23 addressed in the GEIS. And, for those category one issues, we
24 summarize the conclusions that were reached in the GEIS. And, then
25 for applicable category two issues which I'll get to in a minute.

1 MR. CAMERON: And, we have one back there that you can
2 look at and we'll make sure that you know how to get a copy of it.

3 MR. SCHAFF: Right. And, as noted by the arrow there,
4 identification of new and significant information for category one
5 issues is one area where public participation during scoping is
6 particularly important.

7 I think it's important to note that although we reach
8 generic conclusions on these, we don't just set them aside. We look
9 for whether the conclusion that was in the GEIS was appropriate for
10 each site that's evaluated. And, that's part of why we're looking for
11 additional information, whether we should reconsider any of those
12 conclusions.

13 Now, what's new and significant information? New
14 information is information that was not considered in the development
15 of the GEIS. That, this information would be considered to be
16 significant if it would cause us to reach a different conclusion
17 regarding that issue than was determined in the GEIS.

18 Of the remaining 23 issues, 21 are referred to as
19 category two, indicating that the NRC staff found that a site specific
20 analysis would be needed to determine the potential impacts. For
21 example, potential impacts to threatened or endangered species would
22 need to be evaluated for each site, because the species which are
23 present will differ from one site to another.

24 The remaining two issue, environmental justice and
25 potential chronic effects of electro-magnetic fields

1 were not categorized in the GEIS, and a site specific analysis is
2 needed for these issues. And again, a site specific analysis will be
3 performed for all category two and uncategorized issues which are
4 applicable to Palisades.

5 Finally, we will look for potential new issues that were
6 not identified in the development of the GEIS. And, identification of
7 potential new issues is another area where public participation can be
8 particularly helpful during the scoping process.

9 Now, this next slide shows our decision standard for the
10 environmental review. To paraphrase, we're trying to determine
11 whether the environmental impacts of the proposed action are great
12 enough that maintaining the license renewal option for Palisades is
13 unreasonable.
14 In plainer language, is license renewal acceptable from an
15 environmental perspective?

16 This slide lists important milestone dates for our
17 environmental review. The highlighted dates indicate opportunities
18 for public involvement in our review process.

19 Our Federal Register notice of intent to prepare an
20 environmental impact statement and conduct scoping started the scoping
21 period for our environmental review. That notice was issued June
22 27th. The purpose of scoping is to scope out or define the bounds of
23 our environmental review.

24 As I noted previously, we're especially interested in
25 identifying new, any potential new and significant information

1 regarding the category one issues, or any potential new issues that
2 were not considered in the GEIS. This meeting is a part of the
3 scoping process. Again, comments from the public are an important
4 tool in helping us define the scope of our environmental review.

5 The meeting is being transcribed and comments provided
6 here carry the same weight as written comments submitted to the NRC.
7 Written comments can also be submitted to the NRC, through means which
8 I will identify shortly, through August 22nd.

9 And, I'll note that although that's the identified date
10 for the completion of our scoping process, to the extent possible, we
11 can consider comments that are received beyond that date, but, really
12 only be a few days, typically. But, there is some small amount of
13 leeway. And again, as Rani mentioned, the closing date for the
14 opportunity for hearing is August 8th.

15 At the end of the scoping period, we'll issue a scoping
16 summary report in October in which we will address all of the comments
17 that we receive, both here and in written comments that are submitted
18 to the NRC.

19 And then, we anticipate publishing the draft SEIS in
20 February of next year. We will provide an opportunity for public
21 comment on the draft. And, we plan to have another meeting here in
22 April to receive comments on that draft. Once the comment period
23 closes, we will develop the final SEIS, which we expect to publish in
24 October of next year.

25 If anyone would like to receive a copy of any of these

1 reports, we need to have your name and address. You can provide that
2 information on the blue cards at the registration desk in the back of
3 the room.

4 At this point, we're in the process of gathering
5 information to prepare our draft SEIS. As indicated here, we rely on
6 a range of information sources. During this week, members of the NRC
7 staff and our team of environmental experts from Argonne National Lab,
8 and Lawrence Livermore National Lab have been conducting an
9 environmental audit to gather information.

10 In addition to meeting with the applicant, Nuclear
11 Management Corporation, and observing conditions at the site, members
12 of our team have also been meeting with local, state, and other
13 federal agencies to gather information. In fact, several members of
14 our team were up in Lansing just this morning meeting with the state
15 department of environmental quality.

16 Comments provided at this meeting and written comments
17 submitted to the NRC by August 22nd will also inform our review.

18 Our team looks at a wide range of environmental areas.
19 Some of the areas considered include air quality, water quality, and
20 potential effects on plants, wildlife and the people living in the
21 vicinity of Palisades. We also consider environmental justice, which
22 focuses on whether there are minority or low income population groups
23 that may be disproportionately impacted by the proposed license
24 renewal.

25 This slide provides my phone number and e-mail address

1 in the event that anyone has questions following this meeting. I'm
2 the designated point of contact at the NRC for the environmental
3 portion of the license renewal review. As noted earlier, Mike Morgan
4 is the project manager for the safety and aging management portion of
5 the review.

6 Although I'm providing contact information here, we
7 still need to get your comments in a, in some form that we can
8 document, either in writing, or through comments given at this
9 transcribed public meeting. The transcript will become the written
10 record of your comments.

11 Arrangements have been made for the documents associated
12 with our environmental review to be available locally. The South
13 Haven Memorial Library, located in South Haven has been kind enough to
14 make some shelf space available for documents relating to our review.

15 Also, documents are available through our document
16 management system, which can be accessed on our Internet web page.
17 The draft and final environmental impact statements will also be
18 posted on our license renewal web page.

19 Now, after this meeting, comments can be submitted by
20 mail, by e-mail, or in person at the NRC headquarters. You can send
21 written comments to us at the address shown, either the postal address
22 or the e-mail address. Finally, although not too many people take
23 advantage of this option, you can deliver your written comments in
24 person if you're in the Rockville, Maryland area.

25 As a reminder, written comments are due to us by August 22nd.

1 This concludes our formal presentation on the review
2 process. And, we can take any questions you have on that process now.

3 MR. CAMERON: Okay, thank you, Bob, and thank you, Rani.
4 And, I think this point on that we did have a request at this
5 afternoon's meeting to extend the comment period on scoping. And, the
6 NRC staff is going to have to make an evaluation of that. But, I
7 think at this point, just assume that it will be the same until you're
8 notified that it is different. I would imagine that that will be
9 posted.

10 MR. SCHAFF: Right. I think if we chose, if we did
11 decide to extend the comment period, I believe we would re-issue a
12 register notice and then information on it we would also post on the
13 license renewal web page.

14 MR. CAMERON: Okay, great. Thank you. And, people can
15 always contact you if they want further information.

16 MR. SCHAFF: Right.

17 MR. CAMERON: All right. Are there questions? Can we
18 answer any questions for -- yes, sir, and, please just introduce to
19 us.

20 MR. KEEGAN: Yes, my name is Michael Keegan. Has the
21 NRC ever denied an application for a 20 year license extension? And,
22 which plants and under what circumstances? And, did those denials get
23 appealed by the utility? Have you ever said no?

24 MR. SCHAFF: To date, the applications that have been
25 accepted for docketing are either still under review or have been

1 approved. We did receive an application from a facility in
2 Pennsylvania which we determined was not acceptable for docketing. It
3 did not have sufficient information. And, it was returned to the
4 utility. My understanding, I don't know if they've indicated yet
5 whether they intend to resubmit.

6 MS. FRANOVICH: The facility Bob is talking about has
7 indicated that it will resubmit an improved application for renewal in
8 October of next year.

9 MR. CAMERON: And, one other thing that may bear onto
10 the question. Can you talk about the process of request for
11 additional information from an applicant that, if those are not
12 satisfactorily met and things change to our satisfaction, then, it
13 might well result in a rejection. But, can you explain that process
14 to people?

15 MR. SCHAFF: Yes, yes. Yes, as Rani discussed on the
16 process, the applications undergo extensive review. We're talking
17 about thousands of hours of inspections and audits and staff review.
18 The environmental review alone is several thousand hours of staff time
19 and technical experts from the national labs.

20 And, as part of that process, in the audits, the
21 inspection teams that come to the site are seeking additional
22 information that they need to come to a finding on issues. Also, as
23 part of the safety review, we issue numerous, what we call RAI's or
24 Requests for Additional Information to the applicants seeking
25 additional information.

1 And, I think sometimes out of that process, the
2 applicant will make changes to their programs, and we may have
3 commitments that they make to make changes in those program, or carry
4 out certain programs.

5 So, it's not a simple process that we get it, we give it
6 a quick once over and we issue an approval. We're talking about
7 literally, probably 10,000 hours of review time. That may be a little
8 high, but, you know, 8 to 10,000 hours probably of review time and
9 interactions with the applicants.

10 MR. CAMERON: Okay. Thank you.

11 PARTICIPANT: I have a --

12 MR. CAMERON: Sure.

13 PARTICIPANT: The National Discharge Permit, is this
14 part of the consideration? I'm talking about the biocides, the
15 slimicides, the -- size, the heavy metals, the petro chemicals that
16 are put out of this plant on a daily, routine basis? Are those going
17 to be part of the EIS?

18 And, relating to the EIS, is an Environmental Impact Statement
19 required, or are you going to be looking at an environmental
20 assessment with a FONZI, or are we going to have a full EIS?

21 MR. SCHAFF: The Commission has determined for license
22 renewal that we will issue an environmental impact statement and the
23 form it will take is a supplement to the generic impact statement. To
24 your other question, one of the issues that was identified in the GEIS
25 is water quality, surface water quality and as part of our review of

1 that, we do look at the NPDES permitting process. Does that answer
2 the question?

3 PARTICIPANT: Yes. That's all I have for you.

4 MR. CAMERON: Okay. All right. Can we, anybody else
5 have a question about things? Yes, sir?

6 MR. KARCH: Yes, my name is Gary Karch, that's with a K.
7 And, I have a question where economic issues come into this. My, what
8 I mean by that is how much this 20 year license renewal, how much
9 guaranteed loans and tax incentives and the millions of dollars is
10 this going to cost taxpayers? Because to me this plant is so old that
11 it would literally have to be rebuilt in order to continue for another
12 20 years. That's where I'm coming from.

13 MR. CAMERON: Okay. Rani, are you going to talk a
14 little bit about how we do consider economic considerations?

15 MS. FRANOVICH: Well, I think that that's a socio-
16 economic consideration that we have for the environmental review.
17 Bob, correct me if I'm wrong.

18 As far as the tax incentives, my understanding, and I'm
19 not an expert in this area, but, my understanding is that the utility
20 passes costs of its operations onto the people who pay their electric
21 bills.

22 So, the NRC does not give them any incentives to apply
23 for renewal. And, as far as anything that would be passed on to the
24 rate payers, that would be something that Nuclear Management Company
25 would do, not the federal government. Does that answer your question?

1 MR. KARCH: Yes, it does, thank you.

2 MR. CAMERON: And, it might be instructive for people to
3 look at a draft environmental impact statement or environmental impact
4 statement that's been done on another license renewal to give you an
5 idea of what types of economic considerations and alternative energy
6 sources are considered.

7 And, those are available on our website, too. But,
8 often that gives you a better idea of what goes into one of these
9 things. Bob or Rani, do you have anything more to say on that before
10 we move on to someone else.

11 MS. FRANOVICH: If we've answered the gentleman's
12 question, than we can move on.

13 MR. CAMERON: Okay. Let's go right here and then we'll
14 go to Corinne, and Ken Richards and then right here. Yes? And,
15 introduce yourself, too.

16 MS. BARNES: My name's Kathy Barnes. And, I've got a
17 lot of questions. One is, are you going to, in the environmental
18 assessment take into consideration the creation, storage and
19 transportation of nuclear waste. Also the geological strata
20 underneath the plant, the shifting sands, the impermeability of it?

21 And, I was wondering also if you were gathering
22 information from public agencies? Have you gathered information from
23 the Public Health Department on the cancer rate in South Haven and
24 Covert. Do you consider Covert as an environmental, what do you call
25 that, what was that term you used? Yeah, the justice issue?

1 MR. SCHAFF: The environmental justice?

2 MS. BARNES: Because, yes, mainly African American and
3 Latino community. And --

4 MR. CAMERON: Kathy, can I just stop you right there so
5 that we can try to --

6 MS. BARNES: One more, I, yeah, I wondered what
7 information you gathered from social services, too?

8 MR. CAMERON: Okay. Bob, do you mind if I try to just
9 summarize those for you. One was a question on how does the
10 environmental impact statement deal with radioactive waste
11 transportation --

12 MS. BARNES: And, storage, if you look at --

13 MR. CAMERON: I'm just trying to summarize, okay?
14 Second thing was how does the environmental impact statement or how
15 does the NRC review, look at what might be called seismic foundational
16 issues under the plant, that's the second one.

17 We had a third one about, that relates to what we call
18 epidemiology, cancer rates, and I'm going to go to Rich Emch to answer
19 that for you. And, there was something on environmental justice and
20 how do we, I think the implication, we mentioned social services, how
21 do we gather information to do that type of analysis?

22 We might want to start with the high level waste
23 question and explain how that is treated in this process. And then,
24 maybe move to the what I'll just call the seismic issue, so that we
25 know a short hand way of referring it to, to that.

1 And then, go to Rich Emch for epidemiology and maybe
2 come back to the environmental justice thing to you guys, okay? So,
3 we're going to go through this all for you. And then, we'll see if
4 you have, if that explains everything to you so we can then go on to
5 Corinne and Richard and this gentleman back there? Okay? All right,
6 Bob?

7 MR. SCHAFF: Okay. Starting with the question of waste
8 generation, transport, fuel cycle and waste is a category one issue in
9 the GEIS. That is an issue that we evaluated across the population of
10 plants and we determined the impacts were similar for all sites, that
11 no additional mitigation would be required.

12 The details of that assessment would be in the generic
13 impact statement. It really will just have a relatively brief
14 discussion of it in the SEIS. Again, that is an area where if there
15 is information you have that can help us reevaluate that, well, we
16 encourage you to bring it forward.

17 I don't know if you want to explore that one further.
18 That's a good short answer maybe.

19 MR. CAMERON: Why don't we try and answer all of those
20 questions and then we'll come back and see if she has any follow up on
21 that. But, basically, on the high level waste issue that was category
22 one issue, that was analyzed in the generic environmental impact
23 statement?

24 MR. SCHAFF: That's correct.

25 MR. CAMERON: Okay, can we talk about whether in license

1 renewal we look at anything relating to seismic, any considerations
2 like that? Rani?

3 MS. FRANOVICH: Sure, sure. When the plants are
4 initially licensed, this one was initially licensed I guess in 1961,
5 based on --

6 MR. SCHAFF: '71.

7 MS. FRANOVICH: Okay, '67, '71. They have to meet
8 certain design requirements. And, there's something the NRC calls the
9 design basis earthquake. And, that's the worst case seismic event for
10 this region.

11 MS. BARNES: I didn't say seismic, I said
12 impermeability, shifting sand.

13 MS. FRANOVICH: I understand, and I'm going to get to
14 that. So, they're designed to withstand the design basis earthquake
15 for the region. Now, your question had to do with sand shifting at
16 the site. And, for the safety review side, not the environmental
17 review, but, the safety review, we have structural and civil engineers
18 who evaluate the aging of the structures at the site to ensure that
19 they are not cracking or degrading in some way that they could not
20 continue to provide their design basis function.

21 So, that is part of the staff's review. If there were a
22 shifting of the sands or earth at the site, it would reveal itself in
23 the structures. You'd see cracking, you'd see shifting of the
24 structures at the plant. So, the staff would, in its inspections,
25 identify that.

1 MR. CAMERON: Okay. So, let's go to Rich for the
2 epidemiology. This is the cancer rate issue that Kathy asked about.
3 Richard Emch, NRC staff. He's a health physicist with our staff.
4 Richard?

5 MR. EMCH: Before I get to that, let me just say just a
6 couple more words about spent fuel storage. I think that was one of
7 your original questions. We've talked about whether it's an issue
8 that we look at. But, one of the things that I wanted to mention is,
9 is they employ two forms of storage at Palisades for spent fuel.

10 One is the spent fuel pool. The other one is dry cask
11 storage. And, they actually have two forms of dry cask storage. And,
12 the Commission has reviewed both of those approaches and has concluded
13 that those are both safe methods of temporary interim storage of the
14 fuel until Yucca Mountain or another facility can be brought to
15 operation.

16 We did not, switching to cancer statistics, we did not
17 specifically talk to the Michigan Department of Public Health or
18 whatever their particular name is. We did, this morning, meet with
19 the Michigan Department of Environmental Quality, the Radiation
20 Protection staff of the DEQ, and they didn't express any concerns
21 about cancer rates.

22 And, in fact, a very important point that I wanted to
23 make here is, the releases from this plant are quite low. The maximum
24 dose for a person off site would be less than .1, that's .1, one tenth
25 of a millirem per year. We need to contrast that with natural

1 background which we all are exposed to and that's in the range of 360
2 millirem per year. So, we're comparing one tenth of a millirem to
3 360.

4 The 360 is from cosmic radiation. It's from naturally
5 occurring radionuclides in the soil and building materials. It's from
6 radionuclides that are in our body just because we're humans. And,
7 medical sources of radiation, if you take a cross country flight, you
8 get two or three millirem in extra cosmic radiation.

9 There are wide variations in this background. The
10 people living in Denver are 5,000 feet higher than the people living
11 in Miami, and they get a much bigger dose from the cosmic radiation.
12 So, there's wide variations, but, again, I want to contrast, I mean, a
13 less than .1 millirem versus a 360 millirem per year from all these
14 other sources.

15 In addition, in 1990, Congress asked, or requested the
16 National Cancer Institute to do a study around nuclear power plants
17 and other nuclear facilities to evaluate the known data, all the known
18 data about cancer statistics. And, the result of that 1990 study was
19 that there was no evidence of any excess cancers around any of the
20 nuclear power plants. Palisades was included in that study.

21 MR. CAMERON: Okay. Thank you, Rich. And, some of the
22 implications, Kathy, about what Rich is saying is that the NRC is
23 usually not the agency who goes out and looks at incidence of cancer.
24 It's usually either the state health department or a federal agency
25 called the Agency for --

1 MR. EMCH: Toxic Substances and Disease Registry.

2 MR. CAMERON: Toxic Substances and Disease Registry.

3 But, we do use studies of radiation and cancer in setting our
4 regulations for releases from plants and protection of the public that
5 are in our 10CFR, Code of Federal Regulations, part 20.

6 MS. BARNES: Do you have any plans to
7 contact --

8 MR. CAMERON: And, we, let me get you on the record
9 here.

10 MS. BARNES: Do you have any plans to contact the Public
11 Health Department for, you know, reports about the high incidence of
12 cancer in this area?

13 MR. CAMERON: We can take that as a recommendation
14 coming out of this meeting to look at that. And, we will do that.
15 And, let's go to your, a related question in terms of getting data,
16 the environmental justice question. And then, I'm going to move on
17 over to Corinne and some other people so that they can get a chance to
18 ask questions. We know you all have a lot of questions.

19 Bob, the issue was environmental justice, and the
20 related issue was, and Kathy, I'm just trying to sort of summarize
21 what I think you were going to, and you tell me if I'm wrong about
22 this. How do we gather data in terms of doing our review for
23 environmental justice?

24 MR. SCHAFF: Okay. In the application, in the
25 environmental report that the applicant submitted with their

1 application, they did provide demographic data for the surrounding
2 area. We will verify that data. Typically we look at data from the
3 U.S. Census Bureau. And, I think now we're using the 2000 Census as
4 our source of data.

5 I don't know if you had any more on that question, but,
6 yes, I mean, we will evaluate environmental justice. It's one of the
7 issues that is specified to be evaluated in each site specific impact
8 statement.

9 MR. CAMERON: Okay. And, we do have some of our experts
10 that are helping us with this evaluation. Expert scientists who are
11 with us and perhaps they can talk to you after the meeting to just
12 give you more of an idea of how this is done, or get an idea of what
13 your concerns are on that.

14 Corinne? And, please introduce yourself to us.

15 MS. CAREY: Thank you. Yes, Corinne Carey from Grand
16 Rapids. And, to go back to the other issues someone brought up about
17 isn't it easier or better or safer to simply rebuild the plant?

18 And, I have heard the term that retrofit is cheaper than
19 repairing damages. Is that true, and how much retrofitting will be
20 done, and what kind of criteria do you use? What percentage of
21 retrofitting would you expect would be economically feasible, or
22 environmentally?

23 MR. CAMERON: I think that the retrofitting is all, is
24 tied up into the evaluation of aging that we do and in terms of the
25 rebuilding, maybe we could say a little bit about what types of

1 alternative energy sources we look, alternatives on energy supply we
2 look at in the environmental impact statement. It might answer this
3 and also help Mr. Karch.

4 MS. FRANOVICH: As far as modifying the plant,
5 retrofitting the plant, that would be an economic decision that would
6 be made by Nuclear Management Company. So, they have the option to
7 renew the plant as a nuclear power plant, that's the option they've
8 chosen.

9 But, for them to choose to modify the plant, when you
10 say retrofit, do you mean to maintain the plant as a nuclear power
11 plant, or, do you mean to convert it to some other type of generation
12 plant?

13 MS. CAREY: Well, probably it would be maintaining, oh,
14 maintaining as a nuclear plant --

15 MS. FRANOVICH: Right.

16 MS. CAREY: -- because a plant that is built for that
17 specific purpose would not be functional in any other purpose.

18 MS. FRANOVICH: Okay. Just wanted to make sure I
19 understood your question. They actually retrofit the plant annually.
20 They implement plant modifications all the time at all of the nuclear
21 power plants as a way of improving efficiency, enhancing safety,
22 reducing their core damage estimate, or core damage frequency, it's a
23 risk kind of approach they're taking to reduce risk of an accident or
24 a consequence of an accident.

25 So, they are retrofitting the plants even today. They

1 will continue to do that for license renewal in part because it's
2 required by the rule, and in part, because it'll help them run their
3 plants more efficiently in the future.

4 So, that is part of what they propose to do to make it
5 safe enough to operate for another 20 years.

6 MR. CAMERON: And, on the alternative energy sources
7 that -- Bob could you just talk a little bit about that?

8 MR. SCHAFF: Yeah, we'll evaluate a number of
9 alternatives, generation sources as required by NEPA in evaluating the
10 impacts. Part of our mandate is to evaluate alternatives to the
11 proposed action. And, the alternatives we'll evaluate simply, the no
12 action alternative. That would be not renewing the license, and
13 evaluating what the impacts of that are.

14 And, primarily, that concerns issues such as, you know,
15 the socio-economic areas, the loss of the tax base to the local
16 community, the loss of jobs. Those are the most significant areas in
17 that evaluation typically.

18 We'll also evaluate alternative power generating
19 facilities. Typically we'll evaluate a gas fired plant, a coal fired
20 plant, we will sometimes, because there is interest in the nation, in
21 building new nuclear plants, we sometimes include a new nuclear
22 facility as an alternative in our evaluation.

23 We will evaluate a combination of alternatives where we
24 try and look for what is some way that Nuclear Management Corporation
25 and Consumers Energy can satisfy the lost generation capacity. And,

1 that might be partly by building a smaller gas fired plant. Partly by
2 purchasing power from outside their service area to import on the
3 transmission grid. And, partly by carrying out some demand side
4 management measures, efficiency improvements. And, sometimes we also
5 include some quantity of renewables in our combination of
6 alternatives.

7 MR. CAMERON: Okay, great. Thank you. Thanks, Bob.
8 Let's go to this gentleman here. Yes, sir.

9 MR. KANTMAN: Maynard Kantman. I live about 10 miles
10 due east of the nuclear power plant we're talking about. And, I look
11 over there at the cloud of smoke and I'm very anxious because I hear
12 from people, I don't know if it's true or not, and this is a question
13 for the group here to answer, is that, this is an older plant, and
14 there's some problem potentially with embrittlement in container or in
15 the core. And, I would like to know how serious that is and whether
16 that needs to be fixed or replaced prior to being, having the license
17 be done. That's one question.

18 The second question has to do with the notion that there
19 might be renewable sources of energy as alternatives and I don't know
20 why that wasn't mentioned among the possibilities that you just
21 reviewed. Because, in fact, wind power is a fantastic source of
22 energy and it would come online a lot faster than additional nuclear
23 power plants, which I know are present at a loss.

24 MR. CAMERON: And, could you just quickly, Bob might not
25 have mentioned renewables, but, then, correct me, that is something

1 that is looked at in the alternative analysis because we've had draft
2 environmental impact statements that have gone extensively into the
3 possibilities of wind, for example.

4 MR. SCHAFF: Right. We do evaluate it. It's usually
5 not as detailed an evaluation as for some of the traditional base load
6 power generating facilities. I mean, we're talking about a plant here
7 that is a baseload generator. It's on the grid 24/7 except when it's
8 down for a maintenance outage and refueling.

9 And so, other generally viable replacement options for
10 something like that are a gas fired plant and a coal fired plant.
11 When you're talking about replacing that much power, 800 megawatts
12 with something like wind, for example, you have to factor in the
13 capacity available.

14 Typically a wind turbine facility has something like a
15 35 or 40 percent capacity factor, I think it is. That's the
16 percentage of time that it's operating. And, you're talking about a
17 facility that's operating 85, 90 percent of the time that you're
18 trying to replace.

19 And so, the most viable options that we typically find
20 are the gas plant, the coal fired plant. But, we do address the other
21 alternatives that are available, and it's a fairly exhaustive list,
22 actually. Thank you, Chip.

23 MR. CAMERON: And, it may be when you see that analysis
24 in a draft environmental impact statement that you may have a lot to
25 offer comment on, you should do this or do that. But, that's why we,

1 one of the reasons why we issue it as a draft. Now, can we discuss
2 the embrittlement issue.

3 MS. FRANOVICH: Yes. Before we go to that, you
4 mentioned the steam that you see coming out of the cooling towers and
5 that you have a little anxiety over that. I can assure you that steam
6 is very unlikely to have any radioactive material or --

7 MR. KANTMAN: I --

8 MS. FRANOVICH: I understand. As for the embrittlement
9 issue, what you're talking about is embrittlement of the reactor
10 vessel, the pressure vessel itself. And, the pressure vessel as it
11 ages, it does become embrittled due to neutron exposure.

12 However, these vessels have a design life. And, they
13 also have a tech spec surveillance requirement that involves taking
14 specimens from the vessel material, analyzing them to make sure that
15 you are not approaching some vulnerable point in the vessel.

16 So, the licensees currently are analyzing these
17 specimens to make sure that their estimates of the embrittlement are
18 on target. And they refine their estimates as a function of the data
19 they're getting from these specimens. They're doing this now. It's
20 required by 10CFR, Part 50, I believe it's 50.61, it's called the
21 pressure, pressurized thermal shock rule.

22 They also are required to follow this rule, perform a
23 time limited aging analysis. I know that is a mouthful of words, but,
24 basically an analysis that says it's good for the first 40 years, and
25 here's why we think it's good for an additional 20 years. They submit

1 that to the NRC in their application, we review it and make sure that
2 it's acceptable to us before we say, yes, we agree the vessel will be
3 good for another 20 years. Very good question. Thank you.

4 MR. CAMERON: And, let me just back, we sometimes have a
5 tendency to throw a term around that doesn't make a whole lot of sense
6 to all of you probably. But, all of the rules that the NRC
7 establishes for nuclear power plants or waste disposal, they're all
8 collected in, as other agency, other federal agency rules are all in
9 something called the Code of Federal Regulations, okay. And, our
10 acronym for that is CFR.

11 So when I talked before about Part 20, those are our
12 radiation protection standards that are in here. So, and Rani just
13 mentioned that and she has the most recent copy of our regulations
14 right here. This is the CFR. So, we're sorry that we, I guess it's a
15 complicated society, but, that's the thing.

16 MS. FRANOVICH: It is 10CFR 50.61, fracture toughness
17 requirements for protection against pressurized thermal shock events.

18 MR. CAMERON: Okay. Let's go to Kevin has a question,
19 and Richard, you had a question. Let me go to Richard, you had your
20 hand up before. I'll go back to Kevin and then we'll see if we should
21 go to comments then.

22 Richard? And, please introduce yourself.

23 MR. RICHARDS: My name's Ken Richards. And, over the
24 years I've heard a lot of de-commissioning dates for Palisades. One
25 is the current de-commissioning date of the license --

1 MR. CAMERON: All right.

2 MR. RICHARDS: When can we expect this thing to close?
3 Because I've been hearing for, you know, 20 years.

4 MR. CAMERON: So, I guess the question, I'm sorry?

5 MR. RICHARDS: What is the date now?

6 MR. CAMERON: If the license is, if the license is not
7 renewed, when would it --

8 MR. SCHAFF: It'll be 2011.

9 MR. CAMERON: When would it go into de-commissioning.
10 It all depends on when the license period is over right?

11 MR. SCHAFF: Right. It would be 2011, I think what
12 Ken's getting to, we talked about earlier is the issue with
13 pressurized thermal shock for Palisades. Palisades, in that rule,
14 there's something called a screening criteria, which is a calculated
15 value for vessel embrittlement, which is a screening point, where, if
16 the vessel were to reach that screening criteria, the utility would
17 have to do something.

18 It's not a, that's, it's not a dead end. It is a point
19 at which the utility either needs to anneal their vessel, that's a
20 process where they would heat the steel and restore some of its
21 ductility, reduce that embrittlement.

22 Another option available to them is to do an assessment
23 of the vessel at that point, a more detailed assessment of its ability
24 to withstand a pressurized thermal shock event. And, over time,
25 through assessment of these specimens that Rani spoke of, and through

1 refinements in the calculation of the amount of exposure of the vessel
2 to neutrons, that date that the plant would reach the screening
3 criteria has changed over time.

4 And, I think when we spoke, that that's the dates that
5 you were hearing, is when the plant was expected to reach the
6 pressurized thermal shock screening criteria value.

7 MR. CAMERON: Okay, thank you. Thank you, Bob. Let's
8 go to Kevin and we'll take one more question, and then we'll take
9 comment, and do you want some, Mike do you want to add something to
10 that?

11 MR. MORGAN: Well, there was --

12 MR. CAMERON: And, we need to get you on the record.
13 What I was going to say is that after we make sure that we hear
14 everybody's comments, if people have more questions, we'll go back to
15 questions, then. But, we'll come back to you, we'll go to Kevin and
16 then you, sir. Mike?

17 MR. MORGAN: I'm, again, Mike Morgan the project manager
18 for license renewal for Palisades on the safety side. And, I get to a
19 couple of public meetings and I recognize a few faces here. We've had
20 this question before. Ken, you had another part to this question and
21 maybe Bob or I can answer this.

22 MR. RICHARDS: Well --

23 MR. CAMERON: We need to get him on the record -- unless
24 you get him the microphone.

25 MR. RICHARDS: Well, I've been hearing de-commissioning

1 dates since we built these things. 1967 I was down in Cook when they
2 built that, and I was told, well, we're going to run it for 40 years
3 and then we'll be building another one.

4 We're going to fill this one up with concrete, it's
5 going to be done. Now, that's what we were talking like in this --
6 things have changed. But, over those years, I've heard several
7 different de-commissioning dates, we're going to shut it down, tear it
8 down, haul it all off somewhere. And --

9 MS. FRANOVICH: Let me try to answer.

10 MR. RICHARDS: I was hearing dates of '98, I've heard, I
11 was hearing that back in like 1991.

12 MS. FRANOVICH: Even in 1998?

13 MR. RICHARDS: I've heard a 2002 date, I've heard the
14 24, they just keep, you know, you're being told things by the NRC and
15 by the industry, this is what's going to happen down the road, and it
16 never happens, or something else happens. Makes us a little nervous -
17 -

18 MS. FRANOVICH: Well, I can tell you that had the
19 facility not decided to apply for license renewal then their current
20 license will expire in 2011. And so, de-commissioning will follow
21 that. So, until we get the application for license renewal, or, an
22 indication from the utility that they're interested in renewal, then
23 we assume that that will be the time that de-commissioning starts.

24 I don't know that we ever targeted a date prior to the
25 end of the 40 year license, that we would begin de-commissioning the

1 plant. And, frankly, at a certain point before the license expires,
2 it's a business decision, it's an economic decision for the utility to
3 make. So, that would be under their purview, to make that decision.

4 MR. CAMERON: Mike, do you want to say anything?

5 MR. MORGAN: Yes, one thing that Rani mentioned before
6 is that all the vessels, when they constructed the vessels they put in
7 a, what's called a specimen tube inside the vessel. And, in takes
8 parts of the actual metal pieces and puts this down into the tube, so
9 that they can periodically can extract those pieces. This is the same
10 metal that the vessel was made of.

11 And so, these specimens will be subject to the,
12 relatively the same neutron environments that the vessel undergoes for
13 all these years. So, as they extract these and look at the specimens
14 they can then analyze or re-analyze to see if the age of that vessel,
15 if it can still meet all the criteria for pressurized thermal shock,
16 and, for the additional time over the 40 year life of the plant.

17 Now, one of the items that should be considered here in
18 50.61 was presented here. There are a lot of options that have been
19 presented. One is the annealing option. No plant in the United
20 States has ever gone through annealing. I'm going to tell you that
21 right now. But, it's still an option.

22 There are other options that Bob has mentioned, which is
23 a more detailed review to see if, in fact, this will stretch out the
24 life of the vessel. Or, a close monitoring on a more frequent basis
25 is another option.

1 But, what goes ahead of all of those options, is three
2 years before any projected date, they must present to the NRC, even if
3 it was midway through this whole 20 year cycle, and we come up and
4 say, okay, we've come to a point where we feel it can't go beyond this
5 date.

6 Three years before that date we have to get a detailed
7 analysis from the applicant, at that time the licensee, detailing what
8 they're going to do. And, you're going to have another one of these
9 public meetings I can assure you for any of those types of discussions
10 at that time.

11 So, it's not one of those things like, okay, here it is
12 today. Now, you've got to do something about it. It's going to be
13 here's what we predicted, this is what we've got. Hey, this is the
14 date, three years ahead of time. We've got to see you material three
15 years ahead of time and then we go into analysis even before we get
16 near that date.

17 MR. CAMERON: So, great. Thank you. Thank you very
18 much. Let's take two more questions. We're going to go to Kevin and
19 then come back up to this gentleman. Kevin?

20 MR. KAMPS: Kevin Kamps, Nuclear Information. This is a
21 follow-up on what all three of you just talked about, I guess, in
22 terms of embrittlement. It's my understanding, correct me if I'm
23 wrong, Rani, I guess, that the specimens have been exhausted within
24 the reactor vessel so that the best that can be done now is
25 extrapolation from the most recent samples, which, is that accurate?

1 MS. FRANOVICH: Well, there was a plant, was it Maine
2 Yankee? There was a plant that did run out of coupons and so they
3 decided that since they could no longer monitor their vessel, they
4 would shut down. And, so they did not opt for renewal, they're de-
5 commissioning.

6 Bob has indicated to me that there's an industry sharing
7 program where, and I seem to recall something about this, that this is
8 just my understanding of it. Industry can identify reactors that have
9 similar characteristics, similar manufacturing process, maybe were
10 purchased from the same vendor and can share data based on the
11 exposure of radiation over time they account for the number of hours
12 or days that the vessel has been exposed to an operating environment
13 at certain power levels and can share that with other member of the
14 industry so that they have more than just one source of data, the
15 source being their vessel. They can actually see data from other
16 operating units. Does that answer your question?

17 MR. KAMPS: Not entirely. Does Palisades have samples
18 anymore? Or, are they completely out?

19 MS. FRANOVICH: I think NMC would need to address that
20 question. Is there a representative from NMC who can?

21 MR. VINCENT: I can answer that.

22 MR. KEEGAN: They ran out in the ninth cycle

23 MR. VINCENT: That's not correct.

24 MR. KEEGAN: Well --

25 MR. CAMERON: Wait a minute. Can I just wait before

1 people start talking because we do need to get this on the record.
2 And, if there is a quick clarification that can be offered by the
3 company let's get it on the record now. And, let's get one more
4 question here and go to comment and if you want to explore this
5 further, we can do that. Let's, so you heard the question from Mr.
6 Kamps. And, please introduce yourself.

7 MR. VINCENT: I am Bob Vincent, I'm the licensing lead
8 for the license renewal project at Palisades. Palisades does still
9 have some surveillance coupons in the reactor vessel. Our license
10 specifies the coupons that we have to maintain in the reactor vessel
11 for this kind of surveillance, it specifies when they have to be
12 removed. It specifies what kind of testing has to be done.

13 And that's the way that we monitor, or we verify the
14 condition over the long term. But, we are definitely not out of
15 coupons and if necessary we could take similar material and put it
16 back in the vessel and actually expose that material to higher levels
17 of neutrons than the reactor vessel is actually exposed to, it's
18 called accelerated exposure.

19 And, we can actually use accelerated exposure to expose
20 similar materials to the same levels of exposure that the vessel
21 currently has. So, we do have surveillance specimens left. And, even
22 if we didn't, which is not the case, we could, that's still not a show
23 stopper.

24 MS. FRANOVICH: Thank you.

25 MR. CAMERON: Okay, thank you and I'm going to go to,

1 and I think, is it Mr. Keegan?

2 MR. KEEGAN: It is Mr. Keegan.

3 MR. CAMERON: I'm going to go to you for your question,
4 okay. And then, we're going to start to go into the comment period.
5 If we need to discuss this particular issue in detail I think we're
6 going to, we'll probably do it after the meeting with everybody who's
7 interested in this. But, Mr. Keegan, do you have another question?

8 MR. KEEGAN: Regarding that, that will be on the record
9 after that we discussed after the meeting?

10 MR. CAMERON: That will be off the record. If you want
11 to offer anything short on this subject on the record, I think you're
12 going to be making a, can you do something short right now?

13 MR. KEEGAN: I'm trying to get a point of clarification
14 here. My understanding, I've reviewed the embrittlement question
15 extensively. My understanding is it ran out of capsules on the ninth
16 refueling outage. And, I just heard, Bonnie, I'm sorry, I don't have
17 your last name.

18 MS. FRANOVICH: It's Rani Franovich.

19 MR. KEEGAN: Rani? Rani talked about a second
20 generation of samples that were put in. Now, we're gotten apples and
21 oranges and I'm a social scientist and I can see this methodology is
22 severely flawed.

23 So, I need to know for the record are the original
24 samples still within that reactor? Because my understanding reading
25 Consumer Power documents that they've exhausted that on the ninth

1 refueling.

2 MS. FRANOVICH: Let me reiterate.

3 MR. CAMERON: Can we try to, if we can, I know this is
4 complicated. But, can we try to keep this short --

5 MS. FRANOVICH: Yes.

6 MR. CAMERON: -- so, that we can get onto other issues.
7 And, if we need to come back to clarify on the record, if some of you
8 need to get together to talk about this so that we can offer a
9 clarification on the record, let's do that. I'm just afraid that
10 we're going to keep stumbling back and forth here. So, in that
11 regard, Rani, can you give us a --

12 MS. FRANOVICH: Let me reiterate what I was explaining.
13 That is the process we use to monitor vessels, or that licensees use
14 to monitor vessels now. I wasn't speaking specifically of Palisades.
15 We can take your concern, your question back to the staff and have
16 someone at the NRC contact you who has more intimate knowledge of
17 Palisades and the status of their vessel monitoring program.

18 MR. CAMERON: And, we could if it's a concern to you, we
19 can put that answer up on our website, perhaps, if you're worried
20 about documentation of it. Okay?

21 MR. KEEGAN: I need that point of clarification and I
22 need to know specifically at Palisades.

23 MS. FRANOVICH: Make sure we have your contact
24 information so we can have a member of the staff contact you.

25 MR. KEEGAN: You know where I am, I've been --

1 MR. CAMERON: Okay. Did you have one more question?

2 MR. KEEGAN: No.

3 MR. CAMERON: All right. Well, let's, if we have time,
4 we'll go back to questions. Let's go to the speaking part of the
5 meeting and we're going to start off with some local government
6 officials. And, I didn't specifically ask Mr. Rendell this, but, Mr.
7 Rendell, did you want to say anything at all?

8 MR. RENDELL: I didn't really have a comment.

9 MR. CAMERON: Okay, All right. This is Mr. Wayne
10 Rendell, supervisor from Covert Township. Let's go to Mr. Ross Stein.
11 Ross? Do you want to come up and then talk to us, or, do you just
12 want to say, do you want me to bring this to you? It's up to you,
13 whatever is more comfortable to you.

14 MR. STEIN: I always keep things short and sweet and to
15 the point.

16 MR. CAMERON: Okay. Well, we'll test you on that, then.

17 MR. STEIN: I'm Ross Stein, I'm the supervisor to South
18 Haven Charter Township. Earlier in the year, we passed a motion at a
19 township board meeting supporting the licensing process for Palisades
20 nuclear plant. Palisades has been an excellent neighbor for the
21 community. The people that work there are civic minded.

22 We have people that are boy scout leaders, have served
23 on township boards. Palisades has been very community oriented.
24 They've helped the, I'm chairman of the emergency services. They've
25 helped the fire department, the emergency services. They help

1 community functions also, so, it's a very welcome aspect to this
2 community.

3 The people there provide, buy homes, have children for
4 the schools. As probably everybody in this room knows, for every
5 dollar that's spent in the community, that dollar's circulated six or
6 seven times, so it's a good economic asset to the community. So,
7 that's all I've got to say.

8 MR. CAMERON: All right. Well, thank you. Thank you
9 very much, Mr. Stein. We're going to go to the license applicant now,
10 Mr. Paul Harden to tell us a little bit about their rationale for
11 license renewal and Mr. Harden is the site vice president at
12 Palisades.

13 MR. HARDEN: Thank you. As was mentioned, my name's
14 Paul Harden. I'm the site vice president of the Palisades nuclear
15 plant. I just want to spend a few brief moments talking from Nuclear
16 Management Company's perspective, the benefits of the Palisades
17 nuclear plant.

18 First off, let me talk about what the plant generates.
19 Approximately 800 megawatts each hour. To put that in perspective,
20 that's enough to power a community of more than 500,000 residents.
21 For Consumers Energy, who owns the plant, that's about 18 percent of
22 their generation. So, it's close to five out of every 24 hours of
23 electricity that goes into every customer of Consumers Energy home is
24 produced by the Palisades nuclear plant. And, as has already been
25 mentioned, there are some financial benefits to local communities from

1 the plant. In addition to its payroll of about \$60 million, there's
2 also the tax base, which last year was about \$6.3 million.

3 But, there's many more important aspects I'd like to
4 touch on. First off, the Nuclear Management Company operates the
5 plant for Consumers Energy, who owns it. We took over operation of
6 the plant in 2001. Since taking over, performance of the plant,
7 relative to safety and reliability, has improved significantly. And,
8 that's led to Consumers Energy deciding to seek license renewal.

9 We wouldn't be here seeking license renewal if we didn't
10 feel this plant could continue to be safe to operate for another 20
11 years.

12 Some of the benefits include, you know, the support for
13 the local units of government, the tax sharing entities, the community
14 schools, the district libraries, hospital authorities. But, there's
15 also other things. We support the emergency management activities in
16 the area for the counties of Alleghan, Berrien and Van Buren.

17 Palisades has received letters and resolutions of
18 support from 13 different local government bodies including the city
19 of South Haven, the townships of Covert, South Haven, Geneva, Antwerp,
20 Columbia, Decatur and Pine Grove, the Greater South Haven Area Chamber
21 of Commerce. U.S. Representative Fred Upton, and the concurrent
22 resolution from the Michigan State House and Senate. These bodies
23 wouldn't have supported our license renewal if they also didn't feel
24 that we could continue to be a safe provider for another 20 years.

25 Nuclear energy is clean air energy and by that, what I

1 mean is, nuclear power plants produce no controlled air pollutants
2 such as the sulfur, the particulates, greenhouse gases that come from
3 fossil fuels.

4 To put Palisades in perspective, to replace the
5 generation from Palisades, it would require about 12 million barrels
6 of oil per year. In terms of coal, it would be about 3 million tons
7 of coal per year. And, in terms of natural gas, it would be about 65
8 million cubic feet of natural gas per year.

9 Nuclear power in Michigan is about 25 percent of the
10 generation in Michigan from the three nuclear plants that exist.
11 Palisades, the commitment to move forward for license renewal was not
12 just a commitment for an application and to process the paper to
13 justify.

14 It's also a commitment to make significant investment in
15 the plant, capital investment that includes upgrades, equipment change
16 outs, many things that have been ongoing in the past and many more
17 that are ongoing in the future. And all these are being done for the
18 sake of keeping the plant safe in the future.

19 The 600 employees at the plant, those 600 employees also
20 live in all the local communities that surround the plant. And, those
21 employees also have a vested interest in making sure that we're an
22 environmentally safe and sound nuclear power plant. And, that's what
23 we intend to do through our continued operating license period if
24 approved.

25 The picture, the vision that we paint for the employees

1 at the plant is a picture of excellence. It's not one of meeting
2 minimum federal requirements for things like environmental effluents.
3 It's a picture of excellence in being the best in the industry,
4 shooting for top -- to be better than others in doing that, not just
5 for minimum standards. And, that's the commitment the employees at
6 that plant make every day and are going to continue to make under
7 through an extended license period. Thank you.

8 MR. CAMERON: Okay. Thank you very much, Mr. Harden.
9 We're going to go to Mr. Larry King, and then to Kathy Barnes, and
10 then to Elizabeth Anderson as our next three speakers. Mr. King?

11 MR. KING: Thank you. My name's Larry King. I
12 represent the Greater South Haven Area Chamber of Commerce. I
13 appreciate the opportunity to come out tonight. And, it's good to see
14 so many faces from around the state and the nation here to talk about
15 the local plant.

16 What I want to speak to, briefly, is the socio-economic
17 impact and to reiterate some of the things that were in our statement
18 from the Chamber board of directors over to the NRC and the Palisades
19 plant and Nuclear Management Corporation.

20 The plant has a significant economic impact on the area.
21 600 plus employees, not to mention the contractors in the area. At
22 least one third of those folks live right here in the immediate South
23 Haven vicinity. That's a lot of payroll dollars being spent right
24 here in our community. A couple of folks I know that work out there
25 said you could bump the payroll anytime you want.

1 And, the other side of it is the contractors when you go
2 into an outage. Lots of the small businesses that sit on the Chamber
3 board and made the decision to support it, look at those outages and
4 those opportunities when the plant is back reinvesting, cleaning
5 things up, doing a lot of maintenance, that's a lot of extra folks in
6 town spending money, doing and making things happen.

7 There's also an element beyond the financial impact from
8 that payroll. That's the involvement of those men and women that work
9 out there. They are involved in the community. You'll find them
10 serving on different public boards and commissions. Boy scouts, girl
11 scouts, 4-H, coaching basketball, baseball, softball. Just a
12 tremendous social impact from their involvement.

13 And, you can see in that involvement, their commitment
14 to safety out at the plant. I do know a number of folks that work out
15 there, and they are very safety conscious, and they bring that home
16 with them and into the work that they do in the community and in their
17 social lives. So, we're very pleased to have the plant here, and
18 encourage the re-licensing and reinvestment here in the South Haven
19 Area. Thank you.

20 MR. CAMERON: Thank you, Mr. King. Kathy, do you want
21 to come up? This is Kathy Barnes.

22 MS. BARNES: Hello. I'm really, really happy that so
23 many people showed up for this meeting. And, I have found out that
24 the NRC has also rented the room in August and September. Not sure
25 what the meetings are going to then, but, I'm going to try and find

1 out, and I hope everybody can just keep on finding out about the
2 meetings and coming to them. It's really important to get the public
3 involved.

4 The only two nuclear reactors that were shut down when
5 they applied for re-license were in the state of Maine. And, basically
6 it was because the public came out and expressed their concerns. I
7 think this community, although you say, they've done a good job with
8 their PR. They've got plenty of my pocket money in light bills
9 etcetera and everybody else's to do that. And that's nice.

10 But, there are so many things going on in this
11 community. There's a high cancer rate. I have got, you know,
12 different things have happened to me. Swimming, etcetera. When I
13 was a kid, I came here and swam. And, the water was clean, I could
14 drink it. Now, it's full, it's scummy, it's full of algae. It's a
15 huge change in the quality.

16 The water's still cold. That does not explain the
17 algae. So, there's a lot of things in the environment I think that
18 are happening that are unexplained. One thing that really bothers me
19 about this whole process is that it's the fox in the hen house that's
20 doing the reporting.

21 All this data is being collected through Palisades. I
22 talked to someone who used to work at Palisades, they no longer work
23 there. They said they would not ever work there again. They work at
24 another nuclear power plant. I said, well, why, you know, is it
25 because, like at DC Cook, they did a coverup, you know, on their

1 condensing systems where for 10 years they covered up the fact that
2 their ice condensers would not work in the event of a meltdown?

3 And, he said, no. He said they don't cover things up.
4 He says they just don't report things. So, you know, wool being
5 pulled over the eyes, there are a lot of probably things that are not
6 reported.

7 This generic analysis of nuclear reactors as far as
8 aging. You take a nuclear reactor in sunny California, it's going to
9 age differently than a nuclear reactor in freeze and thaw conditions
10 here in Michigan. There are so many variables.

11 Generic analysis doesn't take into account variables
12 such as spills, leaks, accidents, staff problems, lack of reporting,
13 paper conflict with the truth, in other words, inaccurate reporting,
14 climate change or unexpected events. That's another thing that this
15 whole process doesn't seem to realize, the possibility of nuclear
16 terrorism, unexplained, unexpected events.

17 You know, you can, every nuclear power plant that ever
18 had an accident they said it wouldn't happen. You know, they didn't
19 think Chernobyl would happen, they didn't think Three Mile Island
20 would happen. There have been so many nuclear accidents and spills
21 all along the trail of the nuclear industry from mining on up to
22 transportation.

23 The nuclear waste issue is a huge issue that isn't being
24 addressed. Twenty more years of nuclear waste buildup, where is it
25 going to go? Are we going dump it on the Indians? I mean, that is

1 not right. It is not right to take nuclear waste and track it across
2 country and dump it on native lands.

3 It is also not right to store it on the shore of Lake
4 Michigan, where there could be nuclear terrorists or something and
5 just totally wipe out the fresh, that huge wonderful fresh water
6 resource.

7 So, these are such huge issues. Embrittlement, the
8 cancer rate, I've talked to people in this community who've said
9 different horror stories about workers that have had cancers and
10 terrible things have happened to them. People that are cancer
11 survivors, people that have deaths in the family from cancer.

12 Someone said that that eight out of ten people in this
13 area either have cancer or know someone with cancer in their family or
14 know someone who has died from cancer. The last two meetings I
15 mentioned, you know, let's get the public health reports. This should
16 be included. But, no. The public health was not contacted. Do we have
17 to get an FOIA to find out the statistics?

18 As I understand it, there was a cancer study that was
19 done and should be able to be procured. So, I have a lot of concerns
20 about this and I think that it needs to be shut down. Up north,
21 Consumers Energy has been combining with Mackanaw Wind Power and
22 they're putting up wind generators. It is possible.

23 Wind generator is a clean energy source and it is like
24 Maynerd was saying, it's quick. It takes over quick. It doesn't,
25 it's not like building another monster. It's just, you put it up and

1 it starts working.

2 Combination of wind and other systems, and we've got it
3 made here in Michigan and we can keep our water clean. But, if you
4 take that chance and you re-license this facility thinking well, the
5 next issue we will deal with it, we can analyze it.

6 It is false pride, and it is not worth it, because, you
7 talk about kids. What are you going to do if there is a meltdown?
8 How are you ever going to get your kids back? You won't. You will
9 give everything you have to get your life back and get your kids back.
10 You might have kids that have cancer. You might have kids that are
11 killed instantly. You could have kids that will have kids like at
12 Chernobyl, your grandkids might be mutated.

13 I mean, I've met the kids of Chernobyl. And, if you saw
14 those kids, how wounded they were. They were blind, they were
15 handicapped, it was so sad. And, there was American kids who were
16 healthy and playing and vibrant and alive and here are these poor
17 kids. And, the only difference is, a meltdown.

18 And, I think that another 20 years of this nuclear power
19 plant in operation is risking a meltdown and I don't want it. And, I
20 think anybody in this room does not want that to happen here. And,
21 honestly, I think from studying everything, especially because it's
22 too much of the fox in the hen house doing the reporting, it just
23 cannot be guaranteed. And, I thank you for your time.

24 MR. CAMERON: Thank you very much, Kathy. Elizabeth
25 Anderson?

1 MS. ANDERSON: I'm not very good at a podium. May I
2 please stay here?

3 MR. CAMERON: Sure, absolutely, absolutely.

4 MS. ANDERSON: Elizabeth Anderson. I was born and
5 raised in South Haven. And, I don't want to see anybody lose their
6 jobs. But, I must admit, I was raised by people who were against
7 nuclear power. And, I'd like you to meet my girlfriend Laura, she
8 didn't want to speak. Laura is a cancer survivor, born and raised
9 here.

10 Her mother, cancer survivor, born and raised here. Her
11 sister, cancer survivor born and raised here. Her sister used to swim
12 down by the nuclear power plant, but, in '95 they had to remove a
13 seven and half pound tumor from her abdomen.

14 Now, I don't know if that has to do with nuclear power,
15 but, you know, they are born and raised here. And, her sister-in-law,
16 her step father worked at the nuclear power plant. And, one day, his
17 lungs filled up with blood and he died at the age of 39. I don't know
18 what that was from.

19 But, there are a lot of points brought up. I remember
20 when I was a girl there was a young boy that disappeared at the state
21 park. They found his sandals. The next year, they found him, he had
22 suffocated from a sand trap. And, I don't know, I just think that
23 maybe it's a good, we've got new power plant right across the way.
24 And, maybe that could just, you know, ease this one out and pump this
25 one up. Thank you.

1 MR. CAMERON: Thank you, Elizabeth. Thank you very
2 much. We're going to -- yes, ma'am?

3 MS. MILLER: Marilyn Miller.

4 MR. CAMERON: Okay. We have some, do you want to speak?

5 MS. MILLER: I wanted to say, to ask the question.

6 MR. CAMERON: Okay, Marilyn.

7 MS. MILLER: Have you a record currently on the
8 penalties that have been given to this power plant, and the times it's
9 had to be turned off. And, does that have any influence on re-
10 licensing? Do you have a record of that?

11 MR. CAMERON: I'm sure we do, and Rani will answer that
12 for us.

13 MS. FRANOVICH: That's a good question.

14 MR. CAMERON: In terms, Rani of how past violations
15 effect the license renewal review.

16 MS. FRANOVICH: That's a good question. We do have a
17 record that goes back to the day that the plants were licensed to
18 operate, for all the plants. We, since Three Mile Island, we've had
19 an inspection program and the inspection program is what primarily
20 provides us with a means of ensuring compliance with regulatory
21 requirements.

22 When that compliance is not maintained, then the NRC
23 does identify performance issues. It issues violations, sometimes
24 there are escalated enforcement actions that involve civil penalties
25 and fines.

1 That all being said, 10CFR Part 54 which is the rule
2 that governs license renewal is very focused on management of plant
3 aging. So, past performance and current performance are not part of
4 the scope of the license renewal review. The scope of the license
5 renewal review is specific to the management of aging of systems,
6 components and structures that are considered important to maintaining
7 safety at the plant. Does that answer your question?

8 MR. CAMERON: Okay.

9 MS. MILLER: It does, it sounds like it isn't any part
10 of your focus, then?

11 PARTICIPANT: I'd like to answer that --

12 MS. FRANOVICH: Correct. We also impose currently,
13 10CFR Part 50. 10CRF Part 50 is the regulation that governs operation
14 of the plants. And so, they still have to meet regulatory
15 requirements and they're still subject to enforcement when they do not
16 comply with our requirements. But, it's not part of the license
17 renewal review.

18 MR. CAMERON: Okay. Thank you, Rani, and we're going to
19 hear from John Ellegood who is our senior resident, I believe, and
20 then we're going to go back to Mr. Keegan and others speaking.

21 MR. ELLEGOOD: Well, the past performance and current
22 performance isn't part of license renewal. It is part of a
23 continuous, ongoing evaluation of licensee performance. Every day we
24 evaluate the licensee and their performance and we hold them to their
25 technical specifications, the minimum safety requirements they need to

1 meet on a day to day basis.

2 If they don't meet them, the licensee has specific
3 actions they are required to take. If they don't take them, there are
4 mechanisms to force them to shut down at that time. And, there would
5 be extreme penalties if a licensee refused to shut down.

6 In addition, there are annual reviews of every operating
7 nuclear facility in the country to look at their annual performance
8 and identify performance deficiencies that require additional
9 attention from the NRC. So, while it's not part of license renewal,
10 it is part of ongoing, day to day activities by the NRC. Does that
11 answer your question?

12 MS. MILLER: It sounds as though it's mostly a matter of
13 correcting the problems, rather than how many infractions there have
14 been.

15 MR. ELLEGOOD: We do focus on current plant performance.
16 We don't go back 10 years and say, gee, they had operational problems
17 10 years ago. We look on their, we look at their current performance.
18 We do try to anticipate downsliding performance.

19 We have a oversight process that is intended to identify
20 slipping plant performance and cause the licensees to take additional
21 action if their performance is poor and declining, before they can no
22 longer operate the plant safely.

23 MR. CAMERON: So that there is a connection if a
24 licensee continually was making the same mistake, let me put it that
25 way, then, that would go into this evaluation of performance?

1 MR. ELLEGOOD: That is correct.

2 MR. CAMERON: Okay. Thank you. We really need to go
3 back into our speakers and let Mr. Keegan come up next. But,
4 Elizabeth, do you have a quick question?

5 MS. BARNES: Well, this relates to that. You know, I
6 live outside of South Haven, so Consumers is my electric company.
7 And, I remember reading in the South Haven Tribune once that they were
8 cited for safety violations, and this was a long time ago. This was
9 in the 80's.

10 The operations manager of the plant said that he was
11 going to ask for a rate increase. And, I thought, you put my life in
12 danger, you endangered my safety, and now you're going to raise the
13 rates to pay for your fines. And, I wasn't real happy about that.

14 And then, I met somebody in '86, he said that he worked
15 there and he said that there was a drug problem there, and that they
16 fired a bunch of employees who were on cocaine. Now, again, this is
17 just rumors, but I know my ex-husband had a friend who was a pipe
18 fitter who went there to get a job. And, he said when he applied,
19 they gave him a paper that told him how to beat the drug test. And, I
20 hope that's not true, but, that's what he said. Thank you.

21 MR. CAMERON: Okay. Thank you. This is Mr. Keegan.
22 Are you ready to come up?

23 MR. KEEGAN: Yeah. Hello. My name is Michael Keegan.
24 I'm from Monroe, Michigan, and I'm a board member of Don't Waste
25 Michigan. And, I'm looking forward to intervening.

1 But, on the schedule that you put up with all the dates,
2 perfunctory meetings and niceties, I didn't see a scheduling for the
3 ASLB in there. And, what happens once we intervene. And, what
4 happens to this process then.

5 I did mention embrittlement. I've been a student of
6 Palisades since about 1987 shortly after the Chernobyl accident, when
7 I began meeting with some activists, citizens over in this area.

8 The embrittlement, I reviewed that extensively and I've
9 got, I don't have with me, but I do have a motherload of documents
10 that are currently with my attorney and you exceeded, Palisades
11 exceeded the embrittlement standards in 1981.

12 And, the NRC capitulated by rolling back the standards
13 and at my count, you've now rolled them back, changed methodologies
14 five times. I'm a social scientist. I'm trained in the scientific
15 method of research and design. And, I can spot some problems, major
16 problems with your methodologies. You'll see that in our contentions
17 that we raise.

18 I'm also concerned with the just general mechanics of
19 the nuclear power plant in the Palisades. The, there's a number of
20 components on there that can't be inspected unless it's shut down
21 because of configurations on some J welds that are on some
22 penetrations. They could be cracked, we don't know. Allow us to
23 continue through our cycle. All these kinds of lax, this kind of cozy
24 arrangement between the Nuclear Regulatory Commission and the utility
25 it's all self-serving.

1 The bottom line is, who's regulating this utility? It
2 is the public. And, it's not going to be the NRC who is going to come
3 down heavy on these folks. It's going to be the public who's going to
4 force them.

5 I could go on for days. Frankly, I could go on through
6 the night. And, bore you to tears, but, I won't do that. You asked,
7 I'm trying to be helpful, here, you know. You asked what are some new
8 contentions.

9 The Palisades plant is in a location where there is
10 singing sand. It's one of four locations on the planet to have this
11 singing sand. The granules are round. If you walk on them, they call
12 it singing sand, because you'll hear them make a noise. But, the
13 point is, they give you no footing. They're subject to blowouts,
14 which means a big wind comes in and blows out a bluff.

15 The dry cask storage, the pads are sitting right there
16 where a big blowout could come in and cover them. The, so you go into
17 seismic questions. Well, yes, if there was an earthquake, you've got,
18 now you've got this sand that's going to shift.

19 So, singing sand, this is definitely something that is
20 site specific. There are only four locations in the world that have
21 it. It was a major issue. It continues to be so.

22 I'm perplexed by the, who's culpable? Nuclear
23 Management Company is coming forward and requesting this license
24 extension. Or, is it CMS who's requesting it? What assets does
25 Nuclear Management Company own? Who's going to be left holding the

1 bag if they do have their accident here, or CMS folds. Twenty years
2 is a long time.

3 And, as we saw a few years back, CMS was involved in
4 some round tripping and cooking their books, major, I think to the
5 tune of \$5.4 billion. So, there's a credibility problem here and so,
6 I'm really wondering, who's the NRC giving approval to? Is it to
7 Nuclear Management Company? Or, is it to, is it to CMS? What is
8 their relationship?

9 The relationship is further compounded by the chairman
10 of the board of Nuclear Management Company is, I believe, David Joos,
11 J-o-o-s. I think he's also the CEO of CMS. So, there's, you know,
12 some incestuous things there, potential conflicts of interest.

13 So, I'm also requesting an environmental, an economic
14 impact statement. What's the potential of danger, hazards to tourism?
15 This is a beautiful, beautiful lake, up and down the lakes, fishing,
16 tourism. Tremendous for the economy of Michigan.

17 The economy of Michigan depends on tourism. What happens
18 if they do have the big one? We got this arbitrary ten mile zone. Do
19 the radio-nuclides stop at ten miles? Do they stop at 50 miles? Do
20 they hit me over in Monroe? Do they contaminate 20 percent of the
21 world's surface fresh water? What are we gambling with?

22 It's all public risk, private profit. And, I have a
23 problem with that. And, this is an aging plant. It got their license
24 in 1967. They were scheduled to license termination in 2007. They
25 got an extension arguing that, we did not actually go into operation

1 until '71. The decades of the 80's and 90's were, oh my G-d, the
2 plant ran at about 44 percent, what a dog.

3 It's been on the market. It's been on the market, my
4 understanding, since early 90's. There are no takers. Is this just
5 posturing so that there's another 20 years of amortization for CMS or
6 NMC or whoever would come along and buy this turkey?

7 But, I could tell you, through my review, extensive
8 review of embrittlement, and written on it, and presented in public
9 forums, Mark Savage had to sit through one of them a few times. He
10 knows how boring it can be. But, let me tell you, this plant should
11 have been shut down in 1981. And, we're going to take you to task.
12 And I am looking forward to it. Thank you.

13 MR. CAMERON: Thank you Mr. Keegan. Mr.
14 Kaufman, would you like to come up and talk to us, or, do you want to
15 stay there?

16 MR. KAUFMAN: Are you talking to me?

17 MR. CAMERON: Yes.

18 MR. KAUFMAN: Kaufman, yeah. I just want to reiterate a
19 word about renewable sources of energy. And, I want to do this in the
20 context of something that all you energy folks are very well aware of
21 which is that within five years or so, we will have reached a global
22 peak in oil production. And, geologists have been telling us this for
23 30 years.

24 But, it seems that they were on target and that indeed,
25 that is going to be happening. And, that means production will

1 decrease as demand, globally, increases, and that means prices for the
2 fossil fuels will go up and up and up. And, at this point in time,
3 therefore, it is so important that we do everything we can to not only
4 conserve which we haven't started yet, but also to use more
5 renewables.

6 And, I'm not here to say that it may not be possible,
7 after lengthy public participation in this issue of what the proper
8 mix of energy sources is. It may be possible that nuclear is part of
9 that. Especially in the post fossil fuel era. I want this discussion
10 to be a public discussion.

11 And, I don't want to see corporate money being made over
12 the public protests. Which is what happens. That's what's happening
13 here now. And, I don't think that's right. And so, if that can be
14 corrected, then, I think we can have a really good public discussion
15 about what the proper mix of energy sources is. And, it may be,
16 because nuclear is clean in some ways, that that may be part of it.
17 I'm not the one to be able to decide.

18 But, in the mean time, there is much that can be done
19 for renewable energy and incidentally, the argument that you only get
20 it 35 percent of the time, doesn't really apply too much, because the
21 grid is all over the country, and if you use that same grid for
22 distribution, there's going to be wind blowing and sun shining
23 someplace in the country.

24 So, that way we'd have a reasonable source of energy to
25 that as well as whatever other options exist, but, there'll be a lot

1 less of it than we enjoy now.

2 MR. CAMERON: Thank you very much, Mr. Kaufman, and
3 we'll look forward to getting your comments on the analysis that we do
4 on the alternatives.

5 Corinne, do you want to talk to us? This is Corinne
6 Carey.

7 MS. CAREY: Yes. I'm from Grand Rapids. And, the, some
8 of the maps that we have seen show that Grand Rapids, at least the
9 part I live in, is past the farthest circle that's encircled as to
10 what, the interested area.

11 And, yet, that's still not far enough. Fallout goes a
12 long, long way. I do want to ask, number one, how many people were
13 here this afternoon? I don't want to repeat too much. Oh, all right,
14 then, gosh, it's kind of a new audience.

15 And, another question, I really am kind of curious. How
16 many people are officially connected with the nuclear industry or NRC?
17 Is that a legitimate question? So that there are quite a few people
18 here that could be considered public. All right, okay.

19 Now, I have the impression after 20 years of Don't Waste
20 Michigan, that the public really doesn't know very much about nuclear
21 issues although I think that, at least I find there are people
22 scattered everywhere I go that are very much interested because they
23 realize that energy is one of the major issues that is part of our
24 world today and our future, my grandkids' time.

25 And, that, yes, we need to do something about these

1 energy issues. But, I still, I'm very much, I'm sorry, my e-mail
2 address is antinuke. And, so you can contact me, antinuke AOL.com.

3 Now, there's several things that I didn't talk about
4 this afternoon. I think I'm quoting Edward Teller correctly, or at
5 least in intent when I, now he's the guy, of course, that worked up
6 the hydrogen bomb and so on, and worked nuclear all his life.

7 To me, he's been an epitome for me of the whole nuclear
8 issue. And, it seems to me that he even said that the only right
9 place for a nuclear reactor is on the sun. Am I wrong there?
10 Misquoting or what? At least, I think, I agree with him, that the
11 only place for a nuclear reactor is on the sun and obviously we're not
12 going to shoot the waste or do our nuclear stuff on the sun because
13 getting up there is the other part of the problem.

14 One of the questions that hasn't come up enough, I think
15 is, what are the plans for the rad waste? Now, old Frank Kelly said a
16 long time back, that nobody knows what to do with a teaspoon full of
17 the stuff. And, we still don't. Sixty years into the nuclear age,
18 and we still don't know.

19 So, I think that has to be a very important
20 environmental component of the issue of whether this plant is re-
21 licensed. To keep on making this stuff doesn't make sense.

22 There's a whole bunch of questions. There's comments
23 about the dry casks, but, I won't say too much about that except that
24 there they sit. And, I'm wondering how they're going to get to
25 wherever they're going to go on site. And, how they're going to get

1 beyond that, because they're 28 tons each, I understand. And,
2 they're, they can't be moved, transported on the highways at all, or
3 any other commercial fashion.

4 And, they can't take them apart, even though that was
5 the original plan, because there's something about the shims that were
6 used to keep the lid in tight. And, if they take the lid off or the
7 shims out they could fall into the already deteriorating contents of
8 the dry casks.

9 And, oh, I understand, too, that each dry cask holds the
10 equivalent of 250 Hiroshima bombs. Am I outrageous on that statement?
11 Anybody correct me please? The other thing is, I understand the last
12 I knew anyway there are 16 dry casks. Are there more? What's the
13 current quantity?

14 MR. CAMERON: Corinne, we'll try and get you an answer to
15 that. Dwight?

16 PARTICIPANT: Nobody can say off the top of their head -
17 -

18 MR. CAMERON: Right now, okay. But, if you could just --

19 MS. CAREY: Wind it up, okay.

20 MR. CAMERON: -- keep things on the record. But, let me
21 see if we. Do we know how many dry casks there are?

22 MS. FRANOVICH: I do not know. I don't know if she's
23 asking across the country, or if she's asking --

24 MS. CAREY: No, Palisades, right here.

25 PARTICIPANT: It's 29.

1 MR. CAMERON: Okay, 29.

2 MS. CAREY: 29? I'm shocked.

3 MR. CAMERON: And if we need to clarify that, we will.

4 MS. CAREY: Times 250.

5 MR. CAMERON: Go on, Corinne.

6 MS. CAREY: Okay. One of the questions that came up at
7 the July 1st meeting, which happened to be the Friday of the Fourth of
8 July weekend, so it was something of a chore to manage to be here,
9 but, it came up the question of advocacy. I really can't truly say
10 that I feel NRC or the company representatives are truly advocates of
11 the public.

12 And, I understand there are some areas that do have such
13 a commission or an individual, I think Wisconsin has something close
14 to that, if anybody can correct me. I understand that Nevada has
15 something in that line, where the public truly feels that that, that
16 they are truly represented.

17 And, I just don't think that that's our feeling here.
18 Even though you're nice guys, I don't, I'm not questioning that you're
19 nice guys. I'm just feeling that the system needs more to be viable.

20 Okay, so this is projected for, to 2031 and then what?
21 Is there going to be another re-doing. Or, is that going to be a de-
22 commissioning and then how do you handle the jobs problem, and so on
23 and so on.

24 I haven't seen any plans on that, but that should be
25 part of a re-licensing project, you know, how do we get out of that.

1 Like, how do we get out of Iraq, et cetera.

2 Let's see. Oh, one of things that I think most of us
3 haven't recognized is that when nuclear power came in, the whole
4 electric thing, energy thing became centralized. The little dam up at
5 Newago, and the other one at Big Rapids.

6 All those little energy producers for their area, even
7 though they had a few environmental problems where they silt filled in
8 and it may have destroyed some of the environment, but, still some of
9 those things could have been handled, but, how they're out. They're
10 gone.

11 So, the de-centralization is what needs to re-occur.
12 And, it might even be that we will have solar power, solar panels on
13 our buildings, our church roofs, in the places where it's possible.
14 And, more and more, we're finding it is.

15 Oh, the thing about fines. It really was a blow to me
16 when I began to understand that fines are considered a cost of doing
17 business. They are not specific to anybody who might be responsible.

18 I understand that now in Italy, there is a company that
19 has had some, and I'm sorry, things are getting a little weak here and
20 there. The plant, a very serious plant problem in Italy where the
21 individual managers were charged with the crime and I understand that
22 25 of the 28 charged are now in jail. That's not a fine, another fine
23 that comes out of our pockets. And, I know you're nice guys.

24 Oh, the hot spots issue. I would like to see a map of
25 the hot spots in Lake Michigan. Is there one somewhere near our plant

1 here. What has our plant fed into it? When I talk hot spots, around
2 Chernobyl the fallout settled down and the winds came along and picked
3 it up and moved it someplace else. And the winds came along and
4 picked it up and moved it someplace else. Creating hot spots in very
5 unexpected locations.

6 The same thing has happened to Lake Michigan. Ever
7 since the fallout time stopped in 1963 from the above ground testing,
8 which laid down layers of sediments of radioactivity, those have done
9 the same thing in storm time, November. And, it gets it up and it
10 settles down. It gets up and it settles down.

11 And, I feel that a map of that needs to be part of this
12 re-licensing process. That's environmental. And, how much of it
13 would our plant here add to it?

14 One more comment about clean. Nuclear power is clean in
15 that you cannot taste, or you cannot smell it. You can't see it, you
16 can't write your name on it on the windshield of the car.

17 The particulates are so very very fine, that when they
18 use it in depleted uranium ammunition, et cetera, which is involved
19 quite directly with the whole power situation, that the very very fine
20 particulate is very incendiary, and anytime it's, a metal piercing
21 ammunition is, I understand is depleted uranium whether it's done by
22 plane or some ground firing or whatever.

23 But, it's very very fine and it burns and it invades the
24 environment. Now, how much of that very fine particulate is also part
25 of the picture of a nuclear power plant? How much does it invade the

1 environment, in comparison to the heavy particulates of fossil fuels.

2 Oh, and clean, I mentioned this morning that I
3 understand that yes, you can taste a radioactive exposure. It gives a
4 metallic taste on the tongue, you taste a penny. So, I'm not a
5 scientist, obviously, but I am very concerned that we need all forms
6 of science and the emotion that comes from human beings in order to
7 take good care of my five grandkids.

8 MR. CAMERON: Thank you very much. Thank you, Corinne.
9 We're going to go to Mr. Karch right now, and then we're going to hear
10 from Kevin Kamps. And, it's Gary? Gary Karch?

11 MR. KARCH: Yes, thank you very much.

12 MR. CAMERON: You're welcome.

13 MR. KARCH: My comments are going to be a little mixture
14 of and edited from what I originally was going to say because some
15 people have already covered some subjects and then I come up with
16 other things to say as the proceedings have occurred.

17 First of all, I was very disturbed by the fact that with
18 all the NRC professionals and the Palisades employees here, no one
19 right off the top of their head could say how many dry casks we have
20 here? And we had to have Kevin Kamps, the Nuclear Information Resource
21 Service and anti-nuclear watchdog group come up with the number 29?

22 Everybody was scratching their head and nobody knew.
23 That's the kind of lack of inattention, of lack of attention it seems
24 is that we're being afforded here. They don't even know how many dry
25 casks are sitting on the shores of Lake Michigan.

1 As for the tax base, and the loss of tax base, that we
2 had members of the Chambers of Commerce and Covert Township say is
3 important, that every dollar generated is circulated seven times or
4 what have you. Coming here, I drove through Covert.

5 First time I drove through covert was about 24 years
6 ago. And, I've driven through it since particularly coming up here
7 when, being involved in the Palisades plant before they even put out
8 one dry cask. I was involved in some of the organizing against the
9 dry cask.

10 And, I don't see where Covert has, you know, benefitted
11 anywhere. Maybe, you know, South Haven has, but, talk about
12 environmental justice. Covert looks just as deprived as it has ever
13 been.

14 Concerning the power generated from the plant and how
15 much it provides in the state of Michigan and all of that spin. The
16 Cook nuclear plant was down over two and half years, and they have two
17 reactors there each of, each one, I believe is 1100 megawatts and we
18 never had any power outage due to lack of generation capacity there.

19 And, the Palisades plant of 800 megawatts isn't
20 necessary at all. I believe this is a false creation of needed
21 electrical generation capacity that we're seeing here.

22 And, thank you, Corinne for bringing up the concern
23 about the waste. This is one thing that I believe in the proceedings
24 here we being very, you know, professional and calm and everything,
25 but, the professionals in the nuclear industry are being very

1 capricious with the fact that, you know, they're generating a lethal
2 waste here.

3 How much more waste will be generated in 24 more years.
4 It is my understanding that if Yucca Mountain were to open tomorrow,
5 which it's not going to happen because they're still having even more
6 problems there, it already is not capable of handling all the waste
7 that is already generated and sitting in storage across the United
8 States. It already could not hold everything that's generated.

9 So, and also I remember reading not too long ago in the
10 Herald Palladium that there was an article about a new transportable
11 dry cask that Palisades will be using from now on. And that's all
12 well and good, but, where is that waste going to go if there is no
13 place for it.

14 This is the most serious environmental, blatant problem
15 that needs to be addressed. The electricity is fleeting. It's
16 created and it's gone, it's used. What's left is the waste. So, the
17 truth of the matter here is the real product is lethal nuclear waste.
18 Electricity is just a by-product. The waste is what is still here and
19 will be here for hundreds of thousands of years and it is lethal and
20 it is deadly.

21 And then, we have to go through the process of finding
22 how to keep it safe. This industry is holding us psychologically
23 hostage. They're creating a waste, and then patting us on the head,
24 and saying, oh, don't worry, we know what to do with it, it'll be
25 safe, blah, blah, blah.

1 I say, our psychological body burden, we've had enough
2 psychological body burden in Michigan, here, especially in
3 southwestern Michigan. We've got Cook and it's probably a done deal
4 that they're going to get another 20 years. But, we don't need this
5 little Palisades with all its history of safety infractions in the
6 hundreds that made headlines over the years. We don't need this
7 anymore. And, with that, that's the end of my comments. Thank you.

8 MR. CAMERON: Thank you, Mr. Karch. And, Kevin, Kevin
9 Kamps.

10 MR. KAMPS: My name is Kevin Kamps from Nuclear
11 Information Resource Service. And, I spoke earlier, too, so I'll try
12 to address other issues than I said earlier today.

13 I wanted to talk about the screening criteria that were
14 mentioned earlier by Bob from the NRC. And, Mr. Keegan mentioned
15 five reevaluations of the embrittlement of the reactor vessel at
16 Palisades. And we see those as relaxations.

17 And that's why in our contentions against the 20 year
18 license extension we will go into great detail on how dangerous this
19 situation is. Probably the most embrittled reactor in the United
20 States. And, it's really taking a big gamble to try to operate this
21 dangerous facility for another 20 years.

22 And, I have a big question about Consumers Energy's
23 promise in previous years to anneal the reactor vessel. That was a
24 promise made publicly. I saw an article from years ago in the
25 Kalamazoo Gazette where Consumers indicated that it was going to

1 anneal the vessel.

2 And so, we have a question as to why that never happened. And,
3 I would hope in the environmental review that that would be addressed.
4 What changed? Why was that promise not kept?

5 And, something also that Mr. Keegan mentioned was the
6 environmental review has to look at the socio-economic impact of a
7 full scale catastrophe at Palisades. Tourism was mentioned. I would
8 also specifically request that casualties be looked at. The number of
9 deaths, the number of injuries, the number of latent cancer
10 fatalities. The number of genetic damaged children in future
11 generations.

12 I heard from Consumers especially that this plant is
13 safe. And so, my question is Consumers willing to voluntarily give up
14 its Price Anderson Act protection. If this facility is so safe, then
15 why do you need liability protection provided by the U.S. taxpayers?
16 Simply get rid of that, and I'll believe you a little bit more.

17 Because then the liability will be where it belongs
18 which is with the owner and the operator of the nuclear power plant.
19 And, of course, you'll be a lot more careful if that \$500 billion bill
20 for damages that's possible was on your books instead of the public's.

21 I'd also like to point out that this entire licensing or
22 license extension proceeding is premature because the Nuclear
23 Regulatory Commission is reevaluating its pressurized thermal shock
24 rule. And this revision is not complete. So, this proceeding should
25 be postponed until after that proceeding is complete.

1 And, I need clarification from the NRC as to whether the
2 old rule applies at Palisades or the new rule is going to apply at
3 Palisades. And, for that reason alone, this entire proceeding should
4 be postponed. That's another reason for the deadlines to be extended.

5 And, I would like to talk about waste. That's come up a
6 lot. Both pads at Palisades are in violation of NRC earthquake
7 regulations. So, therefore, Palisades has no safe place to store high
8 level radioactive waste that meets NRC regulations. The pool is full.
9 The pads are in violation of regulations.

10 In addition, it's been brought up that Yucca Mountain is
11 also highly in doubt and it's also an environmental justice violation
12 itself because it's Western Shoshonee Indian land in Nevada. And they
13 don't want it. It's also an earthquake zone that leaks into the
14 underlying drinking water supply.

15 I'd also like to point out that another proposed dump
16 site at the Skull Valley Goshutes Indian Reservation in Utah is an
17 environmental justice violation. So, these are the two leading long-
18 term solutions, so called, for this nuclear waste problem. Two Indian
19 lands out west.

20 And, I'd like to talk about the NRC's nuclear waste
21 confidence decision. This is a document that NRC first put out in 1984
22 and has revised a number of times where we cannot bring up nuclear
23 waste as an issue during licensing proceedings like this, because it's
24 covered. They say we have confidence that by the year 2025, at least
25 one dump, burial site will be open in the United States.

1 Nevada has challenged that, because the only site under
2 consideration is Yucca. And NRC is supposed to be an unbiased
3 objective judge of the Yucca site, whether it should be licensed or
4 not, but, of course, if NRC rules against Yucca, they prove themselves
5 wrong. There will not be burial site by 2025. So, that nuclear
6 waste confidence decision is very shaky and needs to be withdrawn and
7 waste needs to be a part of this proceeding.

8 And, you mentioned earlier, I think you mentioned it
9 tonight, too, that environmental justice is something you consider in
10 this environmental review. So, certainly the environmental justice
11 violations at Yucca Mountain and Skull Valley, Utah need to be
12 considered.

13 I'd like to say a little bit about alternatives. I
14 thought it was telling when Bob spoke that renewables were mentioned
15 last and very briefly. And, I think Maynard, and earlier in the day,
16 Barb Geisler pointed out the reality of renewables like wind and
17 solar. They're ready to go. They're viable. And I would add in
18 there efficiency and conservation as alternatives to nuclear power.

19 And, something that Mr. Keegan brought up, at a 44
20 percent rate of operation at Palisades because of all the breakdowns
21 and violations over the years, how does that compare to the wind not
22 blowing? I mean, the last time I checked the sun comes up every day.
23 So, that's pretty reliable source of energy, I would say.

24 And, I would like to point out in terms of renewables,
25 the job potential. Tremendous job potential. A lot was said about

1 jobs. There's a recent report that the NRC reviewers need to include
2 in this review which is by Amory Lovens of the Rocky Mountain
3 Institute, where he points out that renewables already are leaving
4 nuclear power in the dust in terms of marketplace reality.

5 And, another report by the U.S. Public Research Group
6 shows that hundreds of thousands of jobs could be created through
7 renewables like wind and solar and efficiency measures. And, that
8 could, the Kyoto, the Kyoto global warming quotas could be met in the
9 United States with nuclear power being rolled back 50 percent, we
10 could still meet the Kyoto standards in this country. And so, nuclear
11 power is not the solution to global warming. It would cost too much.
12 It would take too long to build new reactors.

13 In terms of emergency response, I've heard earlier today
14 and tonight a lot of thanks from local officials for Consumers paying
15 for emergency response training and equipping. And so, in the
16 environmental review, I would like to ask that the NRC look at the
17 preparedness of emergency responders in surrounding counties in terms
18 of how ready they are for a major radiation release. How many
19 isolation units are there at local hospitals for radiation victims,
20 who themselves being contaminated would be a threat to the medical
21 personnel helping them.

22 And, the last thing that I'll bring up is, I have to
23 choose here. I would again reemphasize the importance of extending
24 the deadlines, because we're five years out right now from the year
25 2011 when this license expires.

1 So, the question is, what's the rush? Why are these
2 deadlines so rushed? And, also, it's a 20 year license extension.
3 So, we should have more than just 60 days to comment on 20 years of
4 impacts. But, of course, as Mr. Karch said, it's a lot longer than 20
5 years. The waste is going to be here forever. Thank you very much.

6 MR. CAMERON: Thank you, Kevin. And, thank all of you
7 for your comments tonight. Is there anybody who we haven't heard from
8 tonight that wants to say anything else before we close? We did get
9 to hear from Marilyn, which is good. Do you want to say, do you want
10 to give us some more?

11 MR. RICHARDS: No. I got pretty much --

12 MR. CAMERON: All right, let me just before we get
13 really informal here. It seems like you have something to tell us,
14 right? That you want to put on the record? Is that correct?

15 MR. RICHARDS: I guess, yes.

16 MR. CAMERON: Okay, well, than we're going to hear that.
17 And then, we're going to go to Mr. Keegan for a brief, okay? Why
18 don't we hear from you and then we'll go to Mr. Keegan. And then, I'm
19 going to ask Rani to close for us.

20 MR. RICHARDS: Yeah, Ken Richards.

21 MR. CAMERON: Ken Richards.

22 MR. RICHARDS: And, I guess I've been living here in
23 South Haven most of my life. And, watching this issue, I worked on
24 the power plants, back in, starting back in the 70's when it was Cook.

25 And, I've just been hearing all sort of things. And, I

1 heard tonight this gentleman over hear was explaining, the glasses
2 right down here. I didn't catch his name.

3 PARTICIPANT: He's Bob Vincent.

4 MR. RICHARDS: Bob, yeah. When I hear these rosey
5 pictures painted of a reactor vessel, when, you know, there's another
6 way to put that. We're taking old fuel assemblies from back in the
7 70's and whatnot, stainless steel ones and sticking them up against
8 the reactor wall because we're worried about the embrittlement, we're
9 worried fractured reactor wall here.

10 We don't, we hope that these things will sop up the
11 radiation, help it from getting out. That's another way of saying
12 what you just said and, I keep hearing this stuff just over time from
13 so many different sources within the nuclear industry. And even time
14 to time from the NRC from the, just explaining things away like I'm
15 sitting here watching TV advertising every night or something.

16 You know, I know I'm being sold a bill of goods here. I
17 know we're got this 40 year old reactor out there that we're going to
18 just, we're going to run it for another 20 years. I'm nervous about
19 that. It gives me great cause for concern, and I just don't think it's
20 a good idea.

21 I wish there was another brand new nuclear power plant
22 to take over, like we were all thinking back in the 70's. Three Mile
23 Island happened, none of that's ever happened.

24 You know, it's just there are new technologies coming
25 along all the time and if we just put half the investment that we put

1 into these old dead industries, that are dying like the nuclear
2 industry. You know, we could have new stuff here that doesn't
3 pollute.

4 We can turn this greenhouse effect around. We can fix
5 these problems, but, right now, we want, most of our resources are
6 going to what's making the right people a lot of money. And, they're
7 just trapped there. And, we're just getting this continual PR
8 bullshit that that's all going to be okay.

9 And, I just don't want South Haven, I don't want my home
10 town to the place where this really goes wrong, when the world gets
11 taught a lesson it'll never forget, like they had to do over in
12 Russia. Not here.

13 MR. CAMERON: Thank you very much, Ken. Michael?
14 Briefly?

15 MR. KEEGAN: Briefly. To honor your request that new
16 issues be brought forward, regarding the dry casks, we intervened,
17 Don't Waste Michigan intervened in 1993. We went to district court,
18 U.S. District Court on May 4th, '93 announcing that we wished to
19 intervene. The court set a date of May 6th for us to intervene.

20 On May 5th, Consumers Power generated a document
21 unloading procedures for the casks. When we went to court the next
22 day, the judge said there is no irreversible harm here because they
23 have this unloading procedure that this can be undone.

24 Lo and behold, this can't be undone. Cask number four
25 has not been unloaded. It was promised to be unloaded. These casks,

1 no unloading has occurred industry-wide. There is a potential for a
2 huge steam, radioactive steam release if this was unloaded. It would
3 have to be under water. It's a complex issue, but, this is
4 unresolved.

5 But, basically, Consumers Power and the NRC did perjure
6 themselves in federal court on May 5th, a document, it was May 6th, I
7 think we presented that. And, because of that, the judge would not
8 rule for a temporary restraining order because it was perceived to be
9 reversible. Lo and behold, years later, Mary Sinclair, Dr. Sinclair,
10 came across documentation showing that this cannot be undone.

11 What about these 29 casks that are loaded? And, it's my
12 understanding they weigh 132 tons each. This is a defacto high level
13 of a nuclear waste dump on the shore of Lake Michigan. And there are
14 no plans to get it out. And, you're going to make more, give them a
15 20 year extension to make more of this. I have a problem with that.

16 I also have a problem with them, Consumers having a fire
17 where trailers of documentation were burnt on the casks, the
18 documentation about the cask was burnt in a fire that was suspect and
19 is still under, I don't know if it's still under investigation, but, I
20 don't believe arson was ever ruled out.

21 A caveat to that was that Consumers Power did provide
22 the local fire department about five, six years previous with about
23 \$800,000 piece of fire equipment. So, if it looks like a duck, walks
24 like a duck, smells like a duck. It's a duck. And, this is a rotten
25 eggs here. So, don't bring us 20 more years of this.

1 MR. CAMERON: Okay, thank you. I'm going to hear from
2 people that we haven't heard from. Okay. I want to get to Mr.
3 Rendell from Covert Township.

4 MR. RENDELL: Thank you. I really didn't come prepared
5 to speak, but, I wanted to correct, Gary Karch said Covert hasn't
6 benefitted from this power plant. That's very far from the truth.

7 We have a wonderful fire department, we have a full time
8 police department. We have water throughout the township. Without
9 Consumers help with this, that wouldn't happen. Covert is very much
10 in favor of this renewal.

11 MR. CAMERON: Okay. Thank you. Thank you very much, Mr.
12 Rendell. And, Kevin, really short, please.

13 MR. KEEGAN: Yeah, I apologize. I forgot an important
14 point. If Yucca Mountain were to open in Nevada, there's enough waste
15 in the United States by the year 2010 to completely fill it to its
16 legal capacity. It won't be open by 2010, if ever.

17 And so, I just point out the irony of Consumers license
18 expiring in the year 2011 and if Yucca were to open, it possibly could
19 take all the waste generated at Palisades up to that point. But,
20 everything made after that point, after the year 2010, is excess to
21 Yucca. And, the second repository in the United States by law would
22 have to be located in the eastern part of the country. Perhaps
23 Michigan? Who knows. Wisconsin?

24 So, I would just point that out. Let's not make 20 more
25 years, because there certainly is no place for that. There's no place

1 for the first 40 years of waste.

2 MR. CAMERON: All right. Thank you Kevin and thank all
3 of you for the comments and coming out tonight. And, we're going to
4 go to Rani. Rani?

5 MS. FRANOVICH: Thank you, Chip. Just want to again,
6 thank you all for coming and talking with us tonight. This is very
7 important to us to have your participation in the process. In the
8 back of the room, we have a lot of literature that you're welcome to
9 take and read.

10 We also have some feedback forms that we'd like you to
11 fill out and leave here or mail in to us. The postage is prepaid.
12 This will allow us to understand how we might be able to conduct the
13 meetings in the future to better serve your needs, get some feedback
14 on how well we're receiving your comments and giving you an
15 opportunity to talk with us.

16 If you have any comments on the scope of the
17 environmental impact statement that you think of after the meeting,
18 we're accepting these comments through August 22nd. As Bob indicated,
19 if they're a couple of days late, we'll still try to consider them.
20 But we can't guarantee that a few weeks late won't be too late.

21 Finally, the NRC staff and some contractors will be
22 available to talk with you one on one after the meeting. So, if there
23 are any other questions or concerns you want to talk with us about,
24 just come and see one of us and we'd be happy to talk with you for
25 awhile. Thank you very much, again, for coming to the meeting.

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(Whereupon, the meeting was adjourned at
9:29 p.m.)