

1 UNITED STATES OF AMERICA
2 NUCLEAR REGULATORY COMMISSION
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5 PUBLIC SCOPING MEETING ON INTENT TO PREPARE DRAFT
6 SUPPLEMENT TO GENERIC ENVIRONMENTAL IMPACT STATEMENT
7 ON DECOMMISSIONING OF NUCLEAR FACILITIES
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13 Boston Marriott Copley Place
14 110 Huntington Avenue
15 Boston, MA
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17 Wednesday, May 17, 2000
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19 The above-entitled meeting commenced, pursuant to
20 notice, at 7:30 p.m.
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P R O C E E D I N G S

[7:30 p.m.]

[In progress.]

MR. SCALETTI: I'd like to introduce Dr. Michael Masnick, who is my immediate supervisor and he's chief of the decommissioning section. And I'd like to introduce Mr. Stewart Richards, who is the project director for -- project director for decommissioning.

Next, I'd like to tell you that the U.S. Nuclear Regulatory Commission was formed as a result of the Atomic Energy Act of 1953 and the Energy Reorganization Act of 1974. The NRC's mission is to regulate the national civilian use of nuclear materials; to ensure adequate protection of health and safety of the public; also, they actively protect the environment and provide a common defense and security.

The NRC accomplishes these missions through regulations, licensing, inspection, and the enforcement of nuclear power plants. The NRC regulations are issued under Title 10 of the United States Code of Federal Regulations. For commercial power reactors, the Nuclear Regulatory Commission function includes licensing to these facilities. A nuclear power plant license is based on a set of established regulatory requirements that ensure the design and proposed operations are performed based on radiological

1 safety standards.

2 The NRC conducts routine inspections to ensure the
3 plant design and operations conform to the license
4 requirements; that enforcement actions are taken in the
5 event that we find that any of the license requirements are
6 not being satisfied. The NRC's responsibilities for a
7 nuclear power reactor are for the entire life cycle of the
8 facility, construction through license termination. The NRC
9 maintains the license and continues to regulate through the
10 decommissioning process, until the license is terminated.

11 The NRC is concerned with nuclear power plant
12 safety and, also, for the protection of the environment.
13 The NRC, through the decommissioning process, that is the
14 focus of this meeting tonight.

15 Why are we here tonight? I've just given you a
16 brief background of the NRC's regulatory responsibilities
17 and I'd like to discuss why we're here tonight. The first
18 of this meeting is to discuss the generic environmental
19 impact statement, or GEIS, on decommissioning of permanently
20 shut down nuclear power reactors that the NRC proposes to
21 write. We are going to describe the process set forth by
22 the National Environmental Policy Act, or NEPA, for
23 developing this generic environmental impact statement, as
24 well as provide you some background information on nuclear
25 reactor decommissioning. We will, in general terms, discuss

1 the environmental review. And, finally, and most
2 importantly, we are here to listen to your comments and
3 statements regarding the development of this generic
4 environmental impact statement.

5 Today's meeting is not a formal hearing, but it is
6 an opportunity for the NRC to gather information about the
7 public's potential concerns regarding the environmental
8 impact for decommissioning. The NRC will develop a generic
9 environmental impact statement in accordance with the NRC's
10 responsibility under NEPA. Today's meeting, also, provides
11 for the opportunity to describe to you the steps that occur
12 during the preparation of a generic environmental impact
13 statement and indicate to you the schedule that will be used
14 in developing this document.

15 The National Environmental Policy Act was enacted
16 in 1969. NEPA places the responsibility from federal
17 agencies to consider significant aspects of the
18 environmental impact of a proposed action. It requires that
19 all federal agencies do the systematic approach to consider
20 environmental impacts during their decision making. The
21 NEPA process is structured to ensure that a federal agency
22 will inform the public that it has indeed considered the
23 environmental concerns in decision making process and invite
24 public participation to evaluate the process. This meeting
25 is part of that process. This meeting is, also, required by

1 10 CFR Part 51 of our regulations.

2 What is NEPA? NEPA requires the environmental
3 impact statement or assessment be prepared for all major
4 federal actions. Supplements to drafts or final
5 environmental impact statements are required when there is
6 significant new circumstances or information relevant to the
7 environmental concerns. This is a situation wherein the new
8 regulations and the additional experience in decommissioning
9 facilities and NRC believes that it is appropriate at this
10 time to develop a supplement to the original generic
11 environmental impact statement on decommissioning.

12 Generic environmental impact statements are
13 allowed in cases where there is a need to address the
14 generic impacts. There are numbers similar to proposed
15 actions for similar facilities. The action you're looking
16 at has been mentioned previously in the environmental
17 impacts related to decommissioning of commercial nuclear
18 power reactors.

19 What is a generic environmental impact statement?
20 What exactly is a generic environmental impact statement for
21 decommissioning? A generic environmental impact statement
22 identifies the environmental impacts that may be considered
23 generic to all nuclear reactor facilities. It, also,
24 identifies the environmental impacts that need to be
25 considered in more detail for a specific facility.

1 We have redundancy here. The generic
2 environmental impact statement is used to focus the analysis
3 in environmental impacts. It helps us determine which of
4 these impacts are site specific and need to be considered
5 separately in each -- for each nuclear power facility that
6 is decommissioning and which impacts are generated -- are
7 generic and can be evaluated as part of this generic
8 environmental impact statement and then not be reevaluated
9 every time a plant enters decommissioning. This allows us
10 to spend more time and resources that are required to focus
11 on the impacts that are necessary for a particular site.

12 The generic environmental impact statement is,
13 also, used as the basis for determining if additional
14 rulemaking is required, related to the environmental impacts
15 on decommissioning from a decommissioning process. If it is
16 determined that additional rulemaking is required, a generic
17 environmental impact statement will serve as a basis for the
18 rulemaking.

19 Why are we supplementing the existing generic
20 environmental impact statement on decommissioning? The
21 original document on decommission was published in 1988. It
22 is over 12 years old. Since the original document was
23 published, there have been new regulations related to
24 decommissioning issued. In addition, since 1988, there has
25 been an increase in the amount of decommissioning experience

1 in the U.S. Currently, 21 nuclear reactors facilities have
2 permanently ceased operation. As a result, there are over
3 300 years worth of decommissioning experience, resulting in
4 a lot of new information being available regarding
5 environmental impacts.

6 The original generic environmental impact
7 statement was published, as I said, in 1988, as NUREG 0586.
8 It looked at decommissioning of all sorts of facilities that
9 hold licenses with the NRC. The revised generic
10 environmental impact statement -- we're only interested in
11 permanently shut down power reactors and will not include
12 decommissioning of fuel fabrication plants or independent
13 storage facilities. It will be published as a supplement to
14 NUREG 0586, so the information relating to decommissioning
15 of the other types of facilities will still be contained in
16 the original GEIS. The new information learned from
17 decommissioning of commercial power reactors will contained
18 in the supplement that is being developed this year.

19 The NEPA process follows certain steps and the NRC
20 is required to follow this process, which provides the
21 consistency of all EIS's prepared by all federal agencies.
22 The first step in the process is the notice of intent, which
23 is published in the Federal Register. The notice of intent
24 informs the public that the EIS, or, in this case, the
25 generic environmental impact statement, is being -- is going

1 to be published. The notice outlines what the process is
2 going to be and advises the public to come in and
3 participate, announces the location and times of public
4 meetings, and designates the contact at the NRC for more
5 information.

6 The notice of intent for this action was published
7 in the Federal Register on March 14, 2000, and a second
8 notice specific to this meeting in Boston was published on
9 May 1, 2000. In addition to this meeting, public meeting --
10 a public meeting was held in Lisle, Illinois on April 27th
11 and additional public meetings will be held in Atlanta and
12 San Francisco.

13 The next step in the scope of -- the next step is
14 the scoping process. Scoping is used early in the NEPA
15 process to help federal agencies decide what issues should
16 be discussed in the EIS. It helps us to define the proposed
17 action. Scoping, also, helps determine any peripheral
18 issues that may be associated with the proposed action, but
19 are considered to be outside the proposed action's realm.
20 Scoping identifies other related actions, such as other
21 environmental assessments or EISs that are being performed
22 by other state or federal agencies or that may impact the
23 decommissioning activities. Scoping allows us to coordinate
24 with the state and federal agencies early in the process.
25 Public comments on the scoping process for this generic

1 environmental impact statement should be received by July
2 15, 2000.

3 Once scoping is completed, the NRC will perform an
4 evaluation of the environmental impact associated with
5 reactor decommissioning. The environmental evaluation will
6 address the impacts of the proposed action in a generic
7 matter; that is, the impacts that may occur in all or most
8 decommissioned nuclear power plants. The alternatives to
9 the proposed action and the impacts that could result from
10 those alternatives will, also, be evaluated. Finally, we'll
11 look at the mitigating measures, those measures that tend to
12 be taken to decrease the environmental impact of the action.

13 After the NRC has conducted the environmental
14 evaluation, we'll issue a draft environmental impact
15 statement; in this case, a generic draft environmental
16 supplement to NUREG 0586. And we expect that this document
17 will be published in early 2001.

18 All federal agencies issue draft environmental
19 impact statements for comment. After we've gathered the
20 comments and evaluated them, in instances we may find that
21 portions of the draft environmental impact statement may
22 change based on those comments, we will issue a final
23 environmental impact statement -- follow the resolution as
24 to comments. This document, the final document, is
25 anticipated to be issued in late 2001.

1 As discussed previously, the other related EISs
2 that have an impact on what the staff is doing -- published
3 EISs, in July of 1997, we list the radiological criteria
4 that were used in the rulemaking for the various amount of
5 radioactive material that can be left on site when the
6 license is terminated. As a result of the July 1997 impact
7 statement, the criteria of 25 millirem as total effective
8 dose equivalent was adopted. This generic environmental
9 impact statement or the July impact statement provides the
10 basis for what the impacts to the public would be after the
11 license had been terminated.

12 A final generic environmental impact statement was
13 completed in 1982, to look at the impacts of low-level
14 radioactive waste at license disposal sites. The impact of
15 other waste that came from decommissioning plants was, also,
16 considered in this final generic environmental impact
17 statement. Finally, a draft EIS has been written for the
18 geological repository for nuclear fuel -- spent fuel at
19 Yucca Mountain in Nevada.

20 We highlight these EISs, because these areas
21 probably -- will not be covered in the decommissioning
22 generic environmental impact statement, because it had been
23 previously considered. We will reference these documents
24 and utilize the evaluation in them.

25 That concludes my presentation.

1 MR. CAMERON: Our stenographer is here and she was
2 pulled out for us on an emergency basis, but I think she's
3 getting everything back there. We can't see you, but -- all
4 right.

5 Anyway, are there questions or comments on the
6 information in Dino's presentation? They were process
7 oriented. We're going to get into the substantive issues of
8 potential kinds of decommissioning impacts after Eva's
9 presentation. But, are there questions for Dino? Yes? And
10 what -- let me give you this, and if you could just state
11 your name and, if you want to, your affiliation.

12 MR. JUDSON: My name is Tim Judson and I'm with
13 the Central New York Chapter, Citizens Awareness Network.
14 The one question that I had was in regard to NEPA, and in
15 your description about NEPA -- it talks a lot about, you
16 know, consider -- that NRC has considered significant
17 aspects of environmental impact and has to inform the public
18 that it has indeed considered environmental impact concerns
19 in its decision making process. And I'm wondering in return
20 of the NRC understanding of NEPA, where
21 ~~unfortunate~~enforcement comes in to that, in terms of having
22 done a review of an action and -- in the case of having
23 determined what is -- whether this stuff is very adequate,
24 where ~~unfortunate~~enforcement action NRC has to take under
25 NEPA.

1 MR. CAMERON: I think that is a real useful
2 question to try to put into perspective for people out here
3 exactly what an environmental impact statement does and does
4 not do. For example, the regulatory framework, the
5 regulations, themselves, might do. And I see that Steve
6 Lewis has joined us from our Office of General Counsel and
7 does that mean that he's going to take this question? All
8 right, Steve?

9 MR. LEWIS: I just joined you, but I will take the
10 question. We do not take enforcement of it. We do not
11 measure whether or not we're going to take enforcement on
12 the basis of doing an environmental impact we do. If there
13 is a violation of a regulation, you know, we're going to
14 take action and it will be done. That's the short answer to
15 your question, unless I didn't fully understand your
16 question.

17 MR. CAMERON: Could we reiterate again for people
18 how the information in this environmental impact statement
19 may be used again? ~~You know~~Dino, you've got a slide on
20 that, but I think it's worthwhile to cover that again for
21 people.

22 MR. SCALETTI: We plan to -- as counsel already
23 said, that we do not take enforcement action based upon --
24 on NEPA evaluations. Any enforcement action was done
25 directly related to whether or not our regulations are being

1 violated. But, we've used -- we use environmental impact
2 statements, in this case a generic environmental impact
3 statement, to help us to look at, as I said before, impacts
4 that could be considered across the spectrum of reactors, in
5 all -- ~~civil~~similar reactors that have similar impacts. We
6 can do an evaluation, which we're required to do, when we
7 issue, in this case, our regulation in Part 50. Part 5082
8 requires a license ~~determination~~termination or a license --
9 we stop -- we hold the site of decommission -- in two years,
10 you have to file a post shutdown decommissioning activity
11 report. In that report, you have to ~~prepare~~compare the
12 evaluation of your operating environmental impact statement,
13 how you met that, as well as generic environmental impact
14 statements, which are updated now, so to make it more
15 current. So, that's what we use it for. We have -- it's
16 used to cover a spectrum of impacts that we can deal with
17 generically.

18 MR. CAMERON: So, if a licensee -- if there's an
19 impact at a particular plant that's undergoing
20 decommissioning that is not bounded by the information in a
21 generic environmental impact statement, then the licensee
22 would have to address that in a site specific?

23 MR. SCALETTI: Site Specific.

24 MR. CAMERON: Okay. That's the distinction
25 between generic and site specific. Debbie?

1 MS. KATZ: Deb Katz, Citizen's Awareness Network.
2 What would trigger a site specific environmental impact
3 assessment, in terms of an EA and instead of just the
4 generic? What would the NRC use as the rule to determine
5 that?

6 MR. SCALETTI: Well, I think right now, it's
7 premature to answer that question. The process we're going
8 through now is to look at what the impacts are and to see
9 which ones we can cover generically and which ones we can't,
10 and the process that's going to trigger this is what is
11 being evaluated at this moment.

12 MR. CAMERON: Did you mean that in terms of
13 specific type of impact or were you looking for information
14 on just the generic process?

15 MS. KATZ: I mean, I think you guys have somewhat,
16 at this point -- I mean, if you've done all of these
17 decommissionings, you must have some sense of the site
18 specific problems you've come up against at Yankee Row^e,
19 Connecticut Yankee, a lot of different places. And what I'm
20 asking for is just your thoughts on the process, not, you
21 know, a hard, fast rule. But, the issue, we have -- in site
22 specific evaluations and so we are sort of confounded by the
23 lack that that happened.

24 MR. CAMERON: And that may be a topic that is
25 going to fit -- or will be a topic, I think, that will fit

1 nicely into after Eva's presentation, because we're going to
2 be talking about specific types of impacts. So, can we go
3 into that, at that time, Debbie? Let's not forget to do
4 that.

5 MS. BASSILAKIS: Rosemary Bassilakis, Citizen's
6 Awareness Network. I guess my question is kind of similar
7 to Deb Katz's. If you read a post shutdown decommissioning
8 activities report, like, for example, the one for
9 ~~Hadaneck~~Haddam neck is 13 pages long, not a whole lot of
10 information in there. All the licensee had to do was to say
11 they weren't going to go beyond a 900 ~~person~~person-rem and
12 they weren't going to do anything to adversely affect the
13 environment; very vague. And, in fact, the only time you
14 really find out if they need a site specific is if they
15 failed, and that's going to be too late.

16 MR. CAMERON: That's the generic -- that's the
17 process question I thought that Debbie might be asking. Can
18 you talk about the process for the preparation of the -- of
19 a site specific environmental impact statement or EA? Can
20 you put that in the reactor decommissioning process context
21 for us? Mike?

22 MR. MASNI~~e~~K: I think -- this is Mike Masni~~c~~k. I
23 think the important thing to remember, what triggers a NEPA
24 review, and what triggers a NEPA review is a federal action.
25 In the case of the decommission rules, as they presently

1 stand, there is no major federal action that takes place at
2 the time the facility shuts down. The licensee declares
3 that they've shut down. There is no licensing action on our
4 part for that period of time.

5 Now, the Commission's regulations do speak of
6 making certain that any action that occurs at the site is
7 within the bounds of previously issued environmental
8 assessments. And the Commission believes that a generic
9 environmental impact statement can broadly accommodate those
10 particular impacts at the majority of facilities and the
11 majority of the impacts. Part of the process that we're
12 investigating here is, is there certain site specific
13 impacts that can't be dealt with in a generic sense. That's
14 part of this process. We've identified a few and I thought
15 there would be more than a few now. But, the bottom line is
16 that there is no major federal action at the time that the
17 plant enters decommissioning; therefore, there is no
18 requirement on the part of the agency to do a detailed
19 environmental impact statement.

20 MR. CAMERON: And Rosemary, we're going to -- I
21 think the last presentation is going to go through not only
22 the types of impacts, but what the stages are in the
23 decommissioning process. So, we might want to revisit this
24 for Rosemary when we get through that presentation.

25 Steve, did you want to --

1 MR. LEWIS: Yeah, I want to add something to that.
2 It is certainly quite correct that the post-shutdown
3 decommissioning activities report is quite a summary. It
4 is, also, true that we do not necessarily require the
5 licensee, at that point, to have specific decommissioning
6 plans in place. I mean, it may, in fact, reflect the fact
7 that decommissioning -- the development of the
8 decommissioning for that particular facility is at a very
9 formative stage.

10 The other thing I wanted to mention is that as
11 part of looking at that PSDAR, we have established a
12 practice, and it's being proceduralized now, to have one of
13 our environmental specialist visit the site and using his or
14 her expertise, satisfy himself that there is a basis in the
15 analyses done by the licensee for the assertions that it
16 makes that it is within the environmental bounds of the GEIS
17 and site specific environmental reports, environmental
18 impact statement. So, the regulation says exactly what Mike
19 Masnick says it says. That's how it works. But, what we do
20 is we probe behind it.

21 MR. CAMERON: Okay. We have a couple of questions
22 here. We're going to let Tom LaGuardia and then come up to
23 Jonathan. Tom?

24 MR. LAGUARDIA: Tom LaGuardia from TOLG sServices.
25 I don't know -- I don't think the group should leave with

1 the impression that the exposure levels that workers are
2 getting every day is going to pass through a threshold
3 overnight. These things are monitored every single day.
4 They're tallied every week and so on. And as they approach
5 the GEIS limit, they're going to be taking some actions to
6 correct a situation, if the exposure levels are kind of
7 excessive. And if they're 50 percent finished with the
8 project and they are at 90 percent of the exposure limit,
9 something is wrong. I mean, they'll stop the job and fix
10 it. I don't want you to get the impression that overnight
11 they're going to shift from 500 millirem, or whatever the
12 measurement, to 1,000. It's doesn't happen that fast. The
13 exposures are not there.

14 MR. CAMERON: Okay. I think that when we come
15 back to Eva's presentation, we'll talk a little bit about
16 occupational and that particular comment, I think, goes to
17 our regulatory structure perhaps more than to GEIS. But, I
18 think that it, also, may be relevant there. But, we'll get
19 back to that.

20 Ray, let me go Jonathan first.

21 MR. BLOCK: Sure. My name is Jonathan Block, J-O-
22 N-A-T-H-A-N, B-L-O-C-K, and I've been CAN's chairman since
23 1994. I wanted to bring to your attention Citizen's
24 Awareness Network v. United States Nuclear Regulatory
25 Commission, 59 Fed 3d. 284, appropriately hearing the 1st

1 Circuit in 1995, where between pages 292 and 293, you will
2 find that the court made a determination, that has not been
3 overturned, that said that in the case of the Yankee Row~~e~~
4 case, where they conducted the CRP prior to having a full
5 decommissioning plan in place, that was a violation of NEPA.

6 We believe and we contend and are waiting to give
7 opportunity that the Hobbs Act ~~enforces~~forces us to wait
8 for, to challenge the regulations, because we think the rule
9 that you made is illegal. We think that you'll have to have
10 a large ~~DOD-commissioning~~decommissioning plan in place up
11 front, at the beginning of the decommissioning process; that
12 that's what it means to comply with NEPA and that almost
13 every federal agency of the United States Government that
14 tries to carry out its charge to comply with NEPA manages to
15 do something quite like that. And it's the agency -- ever
16 since Calvert Cliffs, it never, ever learns.

17 We think that the way that you backed into this,
18 put in the consideration process the potential for a real
19 public hearing under Subpart G to the license
20 ~~determination~~termination phase is a slap in the face of the
21 people, who enacted that statute, and we just want to let
22 you know that that's our position. And if your legal staff
23 is here, I suggest they review the pages that I cited,
24 because we think that if we ever get our chang~~e~~ in the 1st
25 Circuit, that the 1st Circuit will stand behind what it

1 says, because it ridiculed the logic that you use to
2 authorize the ~~CR~~~~PL~~TRP at Rowe, which is essentially early
3 component removal or what you call dismantlement.

4 MR. CAMERON: Okay, thank you, Jonathan, for that
5 particular comment, which I don't think needs a response
6 now. But, I think that, again, emphasizing -- I don't know
7 if that particular issue will ever be addressed in the -- as
8 a result of the generic environmental impact statement.
9 But, it is possible -- I would ask a question to Dino, is it
10 possible that based on the types of impacts that you find,
11 that the NRC might change either its substantive rules or
12 procedural rules?

13 MR. SCALETTI: Possibly, but, you know, right now
14 -- again, we're very early in the process and right now, you
15 know, we're --

16 MR. CAMERON: Okay.

17 MR. SCALETTI: -- this is a discovery process.
18 We're looking for information.

19 MR. CAMERON: So, Jonathan's comment could be
20 relevant to future changes?

21 MR. SCALETTI: And I saw our legal counsel writing
22 notes very rapidly on this.

23 MR. CAMERON: All right. Ray?

24 MR. SHAVDIS: Just a procedural thing here --

25 MR. CAMERON: Ray Shavdis.

1 MR. SHAVDIS: I'm sorry. My name is Raymond
2 Shavdis, S-H-A-V-D-I-S. I'm with the New England Coalition
3 on Nuclear Pollution and I am, also, a member of the
4 Community Advisory Panel on Maine Yankee's decommissioning,
5 and it's just a procedural thing. Topically, we're talking
6 about the structure of the generic environmental impact
7 statement, so I think comments regarding what people's
8 concerns may be, such as that offered by Mr. LaGuardia,
9 they're out of place. That's a discussion for when we get
10 into the specific subject areas of concern. But, I just --
11 I need to respond to that, in that when -- I believe when
12 NEPA was originally drafted, that the intention of the
13 drafters of NEPA were -- was, in part, the community issues
14 be addressed, the community impacts be addressed. And in
15 the generic environmental impact statement, I find that
16 aspect limited and I'm talking specifically on the effects
17 on human beings that have to live with the decommissioning
18 and decommissioning process. So, maybe there are some areas
19 that are not totally wrapped up by your generic
20 environmental impact statement. Thank you.

21 MR. CAMERON: I think that's a legitimate point
22 and I think we need to go back to that when we get down to
23 Eva's presentation. Are we ready to go to Eva, at this
24 point? It doesn't look like there's any more questions
25 right now. Why don't we go to Eva? And thank you, very

1 much, Dino. This is Eva Hickey from Pacific Northwest
2 Laboratory.

3 MS. HICKEY: Good evening. My name is Eva Eckert
4 Hickey and I am the team leader with the Pacific Northwest
5 National Laboratory multidisciplinary team for the
6 development of the supplement of the generic environmental
7 impact statement. I'd like to let you know that we have
8 several -- many of our team members here in the audience
9 tonight. Our team is made up of hydro geologists,
10 ecologists, socioeconomic experts, cost experts,
11 radiological health experts, and several other people in the
12 field that will be helping us with this impact statement.

13 For the next few minutes, what I'd like to do is
14 discuss decommissioning in general. I'll give you some
15 background information of the process of decommissioning and
16 how the NRC regulations relate to that process; and then I'm
17 going to discuss the methods of decommissioning for a few
18 minutes, the activities that we have seen occurring during
19 decommissioning; and then I'll follow that with the
20 experiences that we've seen from and the environmental
21 impacts that have been associated with decommissioning.

22 So to begin with, I'd like to talk about what the
23 definition of decommissioning is. And as you can see up
24 here, it's the process of safely removing a facility from
25 service, followed by reducing residual radioactivity to a

1 level that permits termination of the NRC license. This
2 definition is key to this generic environmental impact
3 statement, because we are talking specifically about the
4 removal of radioactive material. So when we talk about the
5 environmental impacts from that removal, we will be talking
6 about impacts that may not be just radiological, and I'll
7 talk about those later. But, we are talking about the
8 socioeconomic impacts. We are talking about noise, the
9 ecology, the hydrology. So, we are not limited to just the
10 radiological impacts. However, those impacts have to be
11 associated with the removal of radioactive material. And
12 I'll try to continue to clarify that, as we talk.

13 So, a little bit of the background on
14 decommissioning. I think some of this has come out so far.
15 In 1988, when the original GEIS was published, at that time,
16 decommissioning regulations required that at the end of the
17 life, a reactor licensee had to submit a comprehensive
18 decommissioning plan. By the mid-1990s, NRC had reassessed
19 the value of that detailed decommissioning plan, based on
20 experience that they were seeing with the licensees that
21 were going through decommissioning. The experience showed
22 that decommissioning was not really like construction of a
23 facility, where a plan was laid out and specifically
24 followed. Instead, there were two things that were noted
25 during decommissioning that took place early in the 1990s.

1 First, early in the decommissioning process,
2 especially if the plant ceased operations early, which is
3 what we have seen in the last several years, the licensee
4 could not really be too specific on the activities that
5 would be employed during decommissioning very early on in
6 the process. And secondly, the activities that were seen
7 being conducted were not that different than those during
8 operations at the reactor. For these reasons, NRC
9 determined that it was not necessary to have the detailed
10 decommissioning plan that had earlier been required.

11 So with that, let me talk a little bit about what
12 the current decommissioning process is now that NRC has
13 provided a new set of regulations. First, early in the
14 process of decommissioning, the licensee is required to make
15 two certifications, as well as providing the post-shutdown
16 activities report that was mentioned earlier. The first
17 certification is that operations of that facility -- of that
18 plant has permanently ceased. This means that the licensee
19 does not ever plan to operate that facility again. The
20 second certification occurs after the fuel has been removed
21 from the reactor vessel. These certifications are
22 irreversible and the licensee may not load fuel back into
23 that reactor vessel once these certifications have been
24 made.

25 Now, the next thing that will happen early in the

1 process is that a post-shutdown decommissioning activities
2 report, a PSDAR, will be submitted. I'm going to talk more
3 about this report, what's in it and the purpose of it later
4 on; but just generally, it provides a description of the
5 decommissioning activities, a schedule of those activities,
6 an estimate of the costs, and it talks, in general terms,
7 about the environmental impact. The PSDAR is required to be
8 submitted two years after the decision to permanently cease
9 operating.

10 Also, within two years of permanently ceasing
11 operations, the licensee must submit a site specific cost
12 estimate. The cost estimate is used to compare against the
13 decommissioning plans that the licensee has been required to
14 establish, to determine whether they will have sufficient
15 funds to complete the decommissioning process. Following
16 the submittal of the PSDAR, the licensee is able to begin
17 major decommissioning activities, including either immediate
18 decontamination and dismantlement of the reactor, or placing
19 the facility in long-term storage followed by subsequent
20 dismantlement. I'll talk more later about the methods and
21 the options for decommissioning.

22 Within two years of completing the decommissioning
23 process, the licensee submits a license termination plan.
24 This license termination plan includes a complete
25 characterization of the site and the residual amounts of

1 contamination. It identifies the remaining activities that
2 must be completed to complete decommissioning and it talks
3 about the plans for site remediation. It, also, discusses
4 the detailed plans for the final survey of residual
5 contamination and it describes an end of use at the site.
6 And, finally, it provides an additional site specific cost
7 estimate. And, at this point in time, there is a supplement
8 to the environmental report.

9 After NRC review and the final survey of residual
10 contamination is completed and if it's determined that
11 appropriate criteria has been met, then the license will be
12 terminated and, at that point in time, NRC will not have any
13 more oversight over that plant.

14 Okay. Let's get back and talk a little bit more
15 about the post-shutdown decommissioning activities report.
16 As I mentioned earlier, the document must be submitted
17 within two years of a decision to permanently cease
18 operations. As was mentioned, it does not have to be a
19 lengthy report. It does provide a description of the
20 planned decommissioning activities and it provides a
21 schedule for meeting those activities -- for completing
22 those activities. It has a site estimate of the cost for
23 decommissioning and it does have a discussion of the
24 environmental impacts, specifically whether the impacts from
25 the decommissioning process are within the bounds of current

1 environmental reports or the GEIS. The PSDAR is, in fact, a
2 summary description and major decommissioning activities are
3 not to be started until the PSDAR is submitted.

4 Now, I'd like to discuss a little bit what the
5 purpose behind the PSDAR is. It provides a brief overview
6 on how a facility proposes to complete the decommissioning.
7 And because it is not the detailed decommissioning plan that
8 had previously been required, by giving the schedule, it
9 allows for NRC to determine when they need to make their
10 safety inspections prior to any major decommissioning
11 activities being performed. And it, also, allows, because
12 of the schedule of milestones, for NRC to allocate the
13 appropriate resources to be performing their oversight. It
14 allows the licensee to take another look at the situation
15 and resources prior to starting the major decommissioning
16 activities. And, finally, it ensures that based on the
17 current planning for decommissioning, the licensee is within
18 the environmental impacts or they must identify the
19 environmental impacts that may not have previously been
20 considered.

21 Okay, next, I'd like to talk a little bit about
22 the methods of decommissioning. We have four of them listed
23 up here: DECON, SAFSTOR, a combination of DECON and
24 SAFSTOR, and ENTOMB. After I complete this discussion, then
25 I'll talk a little bit about the environmental impacts from

1 the methods of DECON, SAFSTOR, and a combination of the two.

2 NRC originally envisioned three methods: DECON,
3 SAFSTOR, and ENTOMB. I'm going to focus primarily on the
4 first two methods. That's where we have our information.
5 When the original GEIS was written, ENTOMB was considered
6 not to be a viable option, because the regulations require
7 that decommissioning must be completed within 60 years. And
8 the process of ENTOMB is to take the radioactive structures,
9 encase them in a structure with a substance, such as
10 concrete, and then to leave the facility standing as is.
11 So, it would not be decommissioned within 60 years. We will
12 be considering in the supplemental GEIS entombment.

13 As industry has gained experience in
14 decommissioning, it's obvious that most plants use a
15 combination of SAFSTOR and DECON methods, rather than just
16 adhering to one method; so, they are not really distinctive.
17 That's why we have the combination.

18 Next, I'll talk about DECON and the activities
19 that are performed during DECON. First are the
20 decontamination activities. That's removal of contamination
21 from systems, structures, and, also, the removal of large
22 radioactive components. It includes dismantlement, which is
23 the removal of piping and other generally smaller
24 components. And it may, also, include removal of buildings,
25 although in some cases, licensees are decontaminating

1 buildings and reusing them for energy production facilities
2 or just leaving them in place. Transportation of waste to a
3 storage facility is, also, one of the very important
4 activities during DECON.

5 During SAFSTOR, this method involves placing the
6 facility in a safe and a stable condition and such that it
7 can be maintained until the facility is subsequently
8 decontaminated and dismantled. The process has the
9 advantage that during the storage period, the radioactive
10 materials in the facility are decaying and -- which reduces
11 the amount of radiological materials that must be removed
12 from the plant and, also, would reduce worker exposure
13 during the decontamination and dismantlement. However,
14 since NRC has put a limit on the time that decommissioning
15 must be completed, SAFSTOR and the subsequent dismantlement
16 must be completed within 60 years of the plant ceasing
17 operation.

18 Activities that take place during SAFSTOR include
19 preparation of the storage, such as deactivation of systems,
20 draining and flushing of plant systems, and performance of
21 radiological assessments. During the storage period, the
22 licensee conducts preventive and corrective maintenance and
23 maintains the structural integrity of the facility. And as
24 I said before, following SAFSTOR, then the facility is
25 decontaminated and dismantled.

1 I'd like to look briefly at the reactors that we
2 have experience with of decommissioning now. There have
3 been 23 -- I mean, 21 reactors that have shut down between
4 1963 and 1998. Two of those reactors have completed
5 decommissioning and had their licenses terminated. There
6 are six that are currently undergoing decontamination and
7 dismantlement. There are nine reactors that are currently
8 in long-term storage and there are four that are planning a
9 combination of long-term storage and DECON dismantlement.

10 Ray SHADIS: How many have submitted license
11 termination plans and how many were accepted? I would think
12 that was an important thing to include on that slide.

13 MR. MASNICK: Let's see, do we have -- we have the
14 license termination plans submitted from Trojan, which has
15 been accepted for review, but not approved yet or
16 disapproved. I believe we just recently transmitted a
17 request for additional information for Trojan. The second
18 one is Saxton, which has come in and we've -- have we
19 accepted Saxton? Yes. Okay, we've accept -- we've done an
20 acceptance review on Saxton. And then the third is Maine
21 Yankee, which we have, also, done an acceptance review. I
22 believe that's it, at the present time. So, there are three
23 in-house, but none have been -- there have -- none have
24 resulted in a license termination.

25 MR. CAMERON: Okay.

1 MS. HICKEY: Okay. Briefly, these reactors that
2 have shut down is eight boiling water reactors. Ten are
3 pressurized reactors. There are three other types. And
4 these 21 reactors are between 23 megawatt thermal, which is
5 a very small reactor, up to 3,411 megawatt thermal, which is
6 a fairly large size facility. The two facilities that have
7 been -- completed decommissioning are ~~Ft.~~Fort St. Vrain in
8 Colorado and ~~Shorum~~Shoreham, which was in New York and it
9 was only operating for one day.

10 Okay, finally, discussing decommissioning, I'd
11 like to talk just a minute about the license termination
12 process. This is the final part of the process and a
13 license termination plan, which was mentioned, must be
14 submitted two years prior to the expectation for the end of
15 the license. At this point in time, the licensee will
16 develop a site specific environmental report and there will
17 be a discussion of how any radioactive contamination will be
18 dealt with, including contaminated soil or dirt.

19 The licensee will do a final radiation survey,
20 using techniques and methods that have been developed by the
21 NRC and the survey will be reviewed and verified by NRC. In
22 order for the license to be terminated, the NRC must be
23 assured that the dose to the public is below a specific
24 stated require -- criteria. This process, license
25 termination, is addressed in another generic environmental

1 impact statement, which we discussed earlier. After the
2 process is completed, the NRC will terminate the license.

3 With that, I'd like to discuss just very briefly
4 the type of environmental impacts that we will be looking at
5 and I'd like you to remember that what we are doing here
6 tonight is scoping. So, we've addressed some of the impacts
7 that we envision assessing; however, we are looking for your
8 comments as to whether there are additional impacts that we
9 need to be looking at. I'm not going to go through the list
10 specifically up here; but like I mentioned earlier, we are
11 looking at impacts, whether they be radiological or non-
12 radiological from the removal of radiological material.
13 Also, what we would be doing, as we do our environmental
14 assessment, is we will be looking at how the plants are
15 different; the differences between a BWR, a PWR, the
16 location of the facility, how long it operated, operating
17 history and experience. All of those areas will be taken
18 into consideration, as we address the impacts -- the
19 environmental impacts of decommissioning.

20 As was mentioned earlier, written comments on the
21 scoping will be taken until July 15th; appears the address
22 where your written comments can be submitted. Dino Scaletti
23 is the point of contact. And now, I'd like to turn it over,
24 because we're really interested in finding out what you have
25 to say.

1 MR. CAMERON: Okay. We have a few questions, I
2 think, from before that are still relevant here. I think
3 that Jonathan Block put a fine point on Rosemary's comment
4 about the need for an environmental impact statement at the
5 PSDAR stage. But, let's go to -- Deb Katz's question, I
6 think, was do we have any idea of the specific types of
7 impacts that are not engulfed by the prior GEIS and then
8 we'll go to Ray Shavdis on certain types of community
9 impacts and have him go into more of that. Debbie, did I
10 phrase your -- frame your question correctly?

11 MS. KATZ: Good enough.

12 MR. CAMERON: Okay. Eva, do you understand what
13 the question is?

14 MS. HICKEY: Would you repeat the question again?

15 MR. CAMERON: What types of -- do we have any idea
16 of what -- let me have you --

17 MS. KATZ: Okay. I mean, you have a list of sites
18 that you decommissioned up there or in the process.

19 MS. HICKEY: Right.

20 MS. KATZ: Is the great knowledge you gain from
21 that --

22 MS. HICKEY: That's correct.

23 MS. KATZ: There have been then certain things
24 that would trigger a site specific environmental impact
25 study that you would gain from this process. What I'm

1 trying to understand is what would trigger what your
2 thinking, at this point? I'm not trying to hold you to
3 anything.

4 MS. HICKEY: Okay. Yeah, let me try to explain
5 what we're doing in this environmental impact statement.
6 What we're doing in this scoping process right now is trying
7 to put some balance around those impacts and we will not be
8 identifying the acceptability of those impacts. But, if a
9 licensee falls within those impacts, then they do not need
10 to make any additional environmental assessments. If they
11 fall outside of those impacts, then they will need to make -
12 -

13 MS. KATZ: Well, I'm trying to get you to clarify
14 what you think are some of those impacts that they could
15 fall outside of -- I mean, from the experience you've had at
16 the reactors that you've been involved with.

17 MS. HICKEY: Okay. Well, Mike, do you want to --

18 MR. ~~MASNICK~~Masnik: Yes.

19 MR. CAMERON: Mike Masnick for clarification.

20 MR. MASNICK: Debbie, I think what we've seen is
21 that to some extent, the GEIS in 1988 has driven the
22 licensees to perform the decommissioning at a -- in a very
23 specific manner, and the reason is --for example, we came
24 out with some estimates there, and I'll give you an example
25 of man rem exposure. We said that a typical thousand

1 megawatt PWR would incur, I don't know, maybe -- I think
2 1,400 person rem of exposure for cleanup. That essentially
3 establishes an envelope and what we have found is the
4 licensees have now said, okay, that's a limit, in a sense,
5 and as long as they stay below that limit, everything is
6 fine. In fact, we were told the other day that a licensee
7 deliberately did an additional type of cleanup, a full flush
8 DECON, just because they were getting close to that limit
9 and that's why they -- that's the way they went.

10 Now, what we want to do is based on that number --
11 that 1,400 man rem was based on some pretty good guesses
12 that we did back in 1988 and to be honest with you, we did
13 not have very much in the way of empirical data. So, now,
14 we have, you know, 12 years worth of experience and we think
15 that number is going to change and we think that the number
16 is going to change downward.

17 MR. CAMERON: Deb, let's make sure we get this
18 comment on the record.

19 MS. KATZ: I'm not just limiting it to man rem.

20 MR. MASNICK: Well, I'm not either.

21 MS. KATZ: For example, there is contamination on
22 the site boundary at many reactor sites. What would trigger
23 a NEPA reaction, in which there is an environmental
24 assessment done, based on contamination in pools that have,
25 in fact, gone under reactor sites. It's not just so much

1 man rem; I'm talking about contamination that can affect
2 communities.

3 MR. CAMERON: While you're answering that, I think
4 we're going to go to Becky Hardt, to offer some more on
5 this. But, do you have any answer to that, Mike?

6 MR. MASNIER: Go ahead and let's see what Becky
7 has to say.

8 MS. HARDT: I'm Becky Hardt. I'm the project
9 manager from PNL. Debbie, you know, I was going to like
10 shut down, because I thought we weren't answering your
11 question and so the question -- or the response I have, I
12 don't know if it's going to answer it or not, but there are
13 certain things that we know are site specific at specific
14 facilities. Things like threatened and endangered species,
15 that's not going to be generic. That's going to be
16 something specific at each facility. Another one is the
17 cultural impacts, if there is anything cultural, historical
18 information, or archaeological, that will be specific at
19 facilities.

20 And, also, I want you to be aware that we haven't
21 conducted all of our environmental analysis yet and so we're
22 not really prepared to talk about what those impacts are.
23 We are still early in the process.

24 MR. CAMERON: We might circle back to this. And
25 Ray, you -- Debbie mentioned the word "community" and that's

1 where you started. Can you tell us what your point was? I
2 don't know if it coincides with Deb's or not.

3 MR. SHA~~V~~D~~I~~S: I'm not sure.

4 MR. CAMERON: Ray Sha~~V~~d~~I~~s.

5 MR. SHA~~V~~D~~I~~S: No, the process is ass backwards.
6 You start out with this how I intend to spend my next summer
7 on the coast sort of essay of 15, 16, 18 pages. Maine
8 Yankee has gone three weeks after they announced that they
9 were going to defuel. I mean, how deep could it be? How
10 much information could you possibly wring from that little
11 pistol.

12 And now, we start into this process of looking for
13 a decommissioning contractor and then we lock ourselves into
14 a fixed price contract, in the case of Maine Yankee. And
15 now we start trying to adjust elbow room here for what we're
16 going to do environmentally. And at some point way down the
17 road, the community, which, in our case, reaches out to the
18 states -- since we're a very small state, we regard
19 ourselves as a community at large -- the community becomes
20 aware of what's going on. State agencies become involved
21 and they want to know about chemical contamination on the
22 site. They want to know about residual radiation. They
23 want to know about risk levels. They want to know whether
24 or not there is off-site contamination. They want to know
25 about the partial release of portions at the site for other

1 use. All of these kinds of community concerns come in, you
2 know. I see NRC combining Part 50, Part 72 transition, so
3 that you sort of slide into having an -- before you even
4 know it. And, of course, there's no federal action, because
5 it's under licensing.

6 And so, all of this stacks up and then -- and then
7 two years before we're all done, toward the end of the
8 process, then you have a license termination plan, such as
9 it is. And I have had one utility ~~see~~CEO -- laugh about how
10 trivial there license termination plan was, laugh about.
11 You have that then dropped on the community and it is -- you
12 know, 30 days after that thing is dropped, it's a fait
13 complit. If you don't wade in there with legal and
14 technical expertise to challenge it on some specific point
15 of law, not whether they sense, but some specific NRC
16 regulation, you're out of the ballpark. It's the absolute
17 totally wrong way to go.

18 The first step, when a company makes the decision
19 to shut down, is NRC doesn't need permission to say, oh, we
20 need a schedule, so we can figure out when to do some
21 inspections. NRC needs to go in and do an autopsy on that
22 plant, find out what material degradation has taken place in
23 the plant, how well it was in materially and physically
24 managed, whether or not the maintenance was done. We need
25 to examine the materials, to determine their deterioration.

1 In the case of Yankee Rowe, the question of a reactor vessel
2 embrittlement is still up in the air.

3 That's what NRC needs to do. Why? So that you
4 can apply lessons learned for other power plants and you can
5 predict -- we're definitely going to be in the loop. And
6 then -- and then the company needs to do a full plan and
7 assessment for how they hope to do decommissioning and open
8 that to the community. And we need NRC going in ringing
9 bells to wake up the community to the fact that there's a
10 major event that is going to take place here. Then, you can
11 work your way down. And I think maybe at the end, you can
12 submit your little summary paper.

13 But, that's -- I'm giving you the point of view
14 from a citizen involved in this thing intimately, grappling
15 with this decommissioning from the get go at Maine Yankee.
16 And what we're finding is the company, itself, is
17 regretting, at this point, that we didn't settle
18 environmental issues at the front end; and now after
19 investment and now after time, that we have to go back and
20 revisit these things. So, that's -- I just want to offer
21 that as -- it's our point of view.

22 MR. CAMERON: Okay. Thank you, very much, Ray.
23 We're going to go over to Stu for a comment.

24 MR. RICHARDS: I just want to respond to Ms.
25 Katz's comment about the materials spreading out beyond

1 site. I don't think that's covered under the GEIS. I think
2 that's covered under the -- you know, the regulations we
3 have for site release. And I guess the most I can say, when
4 a licensee goes into decommissioning, they're required to
5 characterize the site. They're required to go back and look
6 at the amount of contamination that's been introduced into
7 the soils, as best I can. And based on that site
8 characterization, then they have to go forward and
9 demonstrate how we're going to -- you know, the least --

10 I think what we're talking about here tonight is
11 the environmental impacts of carrying out those activities
12 to decontaminate the site and to remove radioactive
13 material. So, it's a little bit different category. Of
14 course, they are required, again, to characterize the site.

15 MR. CAMERON: Okay. I don't want to belabor this,
16 but let me go over to you guys for clarification and then we
17 have Tim and this young lady here, then we'll go back to the
18 State of Maine.

19 MS. BASSILAKIS: Rosemary Bassilakis, again. I
20 think what Deb Katz is referring to is the material that's
21 been deposited offsite, off the licensee's site, the routine
22 releases that have accumulated in the environment and non-
23 routine accidental spills, leaks, discharges of all types,
24 that have gotten into -- up at Rowe, contaminated offsite;
25 at Yankee, in the discharge canal, pools -- huge pools of

1 activity under the site, at this point, still, you know --
2 100,000 pico curries per liter -- things like that. From
3 what we understand, if the licensee created this offsite
4 contamination via routine, you know, discharges, they don't
5 have to clean it up. But, that might not be the case --
6 even if that was the case, we think that's unacceptable; but
7 even if that wasn't the case -- I mean, where is this
8 getting addressed?

9 MR. CAMERON: Okay. So, the point is not the
10 deliberate cleanup of the site, to try to get it down to the
11 NRC regulations; but the point is, is that offsite
12 contamination that might have resulted from releases that
13 might have met the regulations or issues that people don't
14 know about. Michael, do you want to say a final word on
15 that?

16 MR. MASNICK: Well, I was going to say maybe Ron
17 Bellamy would like to answer that question.

18 MR. CAMERON: You know, you're very helpful;
19 you're very helpful. But, I -- and Ron, of course, explain,
20 like, what your job is, so people understand your
21 perspective.

22 MR. BELLAMY: I'm Ron Bellamy. I'm with the NRC's
23 regional office. I'm chief of the decommissioning branch
24 there and all of the onsite inspections that are done at the
25 four plants in the Northeast during the decommissioning are

1 under my management supervision.

2 Rosemary, we've had this discussion. I think what
3 you want us to say and what we've got to say is that
4 effluent -- normal releases during the rest of the plant's
5 life time that were done within our regulations are not part
6 of the decommissioning process. As you know, ~~Hadaneck~~~~Haddan~~
7 ~~Neck~~ has taken a very strong outreach program with the
8 community and they have contacted everybody they can and,
9 you know, you've heard their management say, anybody that
10 wants material out there brought back to the site, we'll
11 bring it back to the site and they've done that. But,
12 that's just out of the goodness of their heart. There's no
13 NRC requirement or regulation to do that.

14 [Off mic.]

15 MR. BELLAMY: What Sal's comments is, that there
16 were some illegal releases of radioactive material during
17 the plant's operation. And it's really tough to use the word
18 "illegal" here. We've seen -- we've seen a significant
19 increase in the quality of measurement techniques for these
20 radioactive blocks that are offsite. Those -- there were
21 some blocks released offsite that shouldn't have been
22 released offsite. You're absolutely right. And those that
23 have been identified are being brought back to the site for
24 disposal.

25 MR. MASNICK: I just might add one other thing and

1 that is that remember when these plants were licensed, there
2 was an environmental impact statement that looked at routine
3 releases and that evaluated those releases. So, that
4 particular impact has been evaluated.

5 MR. CAMERON: I realize this is an important issue
6 that we're talking about here, but I think we're going to
7 move on to get back on scope; then, we can come back to this
8 issue. I want to make sure that Tim and -- we'll go to you
9 first. Okay, Tim?

10 MR. JUDSON: I had a couple of questions about the
11 presentation that Eva gave, but first I want to just sort
12 of, you know, address something that, you know, that should
13 have been -- you know, I think beneath the surface of the
14 exchange we just had, which is the NRC's notion of the site
15 boundary, you know, as though there is this fence they just
16 built that somehow magically keeps contamination within that
17 area and that the utility doesn't have to address, you know,
18 how contamination gets outside of it at the get go. And I
19 think this has left -- you know, Mr. Sha~~v~~^dis was talking
20 about, in terms of the process being ass backwards, you
21 know, is that you only deal with those, you know, instances
22 or processes of contamination. That is truly a significant,
23 you know, piece of what goes on, in terms of -- you know,
24 what affect these things have on the community.

25 Now, going back to Eva's presentation on the

1 decommissioning process, that slide, and you refer to, you
2 know, the experience thus far in decommissioning and two of
3 the qualities of that. One of this has been that when
4 plants -- you know, reactors are shut down early, that that
5 has, you know, made it difficult for the licensees to comply
6 with the other requirements with the PSDAR that they did --
7 that they do, you know, a two-year plan before the reactor
8 shuts down. You know, that has somehow compromised their
9 ability to comply with the way the regulations are written.
10 And, you know, I've actually -- we've actually heard this --
11 this, also, presented by -- you know, in another forum.

12 MS. HICKEY: Okay, let me clarify. I didn't mean
13 to imply that. What I meant to imply -- say was that when
14 a plant shuts down early, prior to when it was expecting for
15 its license to be terminated, it probably has not done the
16 pre-planning for decommissioning that it would, if it knows
17 five years from now it's going to be -- its license is going
18 to be terminated and it's going to be going into
19 decommission. They start thinking about a plan. There are
20 several plants out there that have been shut down typically
21 to do some sort of modification and they just make a
22 decision not to reopen. The planning has not been performed
23 until that decision has been made.

24 MR. JUDSON: I'm going to rephrase it, because
25 this is exactly sort of what I'm talking about, is that

1 implicit in that description seems to be just a notion that
2 as soon as the plant shuts down, the decommissioning process
3 needs to begin. And, you know, reactors, you know, shut
4 down, you know, for periods of years at a time to do
5 maintenance and then go back on line, you know, without any
6 need to -- you know, to begin a decommissioning process or
7 some other sort of licensing process. And so, we're
8 wondering why there's this assumption that when a reactor
9 shuts down, you know, early, that this has somehow
10 interfered with its ability, you know, to go into, you know,
11 a three-year planning of years for a PSDAR, and why that --
12 why it isn't the NRC's default action is to require a period
13 of SAFSTOR, in which the licensee does that thorough
14 planning for decommissioning.

15 MR. CAMERON: Okay. Thank you, Tim. And I'm
16 keeping a list of everybody who wants to talk, which is
17 almost all I can see at this time. But, let's -- do you
18 have anything to add?

19 MR. MASNICK: Yeah. I was going to say I think
20 that was a good comment.

21 MR. CAMERON: All right. Okay, yes? And if you
22 could get just give your name.

23 MS. FLYNN-JAMBECK: My name is Katie Flynn-
24 Jambeck, Citizen's Awareness Network. I have a further
25 question about the process of this -- the environmental

1 impact statement would address the site. The generic
2 environmental impact statement would address the
3 decommissioning plan or decommissioning process? It seems
4 curious to me that without a decommissioning plan, what
5 exactly are you determining?

6 MS. HICKEY: Well, what we are doing is looking at
7 the specific activities that are conducted during
8 decommissioning. We're gathering data from those activities
9 and making -- analyzing the environmental impacts from those
10 activities.

11 MS. FLYNN-JAMBECK: So, it would be after the
12 fact?

13 MS. HICKEY: Pardon me?

14 MS. FLYNN-JAMBECK: After the fact? When would
15 the finished document be used?

16 MS. HICKEY: Okay, that's -- okay. I understand
17 your question. That's a good point. From the licensee's
18 perspective, that document can be used and should be used
19 from the time the decision is made to permanently cease
20 operations, because every activity that they --

21 MS. FLYNN-JAMBECK: Used to do what?

22 MS. HICKEY: Pardon me?

23 MS. FLYNN-JAMBECK: Used in what way?

24 MS. HICKEY: Okay.

25 MR. MASNICK: Eva?

1 MS. HICKEY: Okay, go ahead.

2 MR. MASNI~~E~~K: Let me tell you that decommissioning
3 is a series of activities or changes to the facility over
4 time, that result in basically -- of the radiological -- I
5 mean, that's kind of a generalized, this definition. But
6 those changes to the facility result is someone going out
7 and doing something. They're removing pumps. They're
8 processing material. Each time a licensee does that, they
9 typically -- well, not typically, but they're required to --
10 if they make a major change to the facility, they have to
11 look at what the impact of that change will be on that
12 facility. Now, there's a safety component that's required;
13 but there's, also, in the procedures that the plants have, a
14 requirement for them to look at whether or not that
15 particular action will exceed any of the previously issue
16 ~~of~~ environmental assessments associated with that facility.

17 Operating plants do this on a routine basis. We
18 go -- our inspectors go out and we look -- a plant might
19 have 50 or 60 significant changes during the year and, you
20 know, the steam generator removal, a major component removal
21 during decommissioning, and what we see in there is some
22 screening documents, and they look at a lot of things. They
23 look at whether or not it's an increase, for example, of a
24 possibility of fire at the facility. They look at --

25 MS. FLYNN-JAMBECK: Are they still allowed to go

1 forward?

2 MR. MASNICK: Well, if they identify that there is
3 a problem -- and let's look at the environmental, since
4 we're talking about it tonight. Let's say they are going to
5 generate a certain amount of release. If that waste is in
6 excess of what was predicted in previous environmental
7 assessments as being acceptable, they will stop that and
8 then they'll reevaluate it and they can't -- they can't
9 essentially take that action.

10 MS. FLYNN-JAMBECK: They can't essentially or they
11 can?

12 MR. MASNICK: Well, they cannot, okay. But, what
13 will happen is --

14 MS. FLYNN-JAMBECK: They can or they can't?

15 MR. MASNICK: They cannot, okay. The review
16 process would end there for the licensee. And they may --
17 they may have a work around; you know, maybe it's volume
18 over time. Maybe they'll wait. Maybe they'll look at it.
19 If it's an exposure issue, maybe they'll figure out a
20 different way of doing the job to reduce the exposure. We
21 come back -- the NRC comes back and we look at those
22 evaluations. And that's one of the things -- for example,
23 when I go to a plant and I check these changes, it's one of
24 the things I look for. So, there is some utilization of
25 that assessment for that particular activity.

1 MS. FLYNN-JAMBECK: It seems a little bit more
2 like license termination. When you have a license
3 termination plan, you have (a) a plan; and (b) environmental
4 impact statement to accept the plan. And it seems to me in
5 this process, the missing component is the decommissioning
6 plan.

7 MR. MASNIEK: Well --

8 MS. FLYNN-JAMBECK: Otherwise, it's kind of just
9 touch and go.

10 MR. MASNIEK: Let me --

11 MS. FLYNN-JAMBECK: I mean, do you --

12 MR. MASNIEK: Let me just -- let me talk about
13 that a little bit.

14 MS. FLYNN-JAMBECK: -- why it's now not part of
15 the process.

16 MR. MASNIEK: Okay.

17 MS. FLYNN-JAMBECK: You're saying before it was
18 there and it was used in the planning document, used in the
19 environmental impact statements. Why did you remove it?

20 MR. MASNIEK: Let me talk a little bit about that.
21 You know, I used to do decommissioning plan reviews. In
22 fact, I was the project manager for the Trojan plant and we
23 did get a decommissioning plan and we reviewed it. I spent
24 a good part of one year of my life doing that review. The
25 problem I saw immediately was that that plan was very, very

1 tentative and sketchy in the fact that a lot of the details
2 that we all expected weren't really in that plan. And one
3 of the reasons why those details aren't in there is because
4 that -- at the time that that document is submitted, many of
5 those things aren't worked out, okay.

6 The other thing we found out was that the majority
7 of those actions that occurred were the kinds of things we
8 see on a daily basis at nuclear power plants, okay --
9 removal of pumps. Even things like steam generators, which
10 are massive components, those things are done on,
11 unfortunately, a more or less routine basis. It became
12 apparent to me and to the NRC staff and certainly to the
13 industry that these documents really didn't result in us
14 making any determinations that improved safety or even
15 impacted to a great extent.

16 If we looked at the environmental aspects of these
17 things, they were very -- you know, the licensee had to
18 submit an environmental report -- an update to their
19 environmental report, under the old regulations, and those -
20 - that environmental report basically carted back what we
21 had with the GEIS. There was nothing really new or
22 different in there.

23 And I think from our perspective, we said, gee,
24 here's the process that really didn't add a lot, from the
25 standpoint of public health and safety; involved a

1 tremendous amount of resources on our part, to review and
2 approve this things; and gave us a document that was not a
3 living document. I mean, the licensee -- as decommissioning
4 goes on, they have a tendency to change the process,
5 depending on new technology, depending on the availability
6 of money, depending on a number of other factors. So,
7 again, you know, to do this massive review, at one point in
8 time, from our perspective did not seem to indicate any
9 significant improvement over health and safety.

10 MR. CAMERON: And Katie, do you want to make a --

11 MR. MASNICK: Let me just finish one last thing.
12 The one mistake we made was we made the PSDAR a requirement
13 at two years, because what that did was it made all -- the
14 PSDAR was a substitute for the decommissioning plan, and it
15 is not. It is clearly not. The PSDAR, as you've said, is a
16 document that's used for us to do planning. It was a -- we
17 wanted the licensee to say, hey, before you actually get
18 started on this thing, look at how much money you have and
19 make sure that you have enough money, if you're going to get
20 involved in DECON or have enough to do the job safely within
21 the time period that you expect.

22 The PSDAR was not submitted -- it's not submitted
23 on the part of the licensee for a review. But what we
24 wanted was the licensee to go out and say, okay, now that
25 you've decided what you plan to do, just make sure that it

1 falls within the envelope of what you considered before,
2 okay, and basically give us a certification, because that's
3 what it is. Now, as Steve identified earlier -- or talked
4 about earlier, we look behind that certification. We go out
5 to the site and say, okay, you've made this statement that
6 you are within the bounds of the previous documents --
7 previous assessments, show us how you do that or how you
8 came to that conclusion. And we look at their environmental
9 outputs that they have on site. We document that during the
10 inspection.

11 MR. CAMERON: Katie, you have a final point?

12 MS. FLYNN-JAMBECK: It seems that you do go
13 through all of these steps when you're doing license
14 termination. You do require a license termination plan that
15 requires similar -- a similar process up front. And kind of
16 what I heard you say is that we asked them for it, they did
17 not do it well, and so we stopped asking them.

18 MR. MASNIEK: No, I didn't say --

19 MS. FLYNN-JAMBECK: No, that's my --

20 MR. MASNIEK: I didn't say that we didn't do it
21 well.

22 MS. FLYNN-JAMBECK: Not that you didn't do it
23 well, but they were not able --

24 MR. MASNIEK: That a lot of the decisions that are
25 made early on like that are early decisions. Now, when we

1 get to the license termination stage, I mean, we're
2 supposedly close to the conclusion of the actual
3 decommissioning process.

4 MS. FLYNN-JAMBECK: It seems though that you could
5 have a plan that would be amended when changes were made in
6 other forums and public hearings, similar to what you do
7 with the license termination plan, where you do require an
8 up-front methodology that needs to be approved, that there
9 is limited chance of public input on. I, also, just have to
10 object, because you said it, to decommissioning not being
11 different than the operating of the plant. It's -- I mean,
12 if it wasn't, we would all be in --

13 MR. MASNI~~E~~K: Well, I'm saying that the activities
14 that occur during decommissioning are not very different
15 than those occurring in operating the plant.

16 MR. CAMERON: Okay. That's another comment on the
17 -- on perhaps the deficiency of the regulations. We're
18 going to go to Dale Beckner. And for those of you, who had
19 your hands up before, I'm keeping track and we'll get back
20 to you. Let's go to Dale. Let's go to George.

21 MR. ZINKE: I've got a question on the GEIS
22 process that -- you're doing a number of scoping meetings
23 across the country, as this one, and you're asking for
24 comments by July 15th. And then the next date you've got is
25 the draft coming out in early 2001. Are you planning on

1 communicating back to the public, as far as the results of
2 the meetings and what your decision on the scope is going to
3 be?

4 MS. HICKEY: Yes. That was something I meant to
5 bring up. That's a good point. Yes, we will be putting out
6 a summary document on the comments that we've received from
7 the scoping meetings and as well as any other additional
8 written comments that we receive.

9 MR. CAMERON: Okay. Since we're back here, let's
10 go to this gentleman for a question.

11 MR. PERDOMO: I'm Fedorico Perdomo. I work for
12 Connecticut Yankee. We've been in contact at Connecticut
13 Yankee with the National Park Service and I notice in your
14 slide, you indicate historical and archaeological.

15 MS. HICKEY: Yes.

16 MR. PERDOMO: I'm wondering if you're talking
17 about the National Park Service's requirement for HAER, the
18 Historic -- I believe it's Historic American Engineering
19 Record, recordation of a facility. This is where they're
20 interested in recording the engineering achievements that a
21 facility may have --

22 MS. HICKEY: Oh, no. Well, what we're looking --
23 well, that's a point. That's a comment -- maybe we should
24 be looking at that. But, what we've typically been looking
25 for are the cultural and archaeological sites that have been

1 identified on the site and those may be impacted during
2 decommissioning.

3 MR. CAMERON: Okay. Thank you for that comment.
4 We're going to go to Deb Katz and Ray Shavdis and Jonathan
5 Block. Let's get this on the record, clarification of the
6 acronym that he used.

7 MR. PERDOMO: Yeah, it's the National Park
8 Service. They use two acronyms. It's HAB and then the
9 other one is HAER. The HAB is Historical Architectural
10 Building and the HAER is Historic American Engineering
11 Record. The National Park Service and see why -- the
12 National Park Service is talking to us and we're going to do
13 a recordation of Connecticut Yankee plant.

14 MR. CAMERON: Okay. Thank you. Let's go to Deb.

15 MS. KATZ: What I wanted to just raise was a kind
16 of inconsistency. It's something that's really confusing
17 for us, which is you talk about the fact that
18 decommissioning is similar to operations. Well, in
19 operation, what you have is an FSAR, which, in fact, the NRC
20 has called a living document, which is there from the
21 beginning that is used to operate the reactor. And from
22 what you're describing, there is nothing like that with
23 decommissioning. The PSDAR, we can all agree, doesn't
24 exist. And what seems to happen, through a series of
25 license amendments, there are changes made to the facility

1 and that things change as they move along. Well, one, there
2 is no line for the public to be involved in that process and
3 things are constantly in motion; and two, a number of the
4 exposures that we see at Yankee Rowe and other reactors
5 wouldn't take -- have taken place, if, in fact, there had
6 been a document that was being worked from, that had been
7 settled on ahead of time, may be amended. Now, maybe 50.59
8 was -- whatever you put the FSAR under -- I'm certain it's
9 50.59, but in the FSAR from the beginning, they -- you amend
10 it now to, in fact, have deconstruction plans put in them,
11 so at least someone is in some sane world of dealing with
12 this, as a whole picture, rather than segmented
13 schizophrenic process that the public is locked out.

14 MR. MASNICK: Yeah, I can respond to that quickly.

15 MR. CAMERON: It's Mike Masnick.

16 MR. MASNICK: First of all, I want to clarify
17 again what I -- if I misspoke, I want to clarify that the
18 activities that occur in a decommissioning plan are similar
19 to those that occur at an operating plant, with respect to
20 removal and deconstruction of the facility. Those kinds of
21 removals of pumps happen all the time at an operating plant,
22 removing and replacing pipe.

23 Decommissioning plants are not exempt from the
24 requirements to have an FSAR. They have -- they typically
25 call it a DSAR, or a decommissioning safety analysis report,

1 and that -- those are updated upon the same schedule that an
2 FSAR for an operating plant. So, there is such a document.

3 MR. CAMERON: Okay. Thank you. We're going to go
4 to Ray and then Jonathan and back up here to Mary.

5 MR. SHAVDIS: Ray Shavdis. You were very general,
6 in terms of saying what stimulated this scoping for a
7 supplement to the guides. You know, there's the reasons in
8 your rules -- in other words, new information, da ta, da ta,
9 da ta. But, what new information? And now, you've got two
10 plants decommissioned, but then what information is
11 informing -- what initiatives within NRC -- I mean, what
12 kinds of things are you looking at? If no one showed up
13 tonight, you'd have to go do this anyway by your little
14 lonesome. What would you do? What are the things that you
15 think you're going to be plugging in to the GEIS to
16 supplement it?

17 MS. HICKEY: Well, I mean, I put up a list of the
18 impacts that we have identified from our experience and from
19 discussions that we've had with people at the NRC, the NEI,
20 and some of the utilities, so we have a framework for what
21 is going to be in that. Now, are you asking specifically
22 what has happened in the decommissioning realm that has
23 motivated this need to update the GEIS?

24 MR. SHAVDIS: Yeah. I may have -- when you put up
25 this list of specifics, I --

1 MS. HICKEY: Okay.

2 MR. SHAVDIS: -- thought there was a list --
3 topical list of -- you know, of concerns, but not a list of
4 specifics.

5 MS. HICKEY: Well --

6 MR. SHAVDIS: My initial take on this was that you
7 folks wanted to put in some of the industry initiatives,
8 like rubblization, into your guidance, and maybe there were
9 a few other things. What did I miss? Take that data --

10 MS. HICKEY: Yeah. Well, those --

11 MR. SHAVDIS: -- those are going to be referred to
12 specifics, that specifics for land use, specifics for water
13 use, that you run into, but otherwise it's just a list of --

14 MS. HICKEY: No, we will be. We will be analyzing
15 and determining what those impacts are. As to your question
16 on rubblization, yes, we will be -- we will be addressing
17 that issue in the GEIS. Okay, entombment is another issue
18 that we will be addressing, that's not in the current GEIS.
19 Somewhere in the --

20 MR. SHAVDIS: I think that's -- I mean, those are
21 the --

22 MS. HICKEY: Those are the two main ones. There
23 are some other --

24 [Off mic.]

25 MS. HICKEY: That's okay. No, no --

1 MR. SHAVDIS: Did you find anything in all of this
2 experience that you've had? This scoping process, did you
3 find anything at all that would make you want to make that
4 GEIS more conservative, to put in tighter
5 scriptures strictures anywhere? Or is it -- or it is totally
6 in the realm of permissiveness, as in let's permit
7 rubblization maybe?

8 MS. HICKEY: Well, okay, let me make it clear
9 that, at this point in time, we have not determined what
10 those boundaries are, because we've not done the
11 environmental analysis. We have found through experience
12 that we have seen differences in the amount of waste
13 material generated in the site. We want to analyze that and
14 evaluate that, make a decision whether that boundary should
15 be changed in the scope of our GEIS. Likewise, we're
16 looking at the occupational doses. In some cases, those
17 tend to become even lower than what was in the original
18 GEIS. We need to do an evaluation of that. Does -- do
19 those boundaries need to be adjusted?

20 MR. SHAVDIS: Just to clarify --

21 MS. HICKEY: Okay.

22 MR. SHAVDIS: -- any of this about bad news? It's
23 all limits. I mean --

24 MR. CAMERON: Ray?

25 MR. SHAVDIS: Well, if it was bad news, we'd be

1 talking about making -- perhaps making the boundaries wider.
2 And we're not -- we're not making a discussion of whether
3 they're wider or narrower. We haven't made those decisions
4 yet.

5 MR. RICHARDS: Again -- this is Stu Richards, Ray.
6 One of the reasons we're here tonight is to ask that
7 question -- to ask the question, what should be within the
8 scope of this thing? I mean, we're here to ask you -- Ray,
9 we're here to ask you what is not in the environmental
10 impact statement that you think should be there. So, again,
11 you're going to come back to a reason for this meeting.
12 We're seeking input from the public on what should be
13 included and you're asking us what should be included.
14 Well, we've given you two examples and we said we're going
15 to update the standing generic environmental impact
16 statement with experience gained from the last two years.
17 So, you know, you're asking us to answer the question we're
18 asking you, Ray.

19 MR. SHAVDIS: It's hard to believe, okay.

20 MR. CAMERON: Wait a minute, let's -- let's just
21 take this one person at a time and let's get it on the
22 record. Now, Ray, just say -- make a final comment right
23 now and then we're going to go to John.

24 MR. SHAVDIS: It's not a comment. It's an attempt
25 to clarify a question, and you may be surprised to learn

1 that English was actually my second language. What I want
2 to know is what stimulated you folks, other than plain
3 curiosity as to what the public might be thinking, to --
4 yes, required by new information, new whatever, what
5 stimulated you to get into this scoping thing, other than
6 you want to do rubblization and maybe talk about entombing,
7 you know? I mean, whether every other things that are
8 coming down the road that we'll be looking out for, that are
9 coming from the industry, being met through NRC, that are
10 going to change the dice, to make it even slacker than this?

11 MR. CAMERON: Okay, I think the question is why
12 are we doing this now? So, we're going to Dino.

13 MR. SCALETTI: Dino Scaletti.

14 MR. CAMERON: Tell it, Dino.

15 MR. SCALETTI: Well, you know, to respond to your
16 comment, as I mentioned earlier, we have now over 300 years
17 worth of experience. We have information coming out of
18 Maine Yankee. We have information coming out of
19 ~~Hadaneck~~Haddam Neck, out of Yankee Rowe. We have plants
20 that have gone into SAFSTOR, such as Zion. In instances --
21 specifically I know Zion is my project -- the radiological
22 exposure is about half -- they're projecting about half of
23 what is in the generic environmental impact statement and,
24 so, therefore, you know, what we would expect, that these
25 ~~envelopes~~ may be shrunk. And so, it's certainly not bad

1 news, I mean, if we're constricting the envelop~~e~~ in certain
2 instances, based upon the existing data that we're getting
3 from the decommissioning plants. And this is the reason why
4 we're doing it. We know there's data out there and we know
5 that the 1988 generic environmental impact statement was
6 based on a lot of estimates, not to say that the information
7 provided there is bad information and not to say that it's
8 not acceptable information. But, if we're doing a generic
9 statement, then -- and we will define the envelop~~e~~, then
10 this is why we're updating it at this time.

11 MR. CAMERON: Okay.

12 MR. SCALETTI: The time is ripe to do that.

13 MR. CAMERON: All right. We're going to go to
14 Jonathan and then Mary and then go over to Darryl.
15 Jonathan?

16 MR. BLOCK: Yeah. First, I had a question for
17 Eva, just as a clarification. Did you say that you -- that
18 your -- you're from PNN Laboratories, is that it? ~~Yes, sir.~~

19 MS. HICKEY: Yes, sir.

20 MR. BLOCK: That your team has already had
21 discussion with the utilities and NEI; is that what you
22 said?

23 MS. HICKEY: What we have done so far is talked to
24 NEI about the process of how we're going to obtain the data
25 that we need to make the analysis for the environmental

1 impacts. And, also, in our planning process, we have made
2 several site visits and we have several more than we're
3 going to make. This is all in preparation for how are we
4 going to gather the information and analyze the
5 environmental impacts.

6 MR. BLOCK: And was that the extent of the
7 discussions you've had with them? Was that the extent of
8 the discussions? You're going to do a transcript of your
9 discussions with us and I am really interested in having a
10 transcript of the discussions you had with the NEI and the
11 utilities. I think that would be great, you know, if that's
12 available.

13 MR. SCALETTI: We have -- we had, basically, two
14 meetings with NEI. One was an introductory meeting, to
15 establish contacts, which are being summary -- has been
16 issued already. The second meeting that we had with NEI was
17 more formal. It was -- the meeting was announced. A
18 summary will be prepared. I've been out of the office. It
19 will be prepared when I get back and copies will go into the
20 -- on to the NRC Web, a summary of the meeting. What we did
21 is we solicited NEI support, knowing full well that this is
22 a generic environmental impact statement and we will only be
23 visiting a small number of utilities or licensees that are
24 in decommissioning. Again, we'll cover the whole industry.
25 So, we're looking for a focal point, so that we -- where we

1 can ask the questions, send it to them, they can distribute
2 it however they want to the industry, to get the answers
3 that we will need to compare our documents. And so, all the
4 burden will not totally fall on one utility, to give us the
5 information on one licensee.

6 MR. BLOCK: And the initial meeting will be set --
7 you had two meetings with NEI?

8 MR. SCALETTI: we had one meeting in -- I believe
9 in March with NEI. It was just a subpart of an overall
10 meeting that is periodically with NEI. And we had another
11 meeting. I believe it was April 16th.

12 MR. BLOCK: What that a public meeting?

13 MR. SCALETTI: Yes, absolutely.

14 MR. BLOCK: It was?

15 MR. SCALETTI: Yes, it was a public meeting. And
16 as a matter of fact, ~~all~~a representative of one of the
17 industry ~~-- one of the -- whatever -- Travini~~publications
18 was at this meeting.

19 MR. BLOCK: Okay. Now, for the -- now, I have
20 come up with a short list of things I think should be
21 included in your scope, just to move things along here. An
22 issue that I recall partial site release.

23 MS. HICKEY: Okay.

24 MR. BLOCK: The newer issue, which appears to be a
25 shift that's taking place, it wasn't contemplated in 1988,

1 and that's the shift to intact vessel removal with concrete
2 put in and then a burial. I think it was Trojan. And,
3 also, with Rowe vessel, where you're burying that in a
4 place, that normally would have been expected to take
5 greater than Class C waste, but because of your -- what's
6 called a concretization of the material inside the vessel
7 attributed to land burial and ordinary Class C waste
8 landfill.

9 There are changes that have taken place in the
10 sophistication of transportation dose and the fact that the
11 programs and methodology that was used in '88 have been
12 superseded. They need to be revised. There is some higher
13 numbers that should be in there.

14 Then, we have the issue of changes in
15 decommissioning costs, actually going out there and taking a
16 look at these projects stage by stage and seeing how the
17 kind of estimates that were made in a valiant effort for
18 years by Mr. LaGuardia and others actually do match up or
19 not match up to the final results.

20 Then, we have the issue of rubblization, as a kind
21 of entombment without entombment -- you know, knock down the
22 building into the foundation, not quite completely cleaned
23 up, ice over the top, and declare it perfectly fine and
24 dandy.

25 Then, we have the need to revise estimated doses

1 for specific decommissioning activities. So, for instance,
2 at Yankee Rowe, reactor vessel cutting was attempted and all
3 of a sudden, there seems to be some problems with that. The
4 dose level might have gone through the roof and that poses
5 certain problems. It looks like that's being turned away
6 from. So, there should be at least an envelop^e that
7 accounts for attempts to use certain techniques that turned
8 out not to be perhaps the best way to solve a problem.

9 And then, finally, on my list, and I'm sure others
10 will have others, I think there needs to be both a study
11 conducted and an acknowledged that due to leaking pipes in a
12 lot of these facilities, that there are plumes and tritium
13 and other materials underneath the facilities, and these may
14 not have migrated offsite, such as to be -- fall under the
15 rubric. I think that Stu had mentioned about offsite
16 decontamination per se, when they may be well contained
17 under the site. And the question would be what do you do?
18 At Yankee Rowe, I have brought in hydro geologists. In the
19 license termination plan, we have provided some preliminary
20 analysis of test results that have been done. The
21 geologists said, gee, it looks to me like there's a pool
22 underneath this facility and then, at that point, we never
23 got to really adjudicating, because the licensee decided it
24 would withdraw its license termination plan and redo
25 everything.

1 But, I think that what we saw there was possibly a
2 model and that this is worth pursuing, particularly as a
3 move toward the attempt to green field the sites, rather
4 than brown field them. It means that it's important to have
5 protocols in place that will be adhered to, particularly for
6 underwater drilling.

7 So, I offer these, not so much for a comment
8 discussion at this point, but just to be part of your list.
9 I think there are many things that legitimately should come
10 under a proper scope for the new GEIS.

11 MS. HICKEY: Thank you.

12 MR. MASNICK: Jonathan, I think that's very
13 productive. I mean, those are the kind of comments we want.
14 In fact, the very first one on your list was one that was
15 brought up previously at the previous meeting we had in
16 Chicago.

17 MR. CAMERON: Okay. And thank you for those. We
18 have three people that I'm going to go to now and then I'm
19 going to ask if anybody has suggestions, such as Jonathan
20 just made. And then we're going to go into the people, who
21 want to make formal comments here. But, we did have some
22 people, who wanted to talk. Mary?

23 MS. LAMPERT: Yes. Mary Lampert, Massachusetts
24 Citizens for Safe Energy, and I have comment -- not
25 comments, but suggestions, such as Jonathan has made, one on

1 decommissioning alternatives, rubblization. To my mind, it
2 appears to me that what is happening is turning a reactor
3 site into essentially a low-level, perhaps a high-level,
4 radioactive waste site. Therefore, we seem reasonable to
5 look at having the same protections, such as deep monitoring
6 wells, requirements for liners, etc., and, also, that that
7 be looked at in a site specific manner, because often
8 concrete is involved. I don't think we have come up with a
9 real answer on the affect of corrosion from salt water. And
10 the reactor in my neighborhood, Pilgrim, for example, is
11 right on the Massachusetts bed. But the point is for
12 rubblization, I think it really should be looked at for what
13 it is, a radioactive waste site, and have the requirements
14 of liners, of monitoring, and real tests on how long
15 concrete will last in a salt water environment.

16 On the issue of residual radioactivity levels,
17 radiation standards for public exposure assume that the
18 burying grounds are not going to be disturbed. And I think
19 you ought to be looking at that assumption, because, in my
20 mind, it is not a reasonable assumption; that ~~the demand~~
21 ~~their~~Man nature is not going to disturb the dirt, which
22 we're relying or shielding. This is particularly -- again,
23 I think of my own neighborhood, you look at Pilgrim, which
24 is on the ocean. We know about rising sea levels. We know
25 about the increasing numbers and severity of coastal storms

1 and we know about eroding coastlines. All of those things
2 tell me that nature might do something with disturbing the
3 burial grounds and, therefore, we have to get rid of that
4 assumption, when looking at our radiation standards.

5 I, also, think it's imperative, talking about
6 radiation standards, that we look at what is background, and
7 it has to be site specific, to come up with the ludicrously
8 that we're all 360, or counting every -- five per person is
9 ridiculous. For example, again, take some place like
10 Pilgrim. That is upon sand. At best, we're at 80 before
11 the power plant came into place or the Chinese smart bombs
12 all ended into the neighborhood, one or the other. But, we
13 don't have rocks. We don't have radon. And, therefore, it
14 has to be looked at in a site specific way, not the 360 I
15 hear running around.

16 Then the other point I'd bring out, under -- that
17 I did bring up, under financial ~~insurance~~assurance, living
18 in this area, we've all experienced the Big D. We know what
19 happens, that money just is not -- what's anticipated, it's
20 never enough and it's not fair. I know very sure the ~~p~~Price
21 ~~ends~~Anderson and that -- the license expires. But what I
22 want to know is what -- who takes over after the license
23 expires? I want to follow a money trail, that's the point.

24 MR. CAMERON: Let me make sure everybody -- this
25 sounds like -- do you understand the question that Mary is

1 asking, Steve?

2 MR. LEWIS: About Price Anderson?

3 MR. CAMERON: Yes.

4 MR. LEWIS: I mean, the last part?

5 MR. CAMERON: Yeah.

6 MR. LEWIS: Okay, I do.

7 MR. CAMERON: Can you offer us anything on that?

8 And then we're going to go on.

9 MR. LEWIS: Price Anderson is key to the presence
10 at the facility on fuel and, you know, when fuel is no
11 longer at the facility, Price Anderson will no longer
12 require public liability insurance. I think it's the
13 existence of the fuel. I suppose I can say, yeah, the
14 existence of radiation is -- but, I'm not sure if you mean
15 the same thing by that than I do. So, I'll use my term,
16 because I'm more confident with it, in terms of what Section
17 170 of the Atomic Energy Act says.

18 I wanted to get to a slightly broader point,
19 because I've been concerned that there has been so much
20 exasperation among many of the questioners, in response to
21 many of the things we've said. And I could always maintain
22 a comfortable -- as a government regulator, when I feel
23 people are so exasperated by the answers that are given,.

24 The first thing I'd like to say is that in 1996,
25 the Commission completed a rulemaking, which begun in 1994.

1 And in that rulemaking, the Commission made the judgment
2 that at the early -- at the stage when decommissioning
3 activities were going on, it was their view, as people who
4 had seen inspection activities going on for quite a few
5 years. That, in fact, types of activities that were being
6 undertaken were really very similar to things that go on not
7 so -- I wouldn't necessarily say they're operational things,
8 but they are things -- sort of maintenance and change out
9 and things that happen at periodic shutdowns of the facility
10 -- you know, maybe somebody people in the audience
11 understand this and maybe some people -- you know, it's
12 useful for me to go through this.

13 I mean, during the operation of the facility,
14 there are a lot of activities that go on, that are, in fact,
15 in the NRC's view, very similar to the kinds of things that
16 go on during decommissioning. The Commission felt that the
17 most important stage of events that we would be looking at
18 was going to be the point where we were no longer going to
19 be regulating that facility, and so it may -- it put its
20 emphasis at that stage.

21 Now, I sense a lot of consternation about that
22 determination by the Commission. But, I will tell you --
23 try to explain to you what the thinking is. The thinking is
24 that -- I'm putting it forth -- the Commission has given
25 long and hard consideration for this matter. It's reflected

1 not only in the 1996 decommissioning regulations, but, also,
2 in the 1997 license termination rule. That was the -- I'm
3 going to move back to '97, license termination rule -- that
4 was the Commission's statement on that criteria would apply
5 to terminating a license, and that -- this is a big time
6 important thing to the NRC, because, you know, we're a
7 regulatory agency and it's at that point that the Commission
8 felt that -- you know, we really needed to feel satisfied
9 that things were in place, such that we could step back and
10 can no longer regulate the facility.

11 And, yes, there was a decision made on the basis
12 of the regulatory perspective of the agency; that activities
13 up to that point were, in fact, very much like what has been
14 going on at the facility. And because the facility had been
15 licensed, first for construction, and then for operation,
16 and in those documents, we had stated, of course, this is
17 the facility. It's going to operate for a certain life
18 time. At the end of that, it's going to be decommissioned.
19 And we stated that those -- I see a hand being raised, but I
20 really can't respond to it at the moment. Just let me
21 finish what I'm saying. I'm sure someone will bring around
22 the mic to you. And in those statements, we set forth the
23 fact that it's going to be decommissioned. I mean,
24 obviously, it's going to be decommissioned. We stated what
25 we knew at those times. Some of these statements were -- go

1 back to the 1970s. If they were written today, we could
2 state much more. But, we stated what we had available to us
3 about decommissioning, at that time.

4 So, I mean, I think the NRC perspective needs to
5 be understood. You don't have to agree with it. Some of
6 you may not agree with it. But, I think it's good. Of
7 course we understood when a plant was operating with a
8 license, that, at some point in time, it was no longer going
9 to operate and it was going to have to be decommissioned.

10 Now, it's at this point that I start to get a
11 disconnect, because the fact of the matter is that what we
12 are now going about in this GEIS is a very concerted effort
13 to try to go back and look again at the subject of
14 decommissioning; make sure that we are -- it's not just a
15 question of responding to what different companies have come
16 up with as proposals, because even the things they come up
17 with as proposals tend to evolve to some extent. They may
18 evolve, because may -- it put certain legislation into
19 effect, and that has an impact. Or they may evolve, because
20 -- because of actions of the licensee, themselves. So -- we
21 know that there are various ways as made in time.

22 MR. CAMERON: Okay. Steve, thank you for that.
23 And I'm going to ask people, who want to talk with Steve
24 about that, to do it after the meeting, so that we can get
25 on to types of impacts here, because we're talking about

1 something that's very important. What's the rational for
2 all of this? So, we really do need to get to the formal
3 statement.

4 I'm going to go to Darrell and then Tim, and I'm
5 going to ask if anybody has any specific recommendations on
6 what the NRC should consider in this environmental impact
7 statement. And we're going to go to the formal statements
8 and if we have any statements that linger after that, we can
9 do it. But, we really need to go in that sequence.
10 Darrell?

11 MR. FARBER: My name is Darrell Farber. I'm from
12 Harvard University. When a facility goes from an operating
13 facility to a non-operating facility, does that require a
14 license amendment change?

15 MR. MASNICK: No.

16 MR. FARBER: Okay. The second is what factors
17 have changed since the first environmental GEIS that would
18 now suggest that ENTOMB is a possible option?

19 MR. CAMERON: Okay. That's a good question.
20 Mike?

21 MR. MASNICK: Well, first of all, I think what has
22 happened is the Commission has directed the staff to look
23 into it. There has been no decision on the part of -- on
24 the part of the Commission, as to whether or not ENTOMB is a
25 viable or non-viable option. The reason could be that we've

1 had now a lot of experience associated with dismantling
2 these plants and that I think what we originally had
3 evaluated for the ENTOMB option, or at least most of us felt
4 with entombment was leaving everything at the plant and
5 somehow immobilizing it, basically, forever. Some of the
6 things that have been considered is removing some of the
7 components. So, there may be some sort of a hybrid
8 situation, where you do some DECON work and then you go into
9 entombment.

10 So, I don't think there's anything that has
11 triggered this, other than the Commission's interest in, you
12 know, it's been 13 years plus to look at it; let's leave,
13 reevaluate it, and let's see if it is a viable option.

14 MR. CAMERON: Okay. We're going to go to the
15 State of Maine here again. This is -- could you just
16 identify yourself?

17 MR. DOSTIE: Yes. My name is Pat Dostie. I'm a
18 safety inspector at the Maine Yankee facility. I've got one
19 comment and three questions. The first comment I have is
20 relative to what you all have said, in the Zion SAFSTOR
21 commission, in the sense that it can see rad exposures about
22 half of what's -- projecting half of the exposure to what
23 was originally projected from GEIS. I know from past
24 experience, because I used to work at Maine Yankee as one of
25 the radiological engineers, that whenever it comes to an

1 ALARA projection, no matter what you use, whether it's a
2 general area or even the highest dose, by the time it's all
3 done and you actually take a look at people's exposure, it's
4 never anywhere as near what you have. So, you always should
5 take a look at it. A real good factor reduces that, to
6 really challenge yourself; otherwise, it's a worthless use
7 of resources all the way around, for the industry, as well
8 as the NRC.

9 I did have a question that came to -- I think,
10 also, you said something about we would rather look at the
11 NEI for support. I can see you going to the NEI for
12 support, when it comes to radiological issues. However,
13 non-rad issues, are you just limiting that to NEI or are you
14 looking at EPA or some other people that can find input? If
15 there's a reason to enroll, the NRC takes care of the rad.
16 But when it comes to non-rad, then you get into states, as
17 well as EPA.

18 MR. CAMERON: Could Dino or someone from the NRC
19 tell us all of the different organizations that we're trying
20 to work with to get information to do this?

21 MR. SCALETTI: We have been coordinating very
22 closely with EPA on this generic environmental impact
23 supplement that we're doing. Then, we have, you know, NEI
24 involved as a -- to compile our information that we're going
25 to be requesting of the industry for the decommissioning

1 process. And we certainly will be utilizing the states, if
2 they're willing. We put out the document where we have
3 these meetings and we're looking for your input. We will
4 certainly take into consideration -- we will issue a draft
5 environmental impact statement, in which we expect very
6 critical review from the industry and the EPA, the states
7 involved in this process, or the interested people that want
8 to come.

9 MR. CAMERON: And we will be hearing from EPA in a
10 minute in our formal statements. I guess -- let me go to
11 you.

12 MR. DOSTIE: Okay. Mike mentioned that you felt
13 comfortable when it came to the LTP, because you said, in
14 essence, it was closed for the conclusion aspect of
15 decommissioning. In the Maine Yankee situation, that kind
16 of plan is coming up about four years ahead of time and some
17 of the things that are not in the plan and is going to be an
18 ~~involving~~~~evolving~~ process, to really learn some of those
19 issue, until, let's say, maybe a couple of years from now.
20 I think that's one of the workshops the NRC was looking for
21 some input as to what things they could allow and not allow
22 in an LTP, how many impressions they've had. What they were
23 looking for as guidance? What kind of license can change an
24 LTP that wouldn't require NRC approval?

25 I'm not exactly sure or clear on some of these

1 things, but the thing here is when you're four years ahead
2 of time, like Maine Yankee here, and one of the things I've
3 been expressing all along to Maine Yankee, as well as Stone
4 and Webster and whoever it is in the future, that it seems
5 like the right hand sometimes does not know what the left
6 hand is doing. Going ahead with decommissioning, in this
7 manner, on activities, not realizing what impact it's going
8 to have, when it comes to plant site survey, we do an awful
9 of earth moving. If you're relegated to ~~Lascom~~MARSSIM,
10 you're looking at six inches. And then you can say even if
11 there is such surface, you've got to go look at it. And if
12 they have excavated and they move it some place else, what
13 do you have and how do you want it? It gets into all of our
14 questions.

15 So, like I said, what's close -- where I see, you
16 know, three years, everything has been done. Everything has
17 been characterized. Everything has been remediated. You
18 submit a plan; you know exactly how it's going to go
19 forward. But, I think in this particular case, at least at
20 Maine Yankee, I'm sure the industry is going to learn from
21 that. They will be submitting LTPs a way ahead of time, and
22 it's going to make it difficult to know some of those
23 answers and to make sure that everything is in the proper
24 perspective and that impacts -- later impacts as to the
25 final conclusion. But, other than that, you've met the

1 compliance, the regulatory criteria. It's going to be
2 questionable, because of the work that you've done and we're
3 going to take it into consideration up front.

4 So, you may have a general procedure like Stone
5 Webster, which is I will move this earth. But, in reality,
6 that's all it says. We have a program that does that. But,
7 in the end, how you really characterize then before is
8 really -- is the real key to making sure that you go ahead
9 and do the rest of the moving, because now you've done
10 enough work that you're really satisfied with what you have.

11 MR. MASNICK: I was just going to say, clearly, we
12 have a better understanding of where we're going to end up
13 now than we did, let's say, two years ago. So, you know, I
14 think we do have a little better understanding. But, I
15 understand your point.

16 MR. DOSTIE: And the last thing here has to do
17 with Eva. Eva, you said something that caught my eye in one
18 of your slides. It's on page nine in here. On the
19 decommissioning process, you made a statement of the license
20 termination plan, that -- and here's the word, I guess I
21 want to make sure that you really meant that. You said a
22 complete characterization of the site. Now, who knows, what
23 they means -- is that what the NRC really expects in the
24 LTP?

25 MR. CAMERON: Let's go to Bob Nelson for -- or

1 Larry, particularly, for an answer about complete
2 characterization.

3 MR. PITTIGLIO: -- [off mic] -- which is
4 50.~~8289~~82(a)(9). It says "the site will be adequately
5 characterized for use in determining levels of
6 classification for survey activities." If you go back and
7 look at the standard review plan that we just put out -- I
8 believe you may have gotten a copy of it at the NYMY meeting
9 Monday night. We do provide a detailed discussion of what
10 characterization encompasses. The real purpose of it is to
11 take the information available and to use it for the
12 classification to survey units. It's the basis for
13 conducting surveys in determining the remaining levels of
14 examination at the site.

15 MR. CAMERON: Okay. Thank you. We're going to go
16 Tim from a hand up that was outstanding from before. And
17 then I'm going to have to ask for us to just limit our
18 comments to areas that the NRC should explore on this, so
19 that we can get to the formal comments, because we have a
20 number of you people. Tim?

21 MR. JUDSON: I guess my last couple of questions
22 has -- well, one is a point of clarification, but the other
23 has to do with, you know, sort of the big picture of why
24 we're looking at a GEIS, at this point, as opposed to where
25 -- it's the issue of why we're looking at a GEIS that

1 precludes site specific environmental impact statements, or
2 what the need for -- the need for site specific impact
3 statements in the case of decommissioning or why we're
4 looking at a GEIS instead of basically a glorified set of
5 guidelines that utilities need to consider in terms of
6 decommissioning. Because, it seems like what we're really -
7 - what's really happening right now is that we've been --
8 that the NRC and the industry have a certain amount of
9 experience with decommissioning, at this point, and the NRC
10 seems comfortable with summarizing that, in terms of a set
11 of guidelines that they totally need to consider when they
12 begin the decommissioning process.

13 Now, the other part of this has to deal with the
14 question of NEPA and the issue of decommissioning as a major
15 federal action. And there's two parts of this. One is that
16 if -- you know, if, as I think I believe Mr. Masnick has
17 said before, that decommissioning is not considered a major
18 federal action, then why is a GEIS being issued in this --
19 in terms of decommissioning? The other part has to deal
20 what the gentleman in the middle said a little while ago.
21 In terms of -- I think he described, you know,
22 decommissioning as a big time federal action and I'm
23 wondering how that is distinguished from the major federal
24 action. And, you know, this is -- we seem to be sort of,
25 you know, schizophrenic, in terms of that characterization.

1 Now -- and this does -- and I think the question
2 about whether decommissioning is considered a major federal
3 action and why we're looking at a GEIS -- from our
4 experience, you know, with, for instance, the Rowe
5 decommissioning, after which the NRC changed its rule
6 essentially to legalize what happened at Yankee Rowe, it
7 seems like -- the federal action that is taking place is
8 actually the deregulation of decommissioning and that that's
9 what this GEIS is about.

10 MR. CAMERON: Okay. I think it's important for
11 the NRC to -- there is a bunch of questions there, but you
12 really need to put the GEIS in context, in terms of what
13 that does. Because, I think that there are still some
14 misunderstanding about what the GEIS does. Mike, are you
15 ready to take this on?

16 MR. MASNICK: Yeah. I can answer a couple -- the
17 first -- I think the first two. All right. Why are we
18 doing a GEIS, as opposed to site specific EIS? And I think
19 the reason is, as Eva said, many of the impacts that we see,
20 the environmental impacts that occur during decommissioning
21 are very similar. The facilities are very similar, okay.
22 And as a result, it seems reasonable to look at them in a
23 generic sense. And GEISs are done quite frequently. Other
24 agencies do them. When you have similar impacts, similar
25 facilities, it is a reasonable way of going. Now, what

1 you'll end up doing, hopefully during this process, is
2 identifying those particular impacts that can't be dealt
3 with tonight and that's one of the things that we emphasize.

4 MR. JUDSON: I guess I should clarify why it is
5 that I asked the question that way, which isn't -- I think
6 we all agree that there needs to be a generic overview of
7 decommissioning, of what it entails. What I'm wondering in
8 terms of why the NRC is, you know, proposing a GEIS that, in
9 some way, precludes the need for a site specific EIS, in
10 every decommissioning case, is that it seems like while, you
11 know, there's a certain body of experience that the industry
12 and NRC are accumulating, also, in every decommissioning
13 case that I'm aware of, there's been lots of surprises and
14 lots of abnormalities that are site specific. And so, why
15 -- GEIS are then being constructed to reform a site specific
16 environmental impact statement in decommissioning, rather
17 than -- that somehow creates an umbrella that shields him
18 from having to do that?

19 MR. CAMERON: Let me add something on there, that,
20 I don't know, may help in this respect. When does the
21 public get to examine the decision about whether the utility
22 -- the environmental impacts in a particular decommissioning
23 case are really bounded by the GEIS -- in other words, to
24 take a count of whether there are surprises out there. What
25 is the decision making process? What is the agency action

1 that allows -- that exposes this to public scrutiny?

2 MR. MASNICK: Well, there isn't any at the initial
3 stage, because there's no --

4 MR. CAMERON: No, I'm not talking -- I don't want
5 to say initial stages.

6 MR. MASNICK: Well, okay, but --

7 MR. CAMERON: But whatever.

8 MR. MASNICK: -- ultimately, the environmental
9 assessment is done at the license termination plan stage.

10 MR. CAMERON: All right. Well, I guess that's at
11 least where you find out whether it's bounded, okay. But, I
12 think that that's a theme that's been running through this
13 and we really need -- we really need to get to are there
14 specific types of impacts that people have to suggest,
15 rather than continuing to talk about the rule? Okay.

16 MR. RICHARDS: This is Stu Richards. I just want
17 to make a comment. It's probably obvious, but, you know,
18 it's just a difference in philosophy. You're saying that
19 there should be public involvement on the front end. Mr.
20 Lewis up there, and the other guy, they all said that the
21 Commission made a decision that the active decommissioning
22 is not that unique and that as long as we define envelope
23 and they live within that envelope, then that's a reasonable
24 way to go, and that's what we're doing. So, when you've
25 repeatedly called into question a Commission policy, you

1 know, we've heard that. Thank you, very much. But, we're
2 not here to discuss that tonight. What we're here to do, I
3 hope, is to get input on what should be considered, as far
4 as defining that environmental impact envelopes. So, we
5 urge you, that you don't like the process that the
6 Commission has defined, we'll ask the staff to carry it out.
7 But, I don't know how many times we can say that before we
8 convince you with we're not here tonight to change that.

9 MR. CAMERON: Well, I think we -- I think we did
10 discuss it, too, and I think the points have come through
11 clearly. And what we need to really to do now is like
12 really concisely move through types of impacts that the NRC
13 should look at. And we're going to go -- we're going to go
14 through that and then we're going to go to the formal
15 statement. And I would really like to get the EPA up there
16 first, to tell us -- to hear what they have to say. So,
17 let's try to do this as concisely as possible. Mary?

18 MS. LAMPERT: Mary Lampert. Financial assurance,
19 that means to me that there's enough money to do the job
20 cleaning up; therefore, I recommend you looking into
21 changing your definition of decommissioning, to include
22 what's really important, taking care of the spent fuel,
23 gross operation costs -- spent fuel, in terms of nuclear
24 waste, number one; and to take down non-radioactive
25 structures; that those are all real jobs, money that has to

1 be spent. So, let's call them decommissioning costs and
2 then assess whether there's enough money to do the job.

3 My next question is, and it's particularly
4 important as power plants are being sold, when we hear that
5 it is financial assurance, I would like to know, as a member
6 of the public, have you defined in this what your exam
7 questions are specifically to determine that there is
8 financial assurance and how you rate it. What does
9 "passing" mean? What does "~~family~~Failing" mean? And if you
10 fail or you're questionably questioning that they have
11 financial assurance, what is done to ensure that they will?
12 So, as a member of the public, I'd like to know what your
13 score care~~d~~ is, so we can feel some assurance in your
14 determination of financial assurance, a specific lessons
15 learned, and this is very specific, in the sale of plants?

16 Calvert, as you know, we sold from ~~Beeko~~PECo to
17 Entergy. At the time, I wished that for decommissioning
18 purposes, that the NRC had required as a part of agreeing to
19 the sale, that there be a detailed map and description of
20 where waste was buried on site, because waste had been
21 allowed to be buried on site by the NRC for a number of
22 years. However, the people, who were -- the initial people
23 are history, they're gone. And you can lose that important
24 part of history of exactly what everybody knew was where;
25 very important review, in assessing the cleanup. And I

1 would be -- do you see what I'm saying, in assessing how
2 much this is going to cost. Don't let site specific history
3 get lost in transfer of ownership of plants, and the way of
4 not having that happen is to make it a requirement of the
5 transfer.

6 MR. CAMERON: Let me put something on the record
7 here, in terms of -- you've heard what Mary has suggested.
8 Some of these comments may not -- when you resolve comments
9 and issue a scoping report, they may not fit within the
10 scope, although they may be very legitimate issues to
11 address. Will we, for those issues, turn them over to the
12 people, who have responsibility within the NRC to address
13 those issues, I guess is the question I'm asking.

14 MR. LEWIS: I think you -- I'm not in the
15 programmatic end of things, the legal end of things, so --
16 but, the answer is that we will definitely make sure that
17 the people, who are from the staff, who do not happen to be
18 here today, because they're not directly involved -- they're
19 separate, but are involved in the kinds of things that
20 you're raising, such as financial assurance, to know about
21 it.

22 A couple of things I just want to say real
23 quickly, which is that there is a specific requirement in
24 our regulations that decommissioning -- that decommissioning
25 records -- I'm not using the right word -- spills, all of

1 these records are required to be maintained and to be --

2 MR. CAMERON: Okay. Let's --

3 MR. LEWIS: Well, that thought -- I mean, I --

4 MR. CAMERON: Let's go to suggestions, as to
5 impacts to look at please talk after this. Ray, do you have
6 specific impacts? And then we're going to go to Rosemary.
7 Ray Shavdis, do you want --

8 MR. SHAVDIS: Sorry. We believe that fuel storage
9 needs to be considered in the generic environmental impact
10 statement. At Maine Yankee, they are shifting fuel
11 specifically to the decommissioning process. And you
12 already know what our objections are to Part 50, Part 72
13 shift there; but, basically, if there is a shift for the
14 purpose post-license activity, it should require a new
15 license. There should be included additional comparisons of
16 various options and activities and you should consider in
17 that the dose to the workers and the public comparative --
18 comparative environmental impact for different options
19 within the envelope, overall dose envelope.

20 Pardon me?

21 [Off mic.]

22 MR. SHAVDIS: Yeah. Maine Yankee is engaged in
23 questioning whether to bag and tag or rip and ship. They
24 had different options for how they were going to handle
25 materials they're removing from the plant and whether they

1 would simply dump them into gondola cars, cover the car,
2 ship it, or rather they would repackage it or try
3 decontaminate on site before shipping it.

4 And while we're speaking of that, it's very
5 important for -- in considering the generic environmental
6 impact, that the dose to the workers and the public at those
7 facilities, where these materials are being prepped for
8 third release, needs to be included for the plant, in which
9 that material came. So, if we're shipping to what used to
10 be FW Hague, down at Memphis, that that dose be fed back to
11 the plant and inform this whole process. When you're
12 thinking about this, you really need to inform yourselves,
13 as to where this stuff is processed and where it winds up.

14 Additionally, there won't be some kind of -- and
15 this is another example of what I'm talking, the dose
16 comparison. A kind of comparison -- a calendar comparison,
17 the plant sets the schedule for decommissioning and they're
18 in a hurry to do it, so they chemically strip their piping.
19 Now, that produces low-level waste, very hot low-level
20 waste, you know, those resin filters, and that stuff has to
21 be handled, has to be shipped, has to be disposed of. And a
22 lot of that ~~does~~dose comes from relatively short life radio
23 nuclides, Cobalt 60, five year half life or something. So,
24 if they've waited two years, they were forced to wait two
25 years, you cannot count that dose considerably and the

1 subsequent release to the environment. So, it needs to be
2 that comparison.

3 The -- we're very concerned that this change in
4 the GEIS not be used to enable a release of radioactive
5 materials in decommissioning that are not necessary to be
6 released. When you're running a plant, you have --
7 everything you have in it, so you're going to have releases,
8 and that's understood as part of running a plant. However,
9 in decommission, that's not necessary, and I'm speaking here
10 specifically of pre-releasing, whether on site and burial or
11 off-site radioactive materials, should cease and then the
12 plant declares itself to be defueled, or whatever the
13 terminology is. Those radioactive materials should only be
14 transferred in the course of present regulations from one
15 licensee to another. And if you are going to do anything
16 else, then there really needs to be an impact statement and
17 new regulations stemming from -- in your GEIS.

18 The example at Maine Yankee is leaving outflow
19 piping. There's a large pipe that runs out into the river
20 and a large concrete diffuser. This is offsite. It is
21 contaminated. If it were onsite, they wouldn't be allowed
22 to leave it. If it's offsite, they're allowed to leave it.
23 So, there's some questions there and I think those are the
24 kinds of things that we need to look at.

25 The impact on the environment within your GEIS,

1 the ecology, for its own sake, everything is always fed back
2 to dose to human beings. But, we live in some kind of
3 symbiotic relationship with the environment at large. And,
4 you know, I know that doesn't fit in with regulation, but
5 I'm giving you our point of view here. The public is a
6 partner in decommissioning. It needs to be a transparent
7 process, where all communications are available, including
8 conference calls and any communications from licensee to the
9 NRC. These are not readily available on the Adam thing. As
10 you know, it's a problematic situation.

11 But, in terms of -- and I'm going to get to this
12 issue, like it or not, psychological impact is a public
13 health issue. The beginning of the 21st century here, we
14 ought to recognize that psychological impacts are health
15 impacts and psychological impacts to the public are public
16 health issues. So, that means that there should be no
17 mystery, no secrets, nothing for the public to develop
18 anxieties over in the decommissioning of a plant. If there
19 is, it's an environmental impact. It needs to be included.

20 Additionally, in that same ~~vane~~vein, community
21 advisory panels, which are recommended in the
22 decommissioning rule, I believe, they need to be funded.
23 They need to have control of the budget. They need to be
24 independent. They should be convened by a state or a
25 county, and by a nearby university -- anything but the

1 utility. And this is -- I mean, this is obvious -- you
2 know, obvious why that should be that way.

3 The other thing is your experience that has been
4 formed by all these decommissionings, we're wondering if it
5 has been formed by work, decommissioning, partial
6 decommissioning, or cleanup at DOE facilities and DOD
7 facilities. And if not, it certainly should be.

8 And I need to mention, finally, there is -- there
9 is the issue of absolute confirmation, that sites can be
10 prereleased or reused, if you're going to declare them being
11 refuel conditions. And I can cite as least two instances
12 this year: one, on the Chicago waterfront, where a lantern
13 mantle factory had been cleaned up and reused for public
14 use. They want to build a shopping center there. Gosh,
15 Ned, it turns out it is contaminated now that they've
16 started to remove soil, and the entire project is held up.

17 In California, there's a site for a school --
18 public school to be built on a former contaminated site. It
19 turns out when they start to dig, it is contaminated.
20 Parents -- not only has the project been held up, but
21 parents don't want to send their kids there. And so, I
22 think there needs to be some confirmatory process at the end
23 of decommissioning, but there, also, has to be -- in that
24 process into your GEIS. With only two plants totally
25 decommissioned, I don't think you have enough history to

1 come back to that. That's the end of my list.

2 MR. MASNICK: I have one question, Ray. I was --
3 I had trouble following one of the issues and that was the
4 symbiotic relationship. I mean, are you saying that we
5 should look at the radiological or -- radiological and non-
6 radiological impacts of --

7 MR. SHAVDIS: If you're going to call it an
8 environmental impact statement, it really needs to include
9 the environment for its own sake.

10 MR. MASNICK: Not just human?

11 MR. SHAVDIS: That is correct.

12 MR. MASNICK: I understand, okay.

13 MR. CAMERON: Did you get the connection between
14 process issues and anxiety, that impact?

15 MR. MASNICK: You know, the last time you asked me
16 a question, I got into big trouble, so I'm not going to
17 answer that.

18 MR. CAMERON: I'm not going to ask that. You
19 know, but I think that is pretty clear. We really do need
20 to get to the statements. Rosemary?

21 MS. BASSILAKIS: I'd like to have a meeting on
22 what we don't want you to include in the GEIS. So, maybe at
23 some point, we can have that kind of a meeting. But, again,
24 I'd like to just reiterate what Ray said, as far as offsite
25 recycling places and the doses that are incurred there,

1 absolutely have to be considered as part of decommissioning.
2 And, additionally, if the doses are being incurred offsite,
3 there should be less doses incurred onsite. So, of course,
4 you would want to decrease the person rem exposure allowed
5 at the nuclear facilities.

6 As far as the offsite contamination, the GEIS
7 should include something in that nature, as far as if
8 there's something that triggers either cleanup or triggers
9 perhaps environmental monitoring into the future. If you
10 look at the sediment, we found out, hey, these routine
11 releases really built up a lot more than I thought they
12 would. That should be looked at in the GEIS.

13 Keeping an eye on the whole picture, and I'm not
14 sure how you do that. But as part of the community
15 decommissioning advisory committee, one of the issues that
16 keeps coming up is no one is looking at the whole picture.
17 So, partial release of the site for unrestricted use, which
18 we oppose, but aside from that, who is looking at the whole
19 picture, with regard to why does the utility want to do
20 that? Oh, they want to build a gas fire plant. Oh, they're
21 going to, also, build dry storage, you know. Oh, they're
22 going to keep decommissioning the plant. Who is looking at
23 the whole picture with regard to all these different
24 activities that are supposedly going to go on simultaneously
25 and not jeopardize safe storage of the fuel? It doesn't

1 look like anybody is looking at that big picture and it's a
2 real big missing piece and people are very, very concerned
3 about it.

4 And fuel storage, as Ray said, as Casey said, fuel
5 storage, we don't seem to have an avenue where we can talk
6 about it. NRC says, hey, that's DOE's responsibility and we
7 can't get anything out of the DOE. But, you know, we're the
8 community that live there. We never lose sight of the whole
9 picture. And we need an avenue where we can talk about it;
10 we can be reassured that somebody is looking at the whole
11 picture.

12 MR. CAMERON: Just answer Rosemary.

13 MR. MASNI~~E~~K: I just wanted to respond to just one
14 comment you made and that is on the partial site release.
15 One of the things that we have been looking at is partial
16 site release and one of the things that we're very much
17 concerned about is the use of that property, if it is
18 released, both from the perspective of its impact on the
19 remaining activities at the site. So, that is -- that is a
20 real big concern for us. And, also, what the use of that
21 site is, as far as what residual radioactivity might be on
22 it. So, we are looking at that.

23 MR. CAMERON: Okay. Deb, I'm going to ask you to
24 maybe incorporate into your statement this question.

25 [Off mic.]

1 MR. CAMERON: Okay, well, then let me -- you've
2 got an example of an impact? Okay, good. That's great.

3 MS. KATZ: I don't want to make any statement
4 after this. I think the health problems in communities have
5 to be addressed as part of any GEIS, since their epidemics
6 of disease in these communities many times, and the effects
7 of any further contamination of the community. Since Yankee
8 Rowe continues to dump its radioactive waste during
9 decontamination into the Deerfield River, which affected our
10 community, we have a 10-fold increase in Down Syndrome,
11 statistical significance in breast cancer, non-Hodgkin's
12 lymphoma.

13 There has to be, we believe, updated environmental
14 reports that are done. The ones that were done at Rowe had
15 been old and inadequate and they hadn't been updated. We
16 believe they should be updated before even for the GEIS to
17 take place in adequate form. We are really concerned about
18 the plumes of contamination that are onsite underneath; in
19 Rowe's case, the radiated fuel pool, which there was a
20 release of radioactivity that went all the way down into the
21 Deerfield River, basically. And you may not care about what
22 happens offsite to us, but you have to understand that as
23 far as we're concerned, this is a betrayal of your
24 regulatory responsibility that any radioactive waste is left
25 in our community. Responsible or not, you have to

1 understand that we do not and will never take the same
2 position you do on radioactive contamination.

3 The public participation you have is hopelessly
4 inadequate. And I think you can see from tonight that,
5 basically, people are completely frustrated with you and
6 that we think you're clueless about what our concerns are
7 and what's going on, because it's the health and safety of
8 our children, not a game about how much workers are exposed.
9 At Rowe, you know, they released a lot of hot particles.
10 Workers may have tracked those home, into our community,
11 during the process of decontamination and the cutting up of
12 that vessel. We will never be able to find out what
13 happened to all of those hot particles and what left the
14 site. And the issue of hot particles and how it may affect
15 our community, as well as onsite, is very serious to us.

16 We do not agree with your IPO. The average member
17 of the critical -- the average member of the critical
18 population, being the measuring stake of how much
19 radioactivity we will find in the future, this may work for
20 workers during reactor operations; but when you're talking
21 about releasing to a site in which children will play, old
22 people will live, this is unconscionable and unacceptable.
23 The most vulnerable people, the critical population,
24 children, pregnant women, old people, should be the --
25 basically, the critical population at this point and we

1 don't accept the idea of an adult male, weighing somewhere
2 between 150 pounds to 200 pounds, who is outside 30 percent
3 of the time, being the measurement stake for what say.

4 We plead that the conflict between the NRC and EPA
5 has to be resolved, in terms of what gets left behind. We
6 want the NRC to accept the EPA's 15 millirem standard. As
7 far as the public is concerned, that's to -- there should be
8 nothing left behind, as far as we're concerned. That's what
9 we were promised at the beginning of this and all of this is
10 a game, to allow them to leave as much waste as they can.
11 We are concerned about using the workers at other sites and
12 even onsite, in terms of certain removal processes, not
13 calculating their doses. The nuclear doses and removal of
14 the steam generators at Yankee Rowe were not calculated as
15 part of the doses that took place and yet they were part of
16 decommissioning. We don't believe that that's acceptable in
17 terms of it and that, therefore, Rowe was able to -- like
18 there was less exposure than there actually was.

19 We don't like the ~~Morrison~~MARISSIM program, in
20 terms of -- it may be fine, in terms of six inches, but the
21 GAO report has come out. That's clear that until 1980,
22 reactors routinely and gravely did not keep documents on
23 waste, and we, six feet down -- or four feet down, six feet
24 from us. Therefore, there is a lot of waste potentially on
25 the reactor sites. In every site that the GAO investigated,

1 there was waste down, potential contamination down into the
2 groundwater. You may not be concerned about our
3 groundwater, but we are. And so the issue of the
4 methodology that's going to be created to determine that is
5 essential to us and should be determined before any of these
6 decommissionings go any further.

7 MR. CAMERON: Okay. Thanks, Deb. There was a --
8 you raised a point that some other people referred to as not
9 only what types of impacts, but the data that you use to
10 determine impacts has to be credible data; but, just to
11 summarize on that part, which I think you got.

12 We're going to go -- I'm sorry, Mary, right now,
13 we're going to Carl Dierker from EPA. We're going to start
14 our statements. Carl, you can -- you can come up here to
15 the mic or you can use this one, whatever you feel most
16 comfortable with. All right, good; all right.

17 MR. DIERKER: Good evening. Now, it's 10 past
18 10:00. I'll try to wrap these up. I'll try to be brief.
19 My name is Carl Dierker, regional counsel at EPA in the
20 Boston office. And first of all, I want to thank the NRC
21 for coming to the New England region. I think our region is
22 a region that's in the forefront of the decommissioning
23 process of commercial nuclear power plants across the
24 country. We have four plants that are presently in various
25 stages of dismantling. The group -- many people tonight

1 were talking about them: Maine Yankee, Yankee Rowe,
2 Connecticut Yankee, and Millstone Unit I. A lot of those
3 issues that have been raised here tonight, that folks have
4 talked about, are related to GEIS. I do want to focus
5 primarily on the GEIS and my comments and I want to speak a
6 little bit about EPA's role in the GEIS process.

7 Congress has given the Environmental Protection
8 Agency an independent role in reviewing other agency's
9 compliance with the National Environmental Policy Act and
10 we, in EPA New England, have taken this responsibility very
11 seriously. In this capacity, EPA has a number of roles.
12 Number one, we provide advice to federal agencies that
13 develop their NEPA documents. Number two, we advocate the
14 processes used in creating these documents that afford early
15 and substantive opportunities for public involvement.
16 Number three, we evaluate the adequacy of the agency's
17 environmental review. And number four, we recommend whether
18 projects undergoing environmental review should be modified
19 or mitigated, based on projected environmental impact. In
20 cases where the EPA administrator finds that the proposed
21 action is unsatisfactory from the standpoint of health or
22 welfare or environmental quality, the EPA administrator has
23 the responsibility to refer the matter to the President's
24 Council of Environmental Quality for resolution.

25 That's basically our role in this process. That

1 being said, EPA and a variety of stakeholders agree with the
2 NRC that the generic environmental impact statement for
3 decommissioning was published in 1988 needs to be updated
4 and revised. We applaud NRC's initiative in starting this
5 process to supplement the GEIS. NRC's scoping process
6 provides an opportunity for all interested parties to come
7 together and provide advice and comments and help define the
8 parameters of the environmental analysis. Because EPA plans
9 to provide advice to the NRC in the supplemental
10 environmental impact statement process, our comments here
11 will be brief and intend to provide a sense of EPA's
12 recommendations for the SEIS process. We will provide a
13 written comment, in addition, to supplement these.

14 We have seven recommendations for our -- for the
15 scope of the GEIS. And we recommend the SEIS be at least
16 broad enough to address these following issues.

17 Number one, the supplement should be updated to
18 incorporate and evaluate new decommissioning technologies
19 developed over the past decade. For technologies that are
20 still evolving and for which complete information is
21 unavailable, and for this we're primarily focusing on the
22 rubblization proposal, or where applications of certain
23 decommissioning techniques may have varying impacts
24 depending on the uniqueness of the character site, the SEIS
25 should recognize that these impacts will need to be further

1 examined in site-specific environmental analysis or further
2 revisions to the SEIS.

3 Number two, the SEIS should provide more detail
4 about specific decommissioning activities and technologies,
5 in order to accurately assess and fully disclose the
6 associated environmental impacts.

7 Number three, the SEIS should not assume that
8 merely radiation dose from a particular facility will be
9 reduced, decommissioning has always or even generally
10 environmentally benign. The SEIS should take into the
11 account the relevant environmental characteristics at the
12 site and the impacts from the use of the decommissioning
13 techniques.

14 Number four, because the GEIS is by definition
15 generic, it should provide substantive guidance as to the
16 kind and extent of further environmental information and
17 analysis necessary for the NRC to develop site specific NEPA
18 documents and for licensees to evaluate environmental
19 impacts, as required submissions in their PSDAR and the
20 license termination plan. It is important for the NRC to
21 commit to adequately address alternatives, environmental
22 impacts, and mitigation in either the SEIS or in the site-
23 specific analysis.

24 The SEIS should address whether and how to
25 incorporate findings of the EIS for the plant construction

1 and operation that typically do not address decommissioning,
2 subsequent environmental analyses that have accrued during
3 the plant operations, and reports on referenced facilities.
4 Additionally, this guidance should address the need to
5 assess the degree to which the environmental parameters of
6 the site may have changed during the operation of the
7 facility.

8 Number five, the SEIS should address relationships
9 between GEIS and other NRC regulations, such as the site
10 release criteria.

11 Number six, the SEIS should disclose and
12 distinguish between the impacts to the natural surroundings,
13 such as terrain, ecology, wildlife, climate, hydrology, and
14 the public and human health impacts.

15 And finally, number seven, this is one that we, at
16 EPA, of course, always consistently need to be working on as
17 well, we encourage the NRC to make the SEIS user friendly,
18 using plain English and straightforward explanations that
19 will provide the public understanding decommissioning
20 procedures, requirements, and environmental impacts. I
21 certainly must say that we, at EPA, need to help do that as
22 well, in our regulations.

23 We, at the EPA, look forward to working with the
24 NRC, as it develops what promises to be a particularly
25 needed, current, dynamic, and useful document, to which all

1 stakeholders will have the opportunity to contribute. We
2 believe that early and thorough public outreach
3 participation is essential for reaching the best solution in
4 environmentally complex issues, solutions that will have the
5 credibility with and maintain the support from the
6 surrounding communities. This SEIS is one small, but
7 important part of this critical public outreach
8 participation process that needs to be going on in each one
9 of these decommissioning sites.

10 Thank you, again, for coming to New England and
11 providing a forum to listen to the comments of our citizens,
12 who will be extensively involved in the decommissioning
13 process for the months and years ahead. I have a written
14 summary --

15 MR. CAMERON: Good. I think we can attach that to
16 the transcript, too, okay, and thank you, very much, for
17 those comments, Carl. We're going to go to the State of
18 Maine now. Pat?

19 MR. DOSTIE: Thank you, and for the record my name
20 is Pat Dostie from the State of Maine. I'm the State
21 Nuclear Safety Inspector and I thank you for the opportunity
22 to address the U.S. Nuclear Regulatory Commission tonight on
23 the draft -- supplement to the generic environmental impact
24 statement.

25 We understand the document under developed is

1 intended to encompass all power reactor decommissioning
2 projects in the United States, including the Maine Yankee
3 decommissioning. That makes the current process a pivotal
4 concern for the citizens of the State of Maine.

5 We wish to point out that NRC's commitment to a
6 thorough and careful technical discussion and a review of
7 the issues already identified, as well as those raised as a
8 result of this scoping process, will not only enhance the
9 public's confidence in the NRC's oversight of the
10 decommissioning, but also its regulatory processes in
11 general. A side comment: from some of the comments
12 tonight, I guess that's probably questionable.

13 At this time, we have three specific comments to
14 submit for NRC's consideration. First, as the NRC has
15 explained, the proposed documents update would replace an
16 antiquated document that does not reflect present
17 decommissioning practice. It is in the interest of the
18 State of Maine and Maine Yankee that the existing GEIS be
19 brought up to date with respect to new techniques, such as
20 rubblization. As suggested in the NRC staff white paper on
21 the rubblization process, the specific proposal embodied in
22 Maine Yankee's license termination plan is not yet analyzed
23 as to whether it is acceptable under the provisions of the
24 National Environmental Policy Act.

25 As Dr. Phillip Haines, Deputy Director of the

1 Maine Bureau of Health, commented at Maine Yankee's May
2 15th public meeting on its LTP, and I quote, "A matter which
3 the NRC should address promptly is the lack of an
4 environmental impact statement covering certain processes
5 described in the current Maine Yankee LTP. Specifically,
6 burial of rubblized radioactive concrete is a new procedure,
7 not covered in the existing GEIS, nor in any other EIS of
8 record. The NRC in its consideration of a revised GEIS is
9 addressing this. However, the revised GEIS is not likely to
10 be ready in time to review the Main Yankee LTP. Absent an
11 applicable GEIS, we believe that a full environmental
12 assessment should be done to determine if a site specific
13 EIS is necessary to properly consider the potential risks in
14 the proposed plan."

15 We do applaud and second the staff's position in
16 their white paper, which recognizes that the NRC must
17 fulfill its NEPA responsibilities before approving the use
18 of rubblization.

19 Secondly, since the proposed document will serve -
20 - and I think I heard something different tonight, but we're
21 under the impression that we will be facing existing
22 regulatory guidance, as far as NUREG 1496. Maybe not, based
23 on the slide; but, we do recommend that radiological issues
24 be revisited with particular care. A specific analysis
25 should be made for matters not otherwise covered in the

1 existing regulatory guidance such as the environmental
2 impact of residual subsurface radioactivity. Note that the
3 current series of regulatory guidance, built around the
4 Multi-Agency Radiation Survey and Site Investigation Manual,
5 MARSSIM, NUREG 1575, do not address the environmental impact
6 of residual radioactive material deeper than six inches
7 below the surface. Nor does it address such challenges as
8 activated concrete, activated rebar, internal contamination
9 in cracks, sub-slab contamination, and maybe contamination
10 in so-called in excess of the surfaces, some of which of
11 these were, also, noted in the Advisory Committee on Nuclear
12 Waste's January 24th letter report to the Commission.

13 Finally, and no less important, we are, also,
14 concerned about other environmental impacts. This was,
15 also, aptly expressed by Mr. Brooke Barnes, Deputy
16 Commissioner of the Maine Department of Environmental
17 Protection, at Maine Yankee's May 15th LTP meeting. And I
18 quote, "Decommissioning is not just about radiation. In
19 fact, it may well be that at this site, the potentially
20 significant environmental impacts are traditional concerns,
21 such as pH and other conventional contaminants -- PCBs,
22 heavy metals, and painted concrete."

23 Impacts to groundwater ~~form~~from rubblization
24 cannot be underestimated. Since there are additional
25 contaminants of concern other than radiation, then it is in

1 everyone's best interests that all agencies and stakeholders
2 work cooperatively for the common good and the best outcome.
3 In doing so, we will truly set a decommissioning standard
4 for the public good and the nation as a whole.

5 I, again, thank the NRC for the opportunity to
6 provide our comments on this scoping process. If we do have
7 other issues and we do identify them, then we will make sure
8 that those comments are submitted by the July 14th comment
9 deadline. I do have some copies here available.

10 MR. CAMERON: Thank you, very much, Pat. We're
11 going to go to Paul Genoa and then we'll go over to
12 Rosemary. Paul?

13 MR. GENOA: Yeah, thank you, Chip. Paul Genoa, G-
14 E-N-O-A, with NEI. I have a couple of brief comments, so I
15 won't be coming up front. First I want to say that I
16 believe these meetings are very important. I think a whole
17 range of issues were brought up tonight. Many of them were
18 inadequately addressed and I think, that, you know, because
19 they perhaps were outside of the scope planned for the
20 meeting. But, I think answers are important for the public,
21 because they have -- they have real concerns, and I think
22 those answers all exist. This isn't getting up and having a
23 conversation -- but I think those questions should be
24 answered.

25 And, finally, related to the GEIS, I think that

1 we, NEI, would agree that some of the subjects mentioned,
2 such as rubblization, entombment, and I'd like to agree with
3 my friend from Canada over here, that partial site release
4 is one of the first things that came to my mind, as well.
5 This is something that wasn't necessarily envisioned and it
6 is something that makes a lot of sense. It should be
7 covered. And I think, also, perhaps the whole issue of how
8 -- I agree that when components are cut within the reactor,
9 I think a true analysis of that -- do you give real people
10 today 100 man rem of exposure, you know, to cut these
11 components, so that you can perhaps avoid a hypothetical
12 risk to someone of greater than 25 millirem 10,000 years
13 from now is something that perhaps hasn't been clearly
14 evaluated.

15 And I guess I just would encourage the NRC to
16 think about the breadth of comments that get generated in
17 these meetings and, you know, maybe develop some frequently
18 asked questions or answers to frequently asked questions and
19 have them available to help you out, because you can't bring
20 the entire NRC staff with you and these questions do cover a
21 lot of range of issues. Thank you.

22 MR. CAMERON: Okay. Thank you, Paul. Rosemary,
23 do you want to use the hand held or do you want to come up
24 here?

25 MS. BASSILAKIS: I'm fine.

1 MR. CAMERON: Okay; okay. Thank you for being
2 here and for your comments. Mary?

3 MS. LAMPERT: My basic question is on radiation --
4 acceptable radiation levels. I think I've missed something.
5 I thought there was this ongoing debate between EPA and NRC,
6 EPA going for 15-4 and NRC going for 25 to who knows. I --
7 what I'm leading up to, I thought that had not been 100
8 percent resolved. It's been a year or so going. And if, in
9 fact that's correct, it would seem reasonable to me in
10 figuring out financial assurance to assume the more
11 conservative, hence, probably the more expensive level to
12 achieve, than to be going on the assumption that the higher
13 level is going to be God's last word, because then the bucks
14 won't be there and that will carry that ball going along.

15 MR. CAMERON: Okay. Another question on financial
16 assurance and a tie-in between the NRC standard. Can we say
17 anything about where the controversy between NRC and EPA
18 are, because I think that's what you want to know? Steve or
19 Stu?

20 MR. CAMPER: Yeah, Larry Camper.

21 MR. CAMERON: Okay. Let's go to -- Larry Camper
22 is branch chief of Decommissioning in our Office of Nuclear
23 Materials, Safety, and Safeguards.

24 MR. CAMPER: The difference between the EPA and
25 the NRC, perhaps even a controversy in the minds of some,

1 has been wrapped some time. This is the 25 millirem ALARA
2 that is embodied in our decommissioning rule versus a level
3 of risk that arises from the EPA regulations associated with
4 non-radioactive issues, chemical, in particular. It ranges
5 between 10 to the minus four, to the minus six. They have
6 been translated depending upon what value is used and what
7 assumptions are used for a particular calculation.

8 When this rule was put in place, the Commission
9 made a decision -- an ALARA value. The Commission believed
10 then, and continues to believe, that 25 millirem is adequate
11 to protect public health and safety. There is no scientific
12 data to the contrary. The two agencies still have a
13 difference of opinion about that, although the EPA has opted
14 thus far not to embody the 15~~-~~4 position as a standard. It
15 could do that, but it's opted thus far not to do that. Its
16 position, at this point in time, is a value that is derived
17 from its chemical regulations; therefore, this difference
18 continues. There has been discussions -- ongoing
19 discussions between agencies, as to how these issues might
20 be resolved.

21 The fundamental difference is that while one can
22 look 10 millirem or 15 millirem in the case -- look at this
23 and say it's a lower millirem, therefore, it's a better
24 number. There is -- a lot of scientific consideration has
25 to go into that. The two agencies differ from the approach

1 how do get those numbers. It really comes down to what
2 values you use.

3 [Off mic.]

4 MR. CAMERON: You're not getting on the -- Mary, I
5 think that Larry gave a good explanation of where the issues
6 stands and I think that Mike and Steve heard the financial
7 assurance implication. And if you need to talk further with
8 Larry, we'll do that. We have one last comment from Ray
9 Shavdis. Ray, you want to come up?

10 MR. SHAVDIS: In including proportional risks, if
11 there are any comparative risks, as you go through different
12 options and processes, I just want to urge caution in
13 putting in comparative risk numbers as offsets for various
14 whatever -- criteria of various processes. My specific
15 example, I think, comes from the decommissioning rules. I
16 recall that there was a risk comparative for truck drivers
17 hauling contaminated materials offsite. That was balanced
18 against the risk of the materials remaining onsite and
19 someone -- their health being affected by it. And when I
20 saw that, my question was, one, did the truck drivers make
21 this choice voluntarily or the decommissioning workers make
22 this choice voluntarily, whereas other people may be
23 inadvertently exposed not having the choice. And then
24 secondly, it occurred to me that if the truck drivers don't
25 get a job driving that stuff, they're going to driving

1 something else.

2 So, from that perspective, deemed that a
3 comparison and I just wanted to urge caution that they're
4 going to be putting those kinds of comparisons in. Thank
5 you.

6 MR. CAMERON: Thank you, very much, Ray. I'd just
7 like to thank everybody for coming out and for your
8 attention and thought on this. And I'm going to ask Stu
9 Richards, who is the manager on this, along with Mike on
10 this, Stu to say a final word for us.

11 MR. RICHARDS: I'd like to thank everybody for
12 coming out tonight and appreciate all your comments. I'd
13 like to respond to one question Mr. Sha~~v~~dis asked. I think
14 you asked whether we're motivated to do this. The industry,
15 for some reason, would have made their life easier, but I
16 can tell you right now for the record, the answer is no. I
17 want to make that is very clear, the answer is no.

18 Again, as we've told you at the beginning of the
19 meeting, there is an opportunity provide written comments.
20 I think Dino Scaletti provided his e-mail address and surely
21 will take comments that way, also. We've got a lot of
22 feedback tonight. So, we certainly appreciate all of your
23 comments. Unless there is something else, thank you, again.

24 [Whereupon, at 10:40 p.m., the meeting was
25 concluded.]