

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23

UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION

\*\*\*

PUBLIC MEETING TO ACQUAINT THE PUBLIC WITH  
NRC'S HIGH-LEVEL WASTE LICENSING

Mountain View Casino & Bowl  
1750 Pahrump Valley Parkway  
Pahrump, NV

Thursday, May 4, 2000

The above-entitled meeting commenced, pursuant to  
notice, at 7:03 p.m.

PARTICIPANTS:

- CHIP CAMERON
- WILLIAM REAMER
- SANDRA WASTLER
- DAN GRASER
- BLAIR SPITZBERG
- BUDHI SAGAR
- GORDON WITTMAYER

1 MIKE SMITH  
2 JANET KOTAR  
3 PARTICIPANTS: [CONTINUED]  
4 MAL MURPHY  
5 KALYNDA TILGES  
6 BOB LATTA  
7 GRANT HEDLOW  
8 MIKE GENG  
9 SALLY DEVLIN  
10 JOANN DAWN  
11 JAMES WEAVER  
12 LOREN HALL  
13 SUSI SNYDER  
14 SUSAN WARD  
15 TY BUNCH  
16 JENNIFER VIERECK  
17 GRAHAM SULLIVAN  
18  
19  
20  
21  
22  
23

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

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23

[7:03 p.m.]

MR. CAMERON: Okay. Good evening everybody.

We're going to get started, so if you could all take your seats, we'll begin the meeting. My name's Chip Cameron. I'm the special counsel for public liaison at the Nuclear Regulatory Commission. And I'd like to welcome all of you to the NRC's public meeting on the overview of NRC's licensing responsibilities. And it's my pleasure to serve as the moderator for the meeting tonight. And I would just like to call your attention to the fact this is rare for us, because there's lots of restrictions on the Government. But we do have coffee and danish over there for you, so please help yourself. And you can probably thank Sally Devlin for that, because she's bugged us enough about it, so we finally figured out a way to arrange it.

And I just want to cover three things with you briefly before we get into the meat of the program tonight. One is the objective of the meeting tonight. Secondly, the format for the meeting. And, thirdly, the -- I'll give you a little bit of a overview of the agenda.

In terms of objectives, this is the latest in a series of meetings that the NRC has been holding in Nevada.

1 And that we will continue to hold in Nevada, so that we can  
2 inform the public of what NRC's responsibilities are for  
3 licensing the repository. And to make sure that the public  
4 understands what our responsibilities are by trying to be  
5 responsive to questions that you might have about our  
6 presentations. And also we want to hear your comments or  
7 concerns about the repository licensing process.

8           Tonight's meeting is -- the focus is on providing  
9 information to you about our licensing process. All the way  
10 from the stage of the process that we're in now, site  
11 characterization, through when and if the Department of  
12 Energy submits a license application for the repository. And  
13 also if that does happen, what are the NRC's inspection  
14 responsibilities for the repository. So we want to give you  
15 an overview of that. Sometimes when we're out here we have  
16 a proposal on the table, a proposed rule that we want to get  
17 your comments on. We don't have any proposals on the table  
18 tonight, but as always we're interested in your comments and  
19 concerns. And we will certainly listen attentively, and try  
20 to be responsive to those concerns.

21           In terms of format, we were going to try to do  
22 something a little bit different tonight. Which would -- is  
23 to start out with a single group all together to hear Bill

1 Reamer, who is the branch chief of the High-Level Waste and  
2 Performance Assessment Branch at the NRC. That's the focal  
3 point of NRC's licensing efforts on the repository. We're  
4 going to have Bill start out with an overview of the  
5 licensing process. And have questions and comments from all  
6 of you on that -- a discussion on that. The change that we  
7 were going to make is to try to use some small group  
8 discussion to try to personalize things a little bit more to  
9 give you an opportunity to have a conversation with a  
10 particular expert in a particular area. For example, a  
11 small group on NRC's inspections responsibilities. We  
12 wanted to try this for a change. We usually do a group  
13 meeting like this. But we did want to check with you. I  
14 guess this is like using one of my lifelines to check with  
15 the audience, okay, to see, does anybody -- how many of you  
16 would not like to do the small group breakout, and just stay  
17 in one group? Because if you'd like to stay in one group,  
18 we certainly can do that. So there's a -- I guess, a few  
19 people. We're going to come back after -- if we go into  
20 small groups, we're going to come back afterwards, okay, and  
21 have summaries from those groups, and have that discussion  
22 with you. So since there are -- most of the people don't  
23 have an objection, let's try it. You know, bear with us.

1 And we'll get you the information tonight. So, I think  
2 you'll see from Bill Reamer's presentation that it is going  
3 to cover an overview. And if you have concerns that you want  
4 to raise right away, or questions, you'll be able to raise  
5 that. That's the function of Bill's session. So let's give  
6 this a try, and if it -- if -- at the end of the evening, if  
7 you find that it's just not something that you like then we  
8 won't do it again, okay, when we come out. But the one  
9 luxury we have of doing it tonight is that we do plan to  
10 keep coming back to talk with you, okay, so that we'll have  
11 a chance to correct that if there's any problems with that.  
12 And I guess what I'll do is when we are in the group  
13 tonight, and if you have a question or comment, we're taking  
14 a transcript over here, so that we have a record of your  
15 comment. And so that you'll have a record of the  
16 presentations that were made if you would like to get a  
17 transcript from us. But please state your name, and your  
18 affiliation, if that's appropriate, for the transcript. And  
19 usually we have a cordless mic, so that I can let you stay  
20 in your seats and circulate. We don't have one tonight, so  
21 you're going to have to come up to the microphones to ask  
22 your questions. And just ask that one person speak at a  
23 time so that we could give our full attention to whoever has

1 the floor at the moment. And try to be concise so that  
2 everybody can have an opportunity to speak. And thank all  
3 of you who wanted to stay in the single group for your  
4 forbearance and letting us do this breakout, this experiment  
5 that we're going to try tonight.

6 And with that, I'm going to turn the floor over to  
7 Bill Reamer, who's going to give you a bird's eye view of  
8 the licensing process. Bill.

9 MR. REAMER: Good. Well, my name's Bill Reamer.  
10 Glad to see so many of you here tonight. Am I coming  
11 through okay? Okay. Good.

12 What are our goals tonight? We'll start out what  
13 are our goals for you? We hope that you will come away from  
14 this session with a better understanding of who NRC is.  
15 What our roles and responsibilities are for this project if  
16 there is a license application, what our role is with  
17 respect to that activity. We also want you to have a better  
18 understanding of how to access information about the  
19 project. Thirdly, if there is a license application that's  
20 filed by the Department of Energy, we want you to have an  
21 understanding of what we, the NRC, are supposed to do with  
22 that license application. And lastly, we want to give you  
23 information about how we go about assuring ourselves that

1 people who are our licensees are complying with our rules,  
2 and that's through-out inspection process.

3           And we have goals tonight for us, the NRC, as  
4 well. And that's to continue what I have called, basically  
5 an information dialogue with those people who are  
6 potentially most effected by this project. This is the, I  
7 think the eight meeting, that I have attended since I've  
8 held this job, approximately 12 months. All of them have  
9 been here, either in Nye County, or in Clark County, or in  
10 Lincoln County. And to me that's a beginning. We need to  
11 continue to be out here on a regular basis, the people from  
12 the office in Washington, as well as the people who we have  
13 here on site. And I'll have a little bit more to say about  
14 that later. We want to hear your comments tonight. And  
15 when I say "hear," I really mean that. We want to  
16 understand exactly what your comments and concerns are. And  
17 we want to respond to your questions as best we can. And if  
18 we're not able to respond tonight, then we'll get the answer  
19 for you. I heard a question just in the preliminary, a  
20 question came up about, you know, how much money really has  
21 been collected from rate payers for this project, and where  
22 does that stand? How much has been spent? How much remains  
23 in the fund? And it's not a questions I can give you an



1 answer to, but I will get an answer for you. Any questions,  
2 we will get an answer for you.

3 I'd like to point out in the table, when you came  
4 in, there is a form, which kind of a questionnaire. Hope  
5 each one of you will get a copy of that, either take a look  
6 at it tonight before you go. It asks questions like, what  
7 do you suggest are topics that we ought to address in future  
8 meetings? How can we better respond to your concerns. Any  
9 other comments you have about the NRC, and what we do. We'd  
10 be interested in hearing that, or seeing it, if you have  
11 time to write it down. And you can take a form home with  
12 you, if you want time to reflect, and then mail it to us, or  
13 give it to our onsite reps.

14 So who is the NRC? I liken this to introducing  
15 myself, I want to keep reaffirming when I introduce myself  
16 who we are. We are an independent regulatory agency. We  
17 are not a part of the Department of Energy. We don't get  
18 our money from the Department of Energy. We don't report to  
19 the Department of Energy. We are a separate independent  
20 entity from the Department of Energy. Our job is a  
21 regulatory job. It's to protect the public health and  
22 safety. We regulate this project, but we also regulate a  
23 number of other projects. Nuclear power plants, there, you

1 know, a hundred plus nuclear installations in the United  
2 States that are under our regulation. Fabrication of fuel  
3 for those plants. Disposal of the waste from them. A  
4 myriad of other nuclear, atomic energy energies that are  
5 commercial in nature, we have responsibility for to  
6 regulate. And we want to bring our experience in regulating  
7 those other activities to this project. Now usually, and  
8 typically the Department of Energy in their projects, are  
9 not regulated by the NRC. There are what's called, self  
10 regulated. But Congress did make a specific provision with  
11 respect to a repository that DOE not be self-regulated as  
12 they are at the test site, for example. But be subject to  
13 an independent regulatory agency, and that's the Nuclear  
14 Regulatory Commission, that's us.

15           What are we -- what is our role with respect to a  
16 geologic repository? If the project does go forward at  
17 Yucca Mountain, we're to set the rules and regulations that  
18 the Department of Energy must comply with to protect the  
19 public health and safety. We also are to provide comments  
20 on Department of Energy documents, such as the Environmental  
21 Impact Statement, and the Site Recommendation, which is due  
22 in 2001. And then if that site recommendation that's  
23 supposed to be made in July of 2001 is favorable, and if the

1 President of the United States agrees with that  
2 recommendation, and if the Congress agrees with the  
3 recommendation, and the project does go forward, then the  
4 next step is the Department of Energy must file a license  
5 application with the NRC. And it's our responsibility to  
6 first decide whether the project should be permitted to  
7 start construction. That's called a Construction  
8 Authorization Decision. And then later it's our  
9 responsibility to decide whether waste should be received at  
10 that -- at Yucca Mountain, at that site, and actually  
11 disposed of.

12           If we do grant a license, if we do issue a  
13 license, it's our responsibility to assure that the  
14 Department of Energy complies with those regulations that  
15 are designed to protect the public health and safety. And  
16 specifically it's our responsibility, it's our job to  
17 inspect the project to assure that there is compliance. And  
18 if there's not compliance, to take what's called,  
19 Enforcement Action against the Department of Energy to  
20 correct any situation that exists, and to assure that a  
21 similar situation doesn't arise in the future.

22           How will we carry out our role here? As we do in  
23 all the projects that we regulate we want to fairly and

1 objectively review all of the information. We want to make  
2 decisions that are public, that are open, that you can see,  
3 that you can understand. And decisions that are justified  
4 by all of the evidence. We will use a step rise approach to  
5 those decisions. And this is a little complicated. But the  
6 thought is that is there's a license application for the  
7 project, if DOE is permitted to go forward, that a  
8 construction authorization decision would be made by the  
9 NRC. And that would be based on all the facts that exist  
10 then. And then sometime later, perhaps five or ten years  
11 later, another decision would be made whether to permit  
12 waste to be received, and in placed in the in the  
13 repository. And that would be based on not only that  
14 initial base of information, but all the new data that has  
15 come forward in the years immediately preceding that  
16 decision. And then ultimately when -- if there is waste in  
17 place at this facility, and operations cease, then the  
18 decision -- another decision would have to be made whether  
19 to permit the repository to be closed. And that decision  
20 would be based, not just on that initial base of evidence,  
21 but all the information that has been developed over the  
22 many years that the facility has been there. So there's a  
23 growing amount -- a growing information base that decisions

1 will be made on. And the public, you, will be involved  
2 throughout the process.

3           The next step, as I mentioned, is that the  
4 Department of Energy is working on a site recommendation.  
5 The Nuclear Regulatory Commission's role with respect to the  
6 site recommendation is not to approve or to disapprove that.  
7 That responsibility belongs to the President and the  
8 Congress. It -- but it is our responsibility to provide  
9 advice to the President, and that advice is to provide  
10 preliminary comments on the extent to which all of that  
11 Department of Energy information seems to be sufficient for  
12 a license application, if the project goes forward. That's  
13 a kind of complicated statement. But it does describe what  
14 our role is with respect to the site recommendation. And  
15 you may have some questions on that, and be happy to answer  
16 that.

17           The Regulatory philosophy that we bring to bear on  
18 these projects is that the applicant or the licensee that we  
19 regulate, the party that's operating the facility, it's  
20 their job, it's their responsibility to protect you. It's  
21 our job to be looking over their shoulder. To be reviewing  
22 their documents. To be reviewing their activities to make  
23 sure that they're doing that.

1           Now let's talk about the licensing process, which  
2 is what we want to talk about tonight. It starts -- it  
3 begins with the submittal of a license application. Now  
4 that's only in this case, only if there is a site  
5 recommendation the President and the Congress approve. If  
6 there is such a recommendation, and the Congress approves  
7 it, only then will there be a license application submitted  
8 by the Department of Energy to the NRC. That license  
9 application has got to contain certain information.  
10 Specifically, it's got to contain evaluations of the safety  
11 of the repository. It has to contain the plans and  
12 procedures that the Department will use to assure safety.  
13 And it has to include their measures to continue to oversee  
14 the activities at the site to assure that the public is  
15 protected.

16           Now their evaluation and safety has to include  
17 first, all of the ways in which potentially people might be  
18 impacted or affected by the radiation at the repository.  
19 Secondly, to perform safety assessments to ask the what if  
20 question. What if something happens? What would be the  
21 consequence? In fact there's a -- kind of a discipline way  
22 to think about this. The first question is, "What could go  
23 wrong at the facility?" The second question is, "How likely

1 is that to happen?" And the third question is, "What are  
2 the consequences of that?" And we will require that the  
3 Department of Energy look at those three questions in their  
4 license application. And that will be a public document.  
5 Also, they can't just rest on the information today. They  
6 must update their document to us if they get new information  
7 that could potentially affect their conclusions. And in  
8 addition, they must include their plans to monitor ground  
9 water.

10 That license application, as I said, must also  
11 include a description of their safety plans and procedures.  
12 How do they plan to assure that all the people who are  
13 involved in the operations of the facility are trained and  
14 certified for their positions? What are their plans to deal  
15 with emergencies? And how will they demonstrate that they  
16 can feasibly retrieve waste if something does go wrong,  
17 and it demonstrates that waste needs to be retrieved.

18 The license application also needs to include how  
19 the Department will continue oversight of the project. The  
20 controls that they propose to put into place to warn.  
21 Permanent markers. The way in which they will retain all  
22 records that relate to what has been disposed of as the  
23 facility. Again, how they will continue to monitor the

1 performance of that facility to assure that it's performing  
2 as they have projected. And to satisfy any other  
3 requirements that we might impose upon them as part of a  
4 license.

5           The staff -- the Nuclear Regulatory Commission  
6 staff will review that license application. I have  
7 approximately 30 to 40 technical people who work for me, and  
8 in addition there is a federally funded center for nuclear  
9 waste regulatory analyses in San Antonio that works  
10 exclusively on high-level waste matters for the Nuclear  
11 Regulatory Commission. They don't work for the Department  
12 of Energy. They don't work for anyone else in the United  
13 States on high-level waste issues, they just work for us.  
14 And there are in the vicinity of 40 to 50 technical people  
15 at that entity as well, who will be assisting us in the  
16 review of a license application. So we do have substantial  
17 technical firepower to bring to do this job.

18           I'd like to take a moment just to introduce three  
19 of the members of the center who are here tonight. Mr.  
20 Budhi Sagar is here. He's the technical director of the  
21 center. And two of his staff, Mr. Gordon Wittmeyer, and Mr.  
22 Mike Smith. And during our breakout sessions I hope you'll  
23 find a few moments to go and hear what they have to say



1 about what they do, because I think it's very relevant and  
2 important to understand how we are going to go about doing  
3 this review.

4           And in brief I like to think -- I like to describe  
5 it as the license application comes to the commission and we  
6 will literally tear it apart. We will look to make sure  
7 that the conclusions that are reached in the application are  
8 justified by the facts. And we will trace those conclusions  
9 back to the facts. And we will assure ourselves that the  
10 technical data that they've used in the license application  
11 is being used appropriately, and that it was collected in  
12 the proper manner.

13           We also will use our authority to request  
14 additional information from the Department of Energy if we  
15 need that in order to perform our licensing review. And we  
16 will, and we have the ability to conduct independent  
17 confirmatory analyses that bolster our confidence in the  
18 conclusions, or our lack of confidence in the conclusions  
19 that are reached by the Department of Energy. And we will  
20 document our results in a safety evaluation report, which we  
21 will make available to you, and we will be here to describe  
22 it, and to make it understandable to you.

23           MR. GENG: (phonetic) Can I ask a question?

1 MR. REAMER: Yeah.

2 MR. GENG: Do you provide comments to DOE on the  
3 draft environmental impact statement?

4 MR. CAMERON: Sir, you have to be near a  
5 microphone.

6 MR. REAMER: Yeah. The question was, "Does NCR  
7 provide comments to the Department of Energy on the draft  
8 environmental impact statement?" The answer is, yes.

9 MR. GENG: So you've already kind of seen their --  
10 processes then -- put into these -- the licensing requests  
11 up front. You've already got a head start on reviewing some  
12 of that information, then?

13 MR. REAMER: Correct.

14 MR. CAMERON: Okay. We have a little bit of a  
15 logistical problem in the sense that for everybody who's  
16 going to talk, you're going to have to use the mic. And  
17 that's why we were trying to save the questions until the  
18 end of the presentation. But I would ask you to ask those  
19 questions again to make sure that everybody hears them, and  
20 we can have a more exposition by Bill on that. Okay? And  
21 Bill if you want to answer that in your presentation, go  
22 ahead.

23 MR. REAMER: Okay. There are three potential

1 outcomes from the licensing process that we're describing  
2 tonight. One is a decision to grant the license. The  
3 second would be a decision to grant it, but only if certain  
4 conditions are met by the Department of Energy. And the  
5 third outcome of the process would be to deny the licensee's  
6 application.

7           And how does the public participate? Through  
8 these meetings. I understand these are not your first  
9 choice as to where you would like to be. But I do  
10 appreciate very much your coming tonight. I hope we can  
11 establish and continue an informal dialogue with you so that  
12 you'll feel comfortable in asking questions. And you'll  
13 feel some confidence in the answer you get. And if you  
14 don't feel that confidence you'll keep asking the questions.  
15 But one way that we want you to participate is through these  
16 meetings and through this dialogue. Another way is through  
17 actually formally providing comments when we have a  
18 proposal. We don't have a proposal tonight that we're  
19 seeking comment on. And of course the third is, if there is  
20 a license application before us, down the road, that would  
21 be to participate in that process as well.

22           Okay. So maybe now's a suitable time to take a  
23 break for questions. Grant?

1           MR. HEDLOW: Yeah. In the, I guess, my question  
2 falls in the area of additional conditions, over and above  
3 business as usual for the NRC. And I --

4           MR. REAMER: Grant, you need to identify yourself  
5 for the record.

6           MR. HEDLOW: Okay. I'm Grant Hedlow. I live here  
7 in Pahrump. I'm with the enramp group -- que and lv,  
8 sponsored by DOE. And I guess the thing that I'm really  
9 concerned about is when are you going to get technical  
10 people onboard from a variety of industries? The -- I've  
11 asked this question, and I haven't really received a  
12 satisfactory answer. The Michigan casks, the dry storage  
13 casks that split open were licensed by NRC. They were done  
14 by the M&O Sandia. They were used technology that in my  
15 industry we discarded sometime before 1950. And just to add  
16 a little bit more to that, in talking to the DOE the other  
17 day, I found out that they hired the top nuclear  
18 metallurgist in the world, from GE, and those metallurgist  
19 did not know the technology that I've use in my industry  
20 since 1955 to solve those problems with regular, routine,  
21 everyday basis. One of the things that non-technical people  
22 don't understand is that the industry is badly splintered.  
23 In my industry, the kind of information I'm talking about

1 would normally be considered proprietary. And it's not  
2 something that we would discuss with other people. And --  
3 but it's so common that in the industry it's called a rule  
4 of thumb. You don't even need to have the papers anymore,  
5 you just know how the thing works, and you go do it. And  
6 only people from these various industries are going to have  
7 that information. You're -- if you're going to get that  
8 information, you have to pull those people in. You can't  
9 have scientists from the university. You can't have people  
10 from Government. They don't have that information, they  
11 never will, until you get it for them. And I -- I'm working  
12 with the DOE with these experts from GE now to get the 1955  
13 paperwork, the 1975 paperwork. They have casks far more  
14 dangerous material, far more severe conditions. Lasted 20  
15 years with absolutely no damage. If those things were still  
16 in operation they've now lasted 40 years, or 45 years with  
17 no damage. And I assume they're still in operation. I  
18 don't know that. I haven't bothered to check. That  
19 problem was solved so long ago that why would I go back and  
20 reinvent the wheel again? You see what I'm saying?

21 MR. REAMER: I think I do. I -- one statement you  
22 made about casks splinting open. There haven't been any  
23 casks, licensed by the NRC, that have splint open. But I

1 think what you were saying is the technology that's being  
2 used, with respect to some of these storage systems, is not  
3 the most advanced technology. And that's not the technology  
4 that would be used for disposal. I think --

5 MR. HEDLOW: Well how can somebody have a dry  
6 casks storage onsite at a nuclear power plant without an NRC  
7 license? That even disturbs me even more.

8 MR. REAMER: They have an NRC license, but there  
9 have been no casks that have been -- that have splint open  
10 or ruptured at the NRC.

11 MR. HEDLOW: Yeah. We brought you the news  
12 article on it. What happened, it split open many times.  
13 And what happened this last time was for some reason they  
14 added acid to it before they welded it, and then they hit it  
15 with a welder, and the thing exploded. So they got caught.  
16 See and -- it's a regular routine thing, according to these  
17 GE experts, you have pipes split open all the time in these  
18 nuclear plants. That's why they've been working so hard on  
19 the metallurgy. But they didn't talk to other people in  
20 other industries, or it would have been solved years ago.  
21 And this cask that split open is just another routine thing.  
22 It split open, you welded it back up, and you go back in  
23 operation again. And there isn't anybody in the NRC that

1 knows the details of that stuff, so there's no oversight is  
2 my point. And we need to get oversight, especially with  
3 Yucca Mountain.

4 MR. CAMERON: Okay. Grant, I'm going to interrupt  
5 you for one second. And have Blair Spitzberg, I think can  
6 shed some light on this particular issue for you and the  
7 rest of the audience. And Blair, why don't you -- could you  
8 -- well, why don't you go there, I guess.

9 MR. SPITZBERG: I believe the event that he's  
10 talking about was a hydrogen ignition event that occurred  
11 during the welding of a shield lid for a dry cask. After  
12 the fuel had been placed in the cask, they weld the lid.  
13 And because of a galvanic reaction between the borated  
14 water, and the cask coating had generated a small amount of  
15 hydrogen gas, which was ignited with the flame from the  
16 welding. That was not a case of the cask itself splitting  
17 open. The cask had not been sealed at that point.  
18 Nevertheless it was an event that got our attention, and  
19 corrective actions have been put in place at that licensee  
20 and others similar to that to prevent or mitigate the  
21 generation of hydrogen gas.

22 MR. CAMERON: Okay. Thanks for that  
23 clarification, Blair. Let me ask this gentlemen who had the

1 question earlier. Why don't you ask it on the record for  
2 everybody, and we'll get an answer.

3 MR. GENG: Sure. My name is Mike Geng. I live  
4 here in Pahrump. And the question I asked was specifically  
5 does -- did the NRC provide inputs or comment to the draft  
6 environmental impact statement that DOE provided on the  
7 Yucca Mountain project? And second question related to that  
8 was the fact that they did provide the comments that  
9 provides you people with some abilities to actually start  
10 doing your homework in a way in preparing for the license  
11 request. And they had a lot of material that I assume is  
12 presented in those, both the draft and final impact  
13 statement, is going to be material that you're going to use  
14 in your licensing process?

15 MR. CAMERON: Okay. Bill, do you understand the  
16 question?

17 MR. REAMER: Yeah. The first question, yes, we  
18 did provide comments on the draft environmental impact  
19 statement to the Department of Energy. The second point is  
20 it did give us all a glimpse of information, although  
21 there's a great deal of additional technical data that's  
22 available as well. During this period of this there are  
23 daily technical reports that are being prepared right now



1 that are being made available to the NRC, and I think will  
2 be made available as well to the Governmental units that the  
3 Department will be relying on. And we're going to review  
4 those documents as well.

5 MR. GENG: A follow up, I guess, as long as I'm  
6 going.

7 MR. REAMER: Yeah.

8 MR. GENG: With regards to the commentary it did  
9 provide on the DOE impact statement, have you found anything  
10 critical in the material provided by them up to now --

11 MR. REAMER: We had --

12 MR. GENG: -- with regards to stuff you would be  
13 evaluating and using?

14 MR. REAMER: Yeah. We had many of the same  
15 comments that the jurisdictions out here had with respect to  
16 the way certain transportation was handled. We had comments  
17 with respect to other environmental issues. I'd be happy to  
18 get -- afterwards get your address and provide you a copy of  
19 what our comments were, if that'd helpful.

20 MR. CAMERON: If, Bill, if someone wanted to see a  
21 copy of our comments to DOE, would it be possible if they  
22 signed up that we could send them --

23 MR. REAMER: Yes.

1           MR. CAMERON:  -- a copy?  So if you want to see  
2 what the NRC's concerns were with the draft environmental  
3 impact statement, please leave us your name and address, and  
4 we will send you a copy of those comments.

5           FEMALE VOICE:  How about TRW's comments on --

6           MR. CAMERON:  I don't --

7           FEMALE VOICE:  Have you seen those bills -- the  
8 most critical document I've ever seen.

9           MR. CAMERON:  Okay.  Sally, I'll just repeat that.  
10 Sally Devlin is noting that the technical review board  
11 comments --

12          FEMALE VOICE:  No, no, TRW.

13          MR. CAMERON:  -- TRW's comments.

14          FEMALE VOICE:  Yes.

15          MR. CAMERON:  All right.  Bill, do you have any  
16 comment on that?

17          MR. REAMER:  I haven't -- I don't think I've seen  
18 those.  You're saying that there is a document prepared by  
19 the Department of Energy contractor on the environmental  
20 impact statement?

21          MR. CAMERON:  Sally, why don't you step up here.  
22 Mel -- let Mel clarify something first.

23          MR. MURPHY:  Yeah.  Let me preempt Sally for a

1 minute, then I'll get out of her way.

2 MR. DEVLIN: Get out of my way!

3 MR. MURPHY: You owe me this, Sally. I'm Mel  
4 Murphy. I'm the regulatory and licensing advisor to the Nye  
5 County Nuclear Waste Repository Project Office. And first  
6 of all, let me -- Les Bradshaw, our project manager is out  
7 of town today, and can't be here. But let me just briefly  
8 thank the NRC again for taking the time to come here and  
9 interact directly with the people who are going to be most  
10 directly affected by Yucca Mountain, the citizens of Nye  
11 County.

12 But just to follow up, the NRC's comment -- the  
13 Nye County, the State of Nevada, lots of other groups and  
14 entities, and jurisdictions have filed comments on the  
15 dailies -- draft and environmental impact statement. Just  
16 as with the NRC, Nye County found some things in the draft  
17 environment impact statement that we could support. We  
18 found a lot of other things that we felt were lacking in the  
19 DOE EIS. In two major areas, what we call cumulative  
20 impacts, and analysis of transportation impacts. The NRC  
21 comments and the Nye County comments track pretty closely  
22 together, so that we and the -- we, Nye County, on your  
23 behalf, and the NRC, in its independent role, have in two

1 cases at least, said pretty much the same thing about the  
2 DOE, EIA, draft DIS. And we assume that those comments are  
3 going to somehow have to be addressed by the Department of  
4 Energy and they're going to have to make some corrections.  
5 I assume they will improve that EIS in response to our  
6 comments, as well as the comments of the NRC.

7 MR. CAMERON: Okay. Thank you, Mel. Sally?

8 MS. DEVLIN: I'm Sally Devlin. I live here  
9 Pahrump. And I want to welcome you all. It's so nice to  
10 have you back in this nice cool room. And I don't know how  
11 many went on that trip today in a hundred million degrees,  
12 but I'm sure this is very nice, and you're very welcome.

13 We have had our battles, and I'm talking about the  
14 articles and stuff we give to you. The TRW report, and this  
15 is just another thing was the most critical thing I ever  
16 saw, and I want to be sure people understand that if the  
17 Congress says, go ahead with Yucca Mountain, they still have  
18 to be licensed. We just had the NWTRD here Monday, and we  
19 did have a very good picture of dates and so forth. What we  
20 also got very much was they have no canisters. They have no  
21 transportation. They have no way of getting the rods out of  
22 the water. They have nothing at this point. And I was  
23 totally insulted, which is very hard for me, because

1 everybody blames everything on me, they never once mentioned  
2 my bugs, my cropic invasion. And I have sent them all the  
3 information on the -- 22, because they love nickel. And  
4 we're going to do colloidal testing. But my little thing  
5 tonight is very simple, and very fast, and that is the  
6 problem that we have is we understand that six people will  
7 make the decision on licensing, and nobody knows who they  
8 are. That's number one. What are their qualifications?  
9 Are they impartial? Who are they? It's always very  
10 disturbing to get a Board, maybe they belong to the nuclear  
11 industry. Who knows what they are. But those six people  
12 are quite unknown to the public, and I think it behooves  
13 this group to let us know, and scrutinize and meet them.  
14 They're the one's going to kill us.

15           The next one is that on the license application,  
16 how detailed will it be financially? As you know in  
17 January, again we got numbers. The drip shields, 10,000 of  
18 them, will cost \$8 billion. The canisters, 10,000 of them,  
19 or double that amount for the second repository, which is in  
20 the EIS, as well as the draft EIS. And these are scary  
21 things that you do not let the public know, that there are  
22 two repositories planned. Thirty-five billion for the  
23 first, and, rather 25 billion for the first, 35 billion for

1 the second. This is all documented, but nobody says it from  
2 your organizations. And it bothers me. So how financially  
3 accurate are you going to be? Or even honest? You don't  
4 get those numbers. The only way we got the eight billion on  
5 the drip shields because we asked the question. It was  
6 never asked by the Board.

7 The third thing, and I think this is the most  
8 important, and I brought it to give you a souvenir. And  
9 this came from Abe Von Link (phonetic). And Abe Von Link is  
10 the one from DOE who was at our NWTRD meeting, who was going  
11 to write the licensing proposal. And we've been bitter  
12 enemies for almost eight years now. But he just became my  
13 best friend, and I put him on my committee. Can you imagine  
14 me loving Abe? And that is he gave the line in his report,  
15 and he said, "A repository should not present public health  
16 risks unacceptable to current generations." Now you heard  
17 the word, "current generation," and he never should have  
18 said, "current." We must think in terms of future  
19 generations. So we got Abe, and Abe's number one on my  
20 committee. And I must close, and I'm going to be very  
21 short, and that is, we have no medicine. And as you know, I  
22 asked DOE at the mountain, as well as the test site for a  
23 hundred million dollars for a research hospital here. And

1 this is why all your baloney about accidents, and so on.  
2 There's no place to go. There's no place to go for a  
3 thousand miles. If you've read as many transportation  
4 reports as I have, there is none. There is none. And my  
5 figure, and I'd like to see it in that it's put in for  
6 transportation is a trillion dollars. Not only for the  
7 hundred and twenty ton trucks, which will wreck every  
8 highway, bridge, and so forth, but for the cost of roads,  
9 and medical, and insurance, and so on. And as you know, we  
10 all know what a dismal record the Department of  
11 Transportation has. And I will repeat it for everybody's  
12 acknowledgment because it's in the book, and that is from  
13 '87 to '96 at chemical industry, they had a hundred and  
14 twenty-five thousand accidents at chemical plants. On the  
15 road from those 10 years, they had 26,000. This is not  
16 reassuring. So I've made my comments, and I thank you again  
17 for coming. You've got hell like you always do. But I'll  
18 give these to you in writing.

19 MR. CAMERON: Okay. Thank you, very much, Sally  
20 Devlin. I'd like to make one suggestion to you in regard to  
21 Sally's first point about the six unknown decision makers.  
22 It might be useful for the -- all of the audience to know  
23 how the NRC's licensing decision is going to be made. Some

1 of this is going to be in Sandy Wastler's breakout session,  
2 and we'll bring that back to you. But I think that while  
3 we're all here in the group right now, maybe if you could  
4 just give us sort of a capsule of how this decision gets  
5 made and who makes it. Atomic Safety and Licensing Board  
6 Panel Commission, that whole business, if you could?

7 MR. REAMER: Well, the first step is to gather all  
8 the evidence together in what's called a record. Which is  
9 the full documentary basis that the decision is made.  
10 That's a public record. Then the decision is initially made  
11 by a panel of administrative judges. They're like regular  
12 judges, except that they sit on administrative cases. And  
13 their decision has to be based on what's called the weight  
14 of the evidence in that record. They have to go with whose  
15 evidence has proved the point. The Department of Energy has  
16 to prove their point on every issue in the hearing. They  
17 have the, what's called the burden of proof on every issue.  
18 So the Board has to find that they've carried their burden  
19 of proof on every issue. And then anything that a party  
20 wants to appeal, can be appealed to the commissioners,  
21 that's the head of my agency, the Nuclear Regulatory  
22 Commission. There are five commissioners. They come from  
23 various walks of life. Some are from State positions.



1 There's a woman who's from the State of Arkansas. There's a  
2 lawyer who is from Washington, D.C. from a large law firm in  
3 Washington, D.C. There are three other individuals. There  
4 are two people formerly were on congressional staffs, they  
5 worked for congressmen. One worked for a congressman from  
6 New Hampshire. The other worked for a congressman from New  
7 Mexico. And the fourth -- the fifth person is an  
8 engineering professor from the University of Florida. So  
9 they -- of course, they may not be the commissioners in  
10 five years, or whenever the decision is made, but they would  
11 make the decision today, if it was presented to them.

12 MS. DEVLIN: Who appoints them?

13 MR. REAMER: They're appointed by the President of  
14 the United States. They're appointed for terms of five  
15 years. The President can't just say, well you're not my  
16 political party, I'm going to remove you, and put all my  
17 people in. They -- they're appointed for five years, and  
18 they cannot be removed, unless they're removed for what's  
19 called cause. No commissioner has ever, fortunately, ever  
20 had that happen.

21 MR. CAMERON: Before we go to -- could you come up  
22 and ask your question, or make your comment? Thank you.

23 MS. DAUN: Would it be possible to get their

1 names?

2 MR. REAMER: Sure.

3 MS. DAUN: Okay. After the meeting?

4 MR. REAMER: Yes, be happy to give them to you.

5 COURT REPORTER: Who was the speaker?

6 MR. CAMERON: Okay. Oh, could you just identify  
7 yourself for the record, and then we'll have this gentlemen  
8 come up?

9 MS. DAUN: Joann Daun.

10 MR. CAMERON: Thank you, very much, Joann. Yes,  
11 sir?

12 MR. WEAVER: Hi, I'm James Weaver from Tecopa,  
13 California. And I might have other questions later, but I  
14 wanted to ask, is that the same with the administrative  
15 judges, are they appointed by the President also? And  
16 what's their term and --

17 MR. REAMER: No, they are appointed by the  
18 Commission. And they're typically --

19 MR. WEAVER: Who within the Commission appoints  
20 them?

21 MR. REAMER: The commissioners.

22 MR. WEAVER: The commissioners. Okay.

23 MR. CAMERON: Yes, sir. Go ahead.

1           MR. BALL: My name's Art Ball. I'm here as a  
2 private citizen tonight. I live in Pahrump. And since we  
3 just heard something about the cost of some of the things at  
4 Yucca Mountain, I guess it's a good time for my question.  
5 Bill already told me he wasn't the one to give me the  
6 answer, but many years ago there was a utilities study.

7           MR. REAMER: I said I would get it for you.

8           MR. BALL: You said you'd get it, right. But this  
9 might be the right time to raise it. There was a utilities  
10 tax imposed upon the nuclear powers industry, which was  
11 specifically for this -- a permanent repository. I was  
12 wondering how much has been collected? How much is  
13 typically collected over a year from a facility? What is  
14 done with it? Is this going to come anywhere near close to  
15 the figures we just heard about what the cost is? And also  
16 there is a benefits agreement in the Nuclear Waste Policy  
17 Act, which states that if a local or Government, State local  
18 or Indian tribe accepts any money from the repository fund,  
19 that they have forfeited any right to oppose said  
20 repository, if I read it correctly. I just want to know if  
21 any such Government in the State of Nevada has accepted any  
22 money of this?

23           MR. CAMERON: Let's bring Mel Murphy up. I think

1 he had eliminate that for us.

2 MR. MURPHY: Let me quickly clear up that last  
3 point, Art.

4 MR. BALL: Yeah.

5 MR. MURPHY: The Nuclear Waste Policy Amendments  
6 Act of 1987, which created the benefits agreement section,  
7 specifically says that by entering into a benefit agreement,  
8 and accepting money, you do not forfeit your right to oppose  
9 the repository.

10 MR. BALL: Oh, you do not?

11 MR. MURPHY: Now most State or local government  
12 has even tried to enter into a benefits agreement. But if  
13 the State of Nevada, for example, did in -- at some future  
14 time decide or to negotiate a benefits agreement, they would  
15 specifically, by statute, not forfeit their right.

16 MR. BALL: Not forfeit. Okay.

17 MR. MURPHY: Not forfeit their right to object.

18 MR. CAMERON: Okay. Thanks, Mel.

19 MR. BALL: Do you know how much is in the fund?

20 MR. MURPHY: I -- it's something in the  
21 neighborhood of \$9 billion.

22 MS. DEVLIN: It's \$9 billion. The Government  
23 stole the money and they're in litigation with the rate

1 payers. And they are.

2 MR. MURPHY: Not all of us use lexicon that Sally  
3 does. I don't associate myself with the word stoled. But -  
4 -

5 MR. CAMERON: Did you get, Mel Murphy, on what his  
6 comment on the briefcase?

7 MR. MURPHY: But it -- right. But it -- the fund,  
8 as I recall generates about \$750 million a year. Congress  
9 doesn't appropriate all of that, so the fund grows every  
10 years. But I think it's about \$750 million a year. And  
11 Sally's figure I think is accurate, there's something in  
12 excess of \$9 billion in the fund right now.

13 MR. CAMERON: Okay. Let me -- before we go to  
14 Grant for another question, let me ask for a question back  
15 here. If you could -- don't mind coming up to the  
16 microphone, and just tell us your name, and affiliation, if  
17 appropriate. Thank you.

18 MS. SNYDER: My name is Susi Snyder. I'm with the  
19 Shinda (phonetic) High Network in Las Vegas. I apologize  
20 for being late. I was caught up in court this morning.  
21 Anyway, my question was, you had just mentioned the evidence  
22 gathered that will be presented to this panel of judges that  
23 you're talking about. And I was wondering what that

1 included. That includes, I assume it's the FEIS, the  
2 sufficiency report, the Presidential recommendation. What  
3 else is included in that list of things?

4 MR. CAMERON: That's a good question, and how do  
5 you want to systematically answer that? Do you want to  
6 answer it? Do you want to bring Sally up to do this?

7 MR. REAMER: Well, let me just -- let me pick up --  
8 -- let me try and answer it to move it along. Actually, it  
9 would be the license application. It would be the staff's,  
10 the Nuclear Regulatory Commission Staff's safety evaluation  
11 report. It would be any testimony of expert witnesses that  
12 was presented. Any other information that the Board or a  
13 party wanted to note that's kind of officially available,  
14 that can be noted.

15 MS. SNYDER: You said, party. When you say,  
16 party, what do you mean? I'm sorry, I should stand up  
17 again.

18 MR. CAMERON: Yeah. We're sorry that we have to  
19 come back up, but please bear with us.

20 MS. SNYDER: Yeah. I know. Okay. So you said,  
21 Board or party, what party -- like party, meaning can you  
22 just walk into it?

23 MR. MURPHY: Sure. Party meaning a participant

1 like the Department of Energy, the State of Nevada. Anyone  
2 else that is a formal participant in the licensing  
3 proceeding.

4 MS. SNYDER: Okay. And can, let's say the people  
5 also -- like people who live here in Pahrump, you know, who  
6 are directly effected by this, get involved in as a party in  
7 that?

8 MR. REAMER: Yes.

9 MS. SNYDER: Okay. Good to know.

10 MR. REAMER: And they can present information.  
11 They can present their own statements. They can present any  
12 information they have that they want to present.

13 MR. CAMERON: And let me just add something on  
14 that in terms of another meeting, future meeting that we're  
15 going to have. The NRC staff evaluates the license  
16 application, and presents the -- or prepares the safety  
17 evaluation report. That information goes before the panel  
18 of administrative law judges. Other parties to that  
19 proceeding before those judges, also present evidence in  
20 support, or in opposition to various aspects of the license  
21 application. And indeed, citizen groups, citizens, Tribal  
22 organizations, besides the groups that Bill mentioned can  
23 petition the licensing board to be a party to that

1 proceeding. And the future meeting that we're going to have  
2 is to come out, and again we will be in Nye County to talk  
3 about that hearing process specifically, and in depth so  
4 that everybody can understand that.

5 MS. SNYDER: Okay.

6 MR. CAMERON: So we will do that.

7 MS. SNYDER: That's good.

8 MR. CAMERON: Jan?

9 MS. SNYDER: I'm sorry. But I would still like  
10 the rest of my question answered.

11 MR. CAMERON: Sure. All right.

12 MS. KOTAR: Can I just answer the first part of  
13 your question --

14 MS. SNYDER: Yeah. Okay.

15 MS. KOTAR: -- or complete it?

16 MS. SNYDER: Yeah. Thank you.

17 MS. KOTAR: You did come in late, but for the  
18 benefit of everybody who may not have seen it, there are  
19 some flyers on the table as you came in. One of them  
20 addresses the ways in which the public can participate.

21 MS. SNYDER: Uh-huh.

22 MS. KOTAR: The acting as a party in the licensing  
23 hearing is but one of many ways. But it is identified there



1 in a very brief way. But there are also addresses, and web  
2 addresses, as well as regular addresses, where you can write  
3 to get more information.

4 MS. SNYDER: Okay.

5 MS. KOTAR: And we'd be happy to get that  
6 information for you. But I would commend you to some of the  
7 handouts on the table.

8 MS. SNYDER: Okay. Great. So, as I understand  
9 it, then so we were talking the licensing application, the  
10 staff safety evaluation report, any testimony of appropriate  
11 parties, or what is it -- oh, of expert witnesses that's  
12 presented, any information on the Board of party, or any for  
13 the Board or party presents. And what else is also included  
14 in this final review?

15 MR. REAMER: Any documents that any participate  
16 would introduce as evidence.

17 MS. SNYDER: Okay. So that would probably, like  
18 I'm saying that would include the final environmental impact  
19 statement, the -- would that include the final -- the FEIS,  
20 the Presidential recommendation or?

21 MR. REAMER: It would not include the Presidential  
22 recommendation.

23 MS. SNYDER: Okay. That's after the process?

1 MR. REAMER: That's before the process.

2 MS. SNYDER: Before. Okay.

3 MR. REAMER: Remember the process starts when and  
4 if there is a license application. The --

5 MS. SNYDER: Which --

6 MR. REAMER: -- site recommendation --

7 MS. SNYDER: Okay.

8 MR. REAMER: -- information is all in previous to  
9 that.

10 MS. SNYDER: Okay. Thank you.

11 MR. CAMERON: Thank you for the question.

12 MS. DEVLIN: To introduce. Excuse me for being  
13 rude. You have a very important guest here and his name is  
14 Ray Clark, sitting right behind me here, in the tan shirt.  
15 And I particularly invited him because he is EPA. And you  
16 two, you are trying to raise the standards for how --

17 MR. CAMERON: You're going to have to speak into  
18 the mic, Sally.

19 MS. DEVLIN: We have a very important guest here.  
20 And I think the entire audience ought to meet him, and you  
21 were remise in not introducing him. Ray, stand up. This is  
22 Ray Clark of EPA. And he is a lovely man, who is all our  
23 meetings. And you and EPA are having a fight. And I think

1 the public should know that you're trying to raise the  
2 standards, and they want to keep them as they are. And I  
3 think that this ought to be brought out I this meeting,  
4 because we're going to meet on it. So I'm sorry that you  
5 didn't recognize Ray.

6 MR. CAMERON: Yeah. Ray, we didn't mean to  
7 exclude you. I know you've had a tough day out on the trail  
8 out there. But this is Ray Clark from the EPA. And EPA is  
9 busy writing standards on the repository, and at some point,  
10 Ray, if we could impose upon you, towards the end of the  
11 meeting to just tell us what the status of that effort is?  
12 All right. Thank you, Ray. Grant, please step up to the  
13 mic. Thank you.

14 MR. HEDLOW: On another subject, have you heard of  
15 the process in Sweden? The kind of process for their  
16 licensing? The NWTRD had some guests from Sweden, and there  
17 were three or four salient points. One is local communities  
18 volunteered to have the repository. And one of them was  
19 finally selected. They volunteered on the basis that they  
20 have a veto in their pocket. That veto caused some  
21 technical changes that were pretty interesting. And it  
22 forced the NWTRD to notice that by trying to store the spent  
23 fuel rods at 360 degrees C, you're going to rupture the

1 zirconium sheath around it. So within a short time the  
2 radioactive material inside's going to be loose from the  
3 first barrier. By having the 360 degree C temperature, we  
4 also have a very severe environment. And in the chemical  
5 industry, I'd like to say that split things open for the  
6 first hundred, hundred and fifty years, until we finally  
7 learned how to solve it. By have the mayor with the veto in  
8 his pocket, they had to reduce the temperature to 90 degrees  
9 C. That allowed -- now the zirconium doesn't split. The  
10 cask itself can be made out of copper and steel, it's no big  
11 deal. And it can be surrounded with wet clay. They claimed  
12 they could surround it with dry clay. Clay is a really good  
13 barrier, if you can keep it intact. So the mayor made them  
14 test it. And as soon as they fired it up, the clay  
15 disintegrated, turned to sand, it was gone, it was no good.  
16 So now the clay has to be wet. And then the mayor is making  
17 them do a 10 year test to prove it. This is completing  
18 different. It was astounding to me the way the politics and  
19 the technology are intertwined in this, and that was a  
20 really dramatic example of that.

21 MR. CAMERON: Thank you, Grant.

22 MR. REAMER: The mayor is meeting with -- tomorrow  
23 with the Nuclear Regulatory Commission in Washington, with

1 my boss, so --

2 MR. HEDLOW: Oh, good.

3 MR. REAMER: -- I've heard that story. And there

4 is a different process that Sweden follows than we have

5 here. But, you know, I think meetings like these are

6 meeting where we can hear your concerns, and we can bring

7 the same pressure to bear. We can focus on those concerns.

8 We can focus on those issues. We can ask the questions.

9 So, our process is different, but I think it also permits

10 the effected people to come forward with their concerns, and

11 get answers, and that will drive safety toward a better

12 conclusion.

13 MR. HEDLOW: That's great.

14 MR. CAMERON: Okay. Let's take two more, three

15 more questions here. And then bring up the NRC speakers who

16 are going to do our breakout groups and do that. Let's go

17 to the lady with the -- in white there, and then we'll come

18 up to you, and then you. And please come up to the mic, and

19 state your name. And Kalynda you want to say something?

20 All right. Go ahead.

21 MS. MOORE: I'm Susan Moore. I'm the director for

22 emergency services in Nye County. And I specifically looked

23 at your slides. I have about seven questions, and if we can

1 put the machine back on, maybe it'd be easier for those  
2 slides. The first question I happened to put down was my  
3 concern about EPA and NRC, and hopefully he'll answer it  
4 later. But I did want to know what the difference was  
5 between the two organizations, as far as this licensing is  
6 concerned? What role EPA will have, as well as you? And  
7 will -- hopefully you'll be able to answer that question?

8 MS. WARD: Okay.

9 MR. REAMER: Do you want to take them one at a  
10 time? Would that be -- do you --

11 MS. WARD: That's fine.

12 MR. REAMER: Okay. The EPA has the responsibility  
13 to establish a standard for a -- any repository at Yucca  
14 Mountain. The NRC has the responsibility to implement that  
15 standard through regulations that must be consistent with  
16 the EPA standard. The EPA is in the midst of establishing  
17 their standard. They publish their standard for public  
18 comment last winter. The Nuclear Regulatory Commission had  
19 comments on the EPA standard. We disagreed with aspects of  
20 the standard. We, for example, the EPA proposed a 15  
21 millirem standard. The NRC urged that the standard be 25  
22 millirem. Twenty-five millirem is the standard that the NRC  
23 applies at all the facilities, other facilities that it

1 regulates. Fifteen millirem is the standard that EPA has  
2 applied to the WHIP Facility (phonetic). The responsibility  
3 now on EPA is to review all the comments, and decide what it  
4 will -- what the standard will contain. And its  
5 responsibility of the Nuclear Regulatory Commission to be  
6 consistent with the EPA's standard.

7           The EPA standard also included a separate  
8 groundwater protection standard. The Nuclear Regulatory  
9 Commission disagreed with that. The Nuclear Regulatory  
10 Commission does not apply a groundwater standard to any  
11 other facility it regulates. However, the EPA has applied a  
12 groundwater standard at the WHIP Project in New Mexico. Now  
13 EPA has the comments, and it must decide what it wants to do  
14 with respect to a groundwater standard. And again the law  
15 says when the EPA issues a final standard the NRC must be  
16 consistent with that standard.

17           MS. WARD: Okay. My next question. I have been  
18 licensed under the State as far as working with radioactive  
19 material, so I'm aware of what it -- a lot of this contains,  
20 but I was never licensed by NRC. How often do you check  
21 your licensee?

22           MR. REAMER: How often do we inspect?

23           MS. WARD: Inspect. That's correct.

1           MR. REAMER: Okay. Could I defer that question to  
2 the license -- to the inspection -- the inspection breakout  
3 section that we're going to have?

4           MS. WARD: Okay.

5           MR. CAMERON: He's going to -- we're going to  
6 defer that question. We're going to have a breakout section  
7 on inspection. And we're going to bring the people back and  
8 they would summarize that. Okay. So we will answer that  
9 question.

10          MS. KOTAR: Chip, could we just give a short  
11 answer? Basically that if your -- if that question refers  
12 to the repository, we expect that there will be resident  
13 inspectors who will be on the site all the time. It varies,  
14 depends on the type of licensee, is the answer. And that's  
15 why it's a more complicated answer that you can't give one.  
16 But for the repository you would have resident inspectors  
17 who would be there all the time.

18          MS. SNYDER: Thank you.

19          MS. WARD: Okay. I've had the fortunate or  
20 unfortunate opportunity to read the EIS, and so I have some  
21 questions that relate to that. When I read through there,  
22 when the repository closes, and you know, that's the final  
23 finale, I wanted to know if you stop monitoring?



1 MR. REAMER: If the -- no, when the repository --

2 MS. WARD: Because the license ends then does that  
3 mean you stop monitoring? That's my question.

4 MR. REAMER: If a license ends then the Nuclear  
5 Regulatory Commission's role ends. The Department of Energy  
6 has the responsibility to continue oversight for really some  
7 indefinite period, so I think you're asking a question I  
8 need to get the answer to. I can't tell you exactly what  
9 their plans are with respect to --

10 MS. WARD: It wasn't clear in the EIS that they  
11 did any monitoring once it was closed. And that's my  
12 question.

13 MR. REAMER: They must monitor as long as we are  
14 involved in our licensing role. And they must compare the  
15 monitoring results to assure that what they're finding from  
16 the monitoring is consistent with safe operation of the  
17 repository.

18 MS. WARD: So when they license -- when it closes,  
19 the repository closes, then you're no longer involved then?

20 MR. REAMER: No, the repository will close, and we  
21 will continue to be involved until the license is  
22 terminated, which could be some period of time after that.

23 MS. WARD: You mentioned in one of your slides

1 about checking the groundwater, and monitoring it. Are you  
2 going to run some sort of testing, or is this something that  
3 DOE will be doing, and giving you the results? How are you  
4 going to monitor groundwater?

5 MR. REAMER: Yeah. We -- it's DOE's  
6 responsibility to monitor. There maybe other monitoring  
7 entities, as well. We will look over their records.  
8 Inspect how they're doing it, and reach conclusions as to  
9 whether their monitoring system complies with what they are  
10 required to do or not.

11 MS. WARD: Okay. Now we can go to slide 10.  
12 Sorry. If you can get that back on? On Slide 10 you asked  
13 -- you made three statements and I -- that's not 10.

14 MS. KOTAR: Sorry.

15 MS. WARD: And you said that in the evaluation you  
16 put -- you said, what could go wrong? You want them to tell  
17 you what could go wrong. How likely it will happen. I  
18 didn't catch the third thing?

19 MR. REAMER: What are the consequences.

20 MS. WARD: Now are you -- consequences -- they  
21 don't have to say what they're going to do, just what would  
22 be the worse case scenario? Is -- I'm not sure I understand  
23 what you mean by, what are the consequences?

1           MR. REAMER: What are the impacts on -- with  
2   respect to the public health and safety. Are the impact --  
3   are there impacts? Are there consequences that could affect  
4   people.

5           MS. WARD: And once they identify that, then they  
6   need to identify how they're going to deal with it?

7           MR. REAMER: Well, then if the consequences are  
8   below the standard, in other words, if they're within  
9   safety, they've demonstrated safe operation. If they're  
10   above this -- the standard then there's not a basis to issue  
11   a license for them.

12          MS. WARD: Okay. Slide 9, which is the one just  
13   before it. I thought we -- on evaluation on the safety of  
14   the repository, I guess my question stem from, does DOE do  
15   an evaluation that's part of their application? Do you also  
16   do an independent evaluation? Do you just read it, or do  
17   you go out there and do an independent evaluation of the  
18   safety of the repository?

19          MR. REAMER: We do an independent evaluation. We  
20   surely read everything that they -- that -- all their  
21   conclusions. We then try to reach a conclusion as to  
22   whether we agree, or disagree with those conclusions. We  
23   can do our own independent calculations to either confirm or

1     disconfirm what we see in their license application.

2             MS. WARD:   And finally, the last question.  Slide  
3     11.  That can't be Slide 11.  Slide 11 was -- had to do with  
4     emergency plan.  Okay.  When I looked in the EIS and I read  
5     through, there were three areas of concern that I had.  The  
6     building of it itself.  The operating transportation issues.  
7     And the closing.  When I was a licensee for the -- in the  
8     State, we had to have an emergency plan that would deal with  
9     all aspects.  And what I was wondering, is that the case on  
10    this one?  Will there be a emergency plan for the building  
11    of it?  Will there be a plan in operating it?  Will there be  
12    a plan in transportation, as well as the closing?  Is that  
13    something you require?

14            MR. REAMER:  We require a plan for the disposal  
15    facility once it receives radioactive material.  Throughout  
16    the period of time that it's being construction, there is no  
17    radioactive waste at the facility.  There's no means by  
18    which there could be contamination of people, so there's no  
19    emergency plan that applies during that period of time.

20            MS. WARD:  So once they physically receive then  
21    that plan that they're working on would be operating,  
22    transportation, and the closure?

23            MR. REAMER:  The plan must cover the facility

1     itself.  Transportation's a little separate.  And if I might  
2     have to ask Rob Lewis to help me a little on emergency  
3     planning with respect to transportation.

4             MR. CAMERON:  Rob, do you have a comment on that?  
5     Provide some information on that part of it?

6             MR. LEWIS:  Sure.  I think I could add something.  
7     The -- with respect to transportation the DOE, by the law,  
8     the Nuclear Waste Policy Act, will be required to train  
9     people.  The emergency responders, along the transportation  
10    routes, all the way across the country.  DOE hasn't started  
11    that process yet, because the shipments are about 10 years  
12    away.  So they say there's not a need to do that yet.  But  
13    they're working on how they're going to eventually do that.  
14    So it will be DOE training the people.  And as far as the  
15    emergency response, it's really the State and local people,  
16    the policemen, the firemen, will be the first persons on the  
17    scene of an accident, and they will be the people that are  
18    truly the -- what we would call the emergency responder.

19            MS. WARD:  Yes.  And I understand that.  I just  
20    wanted to know what kind of support we would have from the  
21    facility, and whether or not that's part of the licensing  
22    aspect?  That's my last question.

23            MR. CAMERON:  Okay.  Thank you for those

1 questions. Those were good questions. Let's -- we're going  
2 to take three more people now. Then we're going to bring  
3 up, and give you a short preview of the three other topics.  
4 We'll go to breakout sessions. You can talk with these  
5 people personally, and then we'll get back together again.  
6 Let's go to this lady right here.

7 MS. BUNCH: My name is Ty Bunch. I'm a retired  
8 chief nuclear medicine technologist. My husband and I  
9 reside in Pahrump. My question is in regards to the  
10 continued safety oversight, in particular to the permanent  
11 markers. Due to the long half lives of the radioactive  
12 materials that will be stored, it is going to be necessary  
13 to take into consideration future generations of safety. So  
14 my particular question is, has the DOE decided what type of  
15 permanent markers that will be put into place? And if not,  
16 when does the decision need to be made?

17 MR. REAMER: Yeah. It needs to be included in the  
18 license application, because there are certain requirements  
19 in the Commissions regulations with respect to having  
20 permanent markers. And the license application is the place  
21 where the Department of Energy will describe what it's  
22 proposing to do.

23 I do not have, yeah, I don't have the submittal

1 yet from the Department of Energy that describes what they  
2 will do.

3 MR. CAMERON: Okay. Thank you. Yes, ma'am?

4 MS. VIERECK: Hello. My name's Jennifer Viereck.  
5 I live in Tecopa. Which is just over the California border  
6 here. I have three questions. My first has been addressed  
7 a little bit, but I'm still not really clear about this. To  
8 what extent does the NRC have a budget, or people with  
9 expertise for independent scientific evaluation? I'm just  
10 somewhat overwhelmed by the speculative nature of the  
11 science that we're talking about. And I heard your response  
12 that maybe you'd do your own number crunching, or something,  
13 but I wanted a specific answer. To what extent do you have  
14 a budget and scientific personnel to do independent  
15 evaluation, and not depend on the DOE?

16 MR. REAMER: My budget this year is approximately  
17 \$19 million. I have a technical staff, and then about 40  
18 technical staff that work for me. In addition, and I would  
19 urge you to talk to one of the three individuals that I  
20 asked to identify themselves, we are supported by the  
21 Federally funded center which are paid for by Government  
22 funds. And they have a staff of in the range of 50 people.

23

1           MR. CAMERON: You may have missed that part. And  
2 when we go to breakout session these three individuals from  
3 our center are going to be over here, if you need -- if  
4 you'd like to talk to them more about that.

5           MS. VIERECK: Thank you. Yeah. The breakout  
6 sessions, that's going to be difficult, because I really  
7 want all the information, not a fifth of it, or however it's  
8 going to work out.

9           MR. CAMERON: Well, we're going to bring it all  
10 back to you then.

11          MS. VIERECK: Great. Okay. My second question,  
12 and this may sound naive, but I really would like some  
13 clarification as to what kind of criteria is ultimately  
14 applied to evaluate this license? Because it seems like the  
15 criteria for this facility has changed so many times. When  
16 it was originally mandated in 1987, its purpose was to  
17 isolate nuclear waste from our biosphere here where we live.  
18 And it just seems to keep changing. And now I hear  
19 technical people saying, well, we really hope to slow it  
20 down for at least 300 years. So what criteria are you using  
21 to evaluate whether this thing goes in or not?

22          MR. REAMER: The ultimate criteria are the  
23 standards set by the Environmental Protection Agency. The



1 projected estimated performance of the repository must be  
2 beneath, within that standard. In addition, there are other  
3 requirements that I tried to allude to. They're -- and we  
4 call it a bird's eye view. It's not very detailed.  
5 Probably you need a more detailed interaction, but we  
6 require safety analyses to consider those three questions I  
7 mentioned. You know, what could go wrong? How likely is  
8 it? What are the consequences? We require a separate  
9 analysis called a multiple barrier analysis, or a defense in  
10 depth analysis to -- that requires the Department of Energy  
11 to again consider, well, what if the package, that canister  
12 doesn't perform exactly as you say? What would be the  
13 consequences of that?

14 MS. VIERECK: Right. But I guess what I'm trying  
15 to get to with my question, and where my alarm comes from as  
16 a local resident, is that I, unfortunately also read the  
17 DEIS, and what I see in there as the ultimate goal of the  
18 DOE at this point does not include isolation. And I didn't  
19 hear, in your presentation, the word, isolation. And that,  
20 as I understood it, was the purpose of this facility in the  
21 first place. So that's why I'm concerned about whether  
22 that's our goal here or not.

23 MR. REAMER: You know, there are others that maybe

1 have a longer term. I don't think isolation, in the sense  
2 of zero release has ever been a goal of this program. The  
3 standards that were set in the 1980's always looked at the  
4 reality of, if there is a release, what is the consequence  
5 of that release? What is the effect of that release? It  
6 must be a release that is so small that it could not  
7 adversely impact people.

8 MS. VIERECK: Well, given my understanding of  
9 health studies, such a release does not exist. My third  
10 question regards why is it that in your licensing process  
11 the DOE is left with so much power to police themselves? As  
12 I understand it, they're going to check their own water.  
13 And maybe somebody's going to look over their shoulder. I  
14 don't know if other people in the audience read it, but in  
15 the last 24 hours, I read a recent article in the Bulletin  
16 of Atomic Scientist by a former top DOE official, Robert  
17 Alvarez, and it honestly was one of the most chilling  
18 documents I've ever read in my life. Given the power that  
19 the Department of Energy has over the health of all life on  
20 this planet for the indefinite future, it seems to be in  
21 complete and total disarray. And he was very specific about  
22 how safety personnel have been systematically eliminated  
23 from their staff. And there just is very little safety.

1 Any facility that anybody's ever become familiar with is  
2 just a God awful mess. So why are we doing it again, and  
3 giving them this kind of power to police themselves? I'm  
4 really feeling inadequate about what I've heard so far this  
5 evening.

6 MR. REAMER: Well, I don't believe they have the  
7 power to police themselves as to this project. Most of  
8 their projects the DOE is self regulated. As to this  
9 project, they will be regulated by the Nuclear Regulatory  
10 Commission. There are a number of facilities that the  
11 Nuclear Regulatory Commission regulates. Nuclear power  
12 plants, the fabrication of fuel, the disposal of waste. The  
13 record of nuclear industry is good. And the -- and I  
14 believe in part it's good because of regulation. And I  
15 believe regulation is good in part because of citizen input.  
16 And I think that's the discipline we want to bring to this  
17 project.

18 MS. VIERECK: Well, I'd just like to point out one  
19 other study that I read recently that perhaps you're not  
20 familiar with. But it discusses the rates of infant  
21 mortality at licensed facilities that have been closed  
22 recently. And it goes over five different facilities that  
23 were closed between '88 and '89, and average infant

1 fatalities dropped within 15 to 20 percent. And at the  
2 Rancho Seco one, which is where I raised my child, in that  
3 neighborhood, genital deformity deaths in children age zero  
4 to four dropped 30 percent in the first year that that  
5 facility was closed. So I'd just like to register, as a  
6 local citizen, my concern about these things. Thank you  
7 very much. I'd also like to say that if the only amount of  
8 time that you're going to be looking over their shoulder is  
9 the duration of the license, I hope it's in the multimillion  
10 of years. Thank you.

11 MR. CAMERON: Thank you. And after awhile you may  
12 want to just provide the name of that study to the NRC  
13 staff. I'm going to check to see if they know, but if you  
14 could do that. Let's have one final --

15 MR. REAMER: Could I --

16 MR. CAMERON: Go ahead, Bill.

17 MR. REAMER: I do have one comment. I'm aware of  
18 the study. I'd urge you to visit various web sites.  
19 There's quite a lot of bit of critique of that study. I've  
20 not personally critiqued it, but actually I have an article  
21 that was written that was very interesting in critiquing it.  
22 I'd be happy to bring it to your attention.

23 MR. CAMERON: Okay. Thank you, Bill. Kalynda,

1 let's hear from you, and then let's get our three experts up  
2 here.

3 MS. TILGES: Excuse me. Common problem in my  
4 life. You sound like my stepmother who wanted to put manure  
5 in my shoes to fertilize my growth. Is it possible to get a  
6 major growth spurt at 40? My name's Kalynda Tilges. I'm  
7 with Citizen Alert. And I have a couple of questions, slash  
8 comments. My first question is somewhat rhetorical, but if  
9 you have an answer, I would certainly like one. You had  
10 mentioned in the beginning that part of the NRC's role in  
11 this is to inspect and enforce the rules. I'm curious as to  
12 how -- what -- how would you enforce a rule once the  
13 groundwater is already been contaminated? What happens  
14 then?

15 MR. REAMER: Well I think enforcement has to come  
16 long before that. Enforcement has to come when monitoring  
17 indicates that the repository is not performing as it was  
18 projected.

19 MS. TILGES: Then I think the NRC should be the  
20 one monitoring the DOE's monitoring. Or at least -- or an  
21 independent group. That was a comment. You say the public  
22 is going to be involved at every step of the process, but  
23 I'm wondering to what extent informal meetings like this

1 will actually have an impact. I know you're taking  
2 transcription, if you don't speak into the mic, you don't  
3 get transcribed. That's how it work. Because a  
4 transcriptionist can't really hear you, which is one of the  
5 reasons why everyone is encouraged to come up to the mic.  
6 But -- and also to what extent will these comments -- well,  
7 first of all, what impact, and are these informal meetings,  
8 do they really account for anything? And how -- to what  
9 extent are our comments taken into consideration to actually  
10 have an impact on licensing process, and what the NRC does?

11 MR. REAMER: They do have an impact. The reason  
12 we're having this meeting was because it was asked for by a  
13 number of local residence. In addition, in a few moments I  
14 want to introduce a new member of our onsite office, Bob  
15 Latta. Part of the reason that I'm introducing him is  
16 because of an exchange that occurred between affected units  
17 of local government and the chairman of our agency  
18 requesting that the onsite representatives of NRC in the  
19 future providing a more attention to local concerns. And so  
20 we're responding to that. So, I think these meetings do  
21 have an impact on us. I'd like to see them continue. I  
22 hope you'll continue to come. And I hope you'll continue  
23 to, you know, ask these questions.

1 MS. TILGES: Well, I had read -- the reason I  
2 asked is I read your little book here, Public Involvement in  
3 the Nuclear Regulatory Process, and it said people were  
4 welcome to make comments and ask questions, but it never  
5 mentioned to what extent that would be considered. And  
6 there was a mention of being able to petition once --  
7 regarding a licensed operating facility. Does that mean we  
8 can also petition the NRC to make changes before the  
9 licensing happens? Or do we have to wait till the licensing  
10 has happened, the DOE is on it's merry way, before we file a  
11 petition and possibly have it addressed.

12 MR. REAMER: No, you don't have to wait. If you  
13 do file a petition with respect to a regulation or a  
14 requirement of the NRC, you can file that at anytime.

15 MS. TILGES: Okay.

16 MR. CAMERON: Go ahead. I think Janet wanted to  
17 offer something.

18 MS. TILGES: Go ahead.

19 MR. CAMERON: Why don't you do that?

20 MS. KOTAR: Just to supplement what Bill has said,  
21 there are a number of opportunities where public involvement  
22 makes an importance difference to the way the staff conducts  
23 its work on a day-to-day basis with regard to specific

1 products. We do have another handout in the back of the  
2 room, which itemizes kind of step-wise the different types  
3 of ways that goes into -- it's a little more recent than the  
4 booklet that you're referring to. As an example, we  
5 recently proposed a regulation. We've got in excess of 900  
6 comments on that regulation. I was part of the team that  
7 have analyzed each and every one of those comments, and we  
8 tried very earnestly to respond to those comments. The  
9 result of that analysis is now before the commissioners, all  
10 appointed by the President, as Mr. Reamer said. We are  
11 eager to find better and more effective ways that we can get  
12 the comments of people who are concerned, who take their  
13 time on an evening like this come and share their views with  
14 us. To get that into the way that we do business, not just  
15 in terms of getting information out to you, but to getting  
16 what you have to say to the decision makers in a timely way.  
17 So are open. We are hear. We want to know what you have to  
18 say. And if we can do it better, we want to hear that too.

19 MS. TILGES: Well, I certainly appreciate have  
20 responses to our comments and questions, but I would just  
21 like to be reassured that taking the time to come out here  
22 and actually making them is going to account for something.

23 MS. KOTAR: I do too.



1 MS. TILGES: That's --

2 MS. KOTAR: Yeah. And we're trying to find ways  
3 to do that, but, you know, it is ultimately not --

4 MR. CAMERON: You're not going on the transcript -  
5 -

6 MS. KOTAR: Okay.

7 MR. CAMERON: -- but you can speak into that.

8 MS. KOTAR: Yeah. As members of the technical  
9 staff, we can commit to you to bring your concerns to the  
10 people who are appointed by the President to make the  
11 decisions. And provide that access for you. And attempt to  
12 modify the way we conduct our business to accommodate those  
13 concerns.

14 MS. TILGES: All right.

15 MR. CAMERON: Do you have one more question?

16 MS. TILGES: One more. Bringing up what I spoke  
17 with you earlier, Chip, is these breakout sessions. I still  
18 have a problem with that in the fact that you're going to be  
19 giving short presentations, but the meat of each of those  
20 presentations is going to be split up. So everybody's not  
21 going to be able to hear everything. Plus, I would like to  
22 actually see when you took that little vote earlier on, were  
23 you taking it as a -- from the room as whole, or were you

1 discounting NRC, DOE, EPA people? Or were you counting them  
2 in that, as well?

3 MR. CAMERON: I discounted anybody who worked for  
4 any governmental organizations.

5 MALE VOICE: See, we don't count.

6 MS. TILGES: Okay.

7 MR. CAMERON: I did -- I wasn't trying to --

8 MS. TILGES: No, I'm serious. I'm serious, Chip.

9 MR. CAMERON: The NRC people were hopefully not  
10 voting.

11 MR. REAMER: Bear with us on this. We want to try  
12 this breakout session. We're not trying to cut anyone off.  
13 It may be a total failure. It may also be that some people  
14 who have questions on their mind find it a little more  
15 convenient and comfortable to get an interchange going.  
16 We're only going to take about a half an hour to do it. And  
17 you --

18 MS. TILGES: Well, we're already going on past  
19 8:30. And I would think that in the interest of time that  
20 we could just disregard these breakout sessions right now,  
21 and just get in the meat -- into the meat of it, so everyone  
22 will know what's going on all at once, and we can get out of  
23 here before midnight. I have children waiting at home, I'm

1 sure other people do to. Could we possibly take another  
2 vote and not include -- making sure that we don't include  
3 government personnel?

4 MR. CAMERON: Okay. I just want to emphasize that  
5 we don't want any government personnel voting on this --

6 MS. TILGES: And that's the end of my questions.

7 MR. CAMERON: Seriously, if you would all prefer  
8 to stay together, we can do that. We were just trying to do  
9 something that we thought would be beneficial. Any --

10 MS. DEVLIN: I just want to make a brief comment.  
11 I've been to many of these meetings. And when we had  
12 facilitators such as yourself, we had rooms where -- with --  
13 where you could write, and we'd put it up, and we put 250  
14 pages up. This is a very awkward place to breakout, and  
15 you're really going to hear not only the gambling and the  
16 cheering, or the losing, but it isn't a physically good  
17 thing because how are you going to record the stuff with one  
18 pad?

19 MR. CAMERON: Bill, what do you think?

20 MS. DEVLIN: What do you think?

21 MR. CAMERON: You want to just stay in session  
22 here, and have people come up and do their five minutes and  
23 ask them questions? It seems like we're having a little bit

1 of trouble with this one, so maybe what we should do is  
2 we'll just --

3 MR. REAMER: Let's do -- can we see a show of  
4 hands? I mean if -- is there anyone who wants to do a  
5 breakout session? If there's no one --

6 (Laughing)

7 MR. CAMERON: Okay. Hey, Grant, you have to prove  
8 you don't work for any governmental organization either.  
9 Because I'm not sure that counts.

10 MR. REAMER: All right. Well, let's do this.  
11 Let's stay in session, and let's try to wrap up by 9:30.  
12 And then we will be around for another, let's say 15  
13 minutes. We'll kind of form out breakout groups then. If  
14 anyone has a question didn't get answered, feel more  
15 comfortable in a one-on-one way to present that question,  
16 we'll be here to provide that answer.

17 MR. CAMERON: Okay. And now one last comment, and  
18 I'm going to ask Sandy Wastler to come up. Okay. Bill?

19 MR. REAMER: Okay.

20 MR. CAMERON: All right.

21 MR. MURPHY: Yeah. I just want to make a comment  
22 that a couple of the speakers have brought up a very  
23 important point about groundwater monitoring. And who's

1 going to do it, and how long it will last et cetera. Many  
2 of the people in the room, I think know about what we call  
3 Nye County's early warning drilling program. And that's a  
4 program funded through the Department of Energy, but  
5 conducted independently by Nye County, and with Nye County  
6 scientist, managed by the Nye County Nuclear Waste Program.  
7 We're now in the second year of the Phase 2 of the EWDP, as  
8 we call it. We drilled about nine holes, I think it was,  
9 last year. We're drilling another several holes this year.  
10 Next year we will do Phase 3, which has already been  
11 committed to, as far as funding is concerned. One of the  
12 holes, for example, was just completed yesterday. A pump  
13 test will be run sometime next week, and then that hole will  
14 be instrumented. That program has two fundamental purposes,  
15 one is to fill what we and many others in the program felt  
16 was a data gap, where the Department of Energy was not  
17 getting sufficient information in a geographic area,  
18 downgrading from Yucca Mountain. And Nye County proposed  
19 this program to fill that data gap. But a second, and very,  
20 very important of that program, which is one of the reasons  
21 we call it the Early Warning Drilling Program, is to have a  
22 system of monitoring wells in place, which can be used in  
23 the event that the repository is licensed. And we're not

1 suggesting, and nobody, you know, in the NRC is not yet  
2 suggesting that this -- that the repository ever will be  
3 licensed, but if it is licensed, Nye County's program will  
4 have this serious of 20 some monitoring wells in place.  
5 Some very, very deep down into the deep carbon and aquifers,  
6 and some very shallow in the alluvial beds. But that system  
7 will be in place which can provide essentially permanent  
8 monitoring of the groundwater. And it is our hope, as one  
9 of the tenants of the program, that as a result of  
10 licensing, if the repository is licensed, that we will  
11 continued to be funded somehow so that those monitoring  
12 wells will essentially provide a permanent system, a method  
13 to monitor the groundwater, and to give an early warning  
14 very, you know, removed from the population center in  
15 Amargosa Valley, to give everybody an early warning in the  
16 event something does, something untoward does happen in the  
17 repository, it doesn't appear to be operating the way it was  
18 anticipated to be operated, if it's licensed. So our  
19 position would not only be that the Department of Energy  
20 shouldn't itself monitor the repository, but that Nye County  
21 will have a system of wells in place, and a history and  
22 expertise and experience in dealing with those wells to  
23 provide for its own residence, and for all of the citizens

1 of the State of Nevada, really, the kind of permanent  
2 groundwater monitoring that we think the program would --  
3 and I think everybody agrees that the program would call for  
4 on a very, very, very long term basis.

5 MR. CAMERON: Thanks, Herb, for that now.

6 MS. DEVLIN: One more thing, Chip. You have  
7 another distinguished besides Ray Clark for EPA. You have  
8 Dr. Anthony Hechanova, who is the head of the radiation  
9 department at UNLV. And he can tell you, and I hope  
10 everybody will question him, about how the water can be  
11 tested to stop Yucca Mountain.

12 MALE VOICE: And transportation.

13 MR. CAMERON: Okay. Great, well --

14 MS. DEVLIN: And to do transportation. We've got  
15 the expert here, guys.

16 MR. CAMERON: All right. Well, welcome Doctor.  
17 Thank you for being here.

18 MR. REAMER: Chip, if I could just have one  
19 minute. I would like to introduce Bob Latta. He's our  
20 newest member of the onsite rep. Bob, please stand up. Bob  
21 has more than 15 years of experience with the NRC. He has  
22 served as a resident inspector at nuclear power plants in  
23 the United States. He has an expensive -- extensive

1 background in quality assurance. He's dealt with local  
2 communities in the vicinity of nuclear facilities. He  
3 understands what it means to hear, and to listen to local  
4 concerns. I'm really happy that Bob has agreed to come to  
5 the onsite representatives office in Las Vegas. He'll be  
6 here, I believe in August.

7 MR. LATTA: Thank you for the introduction, Mr.  
8 Reamer. Okay. I'm sorry. I'm very pleased that I was  
9 selected for the position, and I'm looking forward to  
10 working with the other two onsite representatives who are  
11 there. My family is also very interested in moving back  
12 out west. We have strong ties out here. I was born in  
13 California. My wife was born in Oregon.

14 One of the primary roles and functions of the  
15 onsite representatives should the repository be approved for  
16 construction, are to assure that it is designed,  
17 constructed, and ultimately operated safely. But also one  
18 of the collateral duties of the onsite representatives is to  
19 act as a point of contact for both local individuals and  
20 public officials. As you came in the door there are a  
21 couple of sheets of paper there that listed points of  
22 contact. My name is there, along with Bill Belke's, and  
23 also Chad Glenn's. We encourage you to contact us if you've



1 got questions. That's part of our function, is to answer  
2 and be responsive to the public. We serve the public. I'm  
3 personally very, very interested in preserving and  
4 protecting the environment as the residence of the State of  
5 Nevada, we have a stake in this issue also, and family and  
6 I. As I indicated I'm very pleased to be joining the staff  
7 here. I look forward to working with all of you.

8 MR. CAMERON: Great. Thank you, Bob. We're going  
9 to have Sandy Wastler, who is the chief of the performance  
10 assessment and integration section in Bill Reamer's branch  
11 come up and talk to us a little bit about what happens when  
12 the DOE, Department of Energy does submit a license  
13 application, assuming that they will submit a license  
14 application for this site. Sandy.

15 MS. WASTLER: Thanks, Chip. My name is Sandra  
16 Wastler. As said, I'm the chief of the performance  
17 assessment and integration section for Bill Reamer. I've  
18 spent 25 years, actually almost 26 years now with the  
19 Nuclear Regulatory Commission, and during that time the  
20 majority of my professional life has been in licensing  
21 facilities that the agency is responsible for. I started  
22 out licensing in reactors. I've participated in licensing  
23 uranium recovery facilities, uranium mills, low-level waste

1 disposal facilities, and two byproduct material. And what I  
2 wanted to try to share with you today is give you a quick  
3 overview of what that licensing processes is. Now some of  
4 the information I'm going to share with you is very similar  
5 to some of the stuff that Bill talked about. And the  
6 questions that everyone has had has also brought out some of  
7 these. So while some of this maybe repetitious, I think  
8 that it -- the points are important, and I want to emphasize  
9 some of these.

10           And one thing to start out with, I think to try to  
11 make clear is that our licensing process starts when DOE  
12 submits the license application. And there's been some  
13 discussion of the sufficiency report, and the recommendation  
14 of that to -- by the secretary of DOE to the President.  
15 Until all that process takes place, and the President, and  
16 Congress, make a decision that DOE should go forward, that's  
17 when we will -- the licensing process will start.

18           Licensing in general, and the process that we're  
19 going to be talking about is one that has applied to all of  
20 the different responsibilities that the agency has. So the  
21 process itself is not that different from what we've done in  
22 the uranium recovery facilities or reactors. Licensing  
23 itself, one thing I want to point out is the agency, as Bill

1 said, we are an independent and objective agency. NRC does  
2 not participate in the design of the facility or the site  
3 selection. And there's some principles, what we call  
4 principles of good regulation that we try to follow. One,  
5 is to be protected. Our mission is to protect public health  
6 and safety. Another of those points of good regulation are  
7 -- is to be efficient. We want to do the best possible  
8 management of a regulatory activities. We want to be clear.  
9 We want to make sure any position that we take, or any  
10 information that we provide is clear as to the agency's  
11 position. We want things to be readily understood, and  
12 easily interpreted by the public, by DOE. And we also want  
13 to be reliable. We want to be consistent in complying with  
14 our regulations, and precise, and apply the fairly. As  
15 we've said, our basic licensing philosophy, and the thing  
16 that's -- our paramount mission is the protection of public  
17 health and safety. And DOE and NRC, while we're both  
18 involved in the protection of public -- the health and  
19 safety of the public, there's two different responsibilities  
20 that we have. DOE is responsible for the safe use of  
21 nuclear materials. And NRC must assure that DOE complies  
22 with all its regulations.

23 This will be a multi-stage -- what we call a

1 multi-stage licensing. And in this DOE will be -- the first  
2 stage of that will be the construction authorization. The  
3 second stage would be to amend -- should DOE first of all,  
4 apply for the license, and we would review the license for  
5 construction. Should we provide them with that license, we  
6 would then be required to amend that for them to operate the  
7 facility and receive waste. We would have to amend that  
8 license again to authorize permanent closure. And we would  
9 have to amend that license again to terminate. These are  
10 all opportunities for public participation. But the point I  
11 want to make here is only NRC can make those decisions.  
12 That these are the gates that DOE has to go through.

13           Our fundamental role is two-part. One, the  
14 development of regulations and guidance. Regulations that  
15 DOE has to comply with. Guidance that for the staff on the  
16 application, or for the review of their application so that  
17 there's a consistency to our reviews. All of you are aware  
18 of Draft Part 63, we will also soon be coming out with a  
19 review plan, which is guidance to the staff on how to do the  
20 review.

21           The other aspect is the actual review. The  
22 assuring that DOE complies with all the regulations. We  
23 want a fair and objectively review the application. One

1 aspect of the guidance that we do provide is, while the  
2 guidance in of itself is written for the staff, so that  
3 there is consistent application. This is going to be a long  
4 process. And so that the same -- the staff that's involved  
5 consistently review the different aspects of the license  
6 application. We provide the standard review plan. What we  
7 call the Yucca Mountain Review Plan, in this case. Excuse  
8 me. And while it's written for the staff, one of the things  
9 that it does, it provides information as well to DOE, as to  
10 the type of information that we would be looking for. And  
11 this is guidance. It's not something that they're required  
12 to do. So while we may provide guidance to our reviewers,  
13 which may be looked at, as well by DOE, they can use some  
14 other methodologies in their application. And we also have  
15 to examine those to make sure that an approach that they  
16 took, while it might have been different from the guidance  
17 that we put out, does meet our needs.

18           And we also inspect. Implementing of the programs  
19 in the application. For example, the operations and  
20 procedures are done through our inspection program, which  
21 Blair Spitzberg will talk to you in a few minutes.

22           There's really three steps in the licensing  
23 review. The first is an acceptance review. An acceptance

1 review, it's often called also a docketing review. Simply  
2 ask the question, is the application complete? Does it  
3 provide all the information that's required in our  
4 regulations? And is there sufficient information to support  
5 the -- to support DOE's -- for suddenly -- all of the sudden  
6 I'm blank on the word. Conclusions. Thank you. So that  
7 they have to provide sufficient information. It's not a  
8 detailed technical review. It's basically to look to see if  
9 there's enough information there to warrant our review. We  
10 have -- if the information is not there, we can, depending  
11 on the amounts of information that would be there -- would  
12 not be there, for example, we would be able to either send  
13 the application back, not accepted. Or we could accept it  
14 and start reviews in certain areas.

15           The main review that we do is our safety review.  
16 And that is basically our determination as to whether the  
17 NRC requirements have been met by DOE.

18           Another part of the application that comes in is  
19 the environmental report. And our environmental review, in  
20 this case, is somewhat different than in others that we do.  
21 Congress has decided that instead of our developing a  
22 environmental, or an EIS ourselves, that we would adopt to  
23 the extent practicable, DOE's. The results of our licensing

1 review is documented in a safety evaluation report. And  
2 this basically is developed in a process while we conduct  
3 our review. We may, when the license application is  
4 accepted, we may review and find out there's particular  
5 questions or issues that we don't feel has been justified by  
6 the license application. We will go back to DOE and ask  
7 them for information. And we can go back as often as we  
8 need to request that information.

9           We will also have open meetings to discuss the  
10 resolution of issues that we have in the case. And all of  
11 this is the basis for the staff's recommendation to the  
12 Commission. As Bill said, and I would like to reiterate,  
13 the end result of the slice in the action, we have only  
14 three choices, we either grant a license. we grant a license  
15 with specific conditions, or we deny a license.

16           So with that -- that's a summary of the licensing  
17 process. There's more in depth questions, I'm sure people  
18 have, so if you want to go --

19           MR. CAMERON: I just wondered how all these people  
20 got into your breakout session.

21           MS. WASTLER: I don't know. I mean, I thought  
22 this was supposed to be a small, intimate discussion over  
23 here, but --

1 MR. CAMERON: All right.

2 MS. WASTLER: We'll just make it a large, intimate  
3 discussion.

4 MR. CAMERON: Okay. Let's go to Grant for his  
5 question. Please speak into the mic, Grant.

6 MR. HEDLOW: I'm hearing you say that you're going  
7 to not do a technical review. And then you're saying that  
8 you're going to check the safety. You're going to check all  
9 of these different things, and I'm not hearing anybody in  
10 the NRC that has the technical expertise to understand the  
11 details of this. This is a highly technical, highly  
12 dangerous industry. And a highly dangerous undertaking.  
13 The technical details are woven into the who system.  
14 Certainly you need people skills. You need the attorney  
15 skills. You need the skills to deal with the insanity in  
16 Washington. And we see Bill Gates has the technical skills,  
17 and the people skills to create a hundred billion dollar  
18 industry, and then the Government is absolutely taking him  
19 apart and making him look sick, right? So, I, you know, I'm  
20 not saying that this is an easy job, but the things that  
21 you're claiming, I'm not seeing the background for you to be  
22 able to handle it. You're not even close.

23 MS. WASTLER: Well, I'm not sure. Let me try to



1 get to your point. First of all, we do do a technical  
2 review. We do a detailed technical review. As Bill said,  
3 we have 30 -- I personally have 15 staff under me. Bill has  
4 a total of 30 to 40. We also have 40 to 50 staff at the  
5 center. And these are detailed, very highly trained  
6 technical staff. Hydrologists, health physicist. I'm a  
7 structural geologist. We have engineers. We have materials  
8 engineers. The distinction I was making, and maybe it was  
9 somewhat confused, the acceptance review is simply a review  
10 to make sure that there's enough information for us to  
11 start. And that is not a detailed technical review. And  
12 the three years that we have to do the licensing, under the  
13 Nuclear Waste Policy Act, doesn't start until we have a  
14 license application that we've docketed, that we've  
15 accepted, that has sufficient information for us to even  
16 start the technical review. So I wanted to clear that up.  
17 The acceptance review of the docketing, well, I don't want  
18 to exactly call it a cookbook review, I mean it just checks  
19 off to make sure that they covered all the specific areas  
20 that are required in the regulations. And to make sure that  
21 there is sufficient information, quantity-wise to start a  
22 review. At that point if we accept it, then we do the  
23 detailed technical review, in which we have 18 months to do

1 that. Now we have spent -- until -- from -- at the present  
2 time, and in fact for months and years, we have been doing  
3 prelicensing consultation with DOE. And we will continue  
4 that until they do submit a license application. And we do  
5 see the documents that DOE are using to build its EIS. We  
6 see the documents that DOE is using to make its site  
7 recommendation decision. And we evaluate these technically.  
8 So we have close to a hundred highly trained technical  
9 staff.

10 MR. CAMERON: Okay. Thanks, Sandy. I'd like this  
11 gentleman to come up and talk. And Sally we will get to  
12 you. Okay.

13 MR. SULLIVAN: My name is Graham Sullivan, and I'm  
14 with Shendahigh (phonetic) Network. I have some questions  
15 about the NRC's regulatory role. What kind of prevention of  
16 contamination can we expect for the onsite inspectors? Like  
17 what kind of healthcare are they going to have? If they  
18 have healthcare at all? Are they going to have a good  
19 retirement program? How much money are they going to make  
20 for their job? Who will be picked, and how will they be  
21 picked to live onsite and inspect this repository, if it is  
22 opened?

23 MR. CAMERON: Can we -- I think Blair probably

1 could give us some answers to that, and maybe can we bring  
2 him up right now to just --

3 MR. SPITZBERG: That'd be fine.

4 MR. CAMERON: -- do that. Blair, you may want to  
5 talk a little bit about this concept of onsite --

6 MR. SPITZBERG: Okay.

7 MR. CAMERON: -- representatives. This is Blair  
8 Spitzberg, by the way. He is the branch chief of the  
9 inspection branch in our regional office in Arlington,  
10 Texas. He's going to be up to talk about the inspection  
11 program shortly, but let's let him answer this particular  
12 question for you.

13 MR. SPITZBERG: Okay. Let me see if I can  
14 remember the questions. The first question, I think,  
15 related to the concerns about the radiological conditions  
16 that the inspectors would be working in, and what kind of  
17 provisions are provided for them. I was an inspector for  
18 over 15 years, and I supervise a group of inspectors now.  
19 And we follow basic radiological health protection  
20 practices. We -- we're all trained occupational radiation  
21 workers. I will say that I am personally the radiation  
22 safety officer for the Region 4 Office, and so I am very  
23 intimate with the exposures that are incurred by the

1 inspection staff in our region. And I can tell you that the  
2 exposures are quite low. My lifetime exposure is on the  
3 order of about 25 millirem, which is less than one chest x-  
4 ray. Our exposures, even for our resident inspectors at the  
5 operating reactors are quite low. Most of them are less  
6 than about a hundred and fifty millirem per year. And the,  
7 as you probably know, the occupational limit for exposures  
8 is 5,000 millirem per year. The other questions I think  
9 were related to selection of the inspectors. We don't know  
10 when decisions will be made as to when permanent inspection  
11 staff will be put in place for the Yucca Mountain facility.  
12 All of this is well into the future. However, it will be a  
13 competitive process, as it is with all of our selections for  
14 inspection staff. The inspection staff do have to meet  
15 certain qualifications for their experience and training and  
16 academic training. They have to come with a certain  
17 technical experience and training. And then in addition to  
18 that we subject them to a internal qualification process for  
19 inspectors, which last between one and two years, whereby  
20 they go to a number of specific courses put on by both the  
21 NRC, and outside organizations that are specific to that  
22 activities that they'll be inspecting.

23 MR. CAMERON: Okay. Thanks, Blair.

1 MR. SPITZBERG: Was there another --

2 MR. CAMERON: Blair will be --

3 MR. SPITZBERG: Was there another part of that  
4 question? Did I miss?

5 MR. SULLIVAN: Just how much money will they make?

6 MR. SPITZBERG: Oh. If you ask them, probably not  
7 enough. But I don't know -- it's -- it depends on the  
8 experience level, the grade level. We're a civil service  
9 grade structure, and I think a starting out inspector out of  
10 -- with a master's degree, coming out of school, might make  
11 on the order of 40 to \$50,000, and it goes up from there.

12 MR. CAMERON: Okay. Thanks. We're going to do  
13 Sally, and then we'll go over to you. Okay.

14 MS. DEVLIN: Again, thank you. I get a tickle out  
15 of you, Blair. You've got 25 millirems, your dosimeter  
16 never worked, right? You allow the workers 5,000?

17 MR. SPITZBERG: No, I'm very careful.

18 MS. DEVLIN: They don't even use them. They  
19 haven't used them on the test site in years. But I have to  
20 get back to you, and that is you know I read all the GAO  
21 reports. And in their report on NRC, they stated that you  
22 license 68,000 or so places. And you have maybe 18 to 1,300  
23 inspectors. Which means you go and see every facility every

1 year and eight months. Now this is a concern to the public.  
2 And this is published. I have the report. How many  
3 inspectors, and I hear a budget of 19 million. Where is  
4 Bill? I can't see him. Where is he? There you are. Okay.  
5 You have 19 million, you're a piker. Now they're going to  
6 need, because we're talking 43 states, an enormous number of  
7 inspectors. And the problem just one, and I say that  
8 because of Hanford, which is going to blow up any minute,  
9 and I talk to them all the time, and that is they can't get  
10 the rods out of the water. And this is a very serious  
11 problem, because if they drop the rods, which are 90 percent  
12 hot no matter how long they've been in the water, they're  
13 going to destroy the --

14 MALE VOICE: The Columbia River.

15 MS. DEVLIN: -- the Columbia River. Yeah. It  
16 makes a hole, and it goes right into the Columbia River. We  
17 have other problems here, and you can't destroy Death Valley  
18 Monument. So my question is, what is your concept of number  
19 of inspectors that are properly trained to work in 43  
20 states, which this one project involves? I want you to get  
21 more money --

22 MR. CAMERON: Now, Sandy, if you feel more  
23 comfortable deferring that until Blair comes up. And I

1 think what I'd like to do, Blair, is to get some of these  
2 questions on for Sandy, and then bring you up, and have you  
3 answer all these inspection related things at one time.

4 MR. SPITZBERG: Okay.

5 FEMALE VOICE: Mine's inspection, too.

6 MR. CAMERON: That was your question too? Okay.

7 Well, why don't you -- since it was, why don't you give that  
8 a whirl?

9 MR. SPITZBERG: I may need some clarification on  
10 the question. It relates to how many inspectors will we  
11 have out at the origins of the waste shipments?

12 MS. DEVLIN: Well, you have 68,000 now, with  
13 practically no inspections.

14 MR. SPITZBERG: Yes.

15 MS. DEVLIN: What are you going to do with 43  
16 states?

17 MR. SPITZBERG: Okay. The -- all of the waste  
18 shipments will be originating at NRC license facilities.  
19 And those facilities are power operating reactors. In most  
20 cases, except in the cases that -- where the plant has  
21 permanently shut down, those sites have resident inspectors.  
22 And those resident inspectors would be observing the  
23 activities of loading the shipping cask, and preparing the

1 shipments for transport. At the few locations that are  
2 permanently shut down, we would probably make provisions to  
3 send inspectors to those sites to observe that activity, and  
4 to audit that process.

5 MS. DEVLIN: What about --

6 MR. SPITZBERG: Yeah. I can't respond to that.  
7 Those are DOE sites, and I'm not sure that we would have  
8 regulatory jurisdiction to go into those sites and watch  
9 that activity.

10 MS. WASTLER: No, I think as Bill said, DOE, with  
11 the exception of the repository is self regulated. So we --

12 MALE VOICE: This stuff's going in the repository.

13 MS. DEVLIN: This is going in the repository. And  
14 what about the 10 percent DOD stuff that's --

15 MR. CAMERON: Okay. Sally, you're not getting on  
16 the transcript, but --

17 MS. DEVLIN: No, but I'm asking a question. This  
18 is a 77,000 metric ton.

19 MR. SPITZBERG: Chip, I think this is a good  
20 question that -- you know, this is a good question that we  
21 need to --

22 MS. DEVLIN: And the DOD has 7,000 metric tons  
23 that are classified. How can you put classified waste in



1 our mountain? Sorry.

2 MS. WASTLER: I think -- I don't think at this  
3 point, I guess our answer is that we can't really tell you  
4 at this point. It's something that we have to consider. We  
5 have not gotten -- we -- while we get a lot of technical  
6 information from DOE, I am not aware that we have all the  
7 particulars of exactly where all the waste is going to come  
8 from. So that we can define our inspection program. So that  
9 is something that we are going to be doing over the next few  
10 years, is getting a clear picture from DOE of what exactly  
11 their going to be doing at their surface facilities. How  
12 the stuff is going to be packaged. How it's going to be  
13 shipped. Where it's going to come from. And we will design  
14 inspection programs similar to what we use at these other  
15 areas for that. But at this point we don't have it, and we  
16 would have to -- that would be something that we would be  
17 doing in the future, I guess is the best thing to say.

18 MS. DEVLIN: Can you keep us informed?

19 MR. CAMERON: Okay. We have one more -- we have -  
20 -

21 MS. WASTLER: We are here to keep you informed,  
22 yes.

23 MR. CAMERON: -- another question. We have

1 another question here for Sandy.

2 MS. WASTLER: Hi.

3 MR. WEAVER: Hi, Sandy. My name's James Weaver,  
4 I'm from Tecopa. You said that the process isn't any  
5 different than your normal processes. And I would -- am I  
6 correct in assuming, maybe I'm naive. This facility is  
7 different from any other facility that -- that's been --  
8 right?

9 MS. WASTLER: The facility is different.

10 MR. WEAVER: Okay.

11 MS. WASTLER: But the overall licensing process  
12 that we go through is not --

13 MR. WEAVER: I understand that, but since --

14 MS. WASTLER: -- that different from a reactor.

15 MR. WEAVER: I understand that. But since this  
16 facility is different, it's never been done before, don't  
17 you think a different set of rules should apply to it? That  
18 amended rules should apply to it? That, you know, other  
19 things should be looked at that you normally wouldn't look  
20 at?

21 MS. WASTLER: Well, --

22 MR. WEAVER: You know?

23 MS. WASTLER: -- what we look at as far as our

1 review is concerned, is directed at the facility that we're  
2 reviewing.

3 MR. WEAVER: Right.

4 MS. WASTLER: But the process of acceptance  
5 reviews, the safety review, the ultimate hearing process.  
6 Those activities are what are the same. But the rule is a  
7 site specific rule.

8 MR. CAMERON: And that rule, that substantive rule  
9 is much different than the other facilities.

10 MS. WASTLER: Is much different. So while each  
11 has a different rule that's applied to the particular  
12 facility that the NRC deals with, the overall framework in  
13 which we do the review is what I was referring to as the  
14 same.

15 MR. WEAVER: I, myself, just got finished also  
16 reading the draft EIS, and I alaude (phonetic) anyone's  
17 apparent ability to look at the big picture in it. And I  
18 certainly couldn't see the whole thing, but I have one  
19 concern, which may not particularly apply to what you look  
20 at, but that's something that wasn't really mentioned much  
21 in the EIS, and that's -- and some people might laugh, but  
22 the possibility of terroristic attack or, you know, the  
23 threat of that. And, you know, how that applies to the

1 licensing process, and your review of it. And that's all I  
2 had to say. Thank you.

3 MR. CAMERON: And that -- I think it would be  
4 useful for someone from the NRC to tell us how security  
5 concerns, such as that, are factored in to the licensing  
6 process. And I don't know if, Sandy, do you want to do it -  
7 -

8 MS. WASTLER: I'm afraid I don't have --

9 MR. CAMERON: -- or Janet?

10 MS. WASTLER: -- a background to really handle  
11 that. But we can definitely make sure that we either bring  
12 the answer back with us the next time that we come, or  
13 possibly even have one -- someone here to respond to those  
14 types of questions.

15 MR. SPITZBERG: I can say something to that, Chip.

16 MR. CAMERON: Okay. Blair?

17 MR. SPITZBERG: I'm not a security expert, but we  
18 do have security experts within the regional office, and  
19 that's all they do is inspect security. The licensee would  
20 have a security plan, which would be a safeguard controlled  
21 information document that describes in very detailed  
22 description of how they would provide security for the site,  
23 and that is subject to inspection. We do have specialists

1 in that area that perform routine inspections of security.  
2 Not just of a Yucca Mountain, but of all of our nuclear  
3 sites that -- where security is a concern from a safety  
4 standpoint.

5 MR. CAMERON: Okay. Thank you. At some point we  
6 have to get Blair up here. And there's three hands I see.  
7 Let's do this quickly. We'll get Blair up to talk about  
8 inspection right after that. So that we have two over here,  
9 and Kalynda. Kalynda, why don't you come up right now and  
10 give us your question or concern --

11 MS. TILGES: Oh, good, it's still at the right  
12 height.

13 MR. CAMERON: -- for Sandy.

14 MS. TILGES: Sandy, you had -- let's see Slide  
15 Number 9, multiple stage licensing. You were talking about  
16 providing a license to -- first of all, there'd -- you --  
17 possibly providing a license to construct to the repository.  
18 Then you say amend the license to authorize operation and  
19 receipt of waste. And amend license to authorize permanent  
20 closure. I don't understand, are you amending this original  
21 license, or is the DOE --

22 MS. WASTLER: Yes.

23 MS. TILGES: -- going to have to apply for a

1 separate license for each step?

2 MS. WASTLER: All right. We amend the original  
3 license. But DOE has to provide the same -- they have to  
4 come in with an amendment request, which supports and  
5 provides the information just like the original license  
6 application be for -- for construction. Where they would  
7 have to come in with the request with the supporting  
8 information to support their request to operate the  
9 facility, and receive waste. And the same with the other  
10 stages. So I mean it's one license that is amended each  
11 time through a formal process and through an application.  
12 Only it's an application to amend the license, rather than  
13 an original application to obtain the license.

14 MS. TILGES: Okay. It was a little -- it's a  
15 little confusing because some of what the DOE has been  
16 saying -- been talking about in their flexible repository  
17 design is that as they get the first part -- they're going  
18 to start loading it. You start at one end where part of it  
19 -- where the beginning is built, and they start loading it  
20 up, and you're building the rest of it as you go along. So  
21 it's build a bit, fill it up. Build a bit, fill it up all  
22 the way. I don't understand how it could be licensed like  
23 that.

1           MR. CAMERON: Can someone comment on that topic,  
2 because this came up before. In other words, when can --  
3 what decision does the NRC make on construction  
4 authorization? Is that the complete safety decision?  
5 Janet, you know what the question is here. And, Sandy, I'm  
6 going to let Janet do this one.

7           MS. WASTLER: That's fine.

8           MR. CAMERON: Janet, please.

9           MS. KOTAR: Hi, I'm Janet Kotar. I'm pleased to  
10 see you here this evening. I am one of the authors of the  
11 proposed Part 63 regulations that will cover -- will be the  
12 basis for which the NRC will make this licensing decision.  
13 When the department comes in for an initial application to  
14 construct, it is a very serious and comprehensive safety and  
15 technical evaluation that will support that decision. But  
16 it is only a decision to allow them to construct. Until  
17 that license is amended further to allow receipt, they can -  
18 - all they can do is construct.

19           When they reach a point where the underground  
20 facility, not as completely mined out, but the underground  
21 facility that allows them to start emplacing waste. And all  
22 the safety equipment, the -- and all of the backup systems,  
23 all the filters, all of the above-ground facilities, are

1 those sorts of things are complete, substantially complete,  
2 then they can come to the NRC and request that they license  
3 be amended to allow begin receiving waste. That does not  
4 mean that they have to mine out each and every gallery.  
5 That has never been the intent. But what the reason for  
6 that requirement is to not allow them to do a defacto  
7 storage facility at the surface, without any kind of  
8 facility underground that would be approved on the basis of  
9 these really stringent requirements in our regulations. So  
10 the idea is that they essentially have to have the entire  
11 repository receiving capability, and safety capability in  
12 place before we would consider allowing them to receive any  
13 waste. That's not the same thing as if every gallery is  
14 mined out. And so that's where I think you get the  
15 confusion about whether the whole thing's absolutely done  
16 before they start receiving waste. No that's not true, but  
17 all of the underground equipment that needs to be in place  
18 to ensure safe receipt and emplacement is ready and there.  
19 And that they're not just all going to mound it up on the  
20 surface, and then construct later on underground.

21 MS. TILGES: Well, since they're talking Daily  
22 (phonetic) is talking about a flexible design, and the  
23 design has actually been changing as it goes along, how is



1 the licensing processing -- how is the NRC going to handle  
2 the DOE possibly changing repository designs after the  
3 licensing has been done?

4 MS. KOTAR: That's a very important, and very well  
5 considered question, because it's something that we also, as  
6 an independent agency, and as Sandy very carefully defined  
7 our role, is not to design the repository. We don't design  
8 the repository, DOE defines their repository. But obviously  
9 in order to make a coherent, and credible licensing  
10 decision, we have to have it a lot -- a design that's going  
11 to stay fixed to review. And then we have to know what that  
12 is in order to be able to make an informed decision. Once  
13 we have made a licensing decision based upon that  
14 application, then they are -- they may change it, but they  
15 have to do so in such a way that they don't change -- I mean  
16 if they want to paint the visitor's center green instead of  
17 blue --

18 MS. TILGES: That's not what we're talking about.

19 MS. KOTAR: -- that's not what we're talking  
20 about.

21 MS. TILGES: No.

22 MS. KOTAR: We have to have a way to discriminate  
23 between those changes, which really have no -- are trivial,

1 that have no effect on health and safety, and those that do.  
2 And when -- on those that do, they have to come to us for  
3 approval. And that would be in the regulations, and the  
4 mechanism for making that determination will be. We share  
5 your concern that, you know, that this design does seem to  
6 be in a state of flux. But clearly before they can come  
7 forward to the -- through the Nuclear Regulatory Commission  
8 and expect an informed decision, they have to commit to a  
9 design. Does that answer the question?

10 MR. CAMERON: Kalynda, I'm going to have to ask  
11 these two other people to come up now, so that we can move  
12 on. And we'll come back to whatever you have. Okay?  
13 Before we breakout.

14 MS. TILGES: Well, it pertains to Sandra's --  
15 okay.

16 MR. CAMERON: Just let me get these two  
17 people up here, because we have two more speakers that we  
18 want to get on, and questions on that. Why don't you come  
19 up first. And the emergency response lady, is that you?

20 FEMALE VOICE: I'm sorry --

21 MR. CAMERON: One of you come up, please.

22 MS. SNDYER: Okay. A couple of quick things on  
23 just kind of -- yeah. My name's Susi Snyder. I live in Las  
24 Vegas. A couple of quick things. I'm sorry I missed the

1 morning session. One is just on process, public process,  
2 and since you're here interacting with the public, you  
3 should really know that we don't feel good when we get cut  
4 off, and I feel really bad that Kalynda got cut off for  
5 myself to speak. So just so you're aware of that. You  
6 know, I recognize all these people here have spent their  
7 time and, and their energy, and their gas money, which is so  
8 expensive, to come out here tonight. But I'm sure that we  
9 all -- the reason we wanted to stay in full group was so we  
10 could hear each others questions. And it's very important  
11 for us. So I want -- I just would like to say that. And  
12 maybe ask Kalynda if she could finish her questions for --  
13 on Sandy's presentation.

14 MR. CAMERON: Yeah. We're not cutting off  
15 anybody. We're making sure that everybody else who has --  
16 who wants a chance to speak, such as yourself, gets a chance  
17 to do that. We're going to come back to Kalynda, allow her  
18 to finish her question. We want to make sure that we get  
19 the rest of the information on there. So if you have a  
20 question, please ask it.

21 MS. SNYDER: Okay. Great. Yeah. Thank you. The  
22 other thing is there's not signs on any of the doors. I  
23 walked around the casino in circles, looking for this place,

1 because I'm not familiar with this casino. And so just for  
2 your next meeting, put the signs out.

3 MR. CAMERON: All right.

4 MS. SNYDER: Okay. Here we go on my questions, I  
5 just want to clarify language on your presentation, which  
6 earlier you mentioned the sufficiency report. And I've  
7 heard this bounced around a little bit. Is that the  
8 acceptance review, or the docketing review, is that the same  
9 thing?

10 MS. WASTLER: No, what is was -- when I started  
11 out what I tried to make clear was the sufficiency report,  
12 and the recommendation is -- this is a DOE process. All  
13 right. They are currently preparing their site  
14 recommendation report. That site recommendation report or  
15 that site recommendation will be submitted, when it's  
16 complete, it will be submitted to -- by the Secretary of the  
17 Department of Energy to the President, recommending that DOE  
18 go forward and license the facility. The President will  
19 make its -- his decision, and submit that decision to  
20 Congress. Where if Congress and the President agree to go  
21 forward, at that point DOE would develop its license  
22 application and submit it to the NRC --

23 MS. SNYDER: Great. Let me interrupt you right

1 there, because here's something that I want to talk about,  
2 which -- it follows right into my next question, and that  
3 is, okay, Congress just on whatever it was, three, four or  
4 five days ago, or whatever, I don't even know. I'm in a  
5 time warp. But voted to send all these thousands -- this 95  
6 percent of the nation's radioactivity out here temporarily,  
7 for so called temper -- interim storage. This mobile  
8 Chernobyl bill that I'm sure everybody in the room is  
9 familiar with, and now if this -- that would sent stuff here  
10 2007, that's seven years, that's not too long. And now you  
11 said that you'd need -- that you need the -- oh, where'd I  
12 write down -- okay, you need that, you know, make sure all  
13 the systems were in place and everything before you'd start  
14 the licensing -- to accept the license application -- make -  
15 - DOE had to be on top of their stuff, so to speak. To have  
16 their, you know, their little system in place. But what  
17 happens then, because if you are responsible for this  
18 commercial radioactive waste, which a lot of this stuff is,  
19 and your onsite inspectors will be monitoring the loading of  
20 it, as it leaves these power plants, and comes out here for  
21 so called interim storage, where is the licensing in that,  
22 and where do you -- where does NRC fall in the mobile  
23 Chernobyl debate? And I'm sorry if I -- if this got

1 covered earlier, but it's something that's very close to my  
2 heart. I really need to know. And so that's -- see what  
3 I'm saying? It kind of falls into what you're saying.

4 MS. WASTLER: I think I understand what you want  
5 to know whether we have a position or a part?

6 MS. SNYDER: Kind of, yeah. Cause --

7 MS. WASTLER: At this point I don't believe the  
8 Legislature -- we have any legislation that would allow  
9 storage at the site. That's what Janet was getting at.

10 MS. SNYDER: Yeah. That's -- could you --

11 MR. CAMERON: Janet, do you want to answer that?

12 MS. SNYDER: -- did you get my -- Janet, did you --  
13 - yeah, I knew you would. Yeah. Okay.

14 MS. KOTAR: Yes, I understand the question. What  
15 you're asking is, have the congressional legislation  
16 overridden the presidential veto, and the waste would have  
17 been moved out here on an interim storage, as an interim  
18 storage facility pending a decision about the repository,  
19 would that be the licensed facility or would it not, is what  
20 you're asking?

21 MS. SNYDER: Pretty much, yeah.

22 MS. KOTAR: Yeah. And the answer to that question  
23 is, yes, it would.

1 MS. SNYDER: Okay.

2 MS. KOTAR: And we have rules on the books right  
3 now that license interim storage facilities, whether they're  
4 located in Illinois, or they're located in Washington State  
5 or their licensed here.

6 MS. SNYDER: Interesting.

7 MS. KOTAR: Rob Lewis is from our Spent Fuel  
8 Project Office, and he is -- he can speak in more detail, if  
9 you'd like to follow up with him about how we go about doing  
10 that. That's the gentleman over there --

11 MS. SNYDER: That guy -- okay.

12 MS. KOTAR: But the answer to your question is, if  
13 it's commercial waste coming from commercially licensed  
14 nuclear power plants, you know, we would license its storage  
15 or disposal. The question I think that was key to the  
16 debate about the legislation in the issue that you're  
17 talking about --

18 MS. SNYDER: Yeah.

19 MS. KOTAR: -- is do you grant a license for a  
20 storage facility before you know if the repository is going  
21 to be acceptable and licensed? And I think that's what the  
22 debate turned on, as I understand it.

23 MS. SNYDER: As -- yeah, a lot of it.

1 MS. KOTAR: But the question -- but the bottom  
2 line is, we would license either one.

3 MS. SNYDER: Okay. But what I understood from --  
4 let me just -- I just want to clarify for myself here. I'm  
5 sorry for taking up so much time. You said that you have  
6 current rules in place for interim storage, does that mean  
7 that there's a license pending for interim storage? Because  
8 when I talked to the guys out there at the test site, they  
9 say, oh, yeah, we don't know where it would go. Maybe we'll  
10 park it out on Frenchman Flat or something.

11 MS. KOTAR: Actually, there is a license under  
12 consideration, and hearings are going to begin in June in  
13 Utah. Rob, did you want to add to that?

14 MR. LEWIS: Yeah.

15 MS. DAUN: I'm sorry. Is that having to do with  
16 this particular place out here?

17 MR. CAMERON: No, no, it doesn't. It's another --  
18 it's an interim storage facility.

19 MS. SNYDER: Is that the Skull Valley? Is that  
20 Skull Valley?

21 MS. KOTAR: Yes, it is.

22 MR. CAMERON: That's right.

23 MR. LEWIS: Just very quickly. We do have several



1 operating interim storage facilities, but with respect -- I  
2 think you asked one question about did NRC take a position  
3 on that law? Or that bill that did not become a law?

4 MS. SNYDER: I know DOE opposed it, so, I'm  
5 curious.

6 MR. LEWIS: We did not take any position. We were  
7 prepared to do whatever the law directed us to do, had it  
8 been signed. We were -- remained neutral throughout it, is  
9 my understanding.

10 MS. SNYDER: Okay. But there are going to be  
11 hearings in June in Utah, talking about Skull Valley, which  
12 would also start sending shipments all the way around the  
13 country out to this part of our planet?

14 MR. LEWIS: Yeah. We have this map here that  
15 shows several storage sites that are in existence around the  
16 country. Most of them are at reactors, with the exception  
17 of some fuel from Three Mile Island. The reactor that was  
18 damaged, is now stored at Idaho National Engineering  
19 Laboratory. And in addition, there is a license application  
20 that NRC currently has in house that we're reviewing, which  
21 would involve a storage facility in Utah, west of Salt Lake  
22 City. And that's a private operation. It's not DOE that's  
23 doing it.

1 MS. SNYDER: Yeah. On the Skull Valley Goshoot  
2 (phonetic) Reservation. Yeah. I understand those folks  
3 don't really don't want it there.

4 MR. CAMERON: Thank you, Susi. Can we have your  
5 question?

6 FEMALE VOICE: It actually got answered earlier.

7 MR. CAMERON: Okay. Thank you. Well, that gives  
8 us a chance to go to Kalynda for her question to Sandy and  
9 Blair. Could you come up to do your presentation, please?  
10 Kalynda.

11 MS. TILGES: Thank you. I'd like to know where I  
12 could get a copy of that map that you just had up on --

13 MR. CAMERON: We'll get you a copy.

14 MS. TILGES: Tonight? Can I get one tonight? Is  
15 that possible?

16 MR. CAMERON: It maybe possible. We'll try to get  
17 one for you tonight. Okay?

18 MS. TILGES: Great. Thank you.

19 MR. CAMERON: All right.

20 MS. TILGES: My last question, comment, looks like  
21 I got a couple of these. There's an overhead that you  
22 didn't show, but it's listed here in your presentation,  
23 "Licensing safety review. Review framework. NRC

1 regulations for Yucca Mountain, Part 63." It's my  
2 understanding that Part 63 at this point is proposed, it  
3 isn't actually there. Part 60 is what's in effect right  
4 now. So you're, without even actually having 63 in effect,  
5 you're already to go along with them? You're already asking  
6 the -- I'm really confused on this issue. I've been to a  
7 lot of DOE meetings lately, and they bring up the point that  
8 they are operating in compliance with proposed Part 63, so  
9 I'm wondering when the NRC is, you know, are you actually  
10 going to adopt 63, and leave Part 60 by the wayside that has  
11 these subsystem requirements in there, where the Part 63  
12 doesn't address that issue at all? Is the DOE going to  
13 basically guide the NRC along in making Part 63 what it's  
14 going to be?

15 MS. KOTAR: I believe I understand your question  
16 to be what law -- what regulations apply right now? On the  
17 books we still have Part 60. As a practical matter, that --  
18 those regulations incorporate as the overall standard, or  
19 health and safety objective, EPA standards, generally  
20 applicable standards, which have been -- were remanded by  
21 the courts, and then were set aside for Yucca Mountain by  
22 the Energy Policy Act of 1992. Where EPA was directed to  
23 develop site specific standards for Yucca Mountain. So we

1 do not have, in effect, a -- an applicable regulation,  
2 because there is no EPA standard for it to implement. So  
3 there really, you know, if an application were to come  
4 forward this second, we could not apply those regulations  
5 until there's a final EPA standard in place. Subsequent to  
6 the promulgation of the rules back in the early '80s, EPA  
7 now is embarking on a new regulation for Yucca Mountain, at  
8 the direction of the Congress, we're given a one year to  
9 implement those regulations. And because there's no way we  
10 could put comprehensive regulations in place in one year, we  
11 try -- we started out on a parallel process. EPA, you know,  
12 and NRC were working together. NRC got a little bit ahead,  
13 but as Bill Reamer indicated that the law says that when EPA  
14 has final standards in place, our Part 63 regulations will  
15 be amended, if necessary, to implement those standards. So  
16 that is why people are, you know, assuming that the Part 63  
17 when the Commission votes upon it, and when EPA has final  
18 standards in place that we could be consistent with, will be  
19 the regulatory framework. And that's why Sandy has that on  
20 her slide.

21 MR. CAMERON: Thank you for answering that, Janet.  
22 Kalynda, if you need more information on that, please talk  
23 to Janet after we break up today. We're going to go to

1 Blair Spitzberg to talk about -- you've heard from him a  
2 couple times, he's going to talk about the NRC inspection  
3 program. Blair.

4 MR. SPITZBERG: Thank you. My name is Blair  
5 Spitzberg, and I serve as the chief of the Fuel Cycle and  
6 Decommissioning Branch in our Region IV office, which is  
7 located in Arlington, Texas. The Region IV office is --  
8 Arlington is between Dallas and Fort Worth, close to the DFW  
9 airport. And we have responsibility for the inspection  
10 program and all NRC licensed facilities basically in the  
11 western half of the United States, and Hawaiian and Alaska,  
12 and some of the Pacific Islands that are U.S. territories.  
13 I'm just going to talk from my slides informally, and I'm  
14 going to hit the highlights. I've answered a few of the  
15 questions that I think I wanted to cover in my presentation,  
16 but I want to leave some time, if there's specific questions  
17 that I can address.

18 I want to start by telling you why I was asked to  
19 come here, and that's because my understanding is that in  
20 many of these public meetings, prior to tonight, there has  
21 not been a lot of discussion on the NRC's inspection  
22 program. And that's what we do in the Regional Office. And  
23 some of the licensed activities that my particular branch

1 inspects are very similar in nature to the types of  
2 activities that would take place at a Yucca Mountain, when  
3 and if it is licensed by the NRC. So while I cannot tell  
4 you precisely what the inspection program for Yucca Mountain  
5 would be, that's something that would have to be developed  
6 between now and the time that they would be given  
7 authorization to construct the facility. I can give you a  
8 glimpse at what we inspect at facilities that perform  
9 similar activities to Yucca Mountain.

10           So let me start with basic principles, and just  
11 discuss what the role of the regional offices are. Why do  
12 we have regional offices, we could all be in Washington,  
13 D.C., with the rest of the folks that are here tonight  
14 representing the NRC? Well, a decision was made back in the  
15 beginning of the NRC, when it was split, and was formed as  
16 an agency, that the regional offices could -- be being  
17 separated physically by our headquarters office, would be  
18 able to focus more on the safety of the individual licensees  
19 and facilities. And so that is our prime responsibility is  
20 to conduct safety inspections of NRC licensed facilities.  
21 And by being separated from our Washington office, we don't  
22 get drawn into a lot of the other activities that the NRC  
23 has responsibility for, such as licensing, and public

1 affairs, and government affairs, and project management,  
2 rule making, some of the other activities. Our focus  
3 strictly is on safety inspections. We do have one other  
4 major responsibility and that is the emergency response  
5 role. We maintain an instant response center in the  
6 regional offices, and a 24 hour around the clock readiness  
7 to respond to emergency. So in the event that there was an  
8 event or an emergency, we would be the first agency  
9 responders. There's also response role for the headquarters  
10 office, and in our headquarters operation center. But we  
11 would likely be the first individuals to arrive at the  
12 scene. And while this response role has seldom been used  
13 for actual events, we do train and drill quite hard for that  
14 responsibility in the event that that is needed.

15           What the are the objectives of the NRC Inspection  
16 Program? It's really very simple, we verify safe conduct of  
17 licensed activities. We verify the adequacy of licensee  
18 controls. And we examine trends in licensee safety  
19 performance. When a license is issued for a facility the  
20 license will contain the requirements and commitments that  
21 the licensee has made to the NRC, and we inspect against  
22 that as well as the regulations that they're subject to. So  
23 the criteria that are specified in a license, we have

1 procedures, individual procedures for inspecting all of  
2 those criterion and safety requirements.

3           Just to give you an idea of some of the areas that  
4 our inspection procedures that currently exist cover, that  
5 would probably translate directly to a waste repository.  
6 I've listed some on this slide here, and I'm not going to go  
7 through each one of them, but I just wanted to give you the  
8 flavor of the areas that my inspection staff, and other  
9 experts within the regional offices currently are trained  
10 and qualified in inspecting. And that these types of --  
11 these category of inspection would, of course need to be  
12 inspected at a geologic repository. In addition to these  
13 there maybe some other unique inspection activities that  
14 might need to be developed that are unique to a high-level  
15 waste repository, and when the license application comes in,  
16 and we would be working with headquarters to develop these  
17 unique inspection procedures, as needed.

18           I wanted to discuss another important aspect of  
19 the Regional Inspection Program, and that's the review of  
20 allegations. Allegations come to us by many different  
21 forms, telephone, letters, word of mouth. We receive  
22 allegations from workers, from ex-workers, from wives of  
23 workers, from anonymous sources, from neighbors, a wide



1 variety of sources provide allegations to us. And we have a  
2 very formal process for reviewing these allegations. They  
3 go before a formal panel in the regional office that  
4 consistent of senior NRC management, technical staff, legal  
5 staff, representatives of our Office of Investigations,  
6 which is a separate investigatory office within the NRC.  
7 And when the review of that allegation determines that  
8 there's a potential safety issue or compliance issue,  
9 related to the allegation, then it is investigated formally.  
10 And this is historically provided a good source of  
11 information on safety activities at licensed facilities. So  
12 we look at allegations very seriously and aggressively  
13 pursue them when they have potential safety impact.

14 I mentioned to you that we don't know exactly what  
15 the parameters or the design of the inspection program would  
16 be for a Yucca Mountain facility, however we can project,  
17 based on our current inspection programs, that it would  
18 consist of resident inspectors and that inspection activity  
19 would be augmented by inspection expertise from the regions,  
20 and in some cases from headquarters. The process would be  
21 that they would do an inspection over a period of time,  
22 which could range in terms of length, from perhaps a week to  
23 a month, and what -- at the conclusion of that inspection,

1 the inspect -- preliminary inspection findings are debriefed  
2 to the responsible first line management in the regional  
3 office. Then the next week when the inspectors are back in  
4 the office, they would have a formal debriefing with the  
5 senior management in the office, and a determination would  
6 be made at that point whether any action was needed on part  
7 of the licensee to correct any findings.

8           We do have a formal enforcement process that takes  
9 into account the significance of any safety violations. We  
10 have a number of tools available to us to achieve compliance  
11 and enforcement with the regulations, depending upon the  
12 significance of the infractions, we could issue formal  
13 notices of violations that the licensees would need to  
14 respond to. In other cases we can take more severe actions,  
15 such as issuing civil penalties or orders to modify or  
16 revoke a license. We do have all of these capabilities  
17 within our enforcement program, and they're exercised based  
18 upon the significance of the inspection findings.

19           That concludes my formal remarks. So I'll -- I  
20 don't know, Chip, whether you wanted to go to --

21           MR. CAMERON: I think we've heard a couple answers  
22 on inspection questions, but let's see if there's any others  
23 out, and then we'd want to finish off the evening with this

1 whole program runs on for all of us, whatever your point of  
2 view is, and that's information. Okay. Sally?

3 MS. DEVLIN: Thank you very much for a very  
4 informative program. I didn't realize that you regulated  
5 the transport of radioactive material. And this is -- I've  
6 made presentations on this to you at the hearings in Vegas  
7 several times. I was asked a question about limitations of  
8 liability, and of course I got the report from Washington on  
9 Price Anderson. And my friend here just asked the question,  
10 when one of these canisters blows up, and pollutes the world  
11 and so on, what is the liability? And Price Anderson has  
12 500 million and 60 million for the attorneys. Now that is a  
13 very small amount, and my analogy of course was it wouldn't  
14 build half a casino in Las Vegas. Now how do you handle  
15 that? And I say that because I have never heard anybody but  
16 myself mention Price Anderson. I introduced the Board to  
17 it. And what goes on in Texas? You must -- there's  
18 radioactive stuff going across the nation all the time, and  
19 they are having accidents. And you -- they have admitted  
20 it. And this is probably why I got into this was on  
21 transportation. And this is the most terrifying portion of  
22 the whole project is transportation. And I'm not going to  
23 say anymore, we'll talk a little bit --

1           MR. SPITZBERG: I understand the question. I'm  
2 not probably the best person to respond to Price Anderson  
3 questions. However, I can tell you that for the -- for  
4 those accidents that have occurred involving the shipment of  
5 radioactive material, most of the accidents have involved  
6 accidents involving delivery trucks for radiopharmaceuticals  
7 and that type of much lower activity -- radioactivity, and  
8 in those cases the packages are not as well designed, and  
9 are not subjected to the same qualification criteria as the  
10 packages for high-level waste. So in those cases if there  
11 have been some contamination say of the pavement, or the  
12 surrounding area where those accidents have occurred, the  
13 cleanup has been relatively simple and inexpensive. And so  
14 I don't think that any invocation of Price Anderson type of  
15 funding has been needed in those cases.

16           Chip, do you have any --

17           MR. CAMERON: Well, I was going to say, I think we  
18 owe Sally an answer on that applicability of Price Anderson,  
19 and I'm glad that you brought the issue up, because it  
20 doesn't come up too often, and it is an important issue.  
21 And --

22           MR. SPITZBERG: By the way, the safety record --  
23 there's a publication on the back table on the

1 transportation of radioactive materials, and there's some  
2 statistics in there that are very revealing about the safety  
3 of transportation of radioactive materials. The incidents  
4 of accidents are quite low. And those accidents that have  
5 occurred have generally not resulted in significant impacts  
6 to the safety of the public.

7 MS. DEVLIN: This is a different project.

8 MR. CAMERON: Okay. Go ahead. And Kalynda do you  
9 have a questions on inspection?

10 MS. TILGES: I can wait until everyone's gone.  
11 I'll wait till last.

12 MR. CAMERON: Okay.

13 MS. BUNCH: Ty Bunch. Being my background is in  
14 the medical field. We were inspected by the NRC of course.  
15 We knew that they were going to come in every scheduled  
16 time, say every two years, but along with that they would  
17 do, what we would call surprise inspections, where we had no  
18 idea out of the blue, a man would be there or a woman would  
19 be there. Hi, I'm from the NRC. I used to be responsible  
20 for the in-house radiation safety officer. And in my  
21 experience those were of the most value when we had no idea  
22 that we were going to be inspected. Will that be considered  
23 as part of what you're going to be doing?

1           MR. SPITZBERG: Yeah. That's a good question. We  
2 still do some unannounced inspections, and we always have  
3 that option available to us. In some cases we do announce  
4 inspections of that type of license, because we like to  
5 ensure that the right people are going to be there for us to  
6 inner face with, however we do still do some drop in  
7 inspections. In the case of Yucca Mountain where there  
8 would be resident inspectors, then what you would probably  
9 look for is off shift inspections, you know, in the middle  
10 of the night, and back shift, things like that, but yes,  
11 that is an important aspect of the inspection program is the  
12 option to do unannounced drop in inspections.

13           MR. CAMERON: Okay. How many more people have  
14 inspection questions? So there's two back there, and Grant  
15 and Kalynda. Let's go, Kalynda, do you want to go ahead and  
16 ask yours now, and then we'll go over there, and then we'll  
17 go to Grant. Okay?

18           MS. TILGES: Okay. Well, just for the record and  
19 any kind of questions, I can always wait till last, because  
20 sometimes I can drop my questions. But this one kind of  
21 directly ties in with what Ty just said. I was curious as  
22 to whether the resident inspectors were going to be a 247  
23 deal, but apparently they're going to have shifts, and they

1 won't be there 24 hours a day, seven days a week?

2 MR. SPITZBERG: Yes. I don't think we've gotten  
3 to the point where we've sorted those of details out on the  
4 inspection program. I'm sure that decision would be made  
5 well in advance of the construction activities, but for  
6 example, at operating power reactors we don't maintain an  
7 around the clock presence. We do have resident inspectors,  
8 however, at the power reactors. And so I don't know that  
9 any decisions or thinking along those lines for around the  
10 clock coverage have been made. I will say, however that one  
11 of the responsibilities I have is the loading of spent fuel  
12 into dry cask for the ispicies (phonetic) that Rob showed up  
13 on the map here. We have several of those ispicies  
14 operating in our region. And when licensees do a first time  
15 evolution, such as a loading of a cask, we do provide around  
16 the clock coverage quite often for those types of  
17 activities.

18 MS. TILGES: Just as a quick comment on that, as  
19 it was mentioned before, this is not a reactor site, this is  
20 something completely different, and I would certainly hope  
21 that the onsite inspection would be taken -- that that would  
22 be taken into consideration. And just as a process point, I  
23 keep forgetting to do this. My name is Kalynda Tilges. I

1 with Citizen Alert. And sorry to the transcriptionist. And  
2 this may seem like a silly little thing, but oh, well, I  
3 don't understand, is there a difference between on onsite  
4 rep and a resident inspector, or are they -- is it  
5 different? Two titles for the same thing, what's the  
6 difference?

7 MR. SPITZBERG: Well the -- I've not looked at the  
8 job description for the onsite rep, but the onsite rep is  
9 not doing inspections in the same sense that we do them from  
10 the regional offices in the sense that they're not -- first  
11 of all inspectors report to the regions, and not to  
12 headquarters. The onsite reps are part of the high-level  
13 waste organization, so they're more akin to the licensing  
14 function than they are to the inspection function. So  
15 there's that the independence of the inspectors, and their  
16 reporting chain through the regional office is one  
17 difference. The other difference is, to my knowledge the  
18 onsite reps are not performing inspections according to any  
19 inspection procedures, or inspection manual chapter.  
20 They're not documenting their findings in the same manner  
21 that the inspection staff would be expected to document it.

22 MS. KOTAR: Could I follow up on that?

23 MR. SPITZBERG: Sure.



1 MS. KOTAR: And there's a reason for that, and  
2 that is because the Department of Energy is not a licensee  
3 yet. We're in a prelicensing mode. What -- the reason that  
4 we have an onsite representative office is to provide some  
5 oversight of the site characterization activities. They  
6 studying that's been going on at Yucca Mountain, so that we  
7 will have a basis to make findings about the adequacy of the  
8 site characterization. But we have not entered into a  
9 licensing relationship with the Department of Energy at this  
10 time, and that -- there's a lot of decisions as Bill Reamer  
11 indicated, that have to taken, not just by our agency, but  
12 by the President, by the Congress, by the Department itself,  
13 before we get to that point. When we get to that point,  
14 then like all of our other major licensees, there will be  
15 decisions about the -- how many resident inspectors we will  
16 have. What their backgrounds will be. What their hours  
17 will be. What type of provisions will be make for  
18 additional inspections from headquarters? All those types  
19 of things, you know, will be part and parcel of our  
20 oversight and regulation once, you know, there is a decision  
21 to grant a license. But until that time, we are maintaining  
22 a less formal, but nevertheless important function by  
23 observing how the site's characterized. And as Bob Latta

1 indicated, not just to look over DOE's shoulder, although  
2 that's an extremely important role, but also to interact  
3 with the public, and to understand what those concerns are  
4 as we gear up for a much more formal relationship, once  
5 they've submitted the application. Once they've submitted  
6 an application, they become, in our lexicon, an applicant.  
7 And there's a lot of attaches to that, so that's kind of  
8 just a thumbnail.

9 MS. TILGES: And one more question just along this  
10 line here, then I actually have a general question for you  
11 later, but this right here isn't the form -- isn't the time  
12 for it this evening. Has it been -- is it being -- is it  
13 going to be taken -- maybe it hasn't been decided yet, but  
14 is it being thought of at least, will every shipment, every  
15 emplacement be monitored, or will it just be certain ones?  
16 I mean they're going to be coming in fast and heavy everyday  
17 once it starts. Are -- is every emplacement going to be  
18 monitored? Every cask going in going to be monitored?  
19 Every gantry that's slid in going to be monitored? Or are  
20 you just going to pick certain -- pick and choose certain  
21 ones?

22 MR. SPITZBERG: I think the answer is that we  
23 would either monitor every one or we would examine the

1 records associated with every one.

2 MS. TILGES: So that hasn't actually been decided  
3 yet?

4 MR. SPITZBERG: That has not actually been decided  
5 yet. And I think a lot of that will depend on the frequency  
6 of arrival, and processing of the individual casks into the  
7 emplacement. I don't get the impression just from my, the  
8 little knowledge that I have of the concept of operations,  
9 that this is going to be something that's going to be  
10 happening so fast and furious that we would not be able to  
11 monitor pretty thoroughly the activities taking place.

12 MS. TILGES: And it's my understanding that not  
13 every cask is going to be the same. I'm not talking about  
14 the size, shape or design necessarily, I'm talking about  
15 exactly what's in it, and --

16 MR. SPITZBERG: Yeah.

17 MS. TILGES: -- you know, dealing with burn up  
18 credits and other things like that.

19 MR. SPITZBERG: There will be a very detailed  
20 audible record of all of that, and we would be looking at  
21 that quite rigorously.

22 MR. CAMERON: Okay. Thank you, Kalydna. Susi,  
23 question -- inspection?

1 MS. SNYDER: Sorry. You kind of threw me off by  
2 calling my name. Okay. Yeah. I have a couple of  
3 questions. One is about your Slide Number 4 that wasn't up.  
4 And I would also -- again, my name is Susi Snyder. And I'd  
5 like for the record to request a better copy of Slide Number  
6 2 just for my own -- you have my address. And it's a neat  
7 little map I'd like to see it more clearly.

8 MR. SPITZBERG: Which one are you speaking of?

9 MS. SNYDER: This -- right now I'm talking about  
10 Number 4.

11 MR. SPITZBERG: I don't have them numbered, maybe  
12 you can help me.

13 MS. SNYDER: It's the one -- it's the map.

14 MR. SPITZBERG: Oh.

15 MS. KOTAR: I've got this right here.

16 MR. SPITZBERG: Okay.

17 MS. SNYDER: I notice it happens to me like five  
18 people trying to file all at the same time. It just -- it  
19 hardly ever works.

20 MS. KOTAR: Well, he gave an abbreviated  
21 presentation.

22 MS. SNYDER: Yeah. Okay. My question on this,  
23 the level of -- I guess, actually this was very much covered

1 by what Kalynda just said. And thank you for asking those  
2 great questions. The level of inspection effort will be  
3 risk based. And that risk then, as I understand it, and I  
4 just want clarification here -- oh, we're on different  
5 slides -- that level -- that's the one I want my own copy --  
6 I want a better copy of. Because I can't see it on this,  
7 it's too small. But this is the one I was talking about.  
8 Yeah. There we go, risk based. Now, that's DOE -- DOE  
9 assesses that risk, is that what you were saying earlier is  
10 that?

11 MR. SPITZBERG: Yeah. That DOE performs an  
12 integrated safety analysis, which we then review. And based  
13 upon our review of that, and our determination of the  
14 relative risk, that is how we would focus our inspection  
15 effort. That's not to say that the lesser risk activities,  
16 we wouldn't inspect. But we would inspect more on the  
17 higher risk activities.

18 MS. SNYDER: Okay. And so you just said here that  
19 the -- you'll be doing your review of those. But you also  
20 said earlier that you'll be adopting the DOE's analyses to  
21 the extent practicable, which is a great word I've learned  
22 since I've started this EIS process.

23 MS. KOTAR: Okay. But I did not say that.

1 MS. SNYDER: Oh, yeah -- I think -- I'm sorry.

2 MS. KOTAR: Bill Reamer said that --

3 MS. SNYDER: Okay.

4 MS. KOTAR: -- and Sandy also said that.

5 MS. SNYDER: Sandy said it. Oh, yeah, so that --  
6 so then --

7 MS. KOTAR: Sandy --

8 MS. SNYDER: -- that risk analysis would still be  
9 it -- it's still from the DOE would be --

10 MS. KOTAR: The risk analysis, no.

11 MS. SNYDER: No, okay.

12 MS. KOTAR: It's the environmental impact  
13 statement --

14 MS. SNYDER: Okay.

15 MS. KOTAR: -- that we are obligated by law to  
16 adopt to the extent practicable. And we will have to make a  
17 judgment that's part of the environment review about whether  
18 it is practicable, and the extent to which it is practicable  
19 to adopt the EIS.

20 MS. SNYDER: Okay.

21 MS. KOTAR: The risk assessment that you're  
22 referring to is part of our safety -- detailed safety  
23 review.

1 MS. SNYDER: Okay. That's -- I was curious on  
2 that, and I very much appreciate your clarifying it for me.  
3 The other thing -- okay. This is the last -- probably the  
4 last one -- okay. Now on Number 11 you were talking about  
5 the enforcement if needed. And I would just like for  
6 everybody to be aware of the NRC's enforcement record. And  
7 as I understand it NRC -- when NRC enforces a safety  
8 violation on a reactor say, they issue large fines. Well,  
9 those fines don't come out of the utility company so much as  
10 they come out of the rate payer pockets. And now if  
11 enforcement can -- are we talking about? You're not going  
12 to go out there and arrest DOE or something. You're going  
13 to go out there and issue fines, but those fines will come  
14 then out of our pockets, and I'm just wondering how are you  
15 going to enforce safety violations? And --

16 MR. SPITZBERG: Well, as I mentioned there's a  
17 number of different tools available. Civil penalties is  
18 only one of the options available. If -- depending upon the  
19 significance of the infractions or the violations, the  
20 safety significance, we could issue orders to the licensee  
21 to either cease activities, revoke the license, modify the  
22 license. We can issue orders to individuals, if individuals  
23 have been involved. And for example, wrongdoing. We can

1 issue civil penalties. We can remove individuals from  
2 licensed activities. We have a wide range, and most of  
3 these enforcement tools have been fairly effective in  
4 bringing about a high level of compliance with our  
5 regulations. There's not too many licensees that want to be  
6 repeat offenders when it gets into the significant  
7 violations. And --

8 MS. SNYDER: But the thing is there are licensed  
9 operating facilities around the country which are repeat  
10 offenders, and they have not been shut down. And so it's  
11 hard for me, as I come from the east coast, you know, and I  
12 saw a lot of things. I saw -- just recently I saw, you  
13 know, this horrible thing at Indian Point Reactor, which is  
14 only 30 miles from where I grew up. And, you know, and I  
15 don't see the utilities being accountable for it. And I  
16 want to know that, you know, that here DOE, and those  
17 utilities who, I guess, which makes up the rate payers, but  
18 I want to see that there is an accountable person. I don't  
19 know want to see, you know, Joe Blow get fired because he  
20 was hung over last night, and he came in and he stumbled  
21 over a cord, and, you know, whoops, there goes Yucca  
22 Mountain. But, you know, what I'm saying? I'm trying to be  
23 appropriate, I've had a long day. But like -- but that's,



1 you know, you gave me civil penalties, and you can, you  
2 know, fire and remove individuals. But, you know, and then  
3 long term you could shut it down, if there is severe  
4 repeated violations, is what I heard? Is that --

5 MR. CAMERON: Could someone just really emphasize  
6 for Susi, and for the rest of the audience how seriously we  
7 take this enforcement responsibility and what would happen  
8 if we saw deviations from procedures or whatever. Blair?

9 MR. SPITZBERG: I can try. I've tried to address  
10 this, and maybe what we need to do for one of these meetings  
11 is get a representative of our enforcement staff out here.

12 MS. SNDYER: Yeah. I'd like to meet them.

13 MR. SPITZBERG: We do have a dedicated enforcement  
14 staff. And these are individuals whose only job is to  
15 review and take enforcement actions consistent with the  
16 NRC's enforcement policy. By the way, which is available on  
17 our web site. And it might be good, if you want more  
18 information, would be to review that. I did not bring a  
19 copy with this -- tonight. However, as I mentioned, the NRC  
20 has, over the years, exercised all of these enforcement  
21 options for virtually every category of licensee that has  
22 been found to be in significant noncompliance with the  
23 safety requirements. And up to and including removal of

1 individuals from licensed activities. We also -- I'm only  
2 mentioned it in passing, but we also have an office of  
3 investigations, and their sole purpose -- they are  
4 independent of both the regional staff and the headquarters  
5 staff, their sole purpose is to investigate potential  
6 wrongdoing among licensees. So if there's -- and by  
7 wrongdoing, I mean things that would comprise criminal acts,  
8 such as falsification of records, lying to NRC inspectors  
9 and so forth.

10 MS. SNDYER: Yeah. But I met a guy who used to  
11 work at Vermont Yankee, and he worked there for 16 years.  
12 And was told by his superiors, you know, watch out for this  
13 particular pump, it's red flagged. It was red flagged for  
14 nine months, and that's inappropriate. It was my  
15 understanding if you've got a coolant pump that's red  
16 flagged, it's supposed to be replaced within a month, or  
17 else NRC calls for a shutdown. That did not happen. And so  
18 I'm just, you know, I just want to know that we'll have --  
19 that we can expect more of you than we have seen in the  
20 past, because I, you know, I remember that kid in third  
21 grade who passed away from leukemia. I remember these  
22 things. And it's because of unenforced, you know, well  
23 first of all the, you know, the 25 millirems, that's way too

1 much. But it's because of these regulations that are  
2 unenforced that these things are allowed to happen. And I  
3 don't want to see them happening. I don't want to see them  
4 happening here.

5 MR. CAMERON: Susi, thank you. But I think that  
6 your point is coming across loud and clear. Thank you very  
7 much.

8 MS. SNDYER: Good. That's the way I like to be.  
9 All right. Thank you.

10 MR. CAMERON: Susan Ward.

11 MS. WARD: Susan Ward, Nye County. My questions,  
12 of course, would have to do with emergency response, so I  
13 have four or five, but they all are pretty similar. Do you  
14 respond to the facility -- is that what, you know, you  
15 mentioned that you respond, you have this 24-hour number,  
16 and you respond to the facility, to the repository, or do  
17 you respond to transportation accidents? Could you be more  
18 clear on what your response is?

19 MR. SPITZBERG: Yes. The facility itself would  
20 have an emergency plan which would define certain categories  
21 of emergencies. And depending upon what the nature of the  
22 emergency is, they would have to make a declaration and  
23 notification to the NRC, and we would respond to the site.

1 It would be the resident inspector probably would be the  
2 first person there. He would be supported by a site team  
3 from the region, if that was called for, depending upon the  
4 circumstances.

5 As far as transportation is concerned, the primary  
6 responsibility for that would be the shipper, and the  
7 State's response organization, which are, as Rob mentioned,  
8 have all been trained to respond to contingencies involving  
9 transportation accidents. Of course, DOE also has RAP  
10 teams, or radiological response teams that could respond --  
11 that would respond to these types of events, and of course  
12 we could provide support and response also as needed, if the  
13 States so requested.

14 MS. WARD: Okay. I'm aware of those response  
15 teams. But you said you are going to respond, are you going  
16 to bring any specialized equipment, or is it just personnel  
17 in an advisory capacity because of the license?

18 MR. SPITZBERG: We have -- we do have emergency  
19 equipment that we keep ready to respond. Mainly it's  
20 radiological monitoring equipment, survey instruments, and  
21 so forth to look for contamination. We have emergency  
22 dosymetry that we can deploy. We maintain an Incident  
23 Response Center in the regional office, which is tied into

1 our Headquarters Operation Center. And we have a trained  
2 and on duty staff of emergency personnel that when they  
3 receive the call, then we have call out lists that then get  
4 in everybody that's on the duty roster engaged as needed by  
5 the -- under the direction of the regional administrator.

6 MS. WARD: Okay. So when you show up at the  
7 scene, then you will bring equipment, monitoring equipment  
8 and so forth? The information that you determine would that  
9 be given to the county or --

10 MR. SPITZBERG: Yes, that is correct.

11 MS. WARD: -- or how would we be in the loop on  
12 this and --

13 MR. SPITZBERG: The states are part of the  
14 planning for -- of the NRC for responding to emergencies.  
15 The states do have a role in this responsibility, we have  
16 State liaison personnel in the states that interface with  
17 the state authorities, and I'm not sure exactly how -- what  
18 the interface would be in Nevada, since Nevada is an  
19 agreement state. They would almost certainly have a role in  
20 responding to emergencies at the site, if one were to occur.  
21 But I'm not sure if -- I'm just speaking in terms of how it  
22 works at the power reactor sites not -- and how that would  
23 specifically, in terms of the relationships between the

1 state and the NRC, and Yucca Mountain, I'm not sure I can  
2 speak to that at this point.

3 MS. WARD: So in that planning phase -- the  
4 emergency response phase, it would -- it appears to me that  
5 we need to be sure that the county is also included in the  
6 notification in order to find out what's going on since it  
7 is --

8 MR. SPITZBERG: Yeah. Normally, the states and  
9 counties would be involved in terms of being fed the same  
10 information that the NRC receives, and then their  
11 responsibilities would extend from the site boundaries out  
12 into the adjacent areas. The NRC's responsibility would be  
13 on the site itself.

14 MS. WARD: Do you have any idea how long it would  
15 take you to get to the site? I mean have you thought about  
16 it? You have to fly in and then you have to drive up there.

17 MR. SPITZBERG: You're talking about from the  
18 regional office?

19 MS. WARD: Yes. And what regional officer would  
20 you be coming from?

21 MR. SPITZBERG: We have contingencies, if needed,  
22 to retain the services of private jets to fly our initial  
23 site teams to the sites. And so I don't know what the

1 flying time would be for a private jet. I would take -- say  
2 it would probably be on the order of an hour and a half  
3 flight time, plus a muster time of probably a couple of  
4 hours. But as I mentioned, we would have the site --

5 MS. WARD: And then you would have some driving  
6 time?

7 MR. SPITZBERG: Yeah.

8 MS. WARD: Okay. Thank you.

9 MR. CAMERON: Thank you, Susan.

10 MR. LATTA: Just draw a parallel to the commercial  
11 reactor --

12 MR. CAMERON: Bob, you're going to have to speak  
13 into the mic if we want to get this on the record.

14 MR. LATTA: We're trying to draw parallels to  
15 contingency plans that we have in place for operating  
16 reactors, and that's a little bit different for me to  
17 extrapolate 10 years down the line what DOE's emergency plan  
18 is going to represent. I, as a resident was about 20 to 30  
19 minutes away from the site, and I did get calls, and I did  
20 respond, and I was there. You know, I didn't have a -- so  
21 the NRC presence is there, and it's available on short  
22 notice. But once again, we are not controlling the -- their  
23 response. We just observe it. You know, obviously if we

1 can see things that are not appropriate we can take action.  
2 But it is the responsibility of the licensee. It is the  
3 responsibility of the licensee to -- those activities.

4 MR. CAMERON: You're just going to have to -- why  
5 don't you step in there.

6 MR. LATTA: No, that's all I'm going to say. The  
7 only parallel I could draw like I say is on the operating  
8 reactor side, and to that extent the residents are clearly  
9 part of the initial response personnel.

10 MS. DEVLIN: I have to ask you a question in  
11 reference to that. We have three experts here, Roy Clark,  
12 Dr. Hechanova, and my -- where did he go? There you are.  
13 Come over here, don't run away. And we're talking about  
14 dosage, radiation dosage. And they can discuss this. I  
15 haven't heard you mention it, and I think it's the most  
16 important thing that there is. And of course radiation  
17 poisoning is number one on my list with no emergency  
18 preparedness, or hospitals in Nye County. And in many other  
19 counties that these -- this transportation will go through.  
20 We have no railroads. We have no roads. They're all a nine  
21 hazard as you well know. Our U.S. 95 is a nine hazard, that  
22 makes it the highest hazardous road in the nation. There  
23 isn't any category higher. So we've got a lot of things to



1 resolve with radiation poisoning, and I hope you can give  
2 some answers to the public. That is something we definitely  
3 need.

4 MR. CAMERON: Okay. Thanks, Sally. Let's take  
5 two more questions on inspection. And then we're going to  
6 bring Dan Graser up. And Dan, why don't you come up and get  
7 ready to do your talk on information? Gentleman in the  
8 back, please come up to the mic, and Kalynda. Kalynda, why  
9 don't you do yours really quickly while he's coming up?

10 MS. TILGES: I just have a quick comment. You're  
11 talking about violations and how to handle those, and that's  
12 something that Susi brought up. Kalynda Tilges, Citizen  
13 alert, for transcriptionist. I just want to make a comment  
14 that in the case of a nuclear reactor, if there's a  
15 violation, you can shut it down. You can't shut Yucca  
16 Mountain down. That's my comment.

17 MR. LATTA: Well, yeah. I don't understand your  
18 parallel there. If the violation --

19 MS. TILGES: Well, what --

20 MR. LATTA: -- is serious enough, we can issue a  
21 stop work order, if that's what you're talking about.

22 MS. TILGES: Yeah. But you can't turn it off is  
23 what I'm saying.

1 MR. LATTA: Well, I don't --

2 MS. TILGES: Shut it down --

3 MR. LATTA: -- know what you're talking about when  
4 you say --

5 MR. CAMERON: You're going to have to speak in the  
6 microphone.

7 MR. LATTA: Yeah, I don't --

8 MS. TILGES: If there's a safety violation where  
9 something serious has happened, God forbid.

10 MR. LATTA: Well, could you explain what that  
11 would be?

12 MS. TILGES: Groundwater contamination. Open  
13 containment.

14 MR. LATTA: Well, groundwater --

15 MS. TILGES: A spill of some type.

16 MR. LATTA: Groundwater contamination would have  
17 been preceded by several other events, wouldn't it? If  
18 we're talking about fuel that is in a container, which is  
19 seal welded. We're talking about a breach of numerous  
20 barriers here, aren't we? So I don't know exactly what  
21 situation you're hypothesizing. But it would, in my mind,  
22 be as a result of numerous failures.

23 MS. TILGES: If there's a serious violation --

1           MR. CAMERON: So that the point is that we would  
2 catch that before it would happen, is that --

3           MR. LATTA: Yeah, I -- you're going to have to  
4 explain to me the nature of the accident that you think  
5 would require immediate shutdown. Because I don't  
6 understand the term, shutdown, here.

7           MS. TILGES: Well, I don't think that, you know,  
8 either the NRC or the DOE has come up with all the different  
9 scenarios, and I certainly wouldn't be one to come up with  
10 all them.

11          MR. LATTA: No, but what Blair has talked about at  
12 length, is the fact that we have numerous years of  
13 experience of handling spent fuel, and inserting it in  
14 canisters, and storing it. That I don't think you can  
15 disregard that experience on our part. We have some  
16 expertise in the field. It has not been applied to a high-  
17 level waste repository. That's what I'm saying, we're  
18 trying to extrapolate the inspection techniques that we have  
19 developed for power reactors, and apply them to a high-level  
20 waste repository. So if you're saying under what conditions  
21 would we stop movement of fuel? That would be dictated,  
22 once again by DOE's procedures and programs, which they have  
23 in place. If they're lifting fuel from spent fuel pool, and

1 the fuel -- and the crane stops for any reason, or it jogs,  
2 or they can't index it properly, they stop. Their  
3 procedures require them to. So I -- I'm not exactly sure of  
4 your question.

5 MS. TILGES: Well, maybe I'm not exactly sure of  
6 it either. I'm not a scientist, I'm basically a public  
7 citizen at this point.

8 MR. LATTA: Right.

9 MS. TILGES: And I'm just concerned that Yucca  
10 Mountain is not the same as a nuclear reactor, and it can't  
11 be handled the same way. If there is a serious problem it's  
12 not something that you can shut off and stop.

13 MR. LATTA: Right. But there are a number of  
14 parallels, like I say, the fuel as it arrives, would be  
15 unloaded from the canisters, and conceivably either stored  
16 in a spent fuel pool, or immediately loaded into the waste  
17 packages. You know, there's only one or two options there.  
18 And there are procedures which control all of those  
19 activities. Licensed personnel, trained personnel.

20 MS. TILGES: If I was a scientist or a technical  
21 person, I could probably argue --

22 MR. LATTA: It's a very, very controlled process.

23 MS. TILGES: -- this point with you further, but

1 at this point I'm just going to leave it until I understand  
2 it better.

3 MR. LATTA: Well, yeah. I'm sorry. I'm not  
4 trying to be evasive here. I guess I -- if I'm going to  
5 answer the question I -- you have to pose to me the  
6 conditions under which you think the NRC should be stopping  
7 the, you know, the operation of the facility.

8 MS. KOTAR: May I just interject here? Because I  
9 think where Bob is having a problem is that the scientific  
10 and technical community tends to view a power reactor as a  
11 much more fast moving, higher energy source of potential  
12 hazard. If something does go wrong you do have the  
13 potential for scenarios that can deteriorate over a very  
14 short time constant. When you're talking about the very  
15 large amount of waste that we would put in a repository,  
16 yes, you have a potential for a great deal of exposure, if  
17 not properly shielded, but you don't have the potential  
18 mechanism for distributing large amount of radioactivity in  
19 a short period of time. So as Bob indicated, you have the  
20 capability to see, with your performance confirmation  
21 period, you know, long before, you know, waste begins to get  
22 to the groundwater, you would have other indications in your  
23 monitoring program that the performance is not as you

1 expected it to be. And you could take corrective action,  
2 including retrieval, during the retrieval period. But  
3 before that you would have opportunities to stop further  
4 emplacement. Go in and do further tests. And that you have  
5 a luxury of time that you do not have with a reactor. They  
6 are different systems, that's true. And there are different  
7 safety considerations that have to be taken account of in  
8 both cases. But I think that the perception, as safety  
9 people that we are, that you have a -- an emergency -- the  
10 potential for an emergency with the time constant of a  
11 reactor accident, is, you know, that probability is just not  
12 as high in the case of a repository.

13 MR. CAMERON: Okay. Thank you.

14 MS. TILGES: I hope that's true. Thank you.

15 MR. CAMERON: And let's -- one more question, and  
16 we really need to get Dan Graser on. Okay? Here to talk  
17 about information.

18 MR. SULLIVAN: My question is -- my name's Graham  
19 Sullivan, I work with Shendohigh (phonetic) Network. Did  
20 the NRC license the USC ecology dump at Beatty? And --  
21 which is leaking plutonium, which it wasn't even supposed to  
22 have at all in the first place. And what about Maxiflats  
23 (phonetic), it's a super funds site, and if they -- if it is

1 a regulated area, or a licensed dumps, what kind of  
2 inspection personnel are located there?

3 MR. SPITZBERG: We didn't license Maxiflats. And  
4 I believe that Beatty was licensed by the State of Nevada,  
5 if I'm not mistaken. Is the State fella still here? And so  
6 I don't have any knowledge of what you speak of. But, you  
7 know, that was a low-level shallow land burial site, Beatty,  
8 Nevada. And it was for what we call low-level waste which  
9 is distinct and separate from the high-level waste that  
10 we're talking about at Yucca Mountain. And that waste was  
11 not contain arise (phonetic) by the way, also. And it  
12 didn't have the multiple barrier system that the Yucca  
13 Mountain facility would feature.

14 MR. CAMERON: Okay. Thank you, Blair. Thanks,  
15 Bob. Thanks, Janet. The last presentation we're going to  
16 do tonight is an important one because it's how people get  
17 access to information on the repository. It's a very  
18 simplistic way to say it. But Dan Graser, who is a  
19 licensing support network administrator, is going to tell us  
20 about the information management and litigation support  
21 system that's available, will be available to the public for  
22 use in this proceeding. Dan.

23 MR. GRASER: Thank you, Chip. Good evening,

1 everybody. As Chip said, I'm the licensing support network  
2 administrator. I work for the Atomic Safety Licensing Board  
3 and Panel. That is the group of administrative judges who  
4 will actually be hearing the case. And I'm not a lawyer.  
5 I'm a computer guy. So I'll be focusing on the use of  
6 computers and how it's going to support the entire process.

7           The Licensing Support Network is driven by an NRC  
8 administrative rule that defines how hearings are conducted.  
9 They rule that I'm talking about is 10CFR2 Subpart J. That  
10 rule basically directs that the material that any of the  
11 participants intend to use during licensing proceeding needs  
12 to be made available prior to the commencement or prior to  
13 the docketing of the license application. And the -- this  
14 rule has been on the books since 1989. It was revised in  
15 this -- early 1999 to change the focus of the originally  
16 intended system, which was considered to be a mainframe to  
17 worldwide web based system, computer based system. And the  
18 object of the system is to connect the document collections  
19 that each of the participants, potential participants, or  
20 parties to the hearing process need to make their -- the  
21 documents that they determine are relevant documents, they  
22 need to make their own documents available on the web, and  
23 this system is going to connect all of those collections.



1 And it will mean that you do not need to go to 10 or 11  
2 different sites on the Internet. You can go to a single  
3 site, and using a single interface, identify the location  
4 and existence of documents that may have been placed out  
5 there by the Department of Energy, or the State of Nevada,  
6 or any of the other participants. The only thing that you  
7 would need to get access to this web site is a standard PC  
8 type computer with a web -- a browser, such as Netscape or  
9 Internet Explorer, and you need access to an Internet  
10 service provider capability to connect you to the Internet.  
11 The system is intended to be operational by July of 2001.

12           The -- I'd like to focus just very quickly here in  
13 terms of who has been involved in this. What it's really  
14 all about, and when it's going to be happening. The who in  
15 terms of this system, who's involved in it, as I indicated  
16 NRC has, since this past year assumed responsibility for  
17 implementing and operating the central search site. And as  
18 I said, each of the parties or participant organizations has  
19 the responsibility of making their relevant documents  
20 available on a computer system that can be connected to this  
21 network. The participants maintain their own collections,  
22 but NRC has given me the responsibility of ensuring that  
23 once a document is placed out there, that it doesn't

1 disappear sometime later. That once a document has been  
2 placed out on the web, that we can track that document  
3 through the whole process, and make sure that when it comes  
4 out the other end, we can say which organization placed the  
5 document out there, and when it came into the official  
6 docket of the system we can say that that's a true and  
7 accurate copy of the document. So my job is to ensure the  
8 integrity of the data for the duration. The computer system  
9 itself is probably going to be out there throughout the  
10 duration of the license hearing -- through the licensing  
11 procedure. And as indicated a couple times earlier tonight,  
12 that's three-year procedure. The clock starts ticking at  
13 the point the license application gets submitted.

14           The system. We've had a Federal Advisory Panel  
15 that's assisted us in defining the system. And participants  
16 on that panel have been meeting fairly regularly since,  
17 again 1989 time frame, but with renewed vigor here the last  
18 year. The State of Nevada, the affected units of local  
19 Government, including all of the counties in proximity to  
20 the Nevada test site, National Congress of American Indians,  
21 Nevada Nuclear Waste Task Force has had ongoing  
22 representation. Of course the Nuclear Regulatory  
23 Commission, the Department of Energy and representatives

1 from the nuclear industry. Now that's pretty much who's  
2 involved in it.

3           The real question is what does that mean to you as  
4 citizens, and why is a computer system important? There's a  
5 fairly large amount of information out there. The high end  
6 estimate right now is in the vicinity of 6 million pages of  
7 material, of relevant material that the parties maybe making  
8 available. And that's a lot of information to be out there.  
9 Obviously, you won't have time, if you started reading right  
10 now to read all 6 million pages. In fact, you probably  
11 don't even want to read all 6 million pages, but you do know  
12 that there are issues that concern you. And there is  
13 documentation out there from all the various parties, and  
14 you want to know, how do I get the facts that I need to  
15 support the issues or to be educated about the issues that  
16 I'm concerned about? And that's what this computer system  
17 is intended to do, is to provide a single location with a  
18 relatively simple user interface that will allow you to  
19 identify, by topic, by authoring organization, by a lot of  
20 different criteria, and be able to rapidly identify the  
21 documents that you would be needing to support your role in  
22 the licensing activity.

23           I've brought along a couple of flip charts here to

1 give you a flavor of what such a portal site would look  
2 like, and again this is the sort of place that you could go  
3 to directly on the Internet. The site that I picked here is  
4 from the National Library of Medicine. And the -- this  
5 chart is just indicating that you can have multiple  
6 underlying document collections, and in our case we would  
7 have a DOE collection, and a State of Nevada collection, and  
8 so forth. On the second chart, once you go in there and  
9 search the system and start looking for documents, you would  
10 get a list that comes back and basically says, here are a  
11 number of documents that are responsive. And if you click  
12 on the link, this system will bring back the text of the  
13 document. And if it happens to be nontextual documents,  
14 such as a topographical map, for example, or an engineering  
15 drawing, instead of bringing back the text document, it will  
16 bring back the image for you.

17           This system is going to be available and it will  
18 be used by the participants to prepared their contentions.  
19 That is to prepare the -- their position on a particular  
20 issue. And it will also be operational during the course of  
21 the licensing proceeding.

22           Out of this potential 6 million pages of material,  
23 not all of that material gets into the official docket file.

1 In fact, only a relatively small subset gets into an  
2 electronic docket file that will be made publically  
3 accessible, again through the Internet. But in order for a  
4 document to get to docket file, it has to come through this  
5 collection here. Except with, of course, if it's testimony  
6 during the hearing. But the electronic docket and this  
7 discovery collection are part of a broader initiative. The  
8 licensing proceeding, it is NRC normal practice, normal  
9 custom to conduct licensing proceeding in the vicinity of  
10 the facility that's being licensed. So there's a fairly, if  
11 NRC's consistent in this regard, the license hearing is  
12 probably going to be held in the Nevada area. Fair  
13 possibility that it would be in the City of Las Vegas. And  
14 NRC is looking at incorporating essentially an electronic  
15 courtroom. Because the kind of information that might be  
16 presented might be computer models, or simulation, or flip  
17 charts and overheads. And people giving testimony. And  
18 NRC's intention is to digitize the entire proceedings, and  
19 that digital record becomes the official record of the  
20 license proceeding. And the would be the record upon which  
21 any subsequent appeals, or lawsuits or anything else would  
22 be based. That entire courtroom proceeding, all of the  
23 testimony, all of the audio/visual materials would probably

1 all be digitally stored and saved. Now once we have all  
2 this information digitally stored and saved, we're also  
3 exploring the possibility of taking this electronic  
4 information and pumping it out in a couple of difference  
5 ways, as well. Possibly through cable, cable type networks  
6 like, you know, Cspan, or other public cable channels. And  
7 you could also take this digital recording and pump it  
8 through the Internet, and if you had a PC that was capable  
9 of downloading motion video and audio files, you would be  
10 able to watch the licensing proceedings in realtime on your  
11 computer. And I just want to make --

12 MS. DEVLIN: You do teleconferencing?

13 MR. GRASER: The teleconferencing is also  
14 something that is being looked at, because in fact there  
15 maybe situations, so, yes, it is something that we would be  
16 looking at.

17 I just want to reemphasize that these are things  
18 that we're exploring right now. But at a very minimum we do  
19 have the licensing support network, and we will have an  
20 electronic docket, and you will be able to get through it,  
21 as a member of the general public, right through the  
22 Internet.

23 When will this system be available? I've included

1 a flip chart with some of our milestones. I intend to have  
2 this system designed, completed sometime September 2000.  
3 We will move right into the system development phase between  
4 October 2000 and June of 2001. And I intend to deploy the  
5 NRC piece of the system, which is the connectivity and that  
6 central search page, have that deployed by July 2001.

7           The participant organizations, according to that  
8 10 CFR rule have to connect their document collections at  
9 prescribed times. The Department of Energy and the Nuclear  
10 Regulatory Commission have to make their collections  
11 available within 30 days of the site recommendation. The  
12 other participant organizations have to make their document  
13 collections available within 30 days of the license  
14 application.

15           The other aspect of this is that the parties do  
16 have to make the documents available as prerequisite for  
17 participation in the licensing activity. The question has  
18 been previously identified, what about smaller organizations  
19 who in fact may not have documents? Would that preclude  
20 them from going before the presiding officer, and asking for  
21 a status for the -- to participate in the hearing? And so  
22 that question has been raised, and I don't have the  
23 definitive answer on that one, but it has already been

1 identified, and people are working on that particular issue.

2

3 At this point I'll open it up to questions, and  
4 answer any specific questions that you have.

5 MR. CAMERON: How about questions about this  
6 information management system? Yes, sir.

7 MR. SULLIVAN: I just got one really quick  
8 question. My name is Graham Sullivan again. This is really  
9 great what you're doing, putting it out there to the whole,  
10 you know, multimedia universe, or whatever, but what about  
11 people that don't have money to have computers or anything  
12 like that, or cable, short circuit T.V., or anything like  
13 that and --

14 MR. GRASER: Okay.

15 MR. SULLIVAN: -- where are these people going to  
16 be able to get this information, the 6 million, whatever  
17 estimated?

18 MR. GRASER: Excellent question. Thanks for  
19 bringing that issue up. That was raised this afternoon as  
20 well, There are a couple of different alternative ways that  
21 information can be gotten. The 10 CFR 2 rule, for example,  
22 requires that the access to the system be provided at both  
23 DOE and NRC's public document rooms. There are public



1 document rooms in headquarters, and in various locations  
2 around the country. There are -- NRC maintains document  
3 rooms in the regional offices. DOE's got a couple of  
4 document rooms out here. So that is one area. In addition,  
5 it raises the point, well if all this material's going to be  
6 electronic, what if I don't use electronic? Right. And the  
7 10 CFR also have provisions in it that indicate that the  
8 availability of the electronic information does not preclude  
9 getting documents in response to the normal FOIA type  
10 request. And FOIA type requests you can specify the media  
11 or format that you want that information delivered on. So  
12 you can pursue it in that regard. The other aspect of it is  
13 that the documents themselves are maintained by the  
14 authoring organizations. And the system does have a  
15 requirement that the participating organizations identify in  
16 the computer record where you can -- who you can contact,  
17 where you can acquire an image version of any of the  
18 documents that are out there in electronic format. So for  
19 example, if it's a Department of Energy document, when you  
20 look at that record in the electronic environment, and you  
21 say, well, I want to have a paper copy of that, and there --  
22 it's a big document, it might be 2,500 pages, and I don't  
23 want to have to go to the public library and pay a dollar a

1 pop to print it out, right? That's where the system will  
2 point you to a point of contact at the Department of Energy  
3 and they will tell you where an image copy of that document  
4 can be acquired.

5           We've also had discussions with the Nevada, or at  
6 least exchanged e-mails with the Nevada State Librarian and  
7 Achieves Association in terms of exploring access to the  
8 system through the State library system. And we've received  
9 indications from them that the computer terminals are  
10 available in all of the local branch libraries scattered  
11 throughout the State. And again it's not the hundred  
12 percent answer. But it is a piece of the capability that is  
13 available.

14           And finally there was a question raised this  
15 morning as to whether or not NRC intends to continue to make  
16 documents available through the public document room in a  
17 paper format. And I took an action item to follow up on  
18 that particular item. That the public document room  
19 operations and the agency's future plans for that are  
20 something that I'm not a hundred percent on top of right  
21 now, so I did take an action item to get back on that one.

22           MR. CAMERON: Good. I think that's a pretty  
23 comprehensive answer to the question. Do we have any other

1 questions for Dan on information management litigation  
2 support? Yes, Sally?

3 MS. DEVLIN: Just -- thank you, Dan. That's very  
4 interesting. I do all this stuff with demographics, and  
5 what did I do? And you realize when the transportation  
6 group from NRC was out here, and we had a major problem, it  
7 was really kind of fun, and that is we're talking distances.  
8 We're talking from here to Tonopah is 200 miles. We're  
9 talking from Tonopah to so on is another 200 miles. We're  
10 talking Eureka. We're talking no population in hundreds of  
11 miles. And the question came up with the transportation,  
12 you have to go to the bathroom, where do you go to the  
13 bathroom? Well, until you hit a town, you go to a brothel or  
14 you go to a casino. Well, it's very much the same thing  
15 with your information highway. We don't have these things.  
16 We don't have the T19's, we don't have the frame relays, we  
17 don't have the fiber optics. We're isolated and there's no  
18 cohesiveness in this State on information. The universities  
19 fight one another. The community colleges fight one  
20 another. We hope to get a community college here, then we  
21 will have a basis. Again, but they have to buy the  
22 information. I can't get through to the NWRBTB or to any of  
23 the agencies, because they won't pay for it. The last --

1 the latest stuff, and I go to the computer all the time, is  
2 1998. Now that's money. And so this is what we're talking  
3 about. Now my feeling is that somewhere along the line  
4 money should be available for these isolated areas on the  
5 communication highway. And I hope you make a note of this,  
6 because we are deprived, denied, and a few other things. So  
7 you're getting the picture, we do not have the technology.  
8 The State's 20 years behind everywhere. And I'm looking at  
9 modern transportation with television, and this, that and  
10 the next thing. We absolutely have today no capabilities  
11 along these line. That's why I love to talk to my friend  
12 there about transportation, because you have 200 miles  
13 between something and there's an accident, what happens? If  
14 they -- and transportation again if they push the button it  
15 goes to the area of origin, it doesn't come here. So we  
16 have a major communication, transportation, everything  
17 problem, and on this licensing, we want to know what DOE is  
18 presenting to you because we are very much up to date on  
19 their science. And my commentary on the environmental  
20 impact statements would be, I feel like if I took the bible  
21 and condensed it into 600 words, I could have done that with  
22 the draft, as well as the EIS, simply because there were  
23 only half a dozen pages there of any value. And the reason

1 is one, there's two repositories, two, the money and no  
2 transportation, no canisterization.

3 MALE VOICE: And Moses kept it on two tablets,  
4 yes.

5 MS. DEVLIN: Exactly. So there's my analogy.  
6 Right.

7 MR. CAMERON: I'm glad you guys are on the same  
8 wavelength. Thanks, Sally.

9 MR. SPITZBERG: The one thing that I just would  
10 like to -- and again this is kind of a side thought on my  
11 part, you know, if you look at the process for a unitary  
12 point of view, and you say, well what can I do as an  
13 individual citizen? And how can I have a direct pipeline,  
14 if you will, into what's happening and what's going on, and  
15 who's using -- who is seeing which documents? You're  
16 shouldering a lot of the burden on your own shoulders. And  
17 one of the things that immediately rushes to my mind is that  
18 there are already recognized constituent organizations, and  
19 it just becomes a matter of affiliations. But at a minimum,  
20 you're a member of the State of Nevada, super group, and  
21 you're a member of a county in the area, so you're a member  
22 of that group. And the State and the county are going to  
23 have web sites and computer access, and they're -- and you

1 may choose not to -- you may -- okay. But -- right -- but  
2 there -- my point being that there will be people in these  
3 constituencies who will be in some fashion more effective or  
4 less effective being able to channel some of the information  
5 back down to their constituent organizations. And you may  
6 choose or not choose to affiliate with them, and rather  
7 choose to focus on a citizen action organization or  
8 coalition. And I think the more of these groups that you  
9 belong to, the better opportunity to have at least somebody  
10 keeping you attuned of what's going on, even if you are not  
11 directly wired. There are going to be people here who will  
12 make it a point to make sure they are wired.

13 MS. DEVLIN: It won't be Pahrump. But we want  
14 communication with Las Vegas. They have the numbers to do  
15 it.

16 MR. SPITZBERG: Right. Well, I think that's a  
17 local issue.

18 MS. DEVLIN: No, it isn't.

19 MR. SPITZBERG: I --

20 MS. DEVLIN: I beg your pardon. It isn't a local  
21 issue. It is an issue of facilitation. It is an --  
22 information highway. We have nothing. And it's going to be  
23 a long time before we do. And unless we have intra

1 communication, north to south, which we also don't have,  
2 that we have a problem. Now, I'm in a group, and we're  
3 going to form a foundation for the community college. We  
4 received 800 pages of the Board of Regents, and we threw out  
5 what we didn't need. And five of us read a hundred pages,  
6 and then reported on it. Now, you're talking 6,000 pages.  
7 So you're talking -- there should be monies, there should be  
8 something to do this. And otherwise, we are as usual  
9 denied.

10 MR. CAMERON: No, I don't --

11 MS. DEVLIN: Everybody that has a brain that can  
12 read here is into something, doing something. So the  
13 demands on individual is very high.

14 MR. CAMERON: I think people agree with you on  
15 that, Sally. I'd just like to thank Dan. Thank you very  
16 much. Now before we take a vote on whether to go into  
17 breakout sessions -- I'm glad you still -- I'm glad you can  
18 laugh at that.

19 MS. DEVLIN: Next time you come to the community  
20 session, where you said we have three rooms.

21 MR. CAMERON: Okay. No, you've made a very good  
22 point, Sally. That was a great point. No, before -- but --  
23 listen, we really do need to close up here. And I just want

1 to thank everyone here for their perseverance and attention.  
2 The NRC staff will be here. Some of you may have more  
3 specific questions. I think we've heard a lot from a lot of  
4 you, and good comments and good questions. Bill, do you  
5 want to say anything finally? Okay.

6 MR. REAMER: Just reiterate what you said.

7 MR. CAMERON: All right. Thank you very much all  
8 of you. And we'll be back out here again on other issues.  
9 So thank you. We're adjourned.

10 MS. TILGES: I just hope you schedule longer than  
11 two and a half hours for a public workshop next time.

12 MR. CAMERON: Yeah. Well, you're right.

13 [Whereupon, the meeting was concluded.]

14

15

16

17

18

19

20

21

22

23