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Supplement to the Environmental Impact Statement for the Proposed Geologic Repository at Yucca Mountain, Nevada

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## UNITED STATES OF AMERICA NUCLEAR REGULATORY COMMISSION

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PUBLIC MEETING ON THE NRC STAFF'S

DRAFT SUPPLEMENT TO THE

ENVIRONMENTAL IMPACT STATEMENT

FOR THE PROPOSED GEOLOGIC REPOSITORY

AT YUCCA MOUNTAIN, NEVADA

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THURSDAY

OCTOBER 15, 2015

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The Public Meeting was convened via teleconference at 2:00 p.m., Chip Cameron, Facilitator, presiding.

## PRESENT

CHIP CAMERON, Facilitator

ADAM GENDELMAN, Office of the General Counsel

CHRISTINE PINEDA, Senior Project Manager, Yucca

Mountain Directorate, NMSS

JAMES RUBENSTONE, Acting Director, Yucca

Mountain Directorate, NMSS

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

2:00 p.m.

MR. CAMERON: Okay. Thank you, Sydney. Good afternoon, everybody, on the phones. My name is Chip Cameron, and I wanted to welcome you to today's meeting.

The topic today is the Draft Supplemental Environmental Impact Statement on Groundwater Issues at Yucca Mountain Repository for High-Level Waste Disposal. The draft was prepared by the Nuclear Regulatory Commission, the NRC, and the NRC would have licensing authority over any repository proposed for Yucca Mountain.

My pleasure to serve as your facilitator for today's meeting. And our meeting today will be conducted over the phone. The NRC has held previous public meetings on this subject in front of live audiences in Rockville, Maryland; Las Vegas, Nevada; and Amargosa Valley, Nevada, but today's meeting by phone only is to give all of you another opportunity to comment on the Draft Environmental Impact Statement.

Listening to your comments today is a prime objective of the meeting. Other important objectives are to have the NRC Staff clearly explain to you not only the process for the Environmental Impact Statement, but

also to tell you some information about the findings in the Draft EIS. And I'm emphasizing the word "draft." This Environmental Impact Statement will not be finalized until the NRC has considered all of the comments from this phone meeting today, the other public meetings, as well as written comments that are submitted on the Draft EIS, and the NRC Staff will be telling you how to submit written comments in a few minutes.

The format today is very simple. We're going to have some brief NRC presentations. Then we're going to have a short time for clarifying questions on the EIS process, and then we're going to go to comments from all of you who wish to make them. And during that comment portion of the meeting, the NRC Staff is not going to engage in a discussion with you about your comments, but they will be listening carefully, and they will consider your comments in preparing the Final Environmental Impact Statement.

If you reference a document in your comments such as a map or a study, the NRC Staff may ask you, remind you to submit that document with your comments.

In terms of ground rules, after the NRC Staff presentations, we'll go out to you for clarifying questions, and then for comments. And as Sydney has told

you, and I think she'll remind you again; Sydney is the operator managing the phone call. She'll ask you to press star, 1 on your phone, and then she's going to place your call in line to come into the room here at NRC Headquarters in Rockville, Maryland. And as always, I would ask you to be crisp in your comments so that we can make sure that we hear from everyone who wants to talk before we adjourn today. So, I'm asking you to follow a five-minute rule in your comments. And, fortunately, if you want to amplify on your oral comments today, you can do that by submitting a written comment to the NRC.

The focus of the meeting, the focus of the Draft Supplemental Environmental Impact Statement are groundwater issues at Yucca Mountain, and I know that you might have broader concerns than groundwater. The Yucca Mountain repository process has been long and complicated, and there's been many, many issues, but the NRC Staff is going to listen to any concern you raise, but it would be most helpful to hear comments on the groundwater issues in the Draft Environmental Impact Statement.

And, finally, we're transcribing this meeting and that's going to be NRC's record, and your record of what happened today on the phones. And please

note that we have all of your comments from the previous meetings. You can comment again, if you want to, but if you're worried that the NRC did not hear your comment, you don't have to worry about that. They have all of the comments.

Let me introduce our speakers from the NRC Staff. First, we're going to go to Jim Rubenstone. Jim is the Acting Director of the Yucca Mountain Project Directorate in the Office of Nuclear Material Safety and Safeguards here at NRC Headquarters in Rockville, Maryland. Then we're going to go to Christine Pineda. Christine is the Senior Project Manager in the Directorate. And we also, although he doesn't have a speaking role, we do have Adam Gendelman here. Adam is the counsel to the Yucca Mountain Project Directorate from NRC's Office of General Counsel, and if there are any legal issues, he'll be able to deal with all those.

And with that, I thank you for being on the phone, and I'm going to turn it over to Jim Rubenstone.

MR. RUBENSTONE: Thank you, Chip. Good afternoon to everyone on the phone, and welcome to this, our fourth public meeting on the NRC's Draft Supplement to the Department of Energy's Environmental Impact Statements for a Geologic Repository for Spent Nuclear Fuel and High-Level Radioactive Waste at Yucca

Mountain, Nevada.

As Chip said, I'm Jim Rubenstone. I'm Acting Director of the Yucca Mountain Directorate at NRC. And I think as you all know, the NRC has released this Draft Supplement for public comment. The public comment period began on August 21st, originally for a comment period of 60 days, but in response to formal requests from the State of Nevada, Nye County, and others, NRC has extended this comment period for an additional month, so it now closes on November 20th.

We have scheduled an additional public teleconference, as well as this one, to receive comments that will be on November 12th during this extended period.

As Chip noted, public comments are very important to the NRC, and one of the purposes today is to accept your comments. We want to be sure that they are properly captured and can be addressed, so today's call is being recorded and will be transcribed.

Let me remind you that in addition to providing your comments at this and at our other public meetings, comments could be submitted by mail to NRC or through the website Regulations.gov. More details on how to submit comments are available on the NRC public website to <a href="https://www.nrc.gov">www.nrc.gov</a>, under the Radioactive Waste

High-Level Waste Disposal Key Documents drop-down.

The transcripts, meeting summaries, and handouts from our other public meetings are also available at the same page on the NRC website, and we will be posting the transcript and meeting summary from today's call at the same page as soon as they are available.

Let me now introduce Christine Pineda, who is the Senior Project Manager in the Yucca Mountain Directorate, and she will introduce the Draft Supplement, and describe the opportunities for providing comments.

MS. PINEDA: Thanks, Jim. Hi, everyone, and thank you for your interest in the NRC's Supplement to the Department of Energy's Environmental Impact Statement for the proposed Yucca Mountain repository.

The agenda for this call is similar to the agenda for our public meetings in September, as Chip described. First, I'll provide some background about the NRC's environmental review process for the Yucca Mountain repository, and describe the areas covered by the Draft Supplement. And I will follow the order of the slides that we used for the September meetings; although, we're not using slides for this call. And if you want, you can access the slides by going to the NRC's

web page, as Jim described, at <a href="www.nrc.gov">www.nrc.gov</a>, then to Radioactive Waste, then High-Level Radioactive Waste Disposal, and then Key Documents.

After my overview of the Supplement, we'll have an opportunity for you to ask clarifying questions, and then we'll go to the public comment portion of the call. As Chip mentioned, try to keep your comments to about five minutes.

So, how did we get to this point in the NRC's environmental review process for the repository? The framework for the NRC's environmental review process is defined by the National Environmental Policy Act, and that Act requires that federal agencies consider the environmental consequences of their proposed actions.

The NRC's proposed actions are licensing actions or rulemakings, and the NRC develops Environmental Impact Statements, or Environmental Assessments for these types of actions. The Nuclear Waste Policy Act requires that the Department of Energy prepare the Environmental Impact Statement for the proposed repository, and it also requires that the NRC adopt the Department of Energy's Environmental Impact Statement to the extent practicable.

A number of events or activities have occurred over the last several years that relate to the

NRC's environmental review process. The Department of Energy published its Final Environmental Impact Statement in 2002, and it submitted that EIS along with its site recommendation to the President in 2002.

In 2008, the Department of Energy published a Final Supplemental Environmental Impact Statement, which supplemented the entire 2002 repository Environmental Impact Statement. And in 2008, the Department of Energy submitted that EIS along with its original EIS and its license application to the NRC for review.

The NRC Staff reviewed the Department of Energy's Environmental Impact Statements and issued what we refer to as our Adoption Determination Report, and we issued that in September of 2008.

Determination Report? We determined that the Department of Energy's EISs could be adopted, but that supplementation was needed. The Adoption Determination Report describes the scope of the needed analysis stating that further characterization was needed of how the groundwater moves through the aquifer, especially beyond the post-closure regulatory compliance point.

The Staff also determined in the Adoption Determination Report that an assessment was needed of

the potential impacts from the repository that could occur beyond the regulatory compliance point. So, these would be the potential impacts on the aquifer from contaminants coming from the repository, as well as the impacts at locations where groundwater discharges to the surface.

The Staff also concluded in that report that further characterization of the aquifer and the potential impacts should account for both radiological and non-radiological contaminants.

You may be wondering why the NRC Staff is supplementing the Department of Energy's EISs, and it is a complicated chain of events leading up to this point. In 2008, when we issued our Adoption Determination Report, the NRC requested that the Department of Energy produce the needed supplements, but at that time the Department of Energy deferred to the NRC.

In 2011, the Commission directed the NRC Staff and the NRC's Atomic Safety and Licensing Board to cease its license review and hearing activities related to the repository in response to a lack of continued funding for the project.

In 2013, the Court of Appeals for the District of Columbia Circuit ordered the NRC to continue

its licensing activities as long as it still had funds available from appropriations that were made previous years. In response to the court decision, the Commission directed the Staff to complete its Safety Evaluation Report, which was finished in January of this year. The Commission also requested that the Department of Energy complete the needed supplementation for the Environmental Impact Statement. But, aqain, the Department of Energy deferred to the NRC, Commission directed the Staff to develop the Supplement, which we began to work on after completing the Safety Evaluation Report.

The scope of the Supplement, as I mentioned earlier, is described in our Adoption Determination Report, and the scope is limited because the Staff determined in that report that the EISs were otherwise acceptable to be adopted by the NRC.

in the Supplement is the area of the groundwater flow path that could include contaminant releases from the repository. The focus is on the area beyond the post-closure regulatory compliance point. From that point onward, the groundwater flows through the Amargosa Desert and, ultimately, to the Furnace Creek and Middle Basin areas of Death Valley. The groundwater

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reaches the surface both in irrigation areas and natural discharge areas. For example, in the Amargosa Valley area, groundwater is pumped for the irrigation of crops.

As its primary model of the regional groundwater system, the NRC Staff used the Death Valley Regional Groundwater Flow System Model developed by the United States Geological Survey. You can see the area encompassed by the model if you click on the poster titled "Regional Groundwater Flow System," on our Key Documents web page, or Slide 8 of the presentation from the September meetings.

The resources that we determined could be affected by potential contaminants from the repository entering the groundwater include the groundwater itself, which we refer to in the Supplement as the Aquifer Environment, and we refer to it that way because we consider the rock that the groundwater is flowing through, whether it's bedrock or sediment, because some contaminants can become attached to rock particles, while others may flow along with the groundwater.

We also looked at impacts on soils at locations where the groundwater discharges to the ground surface, impacts on public health, if members of the public were exposed to contaminated soils or groundwater, and impacts on vegetation and wildlife. We

looked at the potential for disproportionate impacts on minorities or low-income populations that may be located in the areas of groundwater pumping, or at natural surface discharge locations.

The framework for the analysis, or the key elements of the analysis are the consideration of radiological and non-radiological contaminants, and consideration of the potential impacts from those contaminants for a period of one million years after the repository would be closed.

The NRC Staff's analysis builds on DOE's model of repository performance that the NRC Staff assessed in its Safety Evaluation Report. In our analysis in the Supplement, we considered different groundwater pumping and climate cases so that we could identify a good range of potential impacts. For groundwater pumping, we assumed in one case that groundwater would pumped as is currently occurring at Amargosa Farms for irrigation. And for that case, we conservatively assumed that all the contaminants that enter the groundwater from the repository and flow to that point would be drawn up through the pumping.

In another case, we assumed that no groundwater pumping occurred, and in that situation all of the groundwater would be left to flow to natural

surface discharge locations. And for each discharge location, we assumed conservatively that all of the contaminants would reach the ground surface.

We also looked at two different climate cases. In one case, we assume a hot and dry climate similar to today's climate. And this case also encompasses the conditions of a hotter climate that we might see in the near future.

In another case, we assume a cooler and wetter climate which would experience more precipitation, and this would result in more water entering the groundwater system, which could affect the concentrations of the contaminants flowing through that system.

Both the amount of groundwater pumping and climate could also affect where groundwater would reach the surface. For example, in the case of a wetter future climate, ancient springs that are now dry areas could become active again. If you happen to be looking at the slides from the previous meetings, you can see how these spring areas look currently on Slide 12.

What conclusions does the Staff make in the Supplement? The Supplement concludes that the potential direct and indirect impacts from contaminants entering the groundwater from the repository would be small, and

1 the NRC defines "small" as the environmental effects would not be detectible, or would be so minor that they 2 would not noticeably alter important attributes of the 3 4 resources that we assessed the impact for. 5 Likewise, we concluded that the potential cumulative impacts would be small, and these are impacts 6 from the repository alone when combined with the 7 potential impacts from other activities in the region, 8 such as activities on the Nevada test site. 9 10 The Staff ultimately determined that our 11 impact conclusions are consistent with our 12 understanding of how the potential contaminants would 13 move through the aquifer. That summarizes our Draft Supplement. The 14 15 next steps, we will have another teleconference, as Jim 16 mentioned, to receive comments on November 12th, and the 17 comment period closes November 20th. We will then take 18 all the public comments we have received, read them, 19 summarize them, and provide responses to the comment summaries. The responses will be in an appendix to the 20 21 Final Supplement that we'll publish in the first-half 22 of next year. Now we can take some clarifying questions 23 about the NRC's process. 24

MR. CAMERON: Okay. Sydney, can you see if

1 anybody has a clarifying question on the process for us, 2 and then put that person into the room? OPERATOR: At this time, if you do have a 3 4 question, please press star 1 at record your name at the prompt. I will then open your line. Again, star 1 if you 5 do have a question. It will take just a moment for people 6 7 to come in. MR. CAMERON: Okay. Do we have Cecile Pineda 8 on the line? 9 OPERATOR: Cecile, your line is open. 10 MS. PINEDA: Thank you very much for your 11 12 commentary, Christine and Jim. My hat is off to you; 13 your ability to prophesy what will be pertaining conditions on this planet one million years from now is 14 15 truly astounding, and you have my deep congratulations. 16 I am a mere mortal, so I cannot foresee a million years 17 ahead. 18 What I can share, however, is that the 19 western Shoshone whose land of this repository happens to be proposed for, know that that mountain is swimming 20 21 west, and they have known that before contact; that is, 22 before the White man, number one. Number two, that mountain is 10 percent 23 water. Any kind of burial system that you can create will 24 impervious leaching 25 not be to the constant

18 1 salt-contaminated waters. Under those conditions, any 2 canisters that are deposited there will begin to 3 disintegrate within 20 minutes. 4 MR. CAMERON: Cecile ---5 MS. PINEDA: I want to refer you to my sources because I think that before any further 6 7 discussion is necessary, it is very important to factor in more information. 8 The first one is a film. The director is 9 The title of the film is "Into 10 Michael Madsen. Eternity, " and it documents what the experience is in 11 12 Finland at Onkalo, which is deep depository that has 13 been designed and is currently under construction in solid granite, and is a very important document that 14 15 must be looked at before any kinds of decisions like that 16 can be made.

The second source is equally important. It is a book by John, J-O-H-N, D'Agata, capital D, apostrophe, capital A-G-A-T-A, and the title is "About a Mountain." It documents precisely what the various steps and missteps have been in terms of trying to create a depository out of Yucca Mountain.

The last comment that I basically have to make is that fundamentally, nuclear energy does not have a proper means of disposal, and that any kind of attempt

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to identify Yucca Mountain or any other location as a repository is simply window dressing to make people less afraid of what will happen to waste substances.

I think that alternative technologies need to be investigated, and some do exist. They are in a purely hypothetical stage as yet, and one of them is called the Roy Process, that's R-O-Y, and it has to do with the possibility of transforming highly, highly radiological waste into something that is far less toxic. But I do counsel you to consider that Yucca Mountain will yet again be another boondoggle. Billions of dollars will be allocated to it, and the same thing will occur. It will become very, very apparent that Yucca Mountain is simply not a suitable location for such a depository because the mountain is swimming west, and it will have moved a great deal in the next million years. And at the same time, any kind of drip from any kind --- in any kind of storage area is going to corrode whatever canisters are placed there, and that process will begin within 20 minutes. Thank you very much.

MR. CAMERON: Thank you, Cecile. We're going to consider that as a formal comment. And I'd just like to remind everybody at this point of two things. One, this is an opportunity to ask a question, a clarifying question on process. This is not the opportunity to make

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1	your comment, which we're really interested in hearing.
2	And, secondly, we are going to hold people to, when we
3	do get the comments, to a five-minute ground rule.
4	Now, we're going to go to another
5	opportunity for a clarifying question, and that's to
6	Kenneth Freelain. Kenneth, can you put Sydney, can
7	you put Kenneth in?
8	OPERATOR: His line is now open.
9	MR. FREELAIN: Yes, hello. Can you hear me?
10	MR. CAMERON: Yes.
11	MR. FREELAIN: It is possible that perhaps
12	I should make my statement a little later in a different
13	part of the program.
14	MR. CAMERON: I think if it's a comment,
15	Kenneth, I think we would ask you to save that so we can
16	just make sure that we get any clarifications on the
17	record, and then we'll go to those comments. And I'll
18	make sure that when we go to the comment period we're
19	going to start with you first. Okay?
20	MR. FREELAIN: Okay.
21	MR. CAMERON: All right. Thank you, Kenneth.
22	MR. FREELAIN: Sure thing.
23	MR. CAMERON: Okay. And we have Mary Olson
24	with, perhaps, a clarifying question. Mary?
25	MS. OLSON: Hey, Chip Cameron, can you hear

me?

2 MR. CAMERON: Yes.

MS. OLSON: Okay. I have two questions. I understand that there was a court directive to get this piece of work done, this Supplement, but what options do people have to at this juncture challenge the idea of supplementing the previous documents? In other words, there's been so many shifts and changes that have occurred, that supplementing documents that are out of date is, in our view, what's happening. So, the first question is, are there options in the NRC's regulatory processes for someone to engage with that, as opposed to commenting on the product, you know?

And then my second question, a little bit further afield, but maybe someone can address it; which is, if the licensing proceeding were to resume on Yucca, this is sort of happening with the Staff's issuing those documents, but were the full proceeding to be resumed, will there be a Federal Register Notice, and what will be the juncture? I mean, will there be an opportunity for additional parties at that time, since the whole thing was suspended, or how will that kick-start happen, if it does?

MR. CAMERON: Thanks, Mary. And we're going to go to Staff Counsel, Adam Gendelman, to address both

of your questions. The first one was the ability to comment on other documents that may have been superseded by events. And the second question was related to the process, if it ever gets started again, how will the public get notice? Will there be an opportunity for other parties to join the adjudicatory hearing? And I'm going to turn it over to Adam now on both of those questions.

MR. GENDELMAN: This is Adam Gendelman.

Thank you for the questions.

First, with regard to the decision to supplement and the NRC Staff process, the NRC Staff supplemented the EIS consistent with direction from the Commission. With regard to the other documents, for example, the other NEPA documents, there are currently admitted Contentions in the suspended adjudication concerning those documents, but beyond that, I don't believe there's an opportunity to comment on the process as it's occurred to this point.

With regard to the potential resumption of the adjudication, I would be very hesitant to speculate on if and when that could occur. But, in general, if it did, there would certainly be robust notice of its resumption. And if additional parties sought to join the adjudication at that point following our Rules of

1 Practice in Part 2, that opportunity would present 2 itself. MR. CAMERON: And, Mary, do you have a 3 4 follow-up for hearing Adam's answers? Okay, thank you, Mary, for the questions. And I believe that's all the 5 6 clarifying questions we have, so we are going to go to 7 comment now. And as promised, we're going to go to Kenneth Freelain first. Sydney, could you put Kenneth 8 through to us? 9 10 OPERATOR: One moment. Kenneth, your line is 11 now open. 12 MR. FREELAIN: Okay, thank you. My name is 13 Kenneth Freelain, and I am a licensed professional 14 engineer. I can be reached by telephone at 301-891-0496. 15 I can be reached by email at the following email address; 16 engineering, E-N-G-I-N-E-E-R-I-N-G, dot or period, 17 tribute, T-R-I-B-U-T-E@gmail.com. In this brief statement, I will outline 18 19 some of the reasons why the Yucca Mountain Nuclear Waste 20 Repository should be discussed and analyzed during the 21 forthcoming Engineering Tribute to the Presidential 22 Inauguration of January 20th, 2017. 23 Engineering Tribute will The be videotaped, and then it will be aired on television, so 24 25 I am now extending this open invitation to individuals,

to corporations, and/or to government agencies who wish to participate by taking one of the following two choices. Choice number one, by providing me with prerecorded material which has already been prerecorded for television broadcasting; or choice number two, by coming into our television studios and then recording the material which can be aired on television at a later time.

The forthcoming Engineering Tribute should include information about the Nuclear Regulatory Commission, the United States Department of Energy, and/or the proposed Yucca Mountain Nuclear Waste Repository.

Now, here is some historical background information about the Engineering Tribute. During various Engineering Tributes, a variety of subjects have been discussed over the years, including bridges, roads, the condition of the infrastructure, water supplies, environmental protection, climate control, mass transit systems, et cetera. The next Engineering Tribute is scheduled to take place after the Presidential Inauguration of January 20th, 2017.

During past Engineering Tributes, various individuals, governmental agencies, organizations have participated in using the following material.

The following three topics should be included in the Engineering Tribute of 2017, which is approximately a year and a half away. Information --- this is Topic 1, information about the Yucca Mountain Nuclear Waste Repository. Topic 2, information pertaining to the United States Department of Energy. And Topic 3, information which is relevant to the United States Nuclear Regulatory Commission.

The closing of the Yucca Mountain Nuclear Waste Repository leaves many American non-governmental entities, such as utilities, without any designated long-term storage site for the high-level radioactive waste which is stored on site at various nuclear facilities around the country. Right now, the United States Government disposes of its nuclear waste at the Waste Isolation Pilot Plant in New Mexico in rooms which are located underground. The Department of Energy is reviewing other options for a high-level waste repository.

I want to thank you for your time and attention, and interested prospective participants are welcome to call me, Kenneth Freelain, at 301-891-0496. Those who care to correspond with me by email may use the following address: <a href="mailto:Engineering.tribute@gmail.gov">Engineering.tribute@gmail.gov</a>. Thank you.

CAMERON: Thank you, 1 MR. Kenneth, for 2 telling us about the Engineering Tribute. And we remember you from when you came to our first public 3 4 meeting here in Rockville, Maryland. So, thank you, Kenneth. 5 And now we're going to go --- okay, we're 6 7 going to comment and if you press star 1, Sydney will put you in the queue. And please introduce yourself to 8 9 us. 10 OPERATOR: I'm showing one comment coming in. Please stand by. Our first comment will come from 11 12 Bill Stremmel. Your line is now open. 13 MR. STREMMEL: Thank you. Particularly responding to the woman from the Shoshone Tribe, and she 14 15 seems to echo this general line of criticism that Yucca 16 Mountain is not perfect, so we've got to start the whole 17 thing all over again, and either find another 18 centralized repository, or just do things at the 19 individual sites which we have now over 100, they're disasters waiting to happen, whether it's the fuel rods 20 21 sitting in the pools, or if they're already in casks, but it's still --- these have to be individually 22 23 secured, maintained. It's just impossible to replicate the 24

degree of protection and mitigation that we can do with

the supervised at all these locations. We have a disaster ongoing at Hanford Nuclear Reservation in Washington State. The waste that was in liquid was meant to be solidified in new casks and brought down to Yucca Mountain. Because the project has been delayed purely for political, not technical reasons, it has to stay up there in liquid form, and now it's --- we have a radioactive pool heading for the Columbia River. Nobody knows how to stop it. If it goes get in the watershed, heaven forbid, that all the efforts we've had to restore the salmon run will be for naught. It will just be permanently poisonous and rendered inedible for human consumption. That's just one of many examples.

The Indian Point plant off of New York City, the two planes that crashed into the Trade Center, they could have just swooped down and if they had hit that pool instead, we would have had a much greater catastrophe than what did happen on 9/11. We would have had to immediately evacuate over 16 million people from the disposal of the radioactive content.

So, these are examples of why the present situation of leaving of waste scattered around the country is just unacceptable. Maybe there is some technology for rendering it harmless, but to undertake all these activities, which is essentially reprocessing

again, you run the risk of leakage and whatever replicated over 100 places around the country.

We cannot complete the decommissioning process at any of these plants. Some of them were closed decades ago, until the waste is removed off the site. And this is tying up a lot of valuable real estate. Almost all of it is prime water frontage because the plants had to be on some body of water, river, lake, ocean for their cooling. And we can't redevelop this land, also because people are afraid of, you know, the specter of knowing that waste is proximate. It depresses the property values around. So, I was just at a seminar in Nevada chaired by Gary Hollis, and he explained, just went down the line why Yucca Mountain is just about the only suitable location in the country.

Sure, maybe as the woman said, in a million years theoretically it's supposed to flow, but that's true of just about any place on the earth's crust. I mean, we need to do something. I think this is the best way forward.

Finally, I do want to ask if there was any possibility of leakage. There's leakage going on now. People don't acknowledge it. There's waste constantly being plugged into Shoshone up on 27 and 178, and to Peralta to the Nuclear Security Sites. But if there was

any leakage in addition to what's happening now, will 2 they consider say a pilot desalination pipeline from the replace that 3 our groundwater 4 contaminated? 5 And, finally, there's a matter of if we had Yucca Mountain, what is currently being trucked in, it 6 would be feasible to establish a rail line all the way 7 down there, and then put everything, including what's 8 coming in now onto railroad and cease the trucking all 9 10 together. And rail is apparently more secure and safe because it's self-steering, as opposed to trucks which 11 12 can run the highways and suffer a much higher degree of 13 accidents. So, that's the end of my comments. MR. CAMERON: Thank you. Thank you very 14 15 much, Bill. 16 We're going to hear from Marty Malsch now, 17 and then David Schonberger, and then Susan Carpenter. So, Marty, are you on the line? Sydney, can you put Marty 18 19 Malsch through? OPERATOR: His line is now open. 20 21 MR. MALSCH: Okay. Thank you, Chip. This is 22 Marty Malsch, Egan, Fitzpatrick, Malsch, and Lawrence 23 representing the State of Nevada. 24 I had one comment and a related question, 25 another question. The comment arises from a and

1 statement the Staff made on page 3-35 of Section 3.3 of 2 their Draft Environmental Impact Statement. 3 At the top of that page, the NRC Staff concludes that "DOE would need to assess whether further 4 5 consultation and investigation are necessary to account for potential impacts on cultural resources that may be 6 7 located in areas where groundwater discharges to the surface." 8 It strikes me this is an issue within the 9 10 scope of the SEIS, as the Staff has defined it; yet, it 11 indicates that there's an incomplete evaluation. So, 12 I'm wondering whether the Staff plans to take any 13 additional steps to close this issue out? And my second question is really whether in 14 15 light of what has happened so far, and the comments that 16 have been received so far, whether the Staff foresees 17 any changes to its schedule or its resources estimates 18 for completing the SEIS? Thank you. 19 MR. CAMERON: Okay. Thanks, Marty. Usually, we don't answer questions raised during the comment 20 21 period, but your questions are very pertinent. And I 22 think Jim Rubenstone is going to attempt to address 23 those now. Jim? 24 MR. RUBENSTONE: Yes. first On your 25 question, I think we're --- our activities planned

1 right now are limited to finalizing this Supplement to the Environmental Impact Statement. 2 3 And on your second question, as of now we 4 have a schedule which has comment period closing on November 20th. And at that point, we will evaluate based 5 on the volume and complexity of the comments whether we 6 7 need to revise our plan to complete the Final in the first half of 2006, or 16. Excuse me. 8 MR. CAMERON: Okay, thank you. Thank you, 9 Marty. Did you have a comment, or was that it? All right. 10 Well, we're going to go to David Schonberger now. 11 12 Sydney, can you put David into the call? 13 OPERATOR: He is now on talk. MR. SCHONBERGER: Hello. 14 15 MR. CAMERON: Hi. 16 MR. SCHONBERGER: Yes. This is 17 Schonberger, member of the public calling from the State of Michigan to submit comments on NUREG-2184 Draft SEIS. 18 19 So for Michigan, I would say that there are tremendous groundwater and surface water issues 20 21 pertaining to the Yucca Mountain facility, which are, 22 in fact, applicable to the Great Lakes Region where I live. So, I do request, therefore, that additional 23 in-person public meetings be scheduled in the Great 24

Lakes Region, including Michigan specifically, where

there are aging reactors that will need to be decommissioned.

The opening of the Yucca Mountain facility would trigger the launch of unprecedented large-scale interstate shipments of radioactive materials by train, truck, and barge. There are groundwater and surface water implications to that.

I contend that the Draft SEIS is currently deficient for failing to take a hard look at the siloed federal regulations governing the nation's transportation infrastructure; specifically, including the current lack of any federal standards for railroad wear and cracking.

In rebuttal to a previous commenter, rail safetv is overseen by the Federal Railroad Administration, but the rail industry has successfully opposed enacting any federal rules on track wear, so that the railroad companies are allowed to use their own voluntary internal quidelines to self-regulate. The industry's record is terrible as evidenced by recent oil train accidents which have impacted surface water and groundwater resources in this country. It is reasonably foreseeable that the heavy weight and the dynamic loads of Yucca train shipments heading to Nevada from Michigan could cause track weaknesses on the rail lines to fail.

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1	This issue has not been comprehensively analyzed, or
2	alternatives addressed, or mitigation proposed by the
3	Draft SEIS, simply due to the limitation of scope of your
4	Agency's jurisdiction. So, therefore, your Draft SEIS
5	is inherently structurally flawed, and incomplete, and
6	inadequate. Thank you.
7	MR. CAMERON: Thank you very much, David.
8	And the Staff did hear your request for meetings in
9	Michigan. Thank you.
10	Sydney, could you put Susan Carpenter in to
11	us?
12	OPERATOR: Susan's line is now open.
13	MS. CARPENTER: Thank you. Thank you for the
14	opportunity to speak.
15	First of all, I am rather appalled that we
16	are sitting here talking about Yucca Mountain today. I
17	am not sure how this came about, because everything I
18	had read basically disqualified it, and the only reason
19	it was chosen is because Nevada was politically
20	vulnerable.
21	I'm worried about the timeline. You're
22	talking about putting in storage. First of all, there's
23	not enough storage space in Yucca Mountain for all of

that you're talking about putting the waste there,

leaving it for 100 years, and then installing titanium drip shields, which makes no sense to me because if there's a problem with groundwater, then those shields are necessary. But if everything is safe as you say, then it kind of makes the question pointless.

I was thinking about this. I was thinking we're talking about 10,000 years, and now I'm hearing a million years. And it was only a few thousand years ago that we entered --- we left the Stone Age. And how we can have the arrogance to think that we can basically handle a situation that far in the future. I consider what happens in four years as a Presidential term, and imagine this extended into a million years. And we have no idea what will be happening then. We have no idea how man will evolve, how the world situation will be. And I think we're just biting off far more than we can chew, with the thoughts of taking all of this radiation material, radioactive waste and moving it across country, when we know the average rate of accidents in different areas, and can factor that in. And I think it's a very bad idea.

I was very interested in what Cecile Pineda had to say, and I will follow-up those sources. But I thank you.

MR. CAMERON: Okay. Thank you, Susan. And

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1	Welre going to go next to Margin Lowis then to Carah
1	we're going to go next to Marvin Lewis, then to Sarah
2	Fields, then to Paula Gotsch. And, Sydney, could you put
3	Marvin into us, please?
4	OPERATOR: Marvin's line is now open.
5	MR. CAMERON: Are you there, Marvin?
6	OPERATOR: Marvin, please check your mute
7	button or pick up your handset.
8	MR. LEWIS: This is Marvin.
9	MR. CAMERON: Hi, Marvin.
LO	MR. LEWIS: Are you ready for my question or
L1	comment? Thank you.
L2	MR. CAMERON: Yes.
L3	MR. LEWIS: Well, initially, I mean like
L4	today the TPP treaty's text has been partially released.
L5	I feel that this whole Yucca Mountain thing is deficient
L6	in that it has not looked at NAFTA, TPP, and what have
L7	you. In other words, we may find ourselves, depending
L8	on what the text will be, hoisting on our own petard and
L9	having to be the national sacrifice zone for all the
20	radioactive waste in this world. Just a thought, but I'd
21	like to hear the comments from the Staff, and I'd like
22	to see it explored. Thank you.
23	MR. CAMERON: Okay, thank you. Thank you
24	very much, Marvin. Sydney, could we have Sarah Fields?
5	OPERATOR: Sarahis line is now open

MS. FIELDS: Thank you. I'm Sarah Fields from Moab, Utah, and I would like to reiterate some of David Schonberger's concerns regarding the impacts of opening Yucca Mountain as it spreads out throughout the country because of the transportation issues, and the other issues that would impact groundwater in local communities.

Next to Nevada, Utah would have the most --- the largest number of casks transported to the state, and so that will come down to Colorado into Utah. And a particular concern is the narrow rail line to a canyon right above the Colorado River. I have ridden on that rail line before. It's also an Amtrak Rail Line, and then into canyons in Utah. Also, I-70 which goes 30 miles north of community would also my --- particularly going through Colorado, any accident could impact the Colorado River. And our rail lines are not sufficient to protect the public health and safety for this type of transportation, and nor are our interstate highways. This is an issue.

One of the problems is the NRC tries to isolate issues so that you can work on one little issue, and say oh, okay, here, and not look at the whole picture where you have an accumulation of numerous problems. One problem I understand is that Yucca Mountain was designed

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for a certain type of uniform storage container, and yet
those types of storage containers are no longer under
development. And throughout the country, high-level
nuclear waste is being put into various types of casks.
Many of those would not be suitable for transportation,
or for ultimate storage at Yucca Mountain, so you have
to go through a process of moving waste from spent fuel
pools, from possible interim storage sites, or dry cask
storage at reactor sites, and yet you into the
proper type of container, and that has its own issues,
which would also impact groundwater and surface water
at these reactor sites. Thank you.
MR. CAMERON: Okay. Thank you very much,
Sarah. We're going to go to Paula Gotsch now. And I would
just remind everybody, if you want to comment just press
star 1 and Sydney, the operator, will be keeping track
of that. Now we're going to hear from Paula.
MS. GOTSCH: Hello?
MR. CAMERON: Hi, Paula.
MS. GOTSCH: Hi. Okay. I couldn't help
having great sympathy for Bill Stremmel who told about
the problems at Hanford, and being in a place where our
local nuclear plant will shut down soon, and we will have

all those fuel pool risks, et cetera. But I want to say

that the whole nuclear industry, I think from the

beginning has based on a game of let's make believe it's okay. And I think historically, that's been the mantra.

And if we make believe that this repository at Yucca is okay, which we all know it isn't, and the thing of it is then we're perpetrating this awful industry which has brought us all these insurmountable problems that everybody speaks about. Oh, my God, what are we going to do? And that happened because they've always said everything is okay, or it's okay. So, if we say Yucca Mountain is okay, that will not have the effect Mr. Stremmel would like. It will have the effect of any still crazy pro nuclear people and industry people who want to then say okay, Yucca is on the board again, and we're all set, and we can keep on pushing for more nuclear plants to make more of this awful waste, and to keep --- and to make us say oh, my God, this is for millions of years?

Somebody, the woman from the Shoshone place complimented the people who are, you know, doing this program that they could foresee millions of years from now. So, it is past ludicrous, it's past any reasonable person's ability to try to think about this. So please, let's not do the next step of make believe. Yucca is not okay. The transportation will not be okay. The high-burnup fuel is there, and there are lots of things

1 we haven't even dealt with. 2 The man who talked about the railroads, David Schonberger, is 100 percent right. And we're mere 3 4 mortals, and we've been acting like it's okay. Thank you 5 for your time. MR. CAMERON: Thank you very much, Paula. 6 7 And we don't have anybody in the queue right now to comment. And I would just remind people, if you do want 8 to make a comment press star 1, and then Sydney will be 9 10 able to put you into the room with us, so to speak. We do have Mary Olson now. Mary, are you on? 11 12 MS. OLSON: Yes, I'm sorry. I had the button 13 on my phone pushed. MR. CAMERON: Okay. 14 15 MS. OLSON: I think there's going to be a 16 little overlap with the previous comments that we made 17 at a previous call, but I think we've been thinking a 18 lot more about it, so I'm going to give an expanded 19 version. In reviewing, Nuclear Information and 20 21 Resource Service, I am Mary Olson. I work for that 22 organization, NIRS. Our website is <a href="https://www.NIRS.org">www.NIRS.org</a>. And 23 back in the archives of our website, reviewing it myself during a period when Kevin Kamps was focusing on these 24

issues more than I was, we did challenge the federal

regulation upon which this portion of the SEIS is hanging, the EPA's standard. And, yes, there was a shift because of our lawsuit from 10,000 years to the peak dose according to when the NAS evaluation thinks it might happen, and others, and that put it out around a million years. And so that's how the transition went from 10,000 to a million years, for anybody who's still listening.

And I can say that the other facet of that lawsuit which, unfortunately, was not unsuccessful, but we did try, was to challenge the notion that 11 miles away from the repository underpinning, 11 miles out would be the point at which that regulatory standard would be applied. So, on one hand it got pushed further out in time, but it also stayed at this kind of ridiculous sacrifice zone. I mean, there's --- that's a lot of space for radionuclides to be allowed to pollute to any level. And we regret, and we apologize officially to everybody who may be impacted now and in the future by that ludicrous idea that you could impose a standard that far away from the site.

So, I'm just putting it in the record that we are not happy. We were not happy then, we are not happy now. We understand that is the situation. So, understanding that situation, we will now assert once again that there have been changes in this entire

program since 2002 that were changes made by elements of either the waste generating community, the waste regulating community, or the waste promoting community. These are not changes that my community had anything to say about, but they are changes that --- what is the waste? There's now an Executive Order that will commingle the defense waste. The 2002 EIS projected that there would be commingling. That is a major change for factors that influence that 11 mile, million year mark of meeting that standard or not, because the heat factors are totally pivotal in how you would project when the containers will fail. That which is the thing that would allow the radioactivity and any other contaminant that is inside those containers to travel.

So, secondly, you're going to have then the container issue. The whole EIS in 2002 is strung on a TAD, a standardized container for transport, aging, and disposal. There may or may not be TADs in this picture, but if there are, it's going to be involving a whole lot of steps that is also going to impact the waste form. And believe me, the waste form is also pivotal in the 2002 filing of the application, and the original Draft EIS. And what are we going to be doing if we have a bunch of fuel pellets instead of fuel assemblies? And that seems to be a very high probability given the fact the

Nuclear Regulatory Commission itself approved high-burnup fuel in the 1990s, which is not reflected fully. It is somewhat reflected, but I think NRC Staff has actually admitted it is not fully reflected in the EIS, nor its subsequent documents.

So, now we have this growing pile of things that are influential in when and how those containers fail, what is inside them, how it's going to get out, and how long it's going to take for it to travel. And none of it, none of these issues is fully reflected in the documents that are now being supplemented. And now you're talking about compliance with a standard 11 miles out, a million years out that has not, has not been updated to reflect the change in the type of waste, the change in the thermal properties of the proposed site, the change in the container, the change in exactly what is in the container, and how many times it has been handled to be in that container, in other words the waste form. And all of it together, we believe, undercuts any assertion that anyone could make at this time about an impact being large or small. It's just too speculative to make an SEIS that has no, what do you call it, rooting, anchoring, reality. Yes, like where does it turn into fantasy?

And I think for a lot of people, you talk

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about a million years out, it's instantly talking about fantasy. But I come from an evolutionary biology background, and I'm willing to talk about a million years out, but only when we have a solid footing on what exactly we're talking about in 10, or 20 years, or 30 years, or whatever the frame is. When that is out the window, then you have absolutely no basis for projection on a million years, because you just don't know what you're saying.

And I apologize to all of you that you have careers, that you have things you need to hang your hat on. I know how angry everybody got when this whole project was suspended, or tried to be suspended. I apologize to you, but we've got to get this right.

And I'm going to end by invoking Thomas Pigford, one of the fathers of nuclear power, and one of the authors of the National Academy of Science's report on a site-specific standard for Yucca Mountain. And Thomas Pigford wrote a dissent on that report because he said this: "If we don't get the isolation of nuclear waste correct, then the entire nuclear future is in jeopardy." So, if you really care about your jobs, you shouldn't be covering over these mistakes, and lapses, and fantasies, and departures from good, solid, empirical approach. You shouldn't cover that over. You

1 must stand up for it, because that is the basis upon 2 which your industry has a future. Without it, well, it's just going to be a mess, and I really, really encourage 3 4 you to hear me saying that as much as I don't want nuclear 5 energy, I want there to be a very solid, appropriate outcome of all the decisions that your industry and your 6 7 federal regulation have already made. MR. CAMERON: Okay. 8 MS. OLSON: And without that, we're all SOL. 9 So, thanks, Chip, I'm done, but I appreciate you 10 11 listening. 12 MR. CAMERON: Thank you. Thank you very 13 much, Mary. And, Sydney, we're going to go to Leonard Kellen next, if you could put him through. 14 15 OPERATOR: His line is open. 16 MR. KELLEN: Hello. 17 MR. CAMERON: Hi. 18 MR. KELLEN: Hi. I just wanted to say that 19 for those in the nuclear industry, I'm qlad what you did to help us win World War II, but I've got to say ever 20 21 since Fukushima happened, I'm just waiting for our 22 Pacific Ocean to start dying, and that I think one of these days you guys will be looked at as maybe 23 responsible for killing the planet, and then we're going 24

to need to be around the people who have to clean up that

mess. And you guys will probably be first on the criminal list. I'm talking about the supporters of this industry, this wasteful, dangerous, toxic industry. And that's all I have to say. I'm not really well educated on nuclear, except I believe what Helen Caldicott said about no ionizing radiation is safe. Thank you.

MR. CAMERON: Okay. Thank you, Leonard, for those comments. And we're going to go to Rose Gardner now. Sydney, can you activate Rose?

OPERATOR: Rose, your line is open.

MS. GARDNER: Thank you very much for taking my call. I'm Rose Gardner. I live in Eunice, New Mexico. Just five miles from my home is Waste Control Specialists, which is a low-level nuclear dump. I'm also next to a uranium enrichment factory, URENCO, which is a foreign-owned company. In Texas, also there is an organization called AFCI that's trying to open a high-level nuclear waste dump in Culberson County. And then here in New Mexico about 70 miles, maybe not even that far, another company, ELEA, the Eddy Lee Energy Alliance, is trying to open a high-level nuclear waste dump. And I listened to the arguments that Yucca Mountain opposition has made. We are a nation of many hungry companies, corporations that are wanting to dump high-level nuclear waste next to people that do not want

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1	it. These companies will not listen to the average lay
2	people, so in order for these high-level nuclear waste
3	dumps to be fought, regular people that know very little
4	about nuclear waste, nuclear energy are having to join
5	up, sign up, and petition against these companies. And
6	may very well go into Eminent Domain to acquire the
7	sites. It's very frightening, and I wholeheartedly
8	support all opposition against Yucca Mountain and other
9	high-level nuclear waste sites.
10	We have to understand these transportation
11	issues are horrible. I have a train just south of my
12	hometown that is being speculated as being used to carry
13	high-level nuclear waste. It derailed earlier this
14	year. People, this is a frightening thing to happen.
15	I totally and completely support
16	opposition to all high-level nuclear waste sites, and
17	transportation. Thank you so much.
18	MR. CAMERON: And thank you, Rose. Next
19	we're going to hear from Amber Ladeira, and then Artie
20	Andrews. And, Sydney, can you put Amber through, please?
21	OPERATOR: Amber's line is open.
22	MS. LADEIRA: Thank you, and thank you for
23	taking my call.
24	Basically, you know who I'm angry at?
25	Decades back, the geologist who signed off that Yucca

Mountain is a geologically stable, safe repository for rad waste. And how that person ever got a degree is beyond me, because Yucca Mountain, first of all, is on or near earthquake fault lines. All we have to do is look up the United States Geological Survey to ascertain the voracity of that statement.

Meanwhile, though, we do have waste that we have to deal with. And as far as I know, HOSS, Hardened Onsite Storage, is still the safest way to store rad waste until better solutions are created, if they ever are. I have a dim view about nuclear energy, believe me. Living in Illinois where we have more energy nukes than anybody else has, you know, and 48 percent of our electricity comes from them.

As far as the casks go, HOLTEC casks had or have improper welds according to a now dead General Electric engineer who issued stop work orders, and those were largely ignored.

Regarding transporting this high-level waste across the country to any place, or even to a mid-located whatever, it's dangerous on the water, dangerous on the rails, dangerous on the roads. I mean, years back, and interesting that Mary quoted so many statistics from 2002. I was looking into certain statistics in 2002, so I decided to contact the United

States Department of Transportation, and they sent me per my request a whole bunch of documentation as to all kinds of accidents, very --- I mean, all kinds, hazardous waste transport, as well as others. There weren't terribly many, but they do exist. And anybody who watches the news with any regularity would be aware of that.

And I want to remind people that in the industry, outside of the industry regular Joes and Joannas. Rad waste is toxic for 300,000 to one million years depending on the isotope, and those numbers have to do with the half-life. So, it's just --- I just can't imagine --- and there are so many problems associated with those whole scenario, and have been associated, and have not changed in the decades this has been proposed, put on the back burner. It's like trying to resurrect a damn dinosaur, but you cannot change the fact of all of these earthquake fault lines under the mountain or near the mountain.

I don't understand, other than money and myopia, why anybody would be for this. Anyway, thank you for letting me expostulate my anti-rad waste madness for today.

MR. CAMERON: Okay. Thank you, Amber. I would just remind people that if you do want to make a

49 1 comment press star 1, and that will alert Sydney that you want to make a comment. And we're going to RD Andrews 2 now. Sydney, do we have RD on? 3 4 OPERATOR: His line is open. MR. ANDREWS: Yes, can you hear me? 5 MR. CAMERON: Yes. 6 7 MR. ANDREWS: Okay, thank you. Yes, I'm calling from Colorado not too far 8 from where the former Rocky Flats sat, a matter of a 9 short number of miles from here. And that put things a 10 little bit in context for me, because I have to say that 11 12 there was a whole lot of people that --- well, you know, 13 they were in the environmental community, I would argue, as I am, myself. But really, they were arguing hey, leave 14 15 the waste where it is at Rocky Flats and the nuclear 16 materials that were there when that plant was proposed 17 to be decommissioned. And they didn't want anything moved. Well, I happen to be totally of an opposite 18 19 opinion, and I'm very glad that in that case the DOE didn't listen. And, in fact, they did move the materials 20 21 out of there. 22 I hear a lot of groups arguing Mobile

I hear a lot of groups arguing Mobile Chernobyl, Fukushima Freeways, things like that, that sloganing, that is arguing against moving these dangerous materials to a repository. And I have to say,

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you know, I have done personally, because I am professional engineer myself, modeling of the accident potentials at all of the existing sites which are scattered all across the country, and most of which are sitting in or very near major metropolitan areas. So, my point is we have to do something with these materials. We can't just keep putting up roadblocks to getting something done.

For my entire life, which basically covers most of the atomic age, we have not solved the problems. We only keep getting piles of reports that just put it off and put it off. Like the Blue Ribbon Commission most recently said well, you know, we might get around to these things someday, maybe 50 years into the future, maybe never.

We do --- Yucca Mountain may not be the perfect solution, and I will not argue that it is but, in fact, I think we do need to face the issue of moving these materials, and getting them fairly promptly out of the major metropolitan areas where they are, in fact, incredibly attractive terrorist sites. We just cannot run that risk. Hardened onsite storage is best at the moment, but even more dangerous, of course, are the spent fuel pools.

We just have to get this process underway.

1 I encourage you to do everything you can to start the process. Don't put it off for decades to come. Thank you. 2 3 CAMERON: Okay, thank you, RD. And 4 please hit star 1 if you want to get in the queue. We're here until 4:00, and we want to hear from as many people 5 as possible. So, if you want to comment, please hit star 6 7 1, and Sydney will place you into the call. OPERATOR: And at this time, I'm showing no 8 one prompting. And I-looks like as I said that, one 9 question did come in. 10 11 MR. CAMERON: Okay. 12 OPERATOR: Ace Hoffman, your line is open. 13 MR. HOFFMAN: I think that you asked for me, Ace Hoffman. 14 15 MR. CAMERON: Yes. This is --- hi, Ace. This 16 is Ace Hoffman. Welcome to the call, Ace, and go ahead. MR. HOFFMAN: Hi. I don't have a whole lot 17 to say today, but I would like to point out that what 18 19 the NRC seems to be doing here is something that they're quilty of on a regular basis, which is to limit the scope 20 21 of whatever they're looking at. And, in particular, to 22 eliminate anything that they think they've decided before. And I think it was Mary Olson who pointed out 23 that there's been an awful lot of changes in the 24 25 background information. And one of the changes that

we've learned about here at San Onofre is that the cost of onsite storage should really be quite a bit higher than the utilities are calculating. And if safe onsite storage is going to also occur at Yucca Mountain, because it can't all go into the mountain right away, then that cost should also be greatly increased over what you're probably estimating it to be. And, also, the cost of using the rail lines. There's millions of costs that are being underestimated.

But my point here is simply that I think a lot of things that are not actually properly decided are being taken as a matter of fact by the NRC. And that policy maybe needs to be looked at after so many years of assuming that anything that went before was right. We now know that there were a lot of mistakes made in all sorts of areas of the nuclear industry. And thank you for taking my call. Bye-bye.

MR. CAMERON: Okay, thank you. Thank you, Ace. And do we have --- let me ask my colleagues, do we have anybody on the line now who wants to make a first comment?

Okay. Well, what we're going to do is we're going to go to Bill Stremmel, who commented previously, and we're going to hear him again. And in fairness to others who already commented, we'll listen to them as

long as we don't have any first commenters on the line.

They have to take precedence. So, Bill, let's go to you.

MR. STREMMEL: Yes. I didn't mean for this to become a debating society, but with the lack of other first commenters, I do feel the need to respond to some of the people who were responding to me.

They were talking about this giving license to renewed nuclear development. I do think we need to separate the two issues. The point is, we have many tens of thousands of tons of waste now that are here and they need to be dealt with. And we just can't be in denial. I agree that many terrible mistakes were made with the selection of the types of reactor, size of the reactors, fuels and so on, but those mistakes are made, and we need to take the most prudent and feasible course of dealing with the waste, and not just being in denial and saying it just has to stay as is.

For example, my mother and I, she lives on the shores of Lake Michigan north of Chicago. We were hiking over Zion Plant, which is closed now, and I heard this buzzing in the electric lines over there. I said, "Mother, why am I hearing this buzzing? I thought the plant was shut down." And she said, "Power is having to flow back into the plant from the grid to run the cooling pumps so the spent fuel rods do not melt down and cause

a catastrophe there, and poison all of Lake Michigan."

And, indeed, that would condemn all of the Great Lakes

down the St. Lawrence River. So, that's just one

example.

Another one is California has been celebrating the closure of San Onofre, but the waste is still there. Suppose you have tsunami? That would add to the contamination we're already dealing with from Fukushima on the other side of the ocean.

We also need to examine the issue of pristine. You know, even if it's found that maybe Arizona, perhaps, there's it's more room, more appropriate geologically, is but Arizona still pristine. It doesn't have the heritage of over 100 above-ground nuclear explosions done during the test phase of the Cold War, and many more hundreds underground, and all these other activities at the Nevada Nuclear Site Center there. And Yucca Mountain is straddling the western boundary of the nuclear test range, so you have this heritage, and you have already contamination until the end of foreseeable time from what's already been done. There's no point introducing even the specter of hypothetical risk to a new area that then we'd have to establish a whole new security perimeter and everything, acquiring a buffer

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1	of real estate around it, when that already exists there
2	around the Yucca Mountain facility. So, we need to stop
3	being in denial. We need to deal with the issue of
4	pristine. We don't want to introduce any possible
5	conceivable source of contamination to an area where
6	there hasn't been any nuclear activities. Whereas,
7	there certainly has been and is ongoing at the DOE's and
8	the DOD's cycle.
9	So, thank you. That's my follow-up
10	comments.
11	MR. CAMERON: Okay, thanks. Thanks again,
12	Bill.
13	We're going to take the opportunity now, we
13 14	We're going to take the opportunity now, we don't have anybody in the queue right now, but as I
14	don't have anybody in the queue right now, but as I
14 15	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the
14 15 16	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the opportunity now for Christine Pineda, the Senior
14 15 16 17	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the opportunity now for Christine Pineda, the Senior Project Manager on this Supplemental EIS to provide some
14 15 16 17	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the opportunity now for Christine Pineda, the Senior Project Manager on this Supplemental EIS to provide some more information to you all. And that information will
14 15 16 17 18	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the opportunity now for Christine Pineda, the Senior Project Manager on this Supplemental EIS to provide some more information to you all. And that information will be, like everything else we heard today, that will be
14 15 16 17 18 19	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the opportunity now for Christine Pineda, the Senior Project Manager on this Supplemental EIS to provide some more information to you all. And that information will be, like everything else we heard today, that will be on the transcript. Christine?
14 15 16 17 18 19 20 21	don't have anybody in the queue right now, but as I mentioned we are here until 4:00, and take the opportunity now for Christine Pineda, the Senior Project Manager on this Supplemental EIS to provide some more information to you all. And that information will be, like everything else we heard today, that will be on the transcript. Christine?  MS. PINEDA: Thanks, Chip. Yes, I was just

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the set of slides.

You can mail your comments to Cindy Bladey, that's B-L-A-D-E-Y. She's the Chief, Rules, Announcements and Directives Branch. And then that's in the Division of Administrative Services in the Office of Administration. And that's Mail Stop OWFN for One White Flint North, dash 12, dash 808. And then United States Nuclear Regulatory Commission, Washington, D.C.

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Another way you can submit your written comments is you can post them on the Regulations.gov website, so that's <a href="https://www.regulations.gov">www.regulations.gov</a>. And then you'll see a search field, and you can search for any documents that come under Docket I.D., identification up NRC-2015-0051. And the comment you'll see for the documents that come up, the comment button is, I think, attached to the Federal Register Notice for when we published this Supplement. And you'll see a button that says, "Comment Now." You can click on that and it will bring up a web form, and you can fill out the form. You can type your comments directly into the form, or there's also a button I think below the field for putting in your comments for uploading a document if you want to just upload a Word file or something like that.

So, those are the two ways, and if you have any questions after this call, you can call me at

1	301-415-6789 or, of course, you can email us at the
2	ymeis_supplement@nrc.gov.
3	MR. CAMERON: Okay. Thank you very much,
4	Christine. Do we have anybody in the queue yet? Okay.
5	Do we need to provide information to people about the
6	next telephonic meeting that we're going to have?
7	Christine, would you just put that in the record?
8	MS. PINEDA: The next meeting is going to be
9	on November 12th, and it will also be at 2:00 Eastern
10	Time. And the phone number and the pass code for that
11	meeting are the same as the phone number and pass code
12	for this meeting. Those are, bear with me for just a
13	moment, 888-790-2936 is the phone number, and the pass
14	code is 1715992.
15	MR. CAMERON: And it's going to start at
16	2:00.
17	MS. PINEDA: Yes, 2:00 Eastern.
18	MR. CAMERON: And run from 2:00 to 4:00, 2:00
19	Eastern. Thank you.
20	MR. RUBENSTONE: And this is Jim Rubenstone.
21	If I could just remind people again that all this
22	information is available on the NRC website,
23	www.nrc.gov. And as we said, if you follow the drop-down
24	menu under "Radioactive Waste," to High-Level Waste
25	Disposal Key Documents, you'll find the announcements

1 for all the meetings related to the Supplement to the EIS, and the transcripts and summaries from previous 2 3 meetings. And we will endeavor to get the transcript and 4 summary of this meeting up as soon as it's available. MR. CAMERON: Okay. Thanks, Jim. And I would 5 just remind everyone out there that if you do want to 6 7 make a comment, please press star 1. Okay, we're going to be waiting to see if anybody comes on, because we're 8 scheduled to be here until 4:00 p.m. Eastern. 9 OPERATOR: Mary Olson does have a question 10 or comment at this time. 11 12 MS. OLSON: Hi. Just a brief additional 13 comment to make, which is that Nuclear Information and Resource Service would like to endorse the verbal 14 15 comments given by the Amargosa Conservancy at your rural 16 meeting in Nevada. I don't remember which community you 17 were in, but those comments were delivered that evening, and we thank the Conservancy, and want to support what 18 19 they offered in terms of real-time, real world observations about the water systems in that area. 20 21 MR. CAMERON: Thanks, Mary. We remember the 22 commenter from that meeting and those comments. Thank 23 you. MS. OLSON: Thank you. 24 MR. CAMERON: Again, if you want to comment, 25

1	please press star 1.
2	OPERATOR: I'm showing no one queuing at
3	this time.
4	MR. CAMERON: Oh, Marvin? Didn't he do
5	we have someone who wants to talk. Marvin Lewis,
6	perhaps?
7	OPERATOR: Marvin's line is open.
8	MR. LEWIS: Yes, for a real question. You're
9	talking about transcripts. How do we get hold of the
LO	transcripts? How do we find it in the Electronic Reading
L1	Room, or whatever?
L2	MR. CAMERON: We're going to go to Christine
L3	Pineda.
L4	MS. PINEDA: Hi, Marvin. This is Christine
L5	Pineda. I think you are on my email distribution from
L6	the ymeis_supplement address.
L7	MR. LEWIS: Yes, I am.
L8	MS. PINEDA: And I sent out an email I think
L9	last week, and it provides a link to our web page. And
20	on that web page you can scroll down and go to the date
21	of the meeting that you're interested in, and the
22	transcript is linked there. But I can also send you an
23	email tomorrow. It will be probably be tomorrow, I can
24	send you an email with the transcript. Which date, which
25	meeting date were you interested in?

1	MR. LEWIS: This one right here. If you send
2	me a link, it would be great.
3	MS. PINEDA: Oh, yes. When the transcript
4	and the meeting summary are available on our public web
5	page from this meeting, I will send out another email
6	to the distribution letting everyone know that it's
7	available. So, that should be next week sometime.
8	MR. RUBENSTONE: And the people who want to
9	be on our distribution list, as Christine said, that
LO	email address, send an email to Christine at that
L1	<pre>ymeis_supplement@nrc.gov., and she will add you to the</pre>
L2	distribution list if you're not receiving those emails
L3	now.
L4	MR. CAMERON: Okay, thank you. Thank you,
L5	Jim. And, again, press star 1 if you want to make a
L6	comment to us.
L7	OPERATOR: We do have a question or comment
L8	from Kevin Kamps. Your line is open.
L9	MR. CAMERON: Well, good. Welcome, Kevin.
20	MR. KAMPS: Hi, Chip, thank you. Can you hear
21	me?
22	MR. CAMERON: Yes.
23	MR. KAMPS: Very good. Well, I did speak
24	before when the hearing was held at NRC Headquarters,
25	so I just wanted to add some more comments at this

opportunity. And I thank you for it.

So, regarding high-burnup fuel which is
something I didn't have time to talk about at the last
hearing, I just wanted to raise the issue of its
significance in this Environmental Impact Statement.
There is very little to no data about the integrity of
high-burnup fuel, whether it be in storage in pools, or
dry casks on site at reactors. Especially significant
will be the impacts of transporting high-burnup fuel,
and the potential for damage to occur during transport.
And, also, its integrity in storage at a proposed
repository such as Yucca Mountain, its integrity during
operations; that is, during long-term or permanent
disposal at Yucca Mountain, how it will hold up. And
I think that that's a significant discrepancy in the
NRC's Environmental Impact Statement; this lack of data
on the integrity of high-burnup fuel, and how it's going
to perform over really forevermore into the future at
Yucca Mountain. So, it throws the total system
performance assessment into question as to how accurate
it is, because high-burnup fuel, which is now the vast
majority of what atomic reactors are generating, is very
suspect as to how it's going to perform, the levels of
radioactive contamination it will release into the

groundwater at Yucca Mountain. And, certainly, this is increasing the risks of contamination of the groundwater. And that's kind of a seque into the next area that I would like to talk about, which is the disproportionate impact on the indigenous people downstream of Yucca Mountain, the Western Shoshone Indian Nation, and more specifically the Timbisha Shoshone who live in Death Valley and utilize the spring water that comes forth from the ground which is Yucca Mountain groundwater.

And even in the Federal Register Notice for this proceeding, the NRC asked specifically about that issue, disproportionate impacts on people of color, communities, low-income communities. And I think an important area that needs to be addressed and has not been yet is the traditional lifestyle of the Western Shoshone Indians, which if you look big picture at Yucca Mountain and its history, and its future, the Western Shoshone traditional lifestyle has been the standard for many thousands, if not tens of thousands of years in the area of Yucca Mountain. So, what I'm describing is more of a hunting and gathering lifestyle, a traditional lifestyle that utilizes spring water as a drinking water source, that utilizes the wildlife as a food source from that area; all of which is being put

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in harm's way by this Yucca Mountain dump proposal where the entire area for a long distance downstream is being treated as a nuclear sacrifice zone out to a long distance. I mean, the point of compliance, 11 miles downstream, is one issue, but then also the very precious and irreplaceable drinking water supply of this is very area. So, much an issue environmental justice that has not been adequately covered by this NRC EIS proceeding thus far.

And the final issue I did already raise is an important issue in terms of damage that could be done to already fragile high-burnup fuel during transport. Just the transport issue on all fronts, including not just high-burnup fuel, but also low-burnup fuel that happens to be damaged. And I think it's still very fair to say that there is very little experience with transporting damaged fuel, fragile fuel. And the entire risk issue with transport in general from truck shipments, to train shipments, to barge shipments needs to be part and parcel a part of this proceeding, and has not been. And that's why we previously called for hearings to be held in transport corridor communities that would be impacted by this proposal. And also called for an extension beyond the 30 days that NRC has granted, we called for 60 days so that folks living in those

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corridor communities can learn about this proceeding, learn about how it impacts them, and take part in it. So, we would reiterate our call for another 30-day extension, and also for hearings to be held in transportation corridor communities. And I think that's it for now for me. MR. CAMERON: Okay. Thank you very much, Kevin.

MR. KAMPS: Thank you, Chip.

MR. CAMERON: And, again, a reminder, if you want to comment, please press star 1 on your phone.

OPERATOR: We do have a comment from Ace Hoffman once again. Ace, your line is open.

MR. HOFFMAN: Hi, thank you. There's 10,000 dry casks worth of nuclear waste in America, and that's if we keep building them as big as we're building them, maybe 20, 25,000, maybe 100,000 if we make them smaller so that they're safer. There's millions of miles that this waste is going to be transported over. There's a million-year outlook of how far we're going to determine whether or not this idea is safe. And all of that points to one --- oh, and the 10,000 dry casks that DOE assumes that only a tiny, tiny fraction of them will ever be released. And even in a worst, what they call a worst case scenario, which obviously doesn't include a bridge

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falling on a dry cask that's being transported, or anything like that.

So, all of these minute possibilities and enormous time frames, enormous distances, and enormous quantities point to one thing, which is that we need to restart the NAS study of the dangers of low-level radiation that the Nuclear Regulatory Commission, that's you guys, stopped. You've got enough extra money lying around to start working on Yucca Mountain again until the money runs out. Well, I think start and stop, and put the money into the study that was stopped. The study is particularly important, or it could be particularly useful because, unexpectedly, one of the study areas shut down suddenly, two reactors closed down never to reopen. That's, of course, San Onofre, which was one of the six areas to be studied. And that might have been some very telling information about whether or not the radiation that's being emitted on a daily basis is dangerous. And from that, we're supposed to interpolate what's going to happen with the 10,000 dry casks, and the millions of miles, and the millions of years.

Thank you very much. That should be it for today. Thanks.

MR. CAMERON: Okay, Ace. Thanks for that

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1	comment and suggestion. And we don't have anybody on the
2	line to comment, but we're still here until 4:00. And
3	if you do want to comment, press star 1.
4	OPERATOR: I'm showing no one queuing at
5	this time.
6	MR. CAMERON: Okay. We don't have anybody in
7	the queue to talk at this point, but we will be here until
8	4:00 Eastern, and that's about 17 minutes from now. So
9	please, if you want to make a comment to the Agency, just
10	hit star 1.
11	Hi, we're here at the NRC public telephone
12	meeting on the Draft Supplemental EIS on Groundwater
13	Issues at Yucca Mountain. And if you would like to make
14	a comment, if you could just press star 1. And for those
15	of you who might be joining us, we are asking people to
16	follow a five-minute guideline on presenting their
17	comment. So, we're here until 4:00 Eastern. And we do
18	have Michael Keegan from Don't Waste Michigan. And,
19	Michael, are you on the line now?
20	MR. KEEGAN: I believe I am. Can you hear me?
21	MR. CAMERON: Yes, we can.
22	MR. KEEGAN: Okay, thank you for taking my
23	call.
24	Yes, I would argue that Yucca Mountain has
25	been a tremendous success. It's kept the lie alive, the

illusion that there's a solution of what to do with nuclear pollution. Nuclear pollution that was generated by private interests making private profit, and now it's a public responsibility, a risk to have to be borne by the public, and publicly responsible for dealing with this waste. And it's very much a kabuki dance.

It's known from the onset that Yucca Mountain was unacceptable but, yet, you've proceeded.

Many of you made a career, many folks have retired, many folks came back from retirement for another dip.

You know, folks know that this is not the solution, and you've got to stop making this waste. We've got to stop --- we've got to confront this lie, not perpetuate it and allow the production of more and more nuclear waste, with which no one knows what to do. But it is known. Mary Olson mentioned that people know that this is foolhardy. It's not going to work. And knowing that, there's a responsibility that goes along with that. And I believe that the Nuremberg principles apply to all those who are propagating this propagation of nuclear --- of the generation of nuclear waste. To say oh, well, we're going to figure this out, we're going to get this right allows the continued generation of waste that has no solution.

This is beyond science. We've got to stop

the generation of this nuclear waste. The paradigm is in absolute collapse. What I would ask for is --- this is going to be very costly to deal with this, and what I would ask is that the NRC reach back into the private utilities who have made money hand over fist and inform them it's going to cost more money. And we now need to generate additional revenues going forward on any additional waste that's being generated, because not to do so is to be derelict. It's under-funded and these companies are in collapse. And when they collapse, someone is going to have to pay that tab. And I suggest that there be legislation and regulation put in place to reach back to these companies right now and get additional monies to deal with this waste going forward.

I am party to over 200 groups in the U.S. who have advocated hardened onsite storage until a resolve is come to a consensus on, but we've got to stop the problem, stop generating this waste for which no one knows what to do.

And, again, the Nuremberg principles do apply to those folks who continue to do what they're doing knowing full well there is no solution. So, thank you for allowing me to make some comments, and I'm with Don't Waste Michigan.

MR. CAMERON: Thank you for those comments,

Michael. If you want to make a comment, please press star

1.

OPERATOR: We do have a question again, or a comment from Ace Hoffman. Your line is open.

MR. HOFFMAN: Yes, thank you. Since we have a few extra minutes, I want to describe in the 1970s, this was a while ago, I visited the Connecticut Yankee Nuclear Power Plant, and I was given the small black box. In fact, it's specifically four cubic inches in size. I want to read you what it says to show how long this charade has been going on. This is from the black box on the sides of it. "Congressman Mike McCormack of Washington, a scientist by training, often sizes up the nuclear waste situation this way. The cube you are holding, "which I'm holding, "which has a volume of four cubic inches represents one person's share of the high-level waste that will be produced by present and planned nuclear power plants from 1976," that's how old this thing is, "until 2000. The waste will be diluted and put permanently into solid glass. If the cubes for the entire year's population were stacked 12 feet high they would fit handily within a regulation football field. As they accumulate, the waste can be put into safe and permanent storage deep underground. By the end of the century, nuclear power should supply about one-half

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of our nation's electricity, and about one-third of our total energy. Each year, a single nuclear plant, 1,000 megawatts, saves electricity customers \$50-100 million worth of fossil fuel, much of it imported oil, and takes us another step further towards solving our energy crisis."

How much of that came true? It's not going to be vitrified in glass. We can't --- since then we still haven't come up with a permanent storage solution. incredibly expensive, Nuclear power is alternatives are not oil. The alternatives are wind, rain, solar, all the things like that. So, I think that it's time for some honesty on the part of the Nuclear Regulatory Commission to throw your arms up and say we really can't protect the public unless we shut these reactors down. And then maybe the entire public can get together and say well, here we can build a solution because we have a finite problem instead of a constantly recurring problem; instead of enabling the nuclear power industry to continue, we only have to solve the problem that they've already created.

I don't think there is a good solution, but we have to choose whatever is best. But until we stop sniffing, we can't choose a best solution. So, thank you once again, and thank you for holding this hearing even

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1	if nobody feels like attending, or not very many people.
2	I'm especially sorry to not hear anyone from the
3	Southern California Edison's Community Engagement
4	Panel, for example. You would think they would be very
5	interested in this topic, that they'd want to get the
6	waste out of San Onofre, but they're not here. And I
7	don't hear any other pro-nuclear voices either, which
8	is a little surprising. The NEI guy showed up in Las
9	Vegas, but is not speaking today. I'm sorry to hear that.
10	I think that we can't have a debate about it unless they
11	try to present their best points. Thank you.
12	MR. CAMERON: Okay, thank you. Thank you
13	very much, Ace. I would note that we have had about 20
14	commenters, and it seemed like it was pretty well
15	the country was pretty well represented, so we're
16	appreciative for those 20 comments, and for your
17	comments, Ace. And we're sort of getting to the point
18	of adjournment, but we're going to see if there is
19	another commenter out there. Press star 1 if you want
20	to comment.
21	OPERATOR: Susan Carpenter does have a
22	comment. Your line is now open.
23	MS. CARPENTER: Yes, I live near Pilgrim
24	Nuclear Power Plant that is just shutting down; well,

it says it will. And I am wondering if the NRC is

concerned about public safety and the storage of waste. Why these closing plants are allowed to keep their fuel in the spent fuel pool for up to 60 years, rather than securing it in dry cask storage?

MR. CAMERON: Susan, this is Chip. I figured you were near Pilgrim, and I think I'm going to ask the Staff to just note that on the NRC website there is a brief explanatory document on the NRC's decommissioning regulations. And it explains the rationale for why things like that might happen. And I'm just going to ask my colleagues if they want to offer any more information on that.

MR. RUBENSTONE: Yes. I would just point you to the website. There is a section on decommissioning and it discusses the different options. Pilgrim, the operator just announced in the last week or so that they would be closing within several years. They have yet to submit to NRC their decommissioning plan, so we don't know exactly what will be happening there.

There are a couple of, you know, plants that have been decommissioned, some of them move the fuel out of the spent fuel pool very early, some wait some time, so there's a variety of ways they're done. The Zion Plant was mentioned earlier. To my understanding, Zion has completed just this year moving all of the spent fuel

out of the pool to dry cask storage. So there are a number of ways of going, and I would point you to the NRC website to understand our regulations, and stay involved, and there will be announcements about the decommissioning plan proposed by the utility for Pilgrim. MR. CAMERON: Thank you, Jim. MS. CARPENTER: Thanks. MR. CAMERON: And thank you, Susan. Do we have anybody else on the line? Okay. I'll just say one more reminder. If you do want to make a comment, press star 1. And anybody who wants to comment, if anybody gets in before 4:00, we'll be here to listen to your comments. But at 4:00, if we don't have anybody on the line, then we're going to adjourn the meeting. And I'm going to ask at that point for Jim Rubenstone, who's our senior official here, to close the meeting out for us. So, that will happen momentarily. Anybody coming on? MR. RUBENSTONE: Give it another minute or two. MR. CAMERON: Yes, let's do that, and then we'll close out. OPERATOR: At this time, no one is queuing. MR. CAMERON: Okay. We're going to go to Jim Rubenstone to close the meeting for us, and thank all of you for your comments, and for following the

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1 guidelines. Thank you very much. Jim? MR. RUBENSTONE: Yes. Thank you, Chip, and 2 we very much appreciate everyone who participated in 3 this call. We had more than 25 people make comments, 4 which we --- this is the point of the calls. 5 appreciate your comments. We will look at those and take 6 those into consideration as we complete the final 7 document. 8 Just a reminder, the comment period is open 9 10 until November 20th. You can submit comments by mail as 11 Christine said at Regulations.gov, and we will have one 12 additional telecon like this on November 12th, again at 13 2 p.m. Eastern Time. So, thank you once again to everyone who 14 participated, and we will talk to you next time. 15 16 (Whereupon, the above-entitled matter went

off the record at 4:00 p.m.)

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