

UNITED STATES  
NUCLEAR WASTE TECHNICAL REVIEW BOARD

WINTER BOARD MEETING

Thursday, February 10, 2005

Caliente Youth Center  
Highway 93, North #4  
Caliente, Nevada 89008

BOARD MEMBERS PRESENT

Dr. Mark Abkowitz, Session Chair  
Dr. William Howard Arnold  
Dr. Daryle Busch  
Dr. David Duquette  
Dr. B. John Garrick, Chair, NWTRB  
Dr. George Hornberger  
Dr. Andrew Kadak  
Dr. Ali Mosleh  
Dr. Henry Petroski

SENIOR PROFESSIONAL STAFF

Dr. Carlos A.W. Di Bella  
Dr. David Diodato  
Dr. Daniel Fehringer  
Dr. Dan Metlay  
Dr. John Pye  
Dr. Leon Reiter

NWTRB STAFF

Dr. William Barnard, Executive Director  
Karyn Severson, Director, External Affairs  
Joyce Dory, Director of Administration  
Linda Coultry, Program Support Specialist  
Alvina Hayes, Office Assistant

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P R O C E E D I N G S

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2

(10:00 a.m.)

3 GARRICK: Good morning. Well, welcome to the second day  
4 of our Winter Board Meeting. My name is John Garrick. I'm  
5 Chairman of the Nuclear Waste Technical Review Board.

6 We have a few reminders that we need to give you.  
7 They were posted on the door as we came in, but I think that  
8 it's important for us to acknowledge them here. Guests are  
9 permitted in the designated meeting room pretty much only.  
10 And, they want us to adhere to these. They discourage us  
11 from wandering around the facility. All guests should remain  
12 on walkway between meeting room and parking lot only.  
13 Smoking is permitted in the parking lot. Place all  
14 cigarettes in an appropriate receptacle. Please, place all  
15 trash also in an appropriate receptacle. There's a rule  
16 about cameras. They want you to not take any photos, to  
17 check in your camera at the admission building. The  
18 restrooms are located out this door and just beyond the  
19 gymnasium to the left and then to the right. I think they'll  
20 appreciate it if we try to follow those simple rules.

21 Before we get started, I want to acknowledge and  
22 thank a couple of people that set up this facility. It's not  
23 easy to get all of the electronics and all of the court  
24 reporting capability that's necessary for these meetings in  
25 place in such a short period of time. So, the advance team

1 of Linda Coultry and Billy Pierce, we want to recognize for  
2 having a lot to do with getting the stage successfully set.

3           Well, this is kind of a 60 year plus homecoming for  
4 me. As many of you know from our meeting in Vegas in  
5 September, I spent some of my early years in this part of the  
6 world. Most of my elementary school years between Panaca,  
7 Pioche, Iron County, the bordering county in Utah, and I  
8 think I've only been back here once in that time and this  
9 holds some important places in my history. The pasture about  
10 five miles from here was where I was first thrown off a  
11 horse. My first moving picture that I ever attended was here  
12 in Caliente in about 1938. My brother was a basketball and  
13 football star at Lincoln County High School in three of the  
14 four years he attended there. I was in the elementary years  
15 or third, fourth, fifth, sixth grade while I was here, mostly  
16 in Panaca, but some of it in Pioche. So, I'm delighted to be  
17 back. This is quite an experience. Sixty years is a long  
18 time.

19           Well, as most of you know, we met yesterday in Las  
20 Vegas to review a number of topics related to the possible  
21 development of a repository at Yucca Mountain. Today's  
22 meeting here in Caliente will focus on planning for a  
23 transportation system to support the Yucca Mountain Project  
24 if it is built. And, in a few moments, I'm going to turn  
25 over the chairmanship to Board Member Mark Abkowitz who will

1 chair the discussion. He is our transportation expert.

2           But, first, I'd like to make a few opening remarks.

3 At the beginning of each Board meeting, it's become our  
4 practice to introduce the Board members. And, although we  
5 did that yesterday, it's been suggested that we repeat it  
6 today because of the many new people in the audience. And  
7 then, after I introduce the Board members, I'll summarize the  
8 agenda.

9           I think it's important also to remind the audience  
10 that the Board members are part-timers. They have other  
11 professional activities that they attend to and I think that  
12 it's very important for those of you who are first exposed to  
13 the Board to understand a little bit of how it works.

14           So, first, with the introductions. In my case, I'm  
15 a consultant in the risk and nuclear safety field. I served  
16 10 years in the U.S. Nuclear Regulatory Commission's Advisory  
17 Committee on Nuclear Waste. And, I was a founder of an  
18 engineering firm that I worked in for many, many years and I  
19 retired from that firm as its president and chief executive  
20 officer and chairman in 1997.

21           I will now go to the other Board members, and as I  
22 mention their name, I would appreciate it if they would raise  
23 their hands. Mark Abkowitz. Mark is Professor of Civil  
24 Engineering and Management Technology at Vanderbilt  
25 University in Nashville, Tennessee. He's Director of the

1 Vanderbilt Center for Environmental Management Sciences.  
2 Mark has served on several national and international  
3 committees including chairman of the National Academy of  
4 Science Transportation Research Board Committee on Hazardous  
5 Materials Transport and as a member of the National Research  
6 Council Committee of Disposal of Transuranic Waste at the  
7 Waste Isolation Pilot Plant in New Mexico. His expertise is  
8 in the area of transportation, civil engineering, and risk.  
9 Dr. Abkowitz chairs the Board's Panel on the Waste Management  
10 System.

11           Howard Arnold. Howard is a consultant with 40  
12 years of experience in the nuclear industry. During that  
13 period, he served in senior management positions including  
14 the vice-president of Westinghouse Hanford Company where he  
15 was responsible for engineering, development, and project  
16 management. Before his retirement in 1996, he was president  
17 of Louisiana Energy Services. This was an industrial  
18 partnership formed to build the first privately owned uranium  
19 enrichment facility in the United States. From 2001 to 2002,  
20 he was chairman of a National Academy Committee that assessed  
21 the scientific basis for disposal of special nuclear  
22 materials.

23           Daryle Busch. Daryle is the Roy A. Rogers  
24 Distinguished Professor of Chemistry at the University of  
25 Kansas in Lawrence. He also is deputy director of the

1 National Science Foundation Engineering and Research Center  
2 at the University having the title of Center for  
3 Environmentally Beneficial Catalysts. His research is  
4 presently focused on homogeneous catalysis, bio-inorganic  
5 chemistry, and orderly molecular entanglements. Daryle is a  
6 recent chair of the Chemistry Section of the American  
7 Association for the Advancement of Science.

8           Thure Cerling, he's not with us today, but is doing  
9 field studies in Africa and, therefore, I can't point him  
10 out. Thure is a Distinguished Professor of Geology and  
11 Geophysics and a Distinguished Professor of Biology at the  
12 University of Utah-Salt Lake City. Dr. Cerling was elected  
13 to membership in the National Academy of Sciences in 2001.  
14 He is a fellow of the American Association for the  
15 Advancement of Science and of the Geological Society of  
16 America. He has been a visiting professor at Scripps  
17 Institute of Oceanography, Yale University, the University of  
18 Lausanne in Switzerland, and the California Institute of  
19 Technology. He is a geochemist with particular expertise in  
20 applying geochemistry to a wide range of geological,  
21 climatological, and anthropological studies.

22           David Duquette. David is Department Head and  
23 Professor of Materials Engineering at Rensselaer Polytech  
24 Institute in Troy, New York. His expertise is in physical,  
25 chemical, and mechanical properties of metals and alloys with

1 special emphasis on environmental interactions. His current  
2 research interests include the physical, chemical, and  
3 mechanical properties of metals and alloys with specific  
4 reference to studies of cyclic deformation behavior as  
5 affected by environment and temperatures, basic corrosion  
6 studies, and stress-corrosion cracking.

7           George Hornberger. George is the Ernest H. Ern  
8 Professor of Environmental Sciences and Associate Dean for  
9 Sciences at the University of Virginia. His research  
10 interests include catchment hydrology, hydrochemistry, and  
11 the transportation of colloids in geological media. He has  
12 served as chair of a number of committees including the  
13 National Research Council's Board on Earth Sciences and  
14 Technology, the Commission on Geosciences, Environment, and  
15 Resources, and the Nuclear Regulatory Commission's Advisory  
16 Committee on nuclear waste. Dr. Hornberger chairs the  
17 Board's Panel on the Natural Systems.

18           Andrew Kadak. Andy is Professor of the Practice in  
19 the Nuclear Engineering Department of the Massachusetts  
20 Institute of Technology. His research interests include the  
21 development of advanced reactors, space nuclear power  
22 systems, improved technology-neutral licensing standards for  
23 advanced reactors, and operations and management issues of  
24 existing nuclear power plants. Andy was president of the  
25 American Nuclear Society for the year 1999 to 2000.

1           Ron Latanision who is not with us today, he had a  
2 calendar conflict and had to leave early. Ron recently  
3 retired from his position as Professor at MIT to pursue a  
4 senior position with an engineering and consulting firm known  
5 as Exponent. Ron retains a position as Emeritus Professor at  
6 MIT. His areas of expertise include materials processing and  
7 corrosion of metals and other materials in different aqueous  
8 environments. He chairs the Board's Panel on the Engineered  
9 System.

10           Ali Mosleh. Ali is Professor and Director of the  
11 Reliability Engineering Program in the Mechanical Engineering  
12 Department at the University of Maryland. He has performed  
13 risk and safety, reliability analyses, and decision analyses  
14 for the nuclear, chemical, and aerospace industries. He  
15 serves as chairman of the Engineering Division of the  
16 International Society of Risk Assessment and Management and  
17 is Director of the X-Ware Systems Reliability Laboratory  
18 focusing on the reliability of integrated hardware-software-  
19 human systems. Dr. Mosleh chairs the Board's Panel on  
20 Repository System Performance and Integration.

21           Henry Petroski. Henry is the Alexander S. Vesic  
22 Professor of Civil Engineering and Professor of History at  
23 Duke University. His current research interests are in the  
24 areas of failure analysis and design theory. Ongoing  
25 projects include the use of case histories to understand the

1 role of human error and failure in engineering design, as  
2 well as models for inventions and evolution in engineering  
3 design. Professor Petroski is the author of several books.  
4 The one I'm most familiar with is To Engineer is Human: The  
5 Role of Failure in Successful Design.

6 Now, at the beginning of the meeting, we usually  
7 read the following statement for the record so that everybody  
8 is clear about the conduct of our meeting, what you're  
9 hearing, and the significance of what you're hearing.

10 Board meetings are spontaneous by design. Those of  
11 you who have attended Board meetings before know that the  
12 Board members speak frankly and openly voice their personal  
13 opinions. But, it's important to stress that when the Board  
14 members speak extemporaneously, they are speaking on their  
15 own behalf and not on behalf of the Board. When a Board  
16 position is articulated, we'll try to make it known. Board  
17 positions are stated in Board letters and reports can be  
18 accessed from the Board's website at [www.nwtrb.gov](http://www.nwtrb.gov).

19 Now, as is our custom, I'll ask all of you to,  
20 please, take a few seconds to confirm that your cell phones  
21 and pagers are switched to the off position or the silent  
22 mode.

23 And, now, I'd like to get into our meeting. One  
24 thing I would like to say in advance, we're very delighted  
25 with the turnout we have here today and we expect to have a

1 very good session with respect to public comment. In order  
2 to note intrude on that which is one of the primary reasons  
3 we're here, we're going to really appeal very strongly to the  
4 presenters to stay within their time limits and to cooperate  
5 with the Board in keeping our schedule because we're going to  
6 try very hard to make sure that the public comment session  
7 starts when it's so stated.

8           Now, I'd like to introduce our first speaker.  
9 Kevin Phillips will be familiar to most of you as the Mayor  
10 of Caliente. We've already compared notes about past  
11 activities here. Mayor Phillips invited the Board to meet  
12 here in Caliente and we wish to thank him for that  
13 invitation. Mayor Phillips and his staff also were  
14 instrumental in obtaining use of this meeting facility and in  
15 completing several of the preparations for this meeting. We  
16 greatly appreciate that. And, we'd like to ask the Mayor to  
17 kick off the meeting with a few opening remarks.

18       MAYOR PHILLIPS: Thank you, Dr. Garrick, members of the  
19 Board. It's a pleasure for me to welcome you to Caliente.  
20 It would be impossible to name all of you, though I know most  
21 of you. I'd like to thank the NWTRB Board for considering  
22 coming here. It's a real opportunity for us to participate  
23 in these meetings and it means a lot to us. You have a  
24 gracious and wonderful staff and we're grateful to them for  
25 doing all the details relative to that.

1           A few acknowledgements and, please, forgive me,  
2 there's no way I can name everybody. We have with us today  
3 our local political leaders. Chairman Tom Row--if you  
4 gentlemen would raise your hand. Chairman Tom Row with the  
5 County Commission. Is Commissioner Hornbach (phonetic) here?  
6 Commissioner Keaton? Councilman Tom Aclin of the City,  
7 Councilman Ashley Moore, we appreciate your coming. It's a  
8 delight to have with us Dr. Margaret Chu, Director of OCWRM,  
9 Mr. Garrish, Mr. Lanthrum, from the Vegas office, Mr. Arthur,  
10 Dr. Dyer, Alan Benson, and all your staff, we're delighted.  
11 We have representatives from NEI, Steve Kraft is with us  
12 today, and many, many others. Forgive me that I've forgotten  
13 a whole host of you, but that's the best we can.

14           I thought in welcoming, we'd give a little  
15 historical welcome, if you will. Caliente began around the  
16 latter part of the 1800s and the community was called  
17 Culverwell because this whole little valley here was nothing,  
18 but a ranch. There were no gullies, no washes, and the  
19 Culverell family was ranching here. That's a picture of the  
20 very first post office that was located here.

21           Next. The name, Calientes, came because of the  
22 warm geothermal waters that exist here. And, taking the  
23 plural form as you see on this saloon, the place was called  
24 Calientes or, as we say it now, Calientes. At some point in  
25 time, the S was dropped.

1           Next slide. The railroad started coming to town.  
2 This is the old-fashioned way to build a railroad with horses  
3 four abreast and Fresno scrapers.

4           Next. Then came the train. This community really  
5 received birth, if you will, because it's been a railroad  
6 town forevermore.

7           Next. This is a picture of the old roundhouse that  
8 was here. And, to give you some orientation, we're sitting  
9 in approximately this location right here in this facility.  
10 But, this was a roundhouse with a platen. In the days of the  
11 steam engine, trains would come from the south to here, but  
12 in order to have sufficient energy to get over the lip of the  
13 Great Basin at Crestline, helper engines would hook on here  
14 and push the train over the hill on its way to Salt Lake City  
15 and come back and turn around and so this was a major  
16 switching point. Train crews changed here and some of those  
17 things.

18           Next. The community was laid out by and for the  
19 railroad, as you know, and it's interesting that this layout  
20 still exists today. This is coming down the canyon right  
21 here from Utah. All things for the Union Pacific go east and  
22 west, they don't go north and south. So, this is east coming  
23 into the town and we would be about right in this location  
24 right here. This is the Y that heads up the old Pioche  
25 Branch Line up to the mines at Castleton and Pioche. The

1 company used to come down in here. These are a number of  
2 tracks that existed in the roadway and then this heads south  
3 towards Las Vegas and Los Angeles.

4           Next. Just to show then what was built, looking  
5 from right out here, this is the Y coming out of the Pioche  
6 Branch Line into the community rail yard. This would be  
7 where it went past the stockyards and back up the canyon  
8 towards the east with the roundhouse and those facilities  
9 here. Notice this whole row of houses built by the railroad.  
10 We refer to that as Company Row, railroad housing. They  
11 still exist. They've been remodeled and redone, but that was  
12 the original Company Row. And, the depot, as you see it  
13 today, is sitting over in this location.

14           Next. We've always been a railroad town, lots of  
15 trackage. Eleven tracks as I remember as a kid and lots of  
16 crews, a lot of work being done by hand.

17           Next. The old crossing, this was the Smith Hotel.  
18 This is a wonderful nostalgic view of the old cars and  
19 things. I just want to show you that we've been a railroad  
20 town forever. We understand railroad things and that's our  
21 past and hopefully our present and our future.

22           Next. This just shows the same thing in a little  
23 bit different modern era now. This is the branch that goes  
24 up to the Pioche mines. This bridge is still existent, and  
25 right out here, this is the highway bridge that you will see.

1           Next. This was just a great shot in the heyday of  
2 the steam engines, locomotives, the old depot, the shade  
3 trees. Dr. Garrick, you probably remember all the trees that  
4 used to exist down there at the depot and we'd go there, it  
5 would be a delight, and I remember gathering earthworms there  
6 to go fishing with on the grass that was there.

7           Next slide, please. This slide to me--it's the  
8 last one of my opening remark--sort of epitomizes why and  
9 where we are at today. This is the 4th of July. Caliente  
10 has always been a railroad town. We remain that today. We  
11 understand railroads. To us, it's fitting that perhaps the  
12 branch line heading out here is constructed and comes off of  
13 this point. We're glad about that. We appreciate that. We  
14 look forward to the economic opportunities that come because  
15 of that. When I was a boy being raised in Panaca, we had a  
16 farm that was right by the old Pioche Branch Line and you  
17 could set your clocks to the whistles that those trains would  
18 blow as they crossed the siding at the Y service. They'd  
19 come in the morning and that train would be heading to the  
20 mines with empty ore cars and you'd hear a whistle all over  
21 the valley and you knew it was going to pick up ore. Later  
22 on that afternoon about 4:00, it would whistle again and the  
23 ore cars were full and it was coming down to Caliente to ship  
24 them. That activity represented almost 100 percent of the  
25 economy of Lincoln County. Either our dads were either

1 working in the mines or working for the railroad. Obviously,  
2 there was some in agriculture, but that's what that train  
3 moving up and down really represented. And, the train is  
4 gone and we're desirous of the train moving again and the  
5 economy associated with that picking up steam, so to speak,  
6 one more time. So, we're a railroad town and we're patriotic  
7 and we always have been and we pride ourselves in that  
8 notion.

9           My role in the history of this program very  
10 briefly, I became Mayor 12 years ago and began studying this  
11 issue. It was a non-issue to me before that time. Now, I  
12 could see that there was some big questions to be had and so  
13 I searched. I listened to everybody. I listened to the  
14 State of Nevada, the Department of Energy. I went and  
15 learned and listened and formulated my own opinions. Based  
16 on our experience here, it's noteworthy to note that in our  
17 little community of Caliente we have 65 shipments per day of  
18 hazardous constituents of all kinds, many of which are much  
19 worse than the movement of spent nuclear fuel in terms of the  
20 possibility of risk and damage to life. So, we're used to  
21 that. We consider with the coming of this effort and the  
22 safety measures that come in risk management to accompany it,  
23 we actually envision that risks to our existing situation now  
24 are lessened by mitigating emergency response capabilities  
25 and those kinds of things. So, our approach has always been

1 positive relative to this.

2           We think this can be managed well and safely and  
3 look forward to participating in that opportunity. We're  
4 thankful that the route has been selected. We want to work  
5 constructively to make sure that some of the remaining  
6 questions are answered positively for our people. We're  
7 doing a lot of work to make sure we understand how they think  
8 and feel and how we can mitigate and ameliorate the impacts.  
9 We intend on maximizing the positive impacts and minimizing  
10 what negative impacts are due to this national effort.

11           The Department is working extremely hard to be  
12 cooperative and we're grateful for that. We're upbeat and  
13 positive about the current budget and the one that's proposed  
14 and look forward to putting transportation infrastructure in  
15 the ground, Mr. Lanthrum.

16           So, we thank you for coming. It's a delight to  
17 have you, we're honored to have you. I have a lot of  
18 confidence in gray-haired scientists such as Dr. Garrick and  
19 yourself. I'm glad that you gentlemen are advising the  
20 Department. And, it's particularly warming to us to know  
21 that the Chairman here has a real history in Lincoln County  
22 and with his credentials that are demonstrative of your  
23 credentials, I'm sure that this program will be guided well.

24           Thank you and welcome.

25           GARRICK: Thank you, Mayor. And, thank you for

1 acknowledging that I have hair.

2 I'd like to now turn over the chairmanship of the  
3 meeting to the Board's expert on transportation, Dr. Mark  
4 Abkowitz.

5 ABKOWITZ: Thank you, John, and thank you, Mayor  
6 Phillips. That was a much more interesting presentation than  
7 what might be following. I'd like to talk to that horse,  
8 John, if he's still around.

9 I want to thank the folks of Caliente for hosting  
10 our visit. This Board prides itself in getting out into the  
11 community and getting an opportunity to hear from the  
12 citizens that are impacted in one way or another by the  
13 repository program including the transportation system. I  
14 hope that the fact that we're here is an indication of how  
15 serious we are in terms of learning from you and hearing your  
16 opinion and I encourage any of you that want to share that  
17 opinion to participate in the public comment period.

18 As Chairman Garrick mentioned, today's meeting will  
19 focus on planning for a transportation system to support a  
20 potential Yucca Mountain Repository. The way the program is  
21 set up today, the morning will be devoted to two  
22 presentations made by the Department of Energy. The first  
23 one will be on planning for the national transportation  
24 program that would move radioactive materials to Nevada  
25 followed by a presentation on planning for the rail branch

1 line that would be used to move those materials to the Yucca  
2 Mountain site. That will bring us up to lunch. So, if we're  
3 late for lunch, you know who to blame.

4           Following lunch, we have invited the State of  
5 Nevada, the counties in which the proposed rail line would be  
6 located, and a representative of the Western Shoshone Nation  
7 to present their views on the development of the branch line.

8           As I mentioned a moment ago, at the conclusion of  
9 that part of the formal presentation process, we've reserved  
10 time to hear from members of the audience about any concerns  
11 that they may have both regarding the transportation program  
12 and the branch line, as well as any other subject that they  
13 may wish to bring to the attention of the Board. We have two  
14 very able folks with the Board, Alvina and Linda, sitting  
15 over here to my right. If you wish to participate in the  
16 public comment period, they have a signup sheet and at any  
17 time during the day just go on over there and sign up and  
18 we'll take you in the order in which you have put your name  
19 down.

20           At this point, I'd like to introduce Gary Lanthrum  
21 as our speaker for this morning. As I mentioned a moment  
22 ago, DOE has two presentations to give and Gary will actually  
23 be performing double duty. The first one that we'll hear  
24 about will be on the development of the national  
25 transportation system for moving spent nuclear fuel and other

1 materials to Nevada. Following that presentation, we'll go  
2 through the normal question and answer period that involves  
3 Board members and Board staff. Gary will then move into his  
4 second presentation which will be the plans for developing  
5 the rail branch line from Caliente to Yucca Mountain.

6           In terms of Gary's background and experience, as  
7 most of you know, he's currently the Director of the Office  
8 of National Transportation Program for DOE. Having formerly  
9 served as the Director of the Environmental Management or EM  
10 National Transportation Program based in Albuquerque. In  
11 this capacity, Gary was responsible for managing EM's field  
12 transportation programs. These included nuclear materials  
13 packaging, research, shipping, and certification, operation  
14 of the TRANSCOM system for WIPP shipping, managing the  
15 Automated Transportation Management System for tracking all  
16 of DOE's nuclear and non-nuclear shipments, and running EM's  
17 National Transportation stakeholder outreach program.

18           At this point, I'd like to ask Gary to come on up  
19 and do his thing.

20           LANTHRUM: Thank you, Dr. Abkowitz and Dr. Garrick and  
21 members of the Board, members of the public, and everybody  
22 else that came out to participate here.

23           As Dr. Abkowitz indicated, prior to coming to  
24 Washington, D.C. and serving in my capacity with the Office  
25 of Radioactive Waste Management, I spent the previous decade

1 in Albuquerque and working in transportation issues. And so,  
2 it was a particular pleasure for me to make the drive from  
3 Las Vegas up to here because in Washington, D.C., you never  
4 have the luxury of seeing a broad horizon like you do out  
5 here in the desert. And, in fact, in my more distant past, I  
6 spent a lot of time crossing big oceans in small boats. I  
7 did a passage from down around the northern part of Baja to  
8 Hawaii single-handed and then came from Hawaii back single-  
9 handed on a 31-foot sailboat and you get the same perspective  
10 on a small boat in a big ocean that you do driving across the  
11 desert. There's pretty much an unlimited horizon that's  
12 usually out in front of you. You are constrained to a tunnel  
13 vision that's bounded by trees.

14           As I was driving up here and enjoying the return to  
15 this broader view of the landscape, it reminded me that  
16 that's really the goal that we have in transportation  
17 planning is to take a very broad view of how we roll out the  
18 transportation infrastructure. One of the purposes of having  
19 the meetings yesterday and again today was to talk about  
20 integration issues and so I'll try and fold in how each piece  
21 of the transportation planning is being connected to other  
22 parts of RW planning process and to the bigger picture of  
23 transportation.

24           I've got a little bit of an apology to make. I am  
25 one of those technology geeks that likes to push my own

1 buttons on Power Point presentation and so the presentation  
2 is animated with bullets coming in and I'll just tell you  
3 just to spin through them and get the whole slide up, if we  
4 can.

5           I'm ready for the next slide. This is an eye chart  
6 and I think there are handouts available. I'm not putting  
7 this up to talk in any detail, but in the last TRB meeting I  
8 was asked to address how the individual elements of  
9 transportation planning are connected to each other. I'm not  
10 going to go through this in any great detail, but since this  
11 is an update from the last presentation we did--I believe it  
12 was in October in Salt Lake City--there are a couple of lines  
13 here.

14           The top line is what we're doing in the arena of  
15 acquiring casks to safely transport the spent nuclear fuel  
16 and high-level waste. The second line is what we're doing to  
17 acquire rolling stock, the rail cars, the specialty rail  
18 cars, and to the extent that we would have some truck  
19 shipments with trailers for truck shipments. The third line  
20 is on support facilities for transportation which Mayor Kevin  
21 pointed out he's anxious to see some work being done on. The  
22 next line is on the actual construction of a rail line, a  
23 line for institutional activities, a line for our operational  
24 planning, and finally a line for management decision making.  
25 And, I only put this up because the rest of the slides

1 follow this format and I'll be doing an update in each one of  
2 the areas and talking about the integration of each as we go  
3 through.

4           Next slide. There are some challenges this year.  
5 This is a plot and again it's the kind of thing that people  
6 in my line of business do a lot. We take data and analyze it  
7 and our life is built around graphs a lot of the time. This  
8 shows where the funding was for transportation in the late  
9 '90s and early 2000s. Actually, it a little bit worse than  
10 it looks here because the funding at the \$2 million level and  
11 the \$3 million level is not exclusively for transportation  
12 planning. It was a combined transportation and waste  
13 acceptance planning. So, the piece of that that was  
14 available for transportation planning was essentially  
15 negligible.

16           In late 2003, when I came on board into this  
17 office, the funding had increased a little bit. We were able  
18 to do more direct planning. We got a significant increase  
19 last year and actually accomplished quite a bit in moving the  
20 planning process forward last year. The anticipated funding  
21 for this year if the program had gotten all the funding it  
22 requested was that transportation would have had \$187 million  
23 to begin serious acquisitions of some hard assets. The  
24 program as a whole did not get the funding it was requesting  
25 and so the transportation piece this year now is \$25 million

1 in new fiscal year '05 funding. We knew there was going to  
2 be a problem towards the end of 2004. We scaled way back on  
3 the activities that we were pursuing in our spend rate and so  
4 we provided as much carryover between 2004 and 2005 as we  
5 could without jeopardizing the key activities that we hoped  
6 to complete in 2004. As a result, we have adequate funding  
7 in 2005 with the new year money and the carryover money to do  
8 the things that are necessary to keep the transportation  
9 system moving forward.

10           Next slide. And, I think you can hit the button  
11 down five times to get all the bullets. Great. The funding  
12 process in the Federal Government you never really know what  
13 you're going to get until you have it. So, we always  
14 maintain a running list of what are priorities are so when  
15 there are changes in funding which can happen both before the  
16 start of the year and during the year we know what we want to  
17 focus on. The number one priority for transportation  
18 planning in 2005 is to complete the Environmental Impact  
19 Statement that we're conducting where to possibly locate the  
20 track within the Caliente corridor. That's our number one  
21 priority is support of the rail alignment EIS.

22           Secondly, I realize again based on that broad view  
23 of our transportation planning that we can't do this alone.  
24 So, the second priority in transportation effort is our  
25 outreach process working with States, working with the

1 Tribes--there's lands we could have a potential of crossing  
2 as routing determinations are made--and working with the  
3 locals along the transportation corridor here to make sure  
4 that as many of the issues that we can flush out as early as  
5 possible are addressed and included in our long-range  
6 planning activities.

7           Third is to move forward with acquisitions to the  
8 extent that we can and conceptual design space. With the  
9 funding we have this year, we're not going to be buying any  
10 hardware, but we can do an awful lot in terms of conceptual  
11 designs so that when the money comes for fabrication of casks  
12 or for actual construction of rail cars, we'll have a very  
13 good idea of what those casks and rail cars should look like.

14           The thing on facility work, again focusing on  
15 conceptual design, unfortunately, Mayor Kevin, construction  
16 isn't in the cards right away, but we are at least moving the  
17 process forward looking at conceptual designs. And then,  
18 through all the activities that we end up conducting, we're  
19 making sure that the right project management tools are in  
20 place so we track the funds and make sure that we're getting  
21 good value for the money that is spent.

22           Next slide. I think you can run down six times.  
23 On casks, at the last meeting, I had indicated that the  
24 transportation office had gone out with a procurement of cask  
25 capability reports from the vendors. We invited all of the

1 cask vendors that had a certified Type B package from the  
2 Nuclear Regulatory Commission to provide input about the  
3 extent to which they have designs that could ship spent  
4 nuclear fuel and high-level waste currently, the extent to  
5 which those designs could take more content without changing  
6 the hardware just by changing the license they have with the  
7 Nuclear Regulatory Commission, and then to also propose what  
8 they could do in addition with new designs, how they might  
9 address the gap between their current capability and what we  
10 know is going to be available to ship when the repository  
11 opens. We got the reports back and they were very  
12 encouraging. They indicated that existing hardware and  
13 existing certificates, if you mix and match from the variety  
14 of vendors out there, could cover about 60 plus percent of  
15 what we needed to ship. Unfortunately, when we looked at the  
16 vendor side, we also did data collection with the actual  
17 shippers, the utilities, we asked them to fill out some  
18 facility updated sheets on what are their crane capacities,  
19 how much lead-on space do they have, what are the ingress  
20 and egress routes look like to the utility, how can we get  
21 the transportation network, whether it's trains or trucks,  
22 into their sites, how much space do they have in their spent  
23 fuel pools for actually putting a cask in the pool and  
24 loading it, and when we looked at the constraints on the  
25 facilities, that reduced the applicability of existing cask

1 designs. So, even though the hardware might have supported  
2 moving material out of the utility sites, the utilities  
3 themselves couldn't in all cases handle the hardware. And  
4 so, although we were encouraged from the initial cask vendor  
5 reports that we would be able to bound our shipments with  
6 existing designs, looking at limitations on the utility side,  
7 it's very likely that we're going to have to design some  
8 smaller casks to accommodate limitations at the utilities.

9           We're also doing a fair amount of work on  
10 integration between transportation and the shippers and the  
11 receiver and we'll talk a little bit more about that  
12 specifically as I go through the slides, but I know that's an  
13 area that was talked about yesterday. As Chris Kouts  
14 presented, we have what is called a total system model that  
15 helps look at the waste acceptance agreements and the  
16 contractual space with the utilities is about what they  
17 expect to ship and what the Department's accommodation of  
18 those expectations is, how that work load is translated into  
19 the transportation infrastructure, and then making sure the  
20 transportation infrastructure mates very well with the  
21 receipt capability at the Yucca Mountain Repository.

22           We're also having ongoing meetings with the Nuclear  
23 Regulatory Commission. Under the Nuclear Waste Policy Act,  
24 all of the casks that we use to move spent fuel and high-  
25 level waste have to be certified by the NRC and we meet

1 regularly with the Spent Fuel Project Office at the NRC to  
2 make sure they understand where we are in our cask  
3 acquisition so that when we actually start proceeding with  
4 certificate requirements for them, they'll have the right  
5 manning in place to be able to deal with them.

6           Next slide. On rail cars, we've gone through a  
7 similar process with the rail car acquisition that we went  
8 through with the cask acquisition. Rather than just sitting  
9 behind closed doors and assuming that we knew how the world  
10 worked, we invited the rail car vendors in to talk to us. We  
11 explained that we're going to need rail cars that meet a new  
12 Association of American Railroad standard that they've  
13 established for mechanical performance for cars to move these  
14 contents, explained what our general idea was about moving  
15 forward, and asked for their feedback. There are three types  
16 of rail cars we have to procure. We have to buy a car that  
17 actually holds the spent fuel and high-level waste. We have  
18 to procure an escort car because all of our shipments will  
19 have armed escorts with them as part of the NRC requirement.  
20 And, we're also going to have a buffer car that provides  
21 some space between the load-bearing car and the escort car,  
22 in between the load-bearing car and the tractor engines that  
23 are pulling these trains.

24           Since the escort car has got people in it, the rail  
25 car designs for passenger cars are very different than the

1 rail car designs or freight cars. The buffer car and the  
2 load-bearing car are, we thought, more aligned with what the  
3 freight companies would like to deal with; whereas, the  
4 escort car, we thought, would be something that the passenger  
5 car designers would be more comfortable in dealing with. And  
6 so, we invited people from both parts of the rail industry to  
7 come and talk to us.

8           In the discussions, since the new standard, the  
9 American Association--the AAR Standard 2043 for the  
10 requirements for rail cars to move these contents required  
11 dynamic testing and they don't require just dynamic testing  
12 of each car that's designed, but they require dynamic testing  
13 of the consist and the consist is the whole train. So, when  
14 we get a train that is approved by the AAR for these  
15 shipments, that approval will have to have been of a train  
16 that has the buffer car, the escort car, and the load-bearing  
17 car all in dynamic testing at the same time. Based on that  
18 requirement, the industry said, you know, you really  
19 shouldn't go out for a separate procurement for the escort  
20 car and another procurement for the load-bearing car and the  
21 buffer cars, you ought to have one vendor manage the  
22 procurement of the consist, the whole train, and then they  
23 will buy the expertise they need. If it's a freight company  
24 that gets the overall contract, they would bring in the  
25 expertise from the passenger train side to make sure that the

1 consist works, but you don't want to separate it because you  
2 want the consist to work well during the dynamic testing.  
3 So, we got a lot of good feedback. We're hopeful that we'll  
4 be able to pursue a conceptual design contest among the  
5 vendors for how they would proceed with the detailed design  
6 of the consist. And, again, that's just a paperwork  
7 exercise. It's less expensive than actually buying the  
8 hardware or paying for testing. But, that's a step that we  
9 hope to take this year.

10           Next slide. On the facilities update,  
11 unfortunately, we've had to defer the transportation facility  
12 work in total this year again because of funding constraints.  
13 What we are doing is looking at ways that we can make sure  
14 the transportation system is able to be employed as soon as  
15 the repository opens even if we have constraints on our  
16 ability to build facilities.

17           A couple of the main facilities that we're looking  
18 at is we need a fleet management facility and that's a place  
19 where these large casks that are used to move the spent fuel  
20 and high-level waste are maintained and serviced to keep  
21 their certificates of compliance up to speed with the Nuclear  
22 Regulatory Commission requirements. We'd also do some very  
23 light maintenance on the rail cars at that facility. If, in  
24 fact, we can't have a facility designed and in place when  
25 repository starts operation, that is a service that we can

1 procure from the private sector. There are casks of this  
2 type that are being used currently. They are being  
3 maintained currently. And, all of that can be done through  
4 the private sector through a service purchase rather than  
5 building a facility. So, during this year, we are looking at  
6 options for buying services during initial years of operation  
7 if we can't buy the facilities that we'd like to have in  
8 place in the long-term. That's simplified somewhat by the  
9 basic approach to developing the repository. It's  
10 anticipated that the initial years of operation would go  
11 through a gradual ramp-up, that you wouldn't try and operate  
12 the facility at max capacity in Year 1. So, buying services  
13 to maintain the casks in Year 1 when there would be a smaller  
14 throughput would be much easier than trying to buy that  
15 service when we're at the maximum throughput of 3,000 metric  
16 tons a year that we're targeting currently.

17           Next slide. On the institutional front, we've got  
18 a significant focus with the States. There are four State  
19 Regional Groups. You really can't do transportation  
20 planning. Again, getting back to that idea of having a broad  
21 view of the horizon and the landscape that you're working  
22 within, you can't do transportation planning on an individual  
23 state by state basis because the transit has to connect from  
24 state to state. So, the egress from one state have to  
25 connect with the ingress to the next state. And, it's

1 fortunate that the states already join together for a lot of  
2 their cross-state energy planning and other transportation  
3 planning activities independent of what the Office of  
4 Radioactive Waste Management needs to do. They've joined  
5 into regional planning groups that deal with a variety of  
6 issues that the states have across their boundaries.

7           In working within those groups, we have four of  
8 them. They are the Southern States Energy Board, we have a  
9 Midwest and a Northeast Council of the Conference of State  
10 Governments, and we've got the Western Interstate Energy  
11 Board, and each of them have representatives from their  
12 individual states. We have individual meetings with the  
13 regional groups and twice a year we have a meeting where all  
14 of the regional groups and industry come together. We're  
15 continuing with the planning of those groups and it's good to  
16 have both the large group where all of the State Regional  
17 Groups come together for the broader planning of issues like  
18 we have a responsibility for providing funding for emergency  
19 preparedness training and for some technical assistance.

20           What's an equitable way of distributing those  
21 funds? It's not a question that we can answer on our own.  
22 Back in 1998 when a draft policy approach for distributing  
23 those funds was published, the approach back then was on  
24 "needs based" distribution of the funds. But, it's really  
25 hard to come up with a uniform description of need so that

1 there would be equity in the distribution because one state  
2 may define its needs very differently than another state.  
3 What we're working on now with the states themselves are  
4 these Regional Groups and through the Transportation External  
5 Coordinator's Working Group is an approach that's based on a  
6 formula that includes a lot of the criteria that would affect  
7 needs, but it makes it much more uniform in its application  
8 across the states. So, we're very encouraged that the work  
9 that's continuing on the criteria for route selection and for  
10 implementing is one of the funding responsibilities that's  
11 being done collaboratively with the States and with the  
12 Tribes.

13           I'll mention a little bit about the Transportation  
14 External Coordinating Working Group. We've been adding  
15 additional members to some of the topical groups that are  
16 addressing these issues. We have a topical group that was  
17 added about a year ago on security because that was one of  
18 the issues that our stakeholders-at-large had expressed a  
19 significant amount of concern about. We've got additional  
20 members that have been added to that. That group is moving  
21 forward. As I indicated, these TEC meetings take place twice  
22 a year, but there are conference calls with the members of  
23 these topical groups in between. And, what we've pushed for  
24 is to try and get a more projectized approach where there's a  
25 defined scope of work that these topical groups will be

1 focusing on and that they accomplish a significant amount of  
2 work on these topical issues between the TEC meetings. Then,  
3 the meetings are used to present results of those studies and  
4 those discussions for the membership-at-large and have a  
5 broader discussion moving us towards final decisions that the  
6 Department has to make. And, I'm encouraged that we're  
7 getting very good participation, lots of good feedback both  
8 through the State Regional Groups and through TEC.

9           One of the other things that we've done on the  
10 issue of routing which is also a considerable concern both  
11 nationally and in the State of Nevada is there are a number  
12 of planning tools available out there that are good for doing  
13 transportation planning and looking at the risks associated  
14 with transportation. Two of the tools that the Department  
15 has used for quite a while are called RADTRAN which is a  
16 radiological risk assessment model tool and TRAGIS which is a  
17 geographic information system that looks at routing issues in  
18 a more spacial arena. Working with the two tools together,  
19 you can do route selection based on criteria that you input  
20 into TRAGIS and then RADTRAN can give you the radiological  
21 risk assessment associated with using those routes. The  
22 tools can be complicated and so we invited representatives  
23 from the State Regional Groups to come to a meeting that we  
24 held down in Oak Ridge where the tools are maintained to give  
25 them a training session, let them ask questions, and we're

1 going to continue to provide support for their application of  
2 the tools in their own planning so that they can participate  
3 productively in these topical groups we have through TEC.

4           Next slide, please. As the transportation system's  
5 path forward evolves and as decisions get made by the  
6 Department, some of the old transportation materials have  
7 been passed out. We had a transportation manual that  
8 described how transportation works in general terms and a few  
9 specifics about the transportation of our materials in  
10 specific. Those materials are being updated. We're working  
11 very closely with John Arthur's folks out here at the Office  
12 of Repository Development because the transportation system  
13 again affects all aspects of OCRWM. We're hopeful to have a  
14 new transportation manual that provides a broader overview of  
15 these things out sometime this year. We've made a lot of  
16 progress on updating the material. The challenge is each  
17 time you're about ready to print something you're always on  
18 the cusp of having something new to add. It's a balance of  
19 when you have enough information to go ahead and push a new  
20 document out the door even though you know that the program  
21 is in constant flux and you're always adding new information  
22 and new background that could be helpful in the future.  
23 We're also trying to update the transportation web page on  
24 the OCRWM website that provides more of those interim updates  
25 in between the formal updates for our transportation

1 brochures.

2           The other thing that we're working on again with  
3 our broader stakeholders is the Department of Energy has what  
4 it calls transportation protocols. It's more of the  
5 implementation requirements and expectations for  
6 transportation at a fairly high level. Those protocols are  
7 going to need a lot of work to be applicable to the OCWRM  
8 shipments. Right now, they don't cover rail shipments and so  
9 we're starting to engage in the planning necessary to update  
10 the protocols so that we do have a full suite of applicable  
11 and accurate protocols in place by the time we start our  
12 shipments.

13           Next slide. On the topic of security and  
14 operations, we've got a number of things going on with the  
15 Office of Security in a collaborative effort within DOE. One  
16 of the things is launching a classification guide. And, it's  
17 interesting, you would think that that would be a fairly  
18 straightforward matter, but the number of different agencies  
19 involved in classifying transportation data frequently have a  
20 different view of what the classification level of detailed  
21 information ought to be. So, we're working very closely on a  
22 multi-agency approach to making sure that we have a  
23 classification guide for our transportation activities that  
24 all the affected agencies can agree with and we're making  
25 progress on that front.

1           I think I mentioned once before that the Secretary  
2 last summer, I believe it was, down in Oak Ridge made a  
3 presentation on a security for the 21st century initiative  
4 that the Department was pursuing. The responsibility for  
5 that activity lies in the Office of Security & Safety  
6 Assurance within the Department. There are a number of  
7 elements. One of the elements was physical security, one was  
8 cyber security which is largely information exchange, there  
9 were a number of other areas, but there was a technical  
10 piece, and I've forgotten the fourth piece off the top of my  
11 head. It's important though that there is a different group  
12 within DOE that has the overall responsibility for developing  
13 security approaches and we're working with them particularly  
14 on the technical security side if there are technologies that  
15 could be developed in the broader sense of DOE's efforts in  
16 that area that could be applied to our shipments. We are  
17 working with the right people to make sure that we  
18 incorporate that technology and those ideas and those  
19 technologies when we actually start shipping in the future.

20           We're continuing to look at threat analyses. The  
21 Board had talked to us previously about the difference  
22 between a design basis threat approach and a full spectrum  
23 approach that combined both accident and other threat  
24 analyses into a combined hazards approach and we've taken  
25 that to heart. What we're looking at now is a full spectrum

1 of threat risks, and rather than focusing specifically on a  
2 design basis threat that all of our efforts are focused on,  
3 we're looking at the range of threats that could be presented  
4 in making sure that we have an appropriate response for each  
5 of the threats that the Department is looking at through its  
6 security apparatus.

7           And, last on here, I have the indication that we're  
8 continuing to look at the other aspects of physical  
9 information security and that will be reflected in ongoing  
10 documents that the Department makes available. There will be  
11 ongoing discussions about how much the detailed routing will  
12 be discussed and I think one of the things that's been talked  
13 about in the topical group on routing is the idea of  
14 selecting a suite of acceptable routes that could be used,  
15 but not talking about the exact route that would be used in a  
16 particular shipment except with the people that we have to  
17 notify in the states.

18           Next slide. Also, on the operations and securities  
19 side, burn-up credit is a complicated area, but basically  
20 when you have spent nuclear fuel, the process of fissioning  
21 this fuel on the reactor, you're actually splitting atoms and  
22 making different items in the fuel, different constituent  
23 materials from what were there originally. Some of those  
24 materials you get through the fission process actually help  
25 you conceivably in precluding a criticality challenge for the

1 materials. Presently, we can't take credit for any of the  
2 beneficial materials that exist. They call them poisons in  
3 the burned up fuel because we don't have a good correlation  
4 between analytical data and actual benchmark data from actual  
5 spent fuel assemblies. The French had an awful lot of data  
6 and, in fact, they used burn-up credit in their  
7 transportation activities and it lets them get more content  
8 in a package and still show that they've got the safety  
9 margins that are necessary. We've been working very closely  
10 with the Nuclear Regulatory Commission and EPRI to buy the  
11 French data. OCRWM has actually purchased the raw data, the  
12 NRC is contributing to the funding for analyzing the data,  
13 and we're hopeful that that analysis can be passed on to the  
14 vendors in adequate time so when they got for their  
15 certificate of compliance for the packages that we'll be  
16 using, they'll be able to take burn-up credit to the extent  
17 practicable and that will help in the efficiency of the  
18 overall transportation system. Again, that's a long-term  
19 project that we're doing. It's a transportation R&D effort  
20 that we're hoping will bear some significant fruit in our  
21 ability to maximize the capacity of the packages that we use,  
22 rather than have to derate the package for some high burn-up  
23 fuels.

24           We're also looking at optimization of shipments. I  
25 talked a little bit yesterday to the Board so this is not

1 news to them, but not all the audience was at the meetings  
2 yesterday. It's fairly straightforward to look at  
3 transportation where you've got a network of shippers and  
4 receivers. And, in this case, we've only got one receiver,  
5 but we've got a network of shippers. What is the best way to  
6 take limited resources, move them out to your shipper sites,  
7 and then move them back to the receiver's side again so that  
8 you get the most material moved with the least number of  
9 shipments? If that's your only constraint, that's a fairly  
10 straightforward problem. And, linear algebra and other tools  
11 can do a very good job of optimizing that network.  
12 Unfortunately, transportation is not in the driver's seat for  
13 saying how all that's going to be done. The utilities have  
14 to agree about what they want shipped. They have a fairly  
15 significant say about what gets shipped when under the  
16 Nuclear Waste Policy Act. The repository may, in fact, have  
17 its own constraints about what it can receive when. There's  
18 a dynamic that involves a lot more than just transportation  
19 planning.

20           Yesterday, one of the things that was discussed in  
21 fairly extensive detail was a total system model that looks  
22 at the big picture. I'm doing optimization modeling from the  
23 transportation perspective as if I were in the driver's seat.  
24 The output from that modeling effort that says what the most  
25 efficient approach would be purely from a transportation

1 perspective is a feed to the total system model to see how  
2 what I would like to do works in the larger picture. And,  
3 Chris Kouts, the gentleman that's responsible for the total  
4 system modeling, talked a bit yesterday about how that model  
5 works. So, there is a process for me looking at what would  
6 be ideal from the transportation perspective and then taking  
7 that view into the larger picture, again that broader horizon  
8 and making sure that it is tied into an overall systems  
9 approach and what will work for this system. I have no  
10 illusions about the purely transportation perspective being  
11 what winds up controlling the day, but at least there's an  
12 interaction where I can say what would be ideal for a  
13 transportation perspective. I get feedback from the total  
14 system model about constraints that are placed either because  
15 of repository limitations or because of constraints in the  
16 contract space with the utilities. And, what will come out  
17 of it is a systems approach that optimizes to the extent that  
18 the system is amenable to that.

19           We're also continuing to collaborate with our  
20 international partners on transportation sabotage testing.  
21 There is a significant effort that we're involved in in  
22 working with the U.S. with the NRC and internationally with  
23 the French, the Germans, and the British on what would the  
24 consequences be of a terrorist attack on a cask with spent  
25 fuel? There's a lot of speculation about what various weapon

1 systems could do. What we have proposed is a series of  
2 tests. Again, the conduct of the tests and the specific  
3 results will be classified, but the output of that is going  
4 to be a significant input to our information on how we  
5 position ourselves to mitigate those risks through our  
6 transportation planning.

7           The last thing I have on this slide is looking at  
8 the federal agency regulations as they evolve to make sure  
9 that the transportation is set up to acquire best practices  
10 within the envelope of regulations that we're required to  
11 comply with. And, interestingly enough, there is an effort  
12 looking at best practices in transportation the General  
13 Services Administration started a couple of months ago. I'm  
14 participating in that working group with the Department of  
15 State and with the Department of Defense, with Department of  
16 Transportation, again with GSA, and a number of other federal  
17 agencies looking at overarching transportation issues that  
18 may--there may be a more uniform approach that the Federal  
19 Government as a whole could take that would be beneficial  
20 overall.

21           Next slide. I'm not going to spend a lot of time  
22 on this slide because I get to do this in detail in the next  
23 presentation, but where we are with Nevada Rail in general  
24 terms is that our Alignment EIS, the Environmental Impact  
25 Statement, was started and we made the announcement in the

1 intent to start an EIS last April, April 8th I believe it  
2 was, 2004. We held scoping meetings and we started work on  
3 the EIS in earnest in about parallel with the scoping  
4 meetings that we had with--there were five scoping meetings  
5 held in Nevada. Originally, we had planned to hold three,  
6 one in each of the counties along the corridor, and then we  
7 added additional scoping meetings based on input from the  
8 state, one in Las Vegas and one in Reno. Through that  
9 scoping meeting process, we've gotten over 4,000 comments and  
10 we're working diligently. In fact, Robin Sweeney, the Nevada  
11 Rail Project Manager, is with me today and I think she's  
12 quivering a little bit because she sees the volume of work  
13 that's before her to move this EIS forward and there's never  
14 enough hours in the day to address all the concerns and  
15 issues that come up, but there is a dedicated team working  
16 and addressing the issues as we move forward with analysis of  
17 the alignment options that we've got on the table.

18           We've got contracts in place to collect the  
19 technical data that's necessary to feed the EIS process.  
20 We've been conducting meetings with the landowners and land  
21 users out in rural Nevada that could be affected by the rail  
22 line. One of the things that we were advised to do early-on  
23 was to get a range land expert. Since a lot of the land use  
24 in this area is with ranching and with cattlemen, we wanted  
25 to get somebody that understood their perspectives a little

1 better than we, the Department of Energy, did. A number of  
2 maps that overlay the grazing allotments with the alignment  
3 options that we are looking at currently have been provided  
4 to the ranchers and we're getting feedback. I think that's a  
5 process that is working fairly well. There's always more  
6 that can be done and we're always looking at ways that we can  
7 increase additional feedback. I'm seeing Mr. Fallini in the  
8 back of the room and I know that Vic Trebula (phonetic) spent  
9 a day driving around the grazing allotments that you've got  
10 in your pickup truck and looking at things that you have a  
11 concern and we've tried to reach out and get as much feedback  
12 as we could from a number of people out here. There's always  
13 more to do and we'll be looking for additional feedback and  
14 I'm sure we'll get some more of that today.

15           We're proceeding with the conceptual design of the  
16 railroad which is part of the EIS process. To understand the  
17 environmental impacts, you have to understand what you're  
18 going to be building and how many bridges are likely to be  
19 built, what kind of culverting, what kind of drainage issues  
20 you're going to have to deal with. And so, there's a  
21 conceptual design effort that's going on in parallel with the  
22 environmental analysis that we're conducting as part of this  
23 EIS. Our draft EIS is expected to be issued in the  
24 spring/summer of this year.

25           Next slide. On the transportation update with the

1 shippers, again I mentioned earlier in the context of our  
2 cask development that we sent a data request update to the  
3 shipping sites, to the utilities, and asked them are there  
4 any changes to your crane capacities, are there changes to  
5 the ingress and egress ability at your site, what kind of  
6 lay-down areas do you have, has it changed from previous  
7 editions of this facility infrastructure data sheet that we  
8 have on all the utilities. About 80 percent of the utilities  
9 we sent the request to responded to us. We got good data  
10 back. Again, that's informing our plans for development of  
11 casks. We were hopeful that we wouldn't have as many new  
12 cask designs to pursue, but based on the utility feedback,  
13 we're going to be focusing a little bit more on some  
14 intermediate weight range casks in the 75 to 100 ton range,  
15 whereas before we were hoping to use more 125 ton casks. So,  
16 that process is working well.

17           The other thing that we've done is that it's very  
18 difficult to interface between the Department and the  
19 utilities right now because I think most of you are aware we  
20 are being sued by the utilities. During litigation,  
21 forthright communication on purely engineering issues are  
22 sometimes difficult. Within the constraints that we've got,  
23 we have been able to actually visit the utilities with the  
24 waste acceptance group. Last year, we visited three  
25 utilities during refueling, we watched their refueling

1 operations and their loading of fuel into their dry storage  
2 casks. In those interactions, the last we visited I think it  
3 was Peach Bottom, Dwayne Arnold (phonetic), and Palo Verde.  
4 We will be visiting additional plants this year. We will be  
5 pushing to try and visit some of the plants that did not give  
6 us feedback on those facility infrastructure sheets that we  
7 asked for, but again that's another effort that we've got in  
8 place to try and close the gap between our current knowledge  
9 and what the changes at the individual utilities might have  
10 been. And, again, those visits are not just the waste  
11 acceptance people, but it's waste acceptance and  
12 transportation. So, again, it's an integrated view of what  
13 the requirements and expectations are.

14           Next slide. On the receiver end, we continue to  
15 have meetings on a regular basis with the Office of  
16 Repository Development, particularly the people that are  
17 doing the facility design. We want to make very sure that  
18 the way the casks are designed will be compatible with the  
19 handling equipment at the facilities where they receive the  
20 casks and at the turnover of the casks to the repository  
21 after they take the fuel out of our transportation casks to  
22 turn over those casks back to the transportation system, all  
23 of that works smoothly. And, there's an ongoing iteration of  
24 design activity as we provided some bounding criteria to the  
25 surface facility design people on the overall size, weight,

1 dimensions, basic approach to cask design that's been part of  
2 their facility considerations.

3           The facility also has some of its own cask  
4 requirements. You all understand, I believe, that at some  
5 point the fuel has to be taken out of the transportation  
6 casks. Ultimately, it goes into a disposal package that gets  
7 put underground. There's also a need because not all of the  
8 fuel is in a condition temperature-wise, heat load-wise where  
9 it can come straight from the utility and be disposed of  
10 immediately. There is going to be an accommodation of an  
11 aging facility at the repository. That aging facility will  
12 store things temporarily until the fuel is in a condition  
13 where it can be mixed and matched to go underground. Casks  
14 will be needed for that, as well. One of the significant  
15 areas of integration between the repository and  
16 transportation is the transportation cask and the aging cask  
17 issue. Are there ways to do a procurement that would cover  
18 both and we believe there is. And, based on our belief  
19 there's some significant potential overlap between  
20 transportation casks and aging casks, the procurement for  
21 both now has been assigned to transportation. We still have  
22 the discussions with the repository. We keep them informed  
23 of where we are going with the cask design and our interface  
24 with the vendors, but there is a good effort to integrate  
25 there.

1           Next slide. And, there's five buttons here. We  
2 continue looking at both intra and interagency. Within the  
3 Department of Energy, there are a number of different  
4 programs and many of those other programs also ship spent  
5 nuclear fuel. The Environment Management Program ships spent  
6 fuel from research reactors. They have a foreign research  
7 reactor program where they get fuel from overseas, they bring  
8 it into one of the ports, and then they ship it from the port  
9 either to Savannah River or to Idaho. The Naval Reactors  
10 Program, even though the Navy is a bit of a will under  
11 themselves, they do have shipments and they are a part of the  
12 Department of Energy. They are currently shipping spent fuel  
13 from the Naval shipyards to storage in Idaho. So, there is a  
14 lot of integration that has to be done just within the  
15 Department. And, as we work on transportation protocols for  
16 our shipments, we'll be doing that in close cooperation with  
17 both the Environmental Management Program and the Naval  
18 Reactors Program.

19           We participated in the Naval Reactors Program.  
20 They had a very good exercise in Kansas City last summer  
21 where they went through an accident scenario. They involved  
22 the states and local emergency responders. I think, it was a  
23 very successful exercise and we have every intention of  
24 conducting similar exercises to make sure that the  
25 transportation system for our shipments is ready to go before

1 we actually conduct loaded shipments. So, our continued  
2 interface with the Office of Naval Reactors is important.

3           We're also looking at the foreign experience  
4 because the French and the British are currently doing  
5 shipments and I believe members of the Board and certainly  
6 Kevin Crowley and members of the National Academy went to  
7 England last year, looked at the transportation network  
8 there, and some of the things that they do. We are looking  
9 at that same experience to try and inform our decision on  
10 things like emergency response and what we can do to make  
11 sure that our system is ready for transport before we  
12 actually send loaded shipments to the repository.

13           We're continuing to work on the routing criteria.  
14 Again, I mentioned that's part of the work that we're doing  
15 with this Transportation External Coordinating Working Group  
16 to make sure we get a very broad view of the path forward  
17 both from the affected States and Tribes, as well as from the  
18 industry. And, we're working with the Department of Homeland  
19 Security on critical infrastructure protection issues and  
20 transportation is part of that discussion, as well.

21           Next slide. And, that gets us to our summary and  
22 will lead into questions. The first thing is that I believe  
23 that despite the funding shortfall we have this year, I  
24 believe that there are adequate planning activities that we  
25 can do with our current funding level that will allow

1 transportation to make significant progress so that when  
2 funding is available for major acquisitions, a lot of the  
3 decisions that are required to inform those acquisitions will  
4 have been made.

5           I believe that by focusing on the Nevada Rail  
6 Alignment Environmental Impact Statement that we're putting  
7 the money that we do have in the most important activity to  
8 accomplish in the near-term and we're making good progress  
9 with that. We're going to work with our States and Tribes  
10 and other stakeholders on the development of both the  
11 transportation protocols and the decisions on how we're going  
12 to distribute the emergency preparedness funding and the  
13 technical assistance in that front.

14           And, I believe that the development efforts we have  
15 underway now position us, even with the funding shortfall, to  
16 be ready for transportation when the repository opens and to  
17 have a robust system.

18           With that, I will open it to questions.

19           ABKOWITZ: Thank you, Gary. We'll open the floor up for  
20 questions from Board members? John?

21           GARRICK: Gary, under rail car activities, one of your  
22 bullets had to do with the development of rail car prototypes  
23 for testing.

24           LANTHRUM: Right.

25           GARRICK: The question I'm really interested in is to--

1 and I also noted that that activity is delayed as a result of  
2 funding. What I'd like to know a little bit more about is  
3 how is DOE going to impact the actual technical design of the  
4 rail car prototypes? For example, are the accident analysis  
5 information that you get from RADTRAN and TRAGIS studies,  
6 does this play a role in deciding what kind of design  
7 criteria that the Department would like to see in the  
8 development of the prototypes? What I'm getting at is, as  
9 you know, this Board is primarily interested in the technical  
10 issues.

11 LANTHRUM: Absolutely.

12 GARRICK: One of the things I was impressed by when we  
13 were at the Salt Lake transportation meeting was the  
14 presentations made by the private storage facilities people  
15 on the technical work going on at Pueblo and other places  
16 with respect to rail car development. And, they got into  
17 considerable detail about couplings design, derail  
18 mitigation, and truck design and a lot of rather detailed and  
19 meaty issues having to do with the rail car itself. And, I'm  
20 just curious how DOE is going to deal with these kind of  
21 issues?

22 LANTHRUM: Actually, the work that the private fuel  
23 storage was doing was the first effort to develop a car that  
24 meets the AAR 2043 standard. The specifications for truck  
25 design, the specifications for coupling, all of those

1 requirements were derived from the 2043 design criteria.  
2 That was developed by the industry. It's an industry  
3 standard, not a regulatory standard. What the industry has  
4 done really is to look at their best equipment in the truck  
5 area--which in the trucks, for those of you that aren't  
6 familiar with rail car design, it's basically the wheels and  
7 suspension for a rail car. It's called a truck. And, if you  
8 ever watch a train go by, sometimes it looks like the rail  
9 car itself is wiggling back and forth. It's more likely that  
10 as there are imperfections in the track, the wheels and  
11 suspension system are moving back and forth. That's called  
12 truck hunting. And, the truck designs that they've come up  
13 with are able to take more truck hunting without disturbing  
14 the stability of the car than some other designs. And so,  
15 what the industry has done is look at the best design  
16 elements for each aspect of a rail car design and has  
17 combined the best of each into this specification. And so,  
18 what AAR was doing--or the private fuel storage, they are not  
19 developing truck designs themselves. What they are doing is  
20 hiring people to develop things that meet the AAR standard.  
21 We will certainly pick up where they left off because they  
22 never got an approved rail car. That work has been deferred  
23 for them. We will be picking up where they left off as we do  
24 our development. Or if they continue their development and  
25 get an approved car before we get going, we will certainly

1 learn from that experience. We don't pretend to be rail  
2 experts and so we will be hiring--that's what the purpose of  
3 the procurement would be to hire rail car production  
4 organizations who specialty is rail car design and to have  
5 them figure out how best to meet the AAR standard.

6           There are a couple of missing pieces on the AAR  
7 standard right now. It's a mechanical standard at this  
8 point. They haven't developed the operation standard that  
9 goes with the mechanical standard and that's very important  
10 to us. We've been talking to the AAR, Bob Fronczack, the  
11 head of the AAR. He's getting a working group together to  
12 address things like operating standards that would work in  
13 concert with the mechanical design standard to make sure  
14 again that the system works well, that you don't have  
15 operational expectations that are not supported by the  
16 hardware or vice-versa. But, we are going to be going down  
17 essentially the same path that the private fuel storage is  
18 going, but it will be done through the vendor community as  
19 they try to meet the AAR standard.

20       GARRICK: Thank you.

21       ABKOWITZ: David?

22       DUQUETTE: Duquette. Gary, a couple questions on the  
23 cask. I notice you've changed the order of the priority  
24 which you're going to do. When do you think the first cask  
25 will be constructed?

1           LANTHRUM: That's going to be heavily dependent on money  
2 because casks--when you start buying hardware, the price goes  
3 up. The dollar figure we had originally requested two years  
4 ago at the Federal budget cycle, the \$187 million, reflected  
5 a number of actual cask procurements. We're expecting our  
6 casks to cost somewhere in the range of \$5 million each for  
7 fabrication. We've got a fair amount of design work that we  
8 can do for quite a bit less. I'm hopeful that we'll have  
9 procurements this year for conceptual design work to address  
10 the gap between existing capability and combining the  
11 limitations of the utilities themselves, but that will be a  
12 fairly small procurement. The hardware design, probably when  
13 the money is available for that. It's also tied a little bit  
14 to the progress on where Yucca Mountain is going. Now, there  
15 will be some procurements that we'll do of hardware loan  
16 advance because my intention is to use actual casks for the  
17 dynamic testing of the trains that we use, the consist. When  
18 that dynamic testing is done, I'd like to have a real cask  
19 rather than a box on top of there with a bunch of lead  
20 weights in it to simulate the shape in all the casks. So,  
21 I'd like to pursue some procurements in parallel with the  
22 development of the prototype rail cars for testing.

23           DUQUETTE: Duquette. Let me follow up on that a little  
24 bit. How many casks--different kinds of casks do you think  
25 you'll end up designing and/or building and would that

1 include some multipurpose casks?

2       LANTHRUM: We're leaving all options open right now.  
3 And, as we go out with the requests for the proposals for the  
4 conceptual design work, we're going to be trying to the  
5 incentivize the cask community to come up with designs that  
6 would be as broadly applicable as possible. Our discussions  
7 with the Nuclear Regulatory Commission is that we will try  
8 and procure casks that serve as broad a range of contents as  
9 possible so that the number of certifications that have to be  
10 pursued is limited. And, the number of fabrications that we  
11 have to go through different contracts would also be limited.  
12 And, until we get the conceptual design proposals back from  
13 the vendors, I won't know what the suite number would be.  
14 Right now, we're thinking it would be in the range of 10, 12  
15 different designs to accommodate the various fuel shapes. It  
16 may be a little bit more, it may be a little bit less. And,  
17 some of the designs may be derivatives of each other. We may  
18 take a design that--the vendors may propose a design that's a  
19 derivative of something that we currently have certified. If  
20 they've got 125 ton casks and there are limitations at the  
21 utility that can only take 100 ton casks, they may just scale  
22 down in the existing design. That would be a different  
23 procurement, but it would be a related family and the  
24 certification would be easier for the NRC because the  
25 technology, all the design factors would be familiar to them.

1 To the extent that they come up with brand new designs with  
2 innovative proposals, the certification process would be a  
3 little bit longer, but they might, in fact, buy us the  
4 ability to serve more fuel content types with fewer physical  
5 design differences. That would be something we know after  
6 the conceptual design reports come back in. I would expect  
7 to see those probably some time around the middle of 2006.

8 ABKOWITZ: Andy?

9 KADAK: Kadak. I guess, I'd like to follow up on Dr.  
10 Garrick's question about building on what private spent fuel  
11 storage has been able to do. In that presentation, you  
12 talked about actually building a railroad car, a train,  
13 locomotive, and I think they may have even built one, didn't  
14 they?

15 LANTHRUM: Yes, they have a prototype at the testing  
16 facility in Pueblo, Colorado.

17 KADAK: Right.

18 LANTHRUM: They stopped testing on it, but they have a  
19 prototype.

20 KADAK: I'm just wondering about reinventing, if you'll  
21 pardon the expression, the same old wheel. If they have a  
22 technology that's gone through all these standards and you  
23 have a limited budget, why don't you apply some of that  
24 limited budget if their testing program has stopped to do the  
25 same thing they're doing?

1           LANTHRUM: We would expect as we go out for proposals  
2 from the rail car community the company that designed and  
3 built their rail car will be one of the bidders and that  
4 would basically build on what they have.

5           KADAK: Yeah, I understand that. But, if you need to  
6 get a job done, there are other ways to do things. And, as  
7 opposed to starting from scratch and going through a whole  
8 very complicated, very time consuming bid process, where you  
9 have a rail car and you apparently need some funds to test,  
10 why don't you just build on their program? But, just a  
11 thought.

12          LANTHRUM: I appreciate the thought.

13          KADAK: The other comment is what the utilities are  
14 capable of doing. Having been a former utility person, I  
15 know if you came to me and said I have a cask that's a 100  
16 ton cask and my crane isn't capable of lifting a 100 ton  
17 cask, would spend a few dollars in upgrading my crane to lift  
18 that cask. So, I think if your expectation is that you have  
19 to design casks for every type of reactor, every type of  
20 facility, I don't think that's a good assumption. And, I  
21 understand you can't talk to utilities to discuss this in any  
22 kind of serious way, but I think you should because it will  
23 affect the scope of the program, it will affect the whole  
24 magnitude of the effort that you're undertaking, and  
25 obviously the cost.

1           So, the other comment is have you had a chance to  
2 talk to railroads? I understand you're also in litigation or  
3 something in litigation with railroads. So, have you talked  
4 to the railroad people?

5           LANTHRUM: I'll try and answer your questions one by  
6 one. The idea of utilities possibly upgrading their  
7 infrastructure, there's a full spectrum here. In fact, the  
8 reports we got back, some utilities had very, very small  
9 crane capacities. And, where you've got a utility that has a  
10 50 ton crane capacity, the thought that they may upgrade to  
11 125 ton capacity is probably less likely, but a utility that  
12 has a 100 ton crane capacity, the upgrade to 125 ton may not  
13 be a big deal. And, it's going to be an interaction. When  
14 we get to the point of doing our delivery commitment  
15 schedules--I think Chris Kouts had talked about that  
16 previously--the delivery commitment schedule is the formal  
17 interchange between the Department and the utilities on the  
18 contracts and the expectations. Part of that, the utilities  
19 say what they would like in terms of casks. And, there's a  
20 bit of a tradeoff. As the casks get smaller, it means the  
21 utility is going to have to go through more loading  
22 operations and that sometimes is more of a burden possibly  
23 than an upgrade of their capacities would allow them to do  
24 fewer loading operations. And so, there will be tradeoffs  
25 and the utilities will have a significant say in what they're

1 willing to do because it affects their operations and the  
2 number of loadings they'd have to go through. We will  
3 develop a suite of casks because I think there won't be one  
4 answer that applies to all the utilities. There will  
5 undoubtedly be some that have limited capacities that will  
6 not upgrade. I think that we will likely have to have some  
7 smaller casks, but the actual number of casks since it's  
8 going to be a ramp-up, an overall operational throughput  
9 capacity, I will try to have a suite of casks that will  
10 address a variety of needs initially. As the number of casks  
11 grows, it will grow in concert with more definitive  
12 agreements with utilities about what they expect to receive  
13 and what they're willing to do in terms of facility upgrades.  
14 And so, the ultimate infrastructure we have in place as we  
15 get to full throughput may be very different than what we  
16 think we're going to need when we start operations when the  
17 repository opens.

18       ABKOWITZ: Abkowitz, Board. Gary, the focus of your  
19 discussions today are with mostly rail scenario in mind. I  
20 was struck by the fact that the word "truck" never appeared  
21 in your 16 slides. The corollary to the mostly rail scenario  
22 is some truck and there are people who believe that if the  
23 rail spur construction does not happen or is delayed that  
24 could become more truck or mostly truck.

25               I'd like to explore with you a little bit about

1 what percentage of the overall operation will be trucking  
2 under the mostly rail scenario including what percentage of  
3 those would be in an overweight type of shipment and then  
4 also if the rail spur is not built concurrent with the  
5 opening of the repository whether you have intermodal  
6 shipments where you'd transfer from rail to truck for the  
7 last segment of the trip and what kind of implications that  
8 has on cask design and so forth?

9       LANTHRUM: You're right. I did not talk about truck  
10 shipments largely because the infrastructure for truck  
11 shipments is currently in place. There's nothing new that we  
12 have to construct. The highways are there. The role of the  
13 states in specifying alternative routes for truck shipments,  
14 highway shipments is clearly understood. If we have to do  
15 truck shipments tomorrow, we have the infrastructure in place  
16 we could lease casks that currently exist, we could hire  
17 drivers and vehicles, we could do truck shipments tomorrow.  
18 So, there's not an infrastructure development effort. There  
19 are improvements that could be made through a development  
20 effort, but the infrastructure is in place currently.

21       In the repository FEIS, I believe the split between  
22 conceptually--and that's again just looking at some  
23 expectations about what the future might hold--the split  
24 between the rail part and the truck part for the mostly rail  
25 scenario is 90 percent rail, 10 percent truck. We won't know

1 for sure until the utilities give us their direct feedback.

2           I've done some analysis of the cost per metric ton  
3 to do throughput by truck as opposed to by rail and it's on  
4 an order of magnitude of something like 50 to 1 more  
5 expensive per metric ton to deliver material by truck as  
6 compared to rail. We had overwhelming response during the  
7 repository EIS process on the mode question to prefer rail  
8 largely because you reduce the number of shipments  
9 significantly. There has been a number tossed around on the  
10 order of 50,000 plus shipments if they were all done by  
11 truck, whereas if they were all done by rail, it would be on  
12 the order of 3500 shipments. So, there's a significant  
13 reduction in overall number of shipments.

14           The emphasis is going to be clearly on doing the  
15 absolute maximum possible by rail. There will always be the  
16 potential for truck shipments, but being a good steward of  
17 the taxpayers' money, I need to be focusing on rail as much  
18 as possible. I'll still maintain the viability of some truck  
19 shipments, but it's clearly not going to be a focus for us.

20           ABKOWITZ: Abkowitz, Board. So, can I interpret from  
21 your comments that there's no plans to consider a rail to  
22 truck intermodal facility?

23           LANTHRUM: We have lots of contingency plans and  
24 alternative scenarios that are looked at and that's certainly  
25 one of the scenarios that's been looked at. I'm not sure

1 that it provides any net benefit in throughput if you do  
2 truck casks on rail cars and then transfer to a legal or  
3 overweight truck in an intermodal facility. I'm not sure  
4 that provides any real benefit in either cost per metric ton  
5 per throughput or any other operational advantage. We'll  
6 continue to look at that and we've got that as an option on  
7 the table right now. I'm not sure how it would play out when  
8 we actually start shipments.

9 ABKOWITZ: So, if the rail spur is not built, it would  
10 become a 100 percent truck scenario for the nation?

11 LANTHRUM: It would be a 100 percent truck cask  
12 scenario. There may be things that we could do to reduce the  
13 impacts, but we're certainly not focusing on that.

14 ABKOWITZ: And, I imagine that would also have  
15 implications on testing of truck casks that are traveling on  
16 rail cars.

17 LANTHRUM: All the casks we buy will be certified to  
18 meet the NRC criteria for performance. And so, whether it's  
19 a truck cask or a rail cask, the performance criteria the NRC  
20 has set is the same. It would go through the same  
21 certification process.

22 ABKOWITZ: Okay, thank you.

23 Ali?

24 MOSLEH: Mosleh. So, the related question, the EIS  
25 would be neutral with respect to the truck/rail mix?

1           LANTHRUM: Actually, the EIS that we're currently doing  
2 does not look at the truck issue, at all. The EIS we're  
3 currently doing is only to look at the alignment options  
4 within the Caliente corridor for constructing a rail line.  
5 That's the scope of this EIS. The mode decision and the  
6 pluses and minuses, the benefits and the costs associated  
7 with truck versus rail was in the repository EIS and that was  
8 concluded in final form some time ago in 2002. This current  
9 EIS is just well-within the selected Caliente corridor. It  
10 was part of our decision where would we study the potential  
11 for constructing a rail line within that corridor.

12           ABKOWITZ: Okay. One last one from Andy.

13           KADAK: I guess I had a couple of questions there that I  
14 don't think you addressed. One was have you met with the  
15 railroads directly?

16           LANTHRUM: Yes, we have. We met with Union Pacific  
17 about two or three weeks ago and we will continue to meet  
18 with the railroads. The initial discussion with them, the  
19 Caliente corridor was our selected corridor . Union Pacific  
20 has the line that comes by Caliente. The initial discussions  
21 with them was focused on what's the process for doing a tie  
22 to their main line track and do they have views about how  
23 that relationship should work out. It was relatively easy to  
24 speak with Union Pacific because, as you indicated, there's a  
25 lawsuit that's outstanding, a series of lawsuits, the

1 Department has had with the railroads over the cost of doing  
2 spent fuel shipments. We've reached settlement with Union  
3 Pacific and so that lawsuit is behind us. There's an  
4 agreement on the cost for both regular train shipments and  
5 for dedicated train shipments and a number of other issues  
6 that were a part of that suit. So, we have had discussions  
7 with Union Pacific. We will continue to have an ongoing  
8 relationship with them as the additional--these lawsuits are  
9 proceeding railroad by railroad. And, as additional lawsuits  
10 are settled, we will open discussions with the other  
11 railroads one by one. I believe, Burlington Northern Sante  
12 Fe is the next railroad that they're trying to reach  
13 settlement with.

14 KADAK: In your discussions, you talk about dedicated  
15 versus whatever you call it--

16 LANTHRUM: Key or regular trains.

17 KADAK: Regular trains?

18 LANTHRUM: We see that as largely a policy decision the  
19 Department has to make. And, again, for the audience, the  
20 jingo here, a regular train is just a train with a whole  
21 bunch of cars of various cargos heading down the track. The  
22 railroads have some special requirements for hazardous  
23 material moves and those go in key trains, but you can mix  
24 and match cargos in key trains, but again there's an  
25 expectation that key trains will travel on higher quality

1 track. They stay as much as possible on Class 1 track and  
2 there's some other expectations for key train operations. A  
3 dedicated train only has one cargo being pulled by the  
4 engine. And so, if we chose to use as a policy decision  
5 dedicated trains, that train would only be moving spent  
6 nuclear fuel or high-level waste. We haven't made that  
7 decision yet. It's an ongoing discussion about what the pros  
8 and cons are.

9           The Federal Railroad Administration has studied the  
10 issue and I believe they have a report that's about ready to  
11 come out on their views. We've gotten lots of input from our  
12 stakeholders that they prefer dedicated trains and we're  
13 taking that into consideration. There are some operational  
14 advantages for us when they use the dedicated trains,  
15 particularly in terms of the escort. The way regular trains  
16 and key trains work is that cargo gets put behind an engine,  
17 it moves down the track in the general direction that you  
18 want your cargo to go. Not all that cargo on that train is  
19 destined for the same site. So, as you get to the switching  
20 yard, some cars get separated out and staged there until an  
21 engine going in the right direction comes along. But, the  
22 dedicated train, you don't have to go through that switching  
23 process. You start at your shipping site and that one  
24 consist goes all the way from the shipper to the receiver.  
25 Operationally, there's clearly some advantages associated

1 with that and we're considering that as we try and frame the  
2 policy decision.

3       KADAK: Let me just close it with one brief story. It's  
4 not a question. When Yankee shipped its reactor vessel from  
5 Rowe, Massachusetts to Barnwell, South Carolina, we didn't  
6 have access to a rail line. We had to heavy haul the vessel  
7 over 100 times to a rail line which was live loaded onto a  
8 rail car and shipped to Barnwell. We had to deal with, I  
9 think it was, three railroads, eight states, all agreements,  
10 all emergency planning, all that. People believed that the  
11 reactor vessel was spent fuel or reactor core, but obviously  
12 it wasn't. But, the utility can, without having access to a  
13 rail line to their facility and without having the capability  
14 to--can use heavy haul trucks to get wherever you tell them  
15 to go to ship this spent fuel. And, this is, I think,  
16 something you need to factor into your planning and talk to  
17 the utilities to see how they would do this and how they  
18 would recommend doing it because you can't just assume that,  
19 well, they don't have the capacity, therefore we've got to  
20 design a special cask, we have to go by truck, or who knows  
21 what. It would be a very serious mistake, I think.

22       LANTHRUM: Actually, that is a part of our planning  
23 process. We're looking at both heavy haul from utilities  
24 that don't have rail access to a rail head and barge from  
25 some utilities that don't have rail access to a rail head

1 because some utilities are located on waterways that are  
2 navigable. So, we are looking at the possibility of taking  
3 rail casks out of utilities that don't have rail access.  
4 That is on the planning horizon.

5 KADAK: And, while Margaret Chu is in the room, I think  
6 it's really a bad decision to reduce the monies for this  
7 program to 25 million because I think there are a lot of  
8 concerns out there about where this is going to go and how is  
9 this going to get settled. That maybe 25 million isn't  
10 sufficient to make those decisions so the people become  
11 informed.

12 LANTHRUM: Well, in defense of the decision, I'd like to  
13 say that, as I indicated earlier, that large \$187 million  
14 figure was largely based on us actually buying hardware this  
15 year. And, we've recently announced that there's going to be  
16 delays to opening the program. If I bought casks this year--

17 KADAK: I'm not suggesting doing--I'm just suggesting 25  
18 million, I think, is a little bit on the low side.

19 LANTHRUM: Okay.

20 KADAK: And, you need to be sure that you're able to  
21 make some intelligent decisions about the path forward.

22 LANTHRUM: I will never complain about getting more  
23 money. I think the money that we have is adequate for our  
24 planning process right now. I appreciate the input.

25 ABKOWITZ: Okay. We also have a shortage of time. So,

1 we need to press on to your second presentation.

2           There is one message that has been given to me to  
3 read out. Apparently, there's a car out in the parking lot,  
4 Nevada tag 406 RYR. It's a silver-gray four-door Chrysler  
5 Sedan. I'm told that your trunk is open. So, whoever was in  
6 there got out and forgot to close the trunk.

7           LANTHRUM: I think it's mine. It's a rental car with an  
8 automated opening and it opens by itself. I've come out of a  
9 number of restaurants after having closed it and it opens  
10 itself just because it wants attention, I guess.

11          ABKOWITZ: Okay. I thought maybe this was a ploy so you  
12 could walk out of here and not come back.

13          LANTHRUM: I'd like to. It usually doesn't work. I am  
14 going to grab a glass of water here though.

15          (Pause.)

16          LANTHRUM: Okay. You can jump into the first slide. In  
17 this presentation, I'm going to talk about a number of things  
18 and this will go a little bit faster than the last  
19 presentation just to give an overall view of where we are  
20 with this Rail Alignment Environmental Impact Statement and  
21 give you some information on the key elements of our Record  
22 of Decision and our Notice of Intent, to talk about the  
23 general overview of where we are in developing the EIS, and  
24 the next steps in the process.

25                 Next slide. I already talked a little bit about

1 the fact that we issued a preference statement for mostly  
2 rail and for the Caliente corridor in December of 2003. We  
3 followed up in April of 2004 with an actual Record of  
4 Decision that we will be using the mostly rail scenario for  
5 transportation and a Record of Decision saying that we were  
6 selecting the Caliente corridor to study additional alignment  
7 options for construction of a railroad. At the same time as  
8 issuing the Records of Decision, we published a notice of  
9 intent to start an environmental impact statement about where  
10 within the Caliente corridor we might align a track for  
11 actual construction.

12           Next slide. We published our Notice of Intent on  
13 April 8 of 2004. We also scheduled scoping meetings in the  
14 State of Nevada to talk about what we should consider with  
15 development of this EIS. We held scoping meetings here in  
16 Caliente. We held them in Goldfield, we held them in  
17 Pahrump, we held them in Reno, and we held them in Las Vegas.  
18 We got lots of input. As I indicated in my previous  
19 presentation, there were over 4,000 comments that we got as  
20 part of that process. There was really good public  
21 participation. We got a range of comments, positive and  
22 negative, and we're wading through all of that right now. As  
23 I indicated, Robin, maybe she's the one that wanted to reach  
24 escape velocity to get that trunk hatch closed, but she's  
25 working diligently to make sure that the Draft EIS that comes

1 out in the late spring/early summer is going to address all  
2 the comments that we got. The proposed action that we have  
3 is to determine a rail alignment for the construction and  
4 operation of a rail line for our shipments of spent nuclear  
5 fuel and high-level waste from Caliente to a site near Yucca  
6 Mountain.

7           Next slide. The Notice of Intent identified in  
8 this gives a little bit of a jargon. The alternatives that  
9 we're looking at, there are common segments and there are  
10 alternatives. For those of you who are really interested,  
11 I've got a pretty good sized map up here and you can talk to  
12 me during the breaks. The red lines that draw the possible  
13 alignments of a railroad track from Caliente to Yucca  
14 Mountain, there are some places where there's only one line.  
15 That's called a common segment where we hadn't looked at  
16 alternatives. And, there's some places where the lines  
17 diverge into a couple of different tracks that come back  
18 together again. Those are the alternative. These are the  
19 alternatives that were proposed during the Draft and Final  
20 Repository Environmental Impact Statement. There were a  
21 number of other alternatives that were introduced during  
22 scoping. Those are being considered. We're still assessing  
23 which of the additional alternatives that were proposed are  
24 viable and feasible for carrying further for detailed  
25 analysis. I'd be happy to talk about the common segments and

1 the alternatives for anybody that's really interested.

2           We're doing field investigations of all of them and  
3 those field investigations include--there was an unfortunate  
4 discussion, I think, early-on about doing survey work out in  
5 the field. And, a lot of people thought what's all this talk  
6 about having an open mind about where the rail line is going  
7 to be if you're already surveying where you're going to lay  
8 the track. That's not what we're doing. We're putting  
9 survey markers out so that the planes can fly overhead,  
10 collect aero-photography information that would feed the  
11 analysis of the common segments and alternatives so good  
12 decisions can be made. So, the surveying that we're doing  
13 right now is to help the data collection process, not to lay  
14 the track. But, we've got survey markers being put out in  
15 all the areas from Caliente to the repository.

16           We're doing geochemical out in the field looking at  
17 what the ground is actually made of, what kind of rock, what  
18 kind of soils, sediments. The geotechnical people are  
19 looking at a lot of issues and just the constructability of  
20 the rail line out in rural Nevada. We're doing hydrology  
21 work and I think, as all of you know, hydrology is a  
22 significant concern, the flooding that happened out here in  
23 January. We're paying very close attention to water flows.  
24 The good thing is that with the flooding in January, where  
25 the stream beds are is clearly evident right now. So, our

1 hydrology team is actually able to get a very good view of  
2 what is out there. Whereas, you go through a couple years of  
3 drought and with the wind erosion out there in the flats,  
4 things that are titled stream beds don't look like stream  
5 beds when you're walking around. They look like stream beds  
6 now. You can see the water erosion. So, it's been helpful  
7 for the hydrology team. I don't know if they scheduled the  
8 bad weather, but it's been helpful for them.

9           Next slide. This is a map of Nevada and again it's  
10 an overview of the whole state. The red lines right here are  
11 the outline of the common segments of the Caliente corridor.  
12 The pink pieces in here show where they have alternatives  
13 that are being considered or at least were defined as  
14 alternatives in the repository Environmental Impact  
15 Statement. Again, we got numerous additional comments on  
16 other alternatives that we should consider as part of our  
17 scoping. We're still assessing the viability of those  
18 additional alternatives. And, what we wind up pursuing in  
19 more detailed analysis will come out in the Draft EIS that  
20 will begin in late spring/early summer.

21           Next slide. This is the same chart you see here  
22 and again it just shows the general flow. As has been  
23 indicated a number of times, Nevada is basin and range  
24 country. John McPhee's book, Basin and Range, is a really  
25 good description of this landscape where you've got a series

1 of mountain ranges and in Nevada they run north-south with  
2 valleys between them. That's the environment that we're  
3 working in. A lot has been said about the challenge of  
4 constructing a railroad through basin and range country.

5           Next slide. We listened to the comments and again  
6 this is a bit of a busy chart, but let me just say that on  
7 the left hand side here, we're plotting elevation. This is  
8 distance from origin to conclusion of a number of rail lines  
9 with the black line here being the Caliente corridor as it's  
10 described in the repository FEIS. And, it shows how much up  
11 and down we've got with the Caliente corridor. These other  
12 lines are existing Class 1 track that has been built and are  
13 operational in the country today. The green line is the UP  
14 track coming out of Denver and you've got a huge variation in  
15 topography on that line even though it's shorter. Dealing  
16 with major peaks like that, there was significant tunneling  
17 that was required and a number of these lines have  
18 significant tunnels going through them. The orange line here  
19 is Donner Pass coming out of Reno and again you've got very  
20 significant elevation changes all along that line. It's very  
21 rugged terrain. A number of trestles have to be built,  
22 bridges and a number of tunnels have to be built for that  
23 line. The blue track here is the (inaudible) Pacific Line  
24 out of Calgary, Alberta. Again, you've got some very  
25 significant terrain variations as the track goes from

1 Calgary, Alberta, out. And, in comparison, the terrain  
2 variation that we're dealing with in Caliente corridor is  
3 very manageable, very constructible.

4           Next slide. I already mentioned a couple of these.  
5 I talked about the fact that we're doing geotechnical  
6 surveys out in rural Nevada. That's the looking at the  
7 soils, the rock formations, the kind of surface that we have  
8 to deal with in the constructability of the railroad.

9           The aerial mapping, I described, and that's the  
10 survey work that's currently going on. It's placing survey  
11 markers for the aircraft to target to as they do their site  
12 scanning and multi-spectral analysis. They've got some  
13 pretty sophisticated equipment for doing a variety of data  
14 collection from airplanes.

15           The hydrology is again studying the water flows out  
16 in the area that we were looking at as possible alternatives.  
17 We're also looking at sensitive species both for plants and  
18 animals. The good thing again with all the rainfall that  
19 we've gotten this spring, we're expecting a very significant  
20 blooming season and so there should be lots of evidence of  
21 the plants that are out there on that corridor. So, I'm very  
22 encouraged that the threatened and endangered plants and  
23 animal surveys that are going to be going on will again have  
24 lots of data to work with. During a drought year, there are  
25 a lot of plants that just may not bloom and so there could be

1 still some mystery. But, with the rains we've had this  
2 winter, I'm expecting the spring surveys to be very  
3 productive.

4           And, again, cultural surveys, and we've gotten a  
5 lot of input from some of the people that live and work out  
6 in rural Nevada about some of the cultural features. And, in  
7 fact, it was interesting. There was a Tribal writer's  
8 working group that did a tour of the corridor with ORD, and  
9 based on some input we had from some of the other people that  
10 live and work out here, we were able to point out to some of  
11 the Tribes cultural sites that they were unaware of. And so,  
12 we're paying very close attention to collecting the right  
13 cultural data to inform the decisions about the ultimate  
14 location of the railroad.

15           Next slide. I already talked largely about the  
16 major intent of doing this survey work and this data  
17 collection is to feed the EIS process. In an EIS process,  
18 one of the key challenges is to significant and adequately  
19 address the alternatives that are being studied. This data  
20 is being collected so that we can do a true, rigorous  
21 exploration of these alternatives and do a real comparison of  
22 them before a decision is made.

23           We're also looking at the possibility of sites  
24 providing some construction materials that could be used. We  
25 got a question about ballast. Ballast is a real rough rock.

1 For any of you that have hung around railroad tracks,  
2 there's a really sharp edged, rough rock that's very  
3 different from river stone that's used to form the stability  
4 base for laying the track and the ties. We're looking at  
5 sources of ballast while we're out there and fill. We're  
6 also working with the local landowners and land users about  
7 development of the rail line as we look at collection of  
8 materials or design features or the things that we could do  
9 that would be helpful as opposed to hurtful. That's part of  
10 our consideration as we collect the data both from the  
11 individuals and the technical data collection.

12 We're also working on the conceptual design  
13 criteria. There could still be significant changes between  
14 the design that's done to support the EIS and the final  
15 design that's done when we actually get into construction.  
16 That's going to be an ongoing process, but certainly you have  
17 to have a fairly good feel for the design and the kind of  
18 impacts in terms of numbers of bridges and drainage systems  
19 that you'd have to include to do an adequate environment  
20 assessment. So, there's a conceptual design piece that goes  
21 along with this.

22 We're looking at the engineering requirements  
23 during construction services and again constantly trying to  
24 factor in the comments that we got during scoping meetings.  
25 And, we continue to get comments to this day. The comments

1 didn't stop with scoping. We continue to get comments coming  
2 in. It's encouraging to me that the scoping process was  
3 well-enough attended and we got adequate enough  
4 participation, but the additional comments that we're getting  
5 in are largely reflected by the comments that we got  
6 initially during the formal scoping period. But, we're  
7 continuing to look at the comments that come in. We're  
8 accommodating those that are different to the extent that we  
9 can and we're folding that into the operations as we push our  
10 technical teams out into the field.

11           Next slide. We don't have a final decision about  
12 which of the additional comments that advised changes in  
13 scope from what was proposed or at least outlined in the  
14 repository Final EIS. We're still looking at the feasibility  
15 of some of the suggestions that were made during the scoping  
16 and trying to fold the ones that we can into the EIS process.  
17 We're continuing the field work in parallel with that. We  
18 believe strongly that we can have a very good technical basis  
19 for issuing a Draft Environmental Impact Statement in the  
20 spring/summer of this year. We believe that the Final Rail  
21 Alignment EIS could be done early in fiscal year 2006 and we  
22 believe that a Record of Decision could be issued early in  
23 fiscal year 2006. What we do after that is going to be  
24 dependent on funding and where the program is overall.

25           Next slide. Questions? I told you it would be

1 faster.

2 ABKOWITZ: Okay. We're opening it up for questions.

3 Andy, followed by Henry.

4 KADAK: Kadak. I was looking at that map that you  
5 pointed out and I also have a copy here of the EIS. I think  
6 it was for the Yucca Mountain Project completely. And,  
7 George and I were sort of--if we had a choice, which  
8 direction would we choose to go from Caliente? Our route was  
9 a little different than the one you suggested. And, where  
10 were you during scoping?

11 LANTHRUM: Well, I guess, I wasn't around.

12 KADAK: But, the bottom line seems to be and the real  
13 question is you worked really hard to avoid the Nevada  
14 Testing and Training Range which apparently--

15 LANTHRUM: There's no question about that.

16 KADAK: --is the reason for the circuitous route to get  
17 to the test site. Could you explain to me why it is not  
18 possible to take a more direct route given that this is  
19 already Federally controlled land and these are "Federal  
20 shipments" which if properly done, namely invite somebody  
21 from the test site, trained driver, to drive in a more direct  
22 route to the site, why was that not considered?

23 LANTHRUM: It was considered.

24 KADAK: And, what happened?

25 LANTHRUM: It was considered thoroughly. In the

1 repository FEIS, there were five possible corridors that we  
2 looked at. One of the corridors was called Caliente Chalk  
3 Mountain and it basically started at the same place, came  
4 around, but drove down through the test site from this point,  
5 through the test and training range to the repository. The  
6 Department of Defense and the Air Force vehemently objected  
7 to that corridor. There was no shortage of outcry about how  
8 that would affect the national security mission. And, I  
9 think, you're aware of the fact that this was one time called  
10 the Nellis Range. There are live bombing exercises that go  
11 on out here. That's just part of the national security  
12 environment that they operate in and they felt and argued  
13 persuasively that those national security missions that go  
14 out there were incompatible with the construction of a rail  
15 line, construction and operation of a rail line, through the  
16 test and training range.

17 KADAK: All right. But, that was one route that you did  
18 look at and you also had one that went kind of across. The  
19 real question is were they thinking in a way that says, well,  
20 how can we help you solve this problem or were they in this  
21 just saying, no, no?

22 LANTHRUM: They were thinking how to help us solve this  
23 problem, but they were thinking about how to solve it without  
24 impacting their activities. They truly believed that  
25 construction of a railroad through the test and training

1 range would have had irreparable harm to the national  
2 security activities on the range. I can't tell you more than  
3 that, but it was a clear and unequivocal approach taken by  
4 the Department of Defense and the Air Force. It's not just  
5 an Air Force range. There are multi-force training exercises  
6 that go on out there. I'm not privy to information about all  
7 the exercises, but they felt clearly that that activity out  
8 there was incompatible with construction and operation of a  
9 railroad.

10 ABKOWITZ: Henry?

11 PETROSKI: Petroski. You indicated in your earlier talk  
12 that you would conduct a design competition of sorts to  
13 select a cask design obviously benefitting from the  
14 experience of those who do that kind of thing. And, yet,  
15 here in this talk, you indicated that you, which I took to  
16 mean DOE, would make decisions about the layout of the rail  
17 path and you would design it conceptually and in detail. Did  
18 I misunderstand that?

19 LANTHRUM: Well, yes and no. The decisions will be made  
20 by the Department of Energy, but the conceptual design work  
21 is being done by a subcontractor. And, we had a competition  
22 to get the subcontractor on board. The subcontractor doing  
23 the design work is a combination of Parsons Engineering and  
24 HDR. HDR is a very large railroad design company. Parsons  
25 is a large engineering company. They also have PTSI involved

1 in the contract, the ones that run the test facility out at  
2 Pueblo, Colorado. So, there are people involved that have  
3 operational experience, railroad design experience, and  
4 construction experience that are doing that conceptual design  
5 work. That was a competition to see which of the proposers  
6 could put the best idea forward and seem to have the best  
7 team for providing conceptual design feeds for us to make  
8 decisions on.

9       PETROSKI: Could you elaborate a little bit on how you  
10 conduct competition?

11       LANTHRUM: Actually, I can't and the reason is that we  
12 have a maintenance and operating contractor for a large  
13 portion of the OCRWM work. It's BSC, Bechtel and Science  
14 Applications International. So, BSC is the M&O contractor.  
15 DOE did the procurement of the EIS contractor to actually  
16 write the EIS. The technical data collection on  
17 geotechnical, hydrology, photogrammetry, conceptual design,  
18 those detailed technical efforts, were subcontracts under  
19 Bechtel. So, the Bechtel SAIC, BSC did those subcontracts.  
20 They were not DOE subcontracts. So, I can't give you the  
21 particulars. We did provide the input to BSC about what our  
22 expectations as DOE were, but they ran the competition and  
23 those were BSC contracts.

24       ABKOWITZ: Abkowitz, Board. I have a couple questions  
25 for you, Gary. The first one is let's suppose that as this

1 process moves forward, one identifies a different valley as  
2 being a preferred place to build the railroad than the  
3 corridor that's been defined, so far. My understanding is  
4 the corridor that's being analyzed right now is defined, I  
5 guess, by the Bureau of Land Management's reserve or annex or  
6 whatever terminology it is. Is there an opportunity in the  
7 process to realign the track to take advantage of land that  
8 is not in that corridor that you're able to look at right  
9 now?

10 LANTHRUM: Everything is possible. If we see  
11 significant advantages to some other alignment other than  
12 what was in the repository FEIS, we would be sure to look at  
13 it. There are discussions ongoing constantly about to what  
14 extent can you meander within this corridor and still call it  
15 part of this corridor. That's part of our ongoing internal  
16 discussions about what we can include. We will continue to  
17 have those discussions, and if other alternatives come up and  
18 are proposed to us or presented to us, we'll certainly take a  
19 look at them. We're not precluded from considering anything  
20 at this point.

21 ABKOWITZ: Okay. So, in a specific case, I was reading,  
22 I guess, in the "New York Times" magazine about the City--I  
23 believe that's what it's called--

24 LANTHRUM: Just City.

25 ABKOWITZ: City, okay, thank you. There may be

1 opportunities to work through that issue?

2       LANTHRUM: As we got comments during scoping and the Art  
3 Foundation and Michael Heizer, the artist that's doing the  
4 sculpture called City, they participated very significantly  
5 in our scoping period, and they provided additional input to  
6 us since scoping and they are actively involved in trying to  
7 make sure that their interests are protected as this project  
8 moves forward. One of the things that we're obligated to do  
9 during an environmental impact statement is we have to look  
10 at impacts associated with the action and to consider ways to  
11 mitigate those impacts. We'll be looking at a range of  
12 mitigation actions anywhere from--the request was to avoid  
13 Garden Valley altogether, but there may be other things that  
14 can be done. We'll be looking at all of that as part of the  
15 EIS process. You know, it will be part of our alternatives  
16 analysis.

17       ABKOWITZ: Okay, thank you. My other question has to do  
18 with the recent flooding which you presented as the glass  
19 half full, I believe.

20       LANTHRUM: Absolutely, half full.

21       ABKOWITZ: And, it kind of brought to my mind some of  
22 the things that we've been learning recently in places where,  
23 you know, there have been four 100-year floods in the last 20  
24 years type of thing. How significant was this flood relative  
25 to historical data and how much, you know, variation in the

1 historical data are you allowing your hydrology people to  
2 think about so that the design can accommodate, you know, a  
3 wider distribution of what might happen? I know washouts are  
4 a very prevalent problem in this area of the country.

5       LANTHRUM: Absolutely. Getting back to one of the  
6 points that you've always made, we're taking a systems  
7 approach to his. So, my view was not that we would design a  
8 railroad that will be immune to weather forever, but that we  
9 will design a system that can accommodate all kinds of things  
10 that could impact our transportation operations. One of the  
11 things we're building into it, since we have escort cars with  
12 each of our trains and we will have escorts with each of our  
13 truck shipments, we have constant communications between the  
14 operations center and the conveyance. And so, in the case of  
15 the rail car, there is a communication module with the escort  
16 car. We're expecting to have a situation awareness  
17 capability as the transportation operations are ongoing so  
18 that a variety of things that are coming up ahead of the  
19 shipment are--the transporter is aware of, whether it's a  
20 rail car or whether it's a truck, whether it's just one of  
21 those things. There could be other accidents completely  
22 unrelated to our activities that would be of concern up  
23 ahead. There could be some security issues that we would  
24 become aware of through out contacts. There are a whole  
25 bunch of things that we need to be aware of as our shipments

1 are getting ready to go and as they're on the road. If  
2 anything comes up, whether it's weather related, security  
3 related, other transportation related that raises a question  
4 about the viability of continuing with the shipment, we have  
5 the ability to divert to a safe haven and hold the shipment  
6 until whatever that situation is is resolved whether it's  
7 weather or something else. And so, I think, it's more  
8 appropriate to do a good job of design, but not to expect a  
9 design to be able to preclude any impacts from weather or  
10 future activities from ever affecting the railroad. Again,  
11 it's a systems approach.

12 ABKOWITZ: Andy?

13 KADAK: A quick question, Kadak. At our last meeting in  
14 October, we sort of talked about who is actually going to run  
15 the railroad. Have you thought about who is going to be the  
16 contractor or how are you going to implement the  
17 transportation strategy?

18 LANTHRUM: We've thought about a lot. We clearly  
19 haven't made any decisions yet. I think we've got ample time  
20 to move forward. There were a series of first steps that  
21 were taken in the past. There were regional servicing  
22 centers that we had talked about. There was a transportation  
23 integration contractor at TIC that was talked about a couple  
24 of years ago. I'd love to be on the first train and be able  
25 to pull the whistle at a couple of the crossings, but it will

1 be somebody else operating it. We're not sure exactly what  
2 that construct is going to be. I think we have a fair amount  
3 of time to talk about whether one of the large railroads  
4 might like to operate this particular branch line or we have  
5 a separate branch operator. A lot of discussions will go on  
6 between now and the time we actually start operations and I  
7 think it's premature to have any decisions on that, but it is  
8 something that we will continue to consider.

9       ABKOWITZ: Any other questions from the Board, Board  
10 staff?

11       (No audible response.)

12       ABKOWITZ: Okay. Well, I thank you for putting us back  
13 on schedule, in fact, exactly on schedule. We will recess  
14 for lunch now and reconvene at 1:15 p.m.

15       Thank you.

16       (Whereupon, a luncheon recess was taken.)

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A F T E R N O O N    S E S S I O N

3            ABKOWITZ: Back to our afternoon session where we'll be  
4 continuing to focus on the Nevada Rail Branch Line. As you  
5 recall this morning, we heard from Gary Lanthrum at DOE about  
6 their agency's activities with regard to planning the Nevada  
7 Rail Branch Line. And, the program this afternoon is devoted  
8 to hearing from other stakeholders or shareholders, depending  
9 upon your terminology, that are also heavily involved in the  
10 planning or will be affected by the planning of this branch  
11 line.

12

          The order of presentations this afternoon will  
13 start with listening to a presentation from the State of  
14 Nevada. That will be followed by viewpoints expressed by the  
15 City of Caliente and Nye County. Then, we'll hear from the  
16 Western Shoshone Nation.

17

          As you can see from the schedule this afternoon,  
18 we've got a pretty tight set of time slots organized and that  
19 is not to try to diminish the importance of hearing from each  
20 of those presenters, but I do ask the presenters to be  
21 mindful of that schedule because we do have a public comment  
22 period scheduled to start at 3:15 and we want to come as  
23 close as possible to meeting that schedule. I'm told that  
24 the number of people who are signing up for the public  
25 comment period are quite a significant number of folks and I

1 want to sure you that the Board will stay here as long as we  
2 need to in order to hear from everybody. Now, that doesn't  
3 mean filibusters are allowed, but we do want to encourage and  
4 emphasize that everyone's voice has a seat at the table  
5 today.

6           Our first speaker this afternoon and I think he was  
7 strategically placed there because it's hard to fall asleep  
8 after lunch when he's speaking is Bob Halstead. Bob is with  
9 the State of Nevada. He serves as a consultant to the state.  
10 Many of you know him and know that he's been involved for a  
11 number of years involved with transportation projects  
12 including the Yucca Mountain Repository. I've had an  
13 opportunity to know Bob even before he got involved in that.  
14 So, we go back quite a ways and I've always felt that he has  
15 some interest and perspectives on the subject and has never  
16 been afraid to express them. So, today, he'll give us the  
17 views on the development of the rail branch line to Yucca  
18 Mountain from the Nevada perspective.

19           Bob?

20           Also, one other quick note, if you'll take a moment  
21 to put your cell phones and beepers on sleep mode.

22           HALSTEAD: Thank you, Mark, for that kind introduction.  
23 On behalf of the State of Nevada, I want to express our  
24 gratitude to the Board for bringing the full Board to  
25 Caliente and also express appreciation of the large number of

1 DOE and industry and other people, as well as people who are  
2 residents of the State of Nevada and are the people who are  
3 going to be most heavily affected by the Department's  
4 proposed program. In order to keep my presentation down and  
5 make sure that I don't cut into the time to get to take  
6 public comment, I'm going to try to move quickly through some  
7 slides and linger on some others.

8           I want to start by very quickly telling you where  
9 Nevada disagrees with five key statements that Gary Lanthrum  
10 made in his presentation. First, maybe most importantly, we  
11 believe that DOE cannot keep putting off key system design  
12 and operation decisions to say, well, we haven't made that  
13 decision yet and so we can't tell you how that affects  
14 transportation. That's a wrong-headed way. We've been  
15 saying that since 1986 on many key decisions.

16           Two, the rail line will not be easy to build and  
17 will likely cost between a billion and a billion and a half  
18 dollars to build.

19           Three, truck shipments could not begin tomorrow.  
20 There aren't enough current designed casks. None of the new  
21 high-capacity casks have been built yet.

22           Four, DOE is indeed proposing legal weight truck  
23 intermodal as a contingency plan in their Record of Decision  
24 that would involve making 12,000 cask shipments over the  
25 first six years in Lincoln, Nye, and possibly Clark County.

1           Five, the projected numbers of shipments based on  
2 DOE's numbers for the first 24 years are 53,000 truck and  
3 11,000 truck and rail cask shipments. For 38 years, it's  
4 109,000 truck and 22,000 rail and truck cask shipments. Now,  
5 in order to get to a small number like Gary was talking  
6 about, train shipments, DOE will have to commit to use  
7 dedicated trains which they have not. Otherwise, they must  
8 evaluate a scenario in which each cask car and its buffer  
9 cars are carried in general freight service on separate  
10 train.

11           Next slide, please, and let me acknowledge my  
12 colleague, Fred Dilger, who is responsible for much of the  
13 analyses and all of the pretty maps in this presentation.  
14 The State of Nevada over the last 10 years has made 10 key  
15 recommendations to DOE on how a risk-based, risk management  
16 should be designed. Unfortunately, the only one that they've  
17 paid significant attention to are concerns about terrorism  
18 and sabotage where they acknowledged in their EIS that the  
19 casks are vulnerable to attacks using military and commercial  
20 explosives.

21           On a number of other key issues; defining mostly  
22 rail, committing to use dual-purpose casks which includes the  
23 multipurpose canister system, use of dedicated trains, full-  
24 scale cask testing, and a proper NEPA process for selection  
25 of the rail spur, they have unfortunately rejected our

1 recommendations. Let us note that the Association of  
2 American Railroads has the same position on full-scale cask  
3 testing. They are not tested now. There is no regulation to  
4 test them to regulatory standards and indeed the railroads  
5 have eloquently written about the need to test them to  
6 determine the failure thresholds.

7           Let's go to the next slide, please? I'm going to  
8 summarize the four points today. I don't want to talk too  
9 much about the standard radiological risk issues which I've  
10 talked about frequently, but I'll be happy to entertain your  
11 questions. Issue one, the UP mainline through Caliente is  
12 just absolutely a poor choice for the origination of a branch  
13 rail line to Yucca Mountain.

14           Two, DOE has consistently ignored the  
15 recommendations that we made almost 10 years ago when they  
16 started scoping for the EIS on how they should put their rail  
17 spur.

18           Three, the Caliente rail corridor is unacceptable.  
19 It's difficult terrain, poses severe impacts, and it has a  
20 strong potential for major adverse impacts on Las Vegas.

21           Point four, after 10 years of saying, please, give  
22 up on this route, we stopped saying, please, give up on this  
23 route and we have filed a lawsuit challenging both their  
24 authority to make these decisions to begin preparation of an  
25 EIS. We have challenged their use of the intermodal

1 composite transportation system without a supplemental EIS.  
2 And, most importantly, we've challenged their failure to  
3 identify and properly study the corridor in that EIS and  
4 particularly their failure to consider properly under NEPA  
5 standards the impact on the current users of the land.

6           Next slide, please. Let's make sure we know where  
7 we are here in Caliente, Las Vegas, Yucca Mountain, the  
8 corridor. We don't have the feeder routes to the corridor.

9           Next slide, please. The existing line, if we  
10 looked at its history, could be summarized thus. Because of  
11 lawsuits and political shenanigans, it took 25 years to build  
12 the line from Utah to California that Caliente is situated  
13 on. As soon as it was built and it opened, ironically just  
14 about 100 years and one month ago, flooding started to being  
15 a factor. It was flooded three times in its first five years  
16 of operation. The UP decided finally to move the tracks to a  
17 new alignment. And, for the last 80 years or so, they've  
18 been constantly upgrading this line and constantly fighting  
19 recurring track washouts.

20           Next slide, please. So, a month ago, this is what  
21 the UP line south of Caliente looked like at Meadow Valley  
22 Wash.

23           Next slide, please. And, the road you came in here  
24 today, this part of Meadow Valley Wash, was also under water.  
25 The water had gone down enough to pass when this picture was

1 taken.

2           Next slide, please. If we were to summarize the  
3 route characteristics, it's rugged terrain. The UP does a  
4 good job keeping it open. It's still rugged terrain and a  
5 poor choice. There are a number of characteristics you would  
6 seek to avoid especially steep grades and tight curves that  
7 require speed restrictions on westbound trains, numerous  
8 tunnels, bridges, culverts, rockfall areas, flood areas, and  
9 an updated accident study is needed. The stretch of track  
10 between Utah and Caliente has had a number of severe  
11 accidents. The stretch between Caliente and Moapa had a lot  
12 of minor derailments. There isn't really now a good  
13 statistical basis for comparing that with the rest of the UP.  
14 It's one of our projects. I certainly hope DOE will be  
15 taking a look at it.

16           Next slide, please. We've been great critics of  
17 probabilistic risk analysis. We've supported some damage  
18 prediction modeling in our State universities. And, in 1991,  
19 an assessment of this graph that was prepared for us made a  
20 peculiarly precise prediction about where flooding might  
21 occur at Mile Post 431.

22           Next slide, please. Sometimes, the people doing  
23 the disaster predictions are right on cue. This is what that  
24 bridge looked like a month ago.

25           The question I want you to consider is this. What

1 happens to the overall transportation system with either  
2 because of the inherent drainage patterns here or because of  
3 short-term or long-term climate cycles, we have this type of  
4 flooding occurring two times every five years, three or four  
5 times every 10 years? We think for that reason alone, but  
6 there are also other reasons, this is a poor portion of the  
7 Union Pacific to design your origination from.

8           Next slide, please. I won't go through these  
9 recommendations in detail except to say that DOE has  
10 generally ignored the advice we gave them on how they should  
11 go about picking the rail spur. We will not pick the rail  
12 spur for them, but we have told them which rail spurs are  
13 unacceptable and we've told them to process the selection  
14 criteria, tried to encourage them to do an objective multi-  
15 attribute utility analysis ranking of the available  
16 corridors. None of these things have been done.

17           Next slide, please. You'll remember Gary's slide  
18 showing terrain. Let me start by showing you the--depending  
19 on how you count them--eight, nine, 10, 11, or 12 north-south  
20 mountain ranges that this route would go across. And,  
21 interestingly, it was the only route we studied that went  
22 east-west against the north-south mountains and it is the one  
23 that they selected.

24           Next slide, please. This has profound  
25 implications. If I'm not wrong about this, Gary showed you

1 profiles on a different scale, but it also showed as built  
2 grade. This is what the terrain along the corridor looks  
3 like and it shows that enormous earth works, enormous cuts  
4 and fills, and enormous number of long bridges are going to  
5 be necessary to build this ramp. And, that means that the  
6 environmental impacts of construction are going to be  
7 especially severe. It also means ironically when you couple  
8 length with terrain and you keep in mind the 12-hour  
9 operating rule for train crews under the FRA regulations,  
10 since DOE took out the midpoint crew change station which was  
11 supposed to be here, every train that follows this route will  
12 be operating under breakneck, threatening conditions. The  
13 speeds will be so slow up and down, but particularly down the  
14 slopes, they'll have to run at a maximum speed of close to 60  
15 miles an hour in the valley bottoms in order to cover that  
16 distance within the 12-hour operating period that's allowed  
17 under the work rules which, of course, are designed to reduce  
18 accidents caused by worker fatigue. This is one of many,  
19 many operational details that DOE has simply sloughed off and  
20 not addressed. The operations must be coordinated with the  
21 site-specific work. It hasn't been and it's a critical  
22 failure in this program.

23           Next slide, please. Again, let's look at the way  
24 the route goes through Las Vegas. Next slide, please. I  
25 won't belabor the point. I'll be happy to answer questions

1 about this. In 1996, we did a worst case analysis of  
2 potential rail routing to Caliente. Now, DOE's base case  
3 shows the shipments coming across Nebraska through Ogden,  
4 Salt Lake, and down this way. They could indeed go that way,  
5 but only, we believe, if DOE requires them by contract to go  
6 that way. We think there's a high likelihood that this is  
7 the way the shipments will go and up to 90 percent of the  
8 shipments to Caliente could go through downtown Las Vegas.

9           Next slide, please. Here is the rail line, the  
10 Union Pacific mainline through Las Vegas. This is the Rio  
11 Hotel and you'll notice that this side of the Strip is all  
12 within the half evacuation zone.

13           Next slide, please. And, standing where I just  
14 showed you at the parking lot of the Rio, this is what we can  
15 see, the proximity. We've done population analysis. Any  
16 hour of the day, we might have to evacuate 80,000 people  
17 within a half mile of the Union Pacific. It is absolutely  
18 unacceptable to the State of Nevada that DOE plan a rail spur  
19 that puts these impacts, even if it were only the six percent  
20 of shipments that DOE has said would go through downtown,  
21 when we know when we analyze market conditions and the way  
22 that the UP routes its business the way that up to 90 percent  
23 of the shipments could go through downtown Las Vegas.

24           Next slide, please. Gary did a good job of  
25 outlining the process, the chronology that DOE used in making

1 their choices. I won't repeat it.

2           Next slide, please. This is the chronology of  
3 actual interactions via the Federal Register and other  
4 documents.

5           Next slide, please. Here, importantly, are the  
6 decisions that come out of what DOE has said. They took  
7 mostly rail. They also clearly identified this intermodal  
8 legal weight truck as their fallback position. At any rate,  
9 there would be a considerable number of legal weight truck  
10 shipments under mostly rail. And, they assumed the lead role  
11 preparing the EIS for themselves at the same time they  
12 selected the Caliente corridor.

13           Next slide, please. This is a land use map.

14           Next slide, please. DOE made two problems in  
15 evaluating land use. One, they confused land use with land  
16 ownership. That's not the way it works in the west. There's  
17 a number of ranchers that are here to tell you later. Number  
18 two, they defined land use impacts as occurring in a very  
19 narrow region of influence; basically, a one-quarter mile  
20 corridor. I hope to show you in a second why that's an  
21 incorrect way to assess land use impacts.

22           We've raised three major issues. We've challenged  
23 DOE's assumption of lead authority. If it turns out that the  
24 DOE is not regulated by the Surface Transportation Board,  
25 they will most assuredly then be liable to be regulated by,

1 at least, four agencies of the State of Nevada. We certainly  
2 look forward to that in the event that we lose that legal  
3 challenge.

4           Secondly, the failure to prepare a supplemental EIS  
5 on intermodal, it's downright crazy. Have you ever seen an  
6 agency that does an EIS and says we rule out this particular  
7 mix for safety and cost reasons and then they come back a  
8 year later and say we were wrong, we were premature, we'd  
9 actually like to have that option back.

10           But, most importantly, we're concerned about the  
11 way that they failed to properly evaluate the Caliente  
12 corridor.

13           Next slide, please. I'm going to have to cut  
14 through because I don't want to take time away from citizens  
15 who are here. I want you to pay attention to this paragraph,  
16 please, and the language that DOE actually used. They  
17 admitted that Caliente was not the best route, not the  
18 cheapest route. They said in their Record of Decision they  
19 picked it because they thought it would generate the least  
20 lawsuits. Now, if that isn't waving a red flag in front of a  
21 lot of people who are lining up to sue them, I don't know  
22 what is. But, it's a very peculiar Record of Decision.

23           Next slide, please. Land use. Okay. Suppose  
24 we're standing here in Timber Mountain Pass and this is Coe  
25 Valley. I want to do two things with this one slide. One, I

1 want to show you where the next picture was taken facing this  
2 direction. Also, I want to show you an example of where  
3 building a rail corridor across the valley limits the north-  
4 south use of this valley by the ranchers who now need to move  
5 their animals around, as Gracian Uhalde can tell you, about  
6 where they have to be grazed at different times of the year.

7           Next slide, please. This is the view looking to  
8 the west through Coe Valley into Garden Valley. Garden  
9 Valley is where there are severe land use impacts.

10           Next slide, please. In this valley, now we're  
11 looking from the west towards the east, this is where  
12 Heizer's City sculpture is located, somewhere within 10 miles  
13 of this location. Somewhere also in this location, there are  
14 two major historic sites and, of course, there are conflicts  
15 with grazing allotments.

16           Next slide, please. If we move to the south, there  
17 is a possibility of avoiding this. I was hoping Gary was  
18 going to tell us he had picked an alternate route. We  
19 believe there will be another major lawsuit if DOE doesn't  
20 avoid Garden Valley. They've been looking at doing this by  
21 making a 20 mile dogleg through Murphy Gap. It costs about  
22 \$60 million additional.

23           Next slide, please. And, because of the  
24 susceptibility to massive flooding in this gap, this is also  
25 a difficult crossing.

1           Next slide, please. Reveille Valley shows another  
2 pattern of land use impact. In this case, the railroad goes  
3 north-south bisecting the length of a major valley. This is  
4 the valley where the Fallini family has been ranching for  
5 more than 100 years. It's a very unusual operation. It's  
6 probably the largest single-family operated ranch in the  
7 United States. To give you a sense of scale, the land area  
8 they ranch is about the size of the State of Rhode Island,  
9 just a little under 1,000 square miles. They use an open  
10 range, run of the valley approach in which the railroad will  
11 separate their primary grazing areas from their water  
12 sources.

13           Next slide, please. And, this is Joe Fallini at  
14 Cal Canyon (phonetic). Not coincidentally, there are  
15 difficult terrain features. We estimate a 700 foot bridge,  
16 50 foot high, one of somewhere between 20 and 30 bridges  
17 greater than 200 feet that we think will have to be  
18 constructed on this route.

19           Next slide, please. Schematic of a rail bed.  
20 Without getting into the details, let's quickly look at three  
21 pictures of railroads for those who don't see a lot of  
22 railroads.

23           Next slide, please. Meadow Valley, here, you see a  
24 rail bed that's about eight feet above the surrounding  
25 ground.

1           Next slide, please. Here near Elgin, you see a  
2 rail bed that's about two and a half to three feet above the  
3 surrounding land.

4           Next slide, please. Here near Crestline, you see  
5 how underpasses are normally built where bridges and culverts  
6 exist. Imagine trying to make 2,000 head of sheet go through  
7 this hole under the railroad.

8           Next slide, please. My conclusion, think about the  
9 railroad not as a railroad, but a proposal to construct a 300  
10 mile long wall of crushed stone, 10 feet thick at its  
11 narrowest, 30 feet thick at its broadest. It can be a foot  
12 high, it can be eight feet high. It's probably going to  
13 average about three feet high. Some cases, it may be fenced.  
14 Despite the overpasses, underpasses, and at grade crossings,  
15 it will be a significant barrier to the users of land. It  
16 will adversely affect all the current users of land and, most  
17 importantly, the region of influence, the area in which those  
18 adverse impacts exist, will extend out in some cases five, 10  
19 or more miles from the rail line itself.

20           Thank you very much. I realize I've gone a couple  
21 minutes over my allotted time and again I appreciate all of  
22 you coming to Nevada to hear from us on our home turf.

23           ABKOWITZ: Thank you, Bob. I think you did a terrific  
24 job in compressing a lot of information into a short amount  
25 of time. I know this is one time where I'm going to pay

1 attention to the transcripts in order to go back and try to  
2 hear everything that was said.

3           We do have time for some questions of Board members  
4 and we'll start with John Garrick.

5           GARRICK: Bob, I'm must kind of curious. I'm impressed  
6 with your passion about the branch rail line and the issues  
7 of safety and so forth with respect to the shipment of  
8 radioactive waste. Does this same level of passion apply for  
9 other hazardous material transportation issues?

10          HALSTEAD: It's a mixed bag. It generally is--

11          GARRICK: --these corridors you pointed out, the amount  
12 of hazardous materials that are flowing through those is  
13 unbelievable and I'm just curious as to the consistency of  
14 the state with respect to its philosophy and attitude towards  
15 the transport of hazardous materials in general. And,  
16 especially I'm interested in that given the safety record of  
17 the shipment of radioactive materials versus the safety  
18 record of the rail and truck shipment of other hazardous  
19 materials. I'm seeing a manifestation of considerable  
20 inconsistency.

21          HALSTEAD: Well, first of all, before we get into the  
22 risk assessment, let's remember I chose today to speak about  
23 non-radiological impacts because the ranchers always--and  
24 even in my presentation--they get left to the end and don't  
25 get full--so, let's not forget that a major issue here has

1 nothing to do with radiological risks or HAZMAT  
2 transportation risk. It has to do with the impact of this  
3 railroad.

4           Secondly, you will remember that the State of  
5 Nevada was the first party to pick a preference for rail and  
6 we said rail properly construed is the least bad way to ship  
7 the waste across country and to ship it in Nevada.

8           Three, we've asked for these extra regulatory  
9 enhancements party because we're not impressed with the  
10 statistical record. It's true that there haven't been any  
11 releases or deaths during the nuclear waste transportation  
12 since the 1960s, about the '71 time frame. But, their  
13 statistical accident record is really only average and we  
14 believe that once you have this enormous increase in the  
15 number of shipments, it's a good idea to take these extra  
16 risks.

17           I can't argue with you on a strict cost benefit  
18 analysis that we can justify the cost of every regulatory  
19 enhancement we've asked for. And, by the way, the State of  
20 Nevada did attempt to regulate shipments of explosives in the  
21 same way that we're talking about doing this back in the '80s  
22 and, in fact, it took many years before we were preempted.

23           GARRICK: I'm also thinking of things like the huge  
24 quantities of ammonia perchlorate that are right in the  
25 neighborhood of Las Vegas.

1           HALSTEAD: I think that that's another good argument.  
2 My personal opinion is that through speed controls and other  
3 administrative controls, the risk of accidents for all HAZMAT  
4 shipments through urban areas can be greatly reduced.  
5 However, the possibility that those might be the locations of  
6 terrorist attacks is an entirely different matter. Beyond  
7 that the literature that we've done, some of which I agree  
8 with and some of which I have questions about, on perception  
9 of risk and the way that that has direct economic impact--

10          GARRICK: I'm not talking about perception.

11          HALSTEAD: --also comes into play.

12          GARRICK: Yeah. But, I'm not talking about perception.  
13 I'm talking about real evidence, real information, real  
14 materials, real material transport--

15          HALSTEAD: Well, let me give you an example.

16          GARRICK: --and the experience associated with that.

17          HALSTEAD: We just finished a very complex modeling  
18 effort that was carried out by Miles Griner, a respected fire  
19 engineer at UNR (phonetic), is the only person I know who is  
20 concurrently funded both by DOE and Nevada to do technical  
21 research on cask performance and fires. His new research  
22 shows that the temperature failure thresholds for key  
23 components of a truck cask reach their critical temperatures  
24 when the regulatory fire is run for two hours instead of 30  
25 minutes. That's not a great margin of safety and

1 particularly when the Department is proposing to send truck  
2 casks into rail environments. I believe that there are a  
3 large number of safety issues, but I would be the first  
4 person to agree that other hazardous materials should be more  
5 strictly controlled and I would be the first person to agree  
6 that the nuclear industry, relatively speaking, has a good  
7 safety record in avoiding catastrophic events. That isn't  
8 really the issue. The issue is whether people in Nevada are  
9 entitled to the additional protection that we believe we need  
10 because of uncertainties in the calculation of risk and  
11 because of the extent to which the state's economy is  
12 dependent on that core area in Nevada, all of which is  
13 located within two to three miles of the mainline. But, your  
14 point is well-taken, sir.

15 ABKOWITZ: Howard Arnold?

16 ARNOLD: Arnold. Do I recall at a previous meeting  
17 hearing about your recommendation of a route in from the  
18 north to Yucca? Could I hear that again?

19 HALSTEAD: Well, off the record at various times over  
20 the last 10 years, people who work for Nevada have talked  
21 candidly with members of this Board, representatives of DOE  
22 about a number of alternatives that we feel DOE did a good  
23 job of identifying. I was thinking someone would ask this  
24 question. In 1990, DOE did a pretty good job of identifying  
25 all the useful options and we had extensive interaction with

1 DOE between 1990 and 1992. I must tell you that since 1992,  
2 I have not once been invited to have a meaningful off the  
3 record discussion with anyone at DOE who was doing rail  
4 planning in a way that--whatever allowed us to express the  
5 state's knowledge about these alternatives. But, we're not  
6 going to pick an alternative route now for two reasons. One,  
7 because we don't feel it's our responsibility, but secondly,  
8 what we're asking the Court to do is overturn DOE's selection  
9 of Caliente, make them go back and do an EIS that considers  
10 these routes and other routes, and anything that I might say  
11 today on the record would unfortunately bias that honest  
12 process. But, yes, it's true; I have talked off the record  
13 about alternative routes and at some future time I hope it  
14 will be appropriate to do that again. This route is the  
15 worst possible route from a safety standpoint, land use  
16 standpoint, predictability standpoint that DOE could have  
17 picked with the possible exception of one of the routes in  
18 Clark County where because they failed to secure their right-  
19 of-ways, the BLM released that land for other development.  
20 So, that technically fell off. And, we certainly had the  
21 discussion about the Air Force concerns at Chalk Mountain.  
22 The Air Force has said the same thing to us that they've said  
23 to other people, that they just aren't going to yield.  
24       ARNOLD: Without you having to be specific, are there  
25 other routes where these other impacts are acceptable?

1           HALSTEAD: The key things in building a rail route,  
2 anyone, is keep it short, keep it level, keep it straight,  
3 and there are a number of options that are much better on  
4 those regards than Caliente. Unfortunately, some of them  
5 impact the State of California and it is our thinking that  
6 DOE did not want to politically tackle the State of  
7 California. But, there are organizations in California and  
8 organizations in Nevada that we hope the Court will direct  
9 DOE to study when they strike down the selection of Caliente.

10          ABKOWITZ: Andy?

11          KADAK: Kadak. You've confused me again. California,  
12 give me a hint as to what you're talking about?

13          HALSTEAD: Well, I'm going to leave this as an exhibit  
14 for the Board. All the routes that DOE should have  
15 considered in its EIS in my opinion are in this report. For  
16 reasons I do not understand, they found convenient ways to  
17 eliminate routes that would have had great potential.

18          KADAK: Because I was listening to your criteria;  
19 shortest, straightest, and what was the third one, level.

20          HALSTEAD: Yeah.

21          KADAK: Minimize grade. By the way, you know, that's a  
22 really big issue from a railroader's standpoint, not from a  
23 HAZMAT standpoint. But, you know, you run on traction. So,  
24 the grades are real important.

25          KADAK: I understand. Okay. We'll take a look at that.

1 The question I have is now relative to the ranching question  
2 and the farming question. Are you suggesting that there's no  
3 way to make a railroad such that cattle or farmers or animals  
4 can cross railroads? Is that the implication because you  
5 called it a wall and I've seen a lot of animals crossing  
6 railroad tracks.

7 HALSTEAD: Well, the ranchers are very concerned, as  
8 they'll tell you, about whether they can make sheep and  
9 cattle cross where the top of the railroad above the  
10 surrounding land may even be two or three feet. The problem  
11 with the underpasses which is what you would use is that  
12 their frequency is a big issue. Also, you have situations  
13 like Reveille Valley where the Fallinis work where they'll  
14 tell you on a daily basis they crisscross the valley  
15 inspecting their pipelines and their water sources. There  
16 are some places where there is an absolute irreconcilable  
17 land use conflict between the railroad and the ranching  
18 operation. In other places, it is a matter of inconvenience  
19 and compensation, but it will disrupt the operation. So,  
20 it's not the same degree of conflict in each case. But, my  
21 argument is the Department should have gone out and  
22 identified these things 10 years ago. If they had properly  
23 identified these land use conflicts, they could not possibly  
24 have selected the Caliente route. That, frankly, will be one  
25 of the key issues in our law case. There's the timing at

1 which one needs to acquire this information.

2           Now, that said, the original route for the Caliente  
3 rail spur whip along the highways, the highway you drove in  
4 on today. It required a tunnel at Hancock Summit. I'm not  
5 sure that the Fallini family would feel better about having  
6 the railroad go in front of their ranch house as opposed to  
7 through their grazing areas, but in fact, the original  
8 Caliente proposal did not have these impacts and the only  
9 reason I ever heard for DOE abandoning it was cost. In the  
10 end, it was a \$3 million wrangle over building tunnels which  
11 may end up looking cheap compared to the delays that are  
12 going to result.

13           As a general premise in siting noxious facilities  
14 or perceived to be noxious facilities, you are better off  
15 picking an area where you understand the impacts and where  
16 you work on land that has previously been disturbed by  
17 humans. In this case, DOE took the original Caliente route  
18 which went through a corridor already degraded by humans  
19 where we knew where the environmentally sensitive areas were  
20 and kicked it 40 miles to the north through areas that are  
21 not so well-known, where the terrain is more difficult, where  
22 human footprint is much less heavy. I think there are some  
23 very key issues here as to how DOE made their decisions.  
24 And, I will argue that the fact that the City of Caliente in  
25 Lincoln County encouraged and lobbied for this rail line

1 probably had some impact on the Department's ignoring certain  
2 evidence and deciding it would be better to pick a route  
3 where there were some people who were allies proposing it.  
4 There were no significant bodies of population anywhere else  
5 in Nevada who wanted the rail spur to come from their area.  
6 At least, I'm not aware of them.

7       ABKOWITZ: Okay. Thank you, Bob.

8               We're going to move on now to our next set of  
9 speakers representing County governments. If a rail branch  
10 line is built to Yucca Mountain, it will pass through  
11 Lincoln, Nye, and Esmerelda Counties. Today, we have two  
12 speakers who will present their views on those counties in  
13 terms of development of a rail branch line. One of those  
14 discussions will be Mayor Phillips who we had an opportunity  
15 to hear from this morning and I also wanted to thank him for  
16 the tour that he gave the Board members and staff at lunch.  
17 He will be joined by Candice Trummell who is the chair of the  
18 Nye County Board of Commissioners. I don't know whether this  
19 is a tag team thing or whatever, but I will leave that up to  
20 the two of you.

21       TRUMMELL: I'd like to thank the Nuclear Waste Technical  
22 Review Board for giving us this opportunity to speak before  
23 you and specifically thanking Mr. Fehringer for setting this  
24 up. We always appreciate an opportunity to have our views  
25 expressed. We'll go ahead and start.

1           What we plan on accomplishing today with our  
2 presentation is to describe our needs and concerns of all our  
3 jurisdictions since Lincoln County, Esmerelda County, the  
4 City of Caliente, and of course, Nye County as the site  
5 county are absolutely the most impacted counties and  
6 jurisdictions in the nation. We welcome and encourage any  
7 assistance and advice you all might have as far as how we can  
8 accomplish our goals and meet our needs and objectives.

9           In the past, I know that Nye County specifically  
10 and also some of the other jurisdictions have gone into great  
11 detail regarding our affected status and just how affected we  
12 are. I believe you all already know that Nye County is the  
13 site county and you already have been in Caliente and Lincoln  
14 County to see that the proposed rail corridor will be going  
15 right through here. So, we already have covered that, I  
16 think.

17           Next slide. The jurisdiction belonging to Caliente  
18 corridor, the City of Caliente, Esmerelda County, Lincoln  
19 County, and Nye County have in recent months achieved an  
20 unprecedented level of cooperation. We certainly have some  
21 different needs, some different concerns, some different  
22 program goals and objectives, but ultimately we feel that the  
23 most successful project will be one where we're all working  
24 together to make sure that the needs of all of our citizens  
25 are addressed and we're working cooperatively with DOE.

1           Next slide, please. We define success not as  
2 putting up procedural roadblocks or making DOE do this  
3 guessing game as to what our needs are and what we're going  
4 to be accepting and what we're going to be rejecting.  
5 Rather, we think success is maximizing the positive impacts  
6 and minimizing the negative impacts of the Yucca Mountain  
7 Project. We feel to do this we need to be in a constructive  
8 dialogue with DOE at all points during the policy making  
9 rather than just saying, no, that's not acceptable, try  
10 again, and we'll tell you whether or not that's acceptable.

11           Next slide, please. DOE continues to make the  
12 transition from the site characterization phase into a phase  
13 that we call the transportation policy phase. This is a  
14 crucial phase for all of the corridor communities because  
15 many of the key decisions that affect our future will be made  
16 in the next few years. As you heard from Gary Lanthrum  
17 earlier, there's still many policy decisions that are left to  
18 be made and those are going to greatly impact our citizens.

19           The transition has created many challenges for the  
20 affected units of government. Already, we have citizens that  
21 are feeling impacts. In Nye County, we have the largest area  
22 in the State of Nevada that provides 40 percent of the milk  
23 for the State of Nevada and it was trying to get funding for  
24 a bottling plant and some other projects and some of the  
25 lenders were a little apprehensive due to its location right

1 next to Yucca Mountain. So, we're already experiencing  
2 impacts and I wanted Mayor Phillips to share a story about  
3 some of the impacts some of the ranchers in Lincoln County  
4 are feeling.

5       MAYOR PHILLIPS: Thank you. As the branch line takes  
6 off at approximately Highway 93 heading for Bennet's Pass, we  
7 had one rancher that is in the process of withdrawing public  
8 lands to complete a full circle for his pivot and this  
9 withdrawal immediately affected that process that had been  
10 ongoing and put a halt to it. That has been cleared up quite  
11 a bit now because BLM went to work on that and we've kind of  
12 ameliorated that. You gentleman need to know that there have  
13 been immediate impacts with the withdrawal and with this  
14 process.

15       TRUMMELL: So, with that, we're also facing challenges  
16 in our oversight program due to the change in what we need to  
17 really be overseeing and the increasing strictness, I guess,  
18 of the application of the Nuclear Waste Policy Act with  
19 regard to how we can spend our oversight funding. There are  
20 impacts that we feel we need to assess and activities that we  
21 feel we need to engage in that are disallowed due to the  
22 current environment at DOE with all of the IG audits and  
23 other things like that. So, while DOE is working very hard  
24 on developing constructive relationships and I certainly am  
25 appreciative of John Arthur and of Ted Garrish and of all of

1 the people who work with them and of Margaret Chu for all of  
2 the work that they have done to develop a constructive  
3 relationship, we think that the attorneys at DOE might be  
4 part of the problem. We think that they might be  
5 interpreting the law a little bit too strictly and so we're  
6 trying to figure out how to address that concern.

7           Next slide, please. Addressing the waste  
8 management transportation needs and concerns of those most  
9 impacted requires success in bringing the technical and  
10 policy world together and giving the transportation corridor  
11 communities the latitude and authority to be fully engaged in  
12 the policy process. There are again so many decisions that  
13 need to be made and we don't feel that we are quite at the  
14 level that we think we should be at with having the resources  
15 necessary, to gather the information necessary, to give the  
16 appropriate feedback to DOE, nor do we feel that we have as  
17 many opportunities as we would like to be fully engaged in  
18 that process. We'd like to be at the table to make sure that  
19 our citizens' needs are being addressed and we're not quite  
20 there yet.

21           Next slide, please. How do we approach Yucca? Our  
22 approach is actually very much like the State of Nevada's  
23 original approach to this project. However, when the urban  
24 economy transitioned from dependency on Federal jobs in Las  
25 Vegas and such, it became politically correct to oppose the

1 project and that's been the stance of the state ever since.

2           Next slide, please. Here, we have an assembly  
3 joint resolution passed in 1975 that I'd like to read some  
4 key points from. "Whereas, the people of southern Nevada  
5 have confidence in the safety record of the Nevada Test Site  
6 and in the ability of the staff of the site to maintain  
7 safety in the handling of nuclear materials and, whereas, the  
8 existing facility and the years of expertise in nuclear  
9 material handling at the Nevada Test Site are a tremendous  
10 existing resource, be it resolved by the assembly and the  
11 Senate of the State of Nevada, jointly, that the legislature  
12 of the State of Nevada strongly urges the Energy, Research,  
13 and Development Administration to choose the Nevada Test Site  
14 for the disposal of nuclear waste."

15           Next slide, please. Clark County, this is a  
16 resolution from Clark County passed in 1974. The City of Las  
17 Vegas, Lincoln County, and Nye County also passed similar  
18 resolutions. The key point is highlighted, "The Board  
19 supports the designation of the Nevada Test Site as the  
20 primary storage site for radioactive waste."

21           Next slide, please. So, our approach since 1974  
22 and here in 2005 is largely the same. While our past shapes  
23 are a vision of the future, Esmerelda and Nye County have  
24 economies that still remain largely dependent on the federal  
25 sector and, of course, Lincoln County has a long history of

1 hazardous material rail transport. All of our jurisdictions  
2 are committed to a successful project, but maximizes economic  
3 opportunities, but primarily makes sure that the health and  
4 safety of our citizens is protected.

5           And, now, I'm going to turn it over Mayor Phillips  
6 so he can discuss our future and our future approach to the  
7 project.

8           MAYOR PHILLIPS: Thank you, Commissioner Trummell. It's  
9 always a pleasure to stand with her because she's bright and  
10 articulate and very capable.

11           It seems to me that based on Mr. Halstead's  
12 suggestion, the best route to go to rail with Yucca Mountain  
13 would go right along parallel to 95 right out of the middle  
14 of Las Vegas. It's the shortest, it's the flattest, and it's  
15 the most direct. Well, we know that won't work. It  
16 highlights the State's approach. Without being judgmental as  
17 to the correctness or the incorrectness of that approach, we  
18 all know and it doesn't take too much intelligence to  
19 recognize the obstructionist approach to this thing. If it's  
20 not one thing, it's another. It almost seems that here in  
21 cow country we say, "one would complain if they were hung  
22 with a new rope." We think from a local perspective, it's  
23 regrettable and time to quit blowing on the State of Nevada  
24 approach. We're have a realistic focus and need to focus on  
25 the future.

1           Our nation needs nuclear technology. There's no  
2 reason why an analyst can't really realize and see that, the  
3 things that face this nation. There will be a central  
4 storage facility, no way we can really protect the public to  
5 being actively engaged in this process. We don't wish to  
6 demean anyone, neither the State's position nor those that  
7 choose to oppose the project. We have some safety concerns  
8 of our own, but we just don't believe it's beneficial to  
9 attempt to tangle everything up in the process. Not this,  
10 now this, not this, now that. We must take a substantive  
11 approach to properly addressing questions of safety.

12           So, our agenda from the inter-jurisdiction here  
13 along the Caliente corridor approach is to stay focused on  
14 substance and encourage others to take the focus off merely  
15 intervention. To be involved in a wide range of decisions by  
16 overcoming bureaucratic hurdles. Now, that's the hardest  
17 task we have. Building a railroad is simple compared to  
18 overcoming bureaucratic hurdles. To continue  
19 intergovernmental cooperation so that corridor jurisdictions  
20 can maximize repository and transportation system  
21 opportunities so we can get high quality jobs and business  
22 opportunities created in rural Nevada. We want to safeguard  
23 property rights along the Caliente corridor.

24           It's our agenda to develop transportation  
25 contingency plans, develop emergency management capabilities.

1 As I've mentioned before, we do that, frankly, as a plus.  
2 If emergency management capacity comes with these shipments,  
3 it enhances our ability to meet our existing need. We want  
4 to be involved in transportation systems, operational  
5 procedure decisions, in developing high quality communication  
6 systems, and improving emergency health services. Anyone who  
7 has driven around the north end of the Nevada Test Site knows  
8 we could show you some decent communication equipment out  
9 there that would be a blessing to the ranchers.

10 Now, the corridor communities, those jurisdictions,  
11 the city and the three counties, they're working closely  
12 together and to really analyze the effect local citizens have  
13 due to this whole effort, in a cooperative agreement with the  
14 Department of Energy and the city for the group has been the  
15 agency that's been conducting the study referred to as the  
16 Caliente lower corridor, people and places. Our local folks  
17 are going out and visiting one on one with those that either  
18 are owners or users of the land, far from public meeting, to  
19 hear what they really feel and think and what their real  
20 impacts are. They're doing great work and it's because we  
21 love and respect those people and want to make sure their  
22 voices are heard in ways that perhaps wouldn't be heard.

23 We're developing input on local economic  
24 development opportunities associated with the rail corridor  
25 here in this area. Our goal is a rail alignment that

1 addresses local property owner concerns to the maximum extent  
2 possible and an alignment that (inaudible) as necessary to  
3 maximize economic benefits. We continue to meet directly  
4 with the affected individuals to understand their views  
5 concerning mitigation and compensation in the event that the  
6 final alignment doesn't solve the problems. We must be  
7 realistic.

8           Our approach is to work constructively with all  
9 parties involved with the goal of bringing reasonable people  
10 together to identify safe and economically viable approaches  
11 to transporting spent fuel and high-level waste to Yucca  
12 Mountain. Obviously, we think that's the best way to go.

13           Thank you. Commissioner? She'd be happy to  
14 entertain any questions you might have.

15           ABKOWITZ: Abkowitz, Board. I'll start off with a  
16 question. In the slide show, you made reference to the  
17 desire for your organizations to be fully engaged in the  
18 process. So, I took that to mean that you're supportive of  
19 what's going on here, but you don't feel that your points of  
20 view are being completely heard. I guess, my question is my  
21 understanding is that DOE has sort of a stakeholder group  
22 called TEC, I believe, it is and that's kind of looking at  
23 representatives from industry and government and emergency  
24 response and so forth around the country. But then, they  
25 also have contractual relationships with four regional

1 government bodies, the Western Governors Association being  
2 one of them. Are you finding that you're not having a  
3 communication channel through the regional group or directly  
4 to DOE and that's the problem or how--I guess, enlighten me a  
5 little more as to exactly what you're looking for that you're  
6 not getting?

7 TRUMMELL: Actually, I don't think that the issue is  
8 that when we voice our opinions that they're not being heard.  
9 Certainly, we don't get everything that we want or we  
10 wouldn't, you know, have as many budget problems as we all  
11 have here in rural Nevada. But, I think the main issue is  
12 that because we are rural and because we don't have a  
13 tremendous amount of resources like the State or Clark County  
14 might have above and beyond oversight money to participate in  
15 the process and because our oversight capability and scope of  
16 oversight has been narrowed so greatly that we don't have,  
17 number one, the notice that we feel we need as far as what  
18 decisions are coming up because DOE obviously has an internal  
19 process that they have to follow and there's always internal  
20 things going on that we may not be aware of because we aren't  
21 a part of that process in any way officially. And, number  
22 two is that even if we do have enough notice, we don't  
23 necessarily have the resources to hire individuals to go and  
24 do the appropriate assessment of whatever the particular  
25 issue is so that we can give actually valuable input to DOE.

1 So, I don't think personally that DOE is just not listening  
2 to us or is not willing. I think it's a matter of lack of  
3 resources and lack of being a formal part of their process.

4       MAYOR PHILLIPS: May I just add part of that there might  
5 be the fact that the individuals at the Department of Energy  
6 are very willing to listen, but the Department is a very huge  
7 institution and this is a very complicated and complex  
8 process. And, sometimes really seriously being heard by the  
9 institution and having that institution able to respond  
10 promptly is a difficult thing.

11       ABKOWITZ: Okay, thank you.

12               George?

13       HORNBERGER: Bob mentioned some potential technical  
14 difficulties such as building the wall and not having people  
15 or animals being able to move expeditiously. Have you any  
16 studies of your own or do you have confidence that the  
17 Department of Energy will resolve these issues?

18       TRUMMELL: Go ahead?

19       MAYOR PHILLIPS: We've done a number of studies relative  
20 to the rail portion of the corridor and they're on file in  
21 our local office here in terms of the risks associated with  
22 rail, etcetera, and so forth. I was raised as a cowboy. I'd  
23 do that now if you could make a little money at it, I guess.  
24 It is an issue to try to move cattle over certain obstacles  
25 and things. Their creatures of habit and they have to be

1 trained to do certain things and it does present some  
2 difficulty.

3           I'd like to comment a little about the local  
4 flooding. I'm one who was standing knee deep in the water as  
5 we battled this thing. There's been a lot of mention about  
6 the flooding and whatnot. Now, this is not the largest high  
7 water event that we've seen around here. And, furthermore,  
8 this would have been a non-issue and a non-incident had the  
9 U.S. Army Corps of Engineers kept this channel that's  
10 original and should have been restored back. We wouldn't be  
11 having this discussion. So, it's a management issue. It's  
12 nothing more, nor less.

13           And, that's really the way we ought to look at this  
14 railroad. It's a management issue. Built intelligently,  
15 provide for these contingencies, and keep that up, and it's  
16 doable. It's not big deal.

17       ABKOWITZ: Okay. Anyone else?

18       (No audible response.)

19       ABKOWITZ: Okay. Thank you very much.

20       MAYOR PHILLIPS: Thank you.

21       ABKOWITZ: Not only did you put us back on schedule, you  
22 put us ahead of schedule.

23           Our next scheduled speaker and I just wanted to  
24 confirm that he's here is Ian Zabarte. Is Ian in the  
25 audience?

1 (No audible response.)

2 ABKOWITZ: Okay. I got a heads up just a couple minutes  
3 ago that he might not be with us today.

4 Is Calvin Myers here? Calvin Myers, are you here?

5 MYERS: Yeah.

6 ABKOWITZ: Okay. I know that you signed up for the  
7 public comment period, but it was suggested to me that you  
8 might want some extra time to talk about some of the Native  
9 American perspectives on this subject. So, we'd like to  
10 invite you to come up and address us now if you're willing.

11 MYERS: Good afternoon. My name is Calvin Myers. I'm a  
12 member of the (inaudible) of Paiutes. I'm 4/4 Paiute. My  
13 current position with the Tribe is I'm the general assistant  
14 program coordinator for the Environmental Protection Agency,  
15 Region 9. I am also a council member elected last December,  
16 about a month or so ago. I think I'm the only one in this  
17 room that really has a right to welcome you to this land  
18 because this land is not the City of Caliente, the county of  
19 Lincoln, or the State of Nevada. This land is my land. This  
20 is where my people have been for many, many years. We've  
21 gotten kicked out. You talk about cattle; we've been treated  
22 worse than a cow. That's just kind of a summary of my  
23 background.

24 What really brings me here today is the State of  
25 Nevada was gracious enough to give to the Tribe a little bit

1 of funding and it stopped quite a while ago. When there was  
2 enough funding, I was one of the people that worked for the  
3 Tribe following the Yucca Mountain Project. And, I'm  
4 grateful that they gave us the opportunity to be able to  
5 speak and to be able to be a little bit knowledgeable--have a  
6 little bit of knowledge about the Yucca Mountain Project and  
7 nuclear waste, in general. I'm one of those people that  
8 formed the sub-writers group that you heard about earlier.  
9 When we did take a tour, we only got so much of the route.  
10 Maybe in three days of 600 miles of travel, we might have  
11 been a half mile of the whole route and they wanted us to  
12 write on our views of the route. I'm not sure if the Board  
13 knows about this. This is kind of like the way we're  
14 treated. There were things that really opened my eyes this  
15 afternoon or this morning--well, this afternoon, yeah. When  
16 Bob had talked about the southern route of the rail coming up  
17 to Caliente, if that's a possibility it's going to go about a  
18 mile from my house on my reservation. You know what? I'm  
19 not an affected party. I'm just another person out there.  
20 In fact, I'm not even a person because we're not--the Yucca  
21 Mountain Project does not see us as affected, not a unit of  
22 government, but affected people because that's what we really  
23 are. And, we're affected not just by the rail route, in  
24 fact, there's a truck route. We're affected by the whole  
25 global issue of the nuclear waste coming to Yucca Mountain.

1           Some of those issues are that if a cousin of mine  
2 dies, my cousin just doesn't live on my reservation. We live  
3 all over the country. What we do is we will (inaudible) the  
4 funerals for our people. It may take us a week or so to get  
5 the funeral together because we have to get our people out,  
6 get back home to pay our respects and give those people their  
7 rightful right to go to the next plain after they're dead.  
8 That could be impacted by a lot of these shipments if there's  
9 road closures. I mean, if there's a road closure up the rail  
10 line, it's just something so we can't get across it. There's  
11 a lot of those issues that I bring up, but always said, well,  
12 we don't want to hear those things. We want to know just  
13 what the technical issues are. Those things really bother  
14 me. The spirituality of my people--they're not just my  
15 people, but the people across the United States that are from  
16 the land that--they don't own the land, they're from the  
17 land. The land owns us. Their spirituality is going to be  
18 impacted. Mine will be, too, also even if it's built up here  
19 in Caliente because of things--of the route of the  
20 transportation.

21           Also, if that rail line comes across my  
22 reservation, something happens there, we're what they call  
23 SOL. Most of you guys might know what that means. Because  
24 we have two policemen, we have no fire, we have no emergency  
25 management, we have no ambulance. There's, at least, 12 to

1 15 miles of rail on the reservation. We've tried to work  
2 with DOE, but they won't allow us to. We hold meetings every  
3 once in a while, but that concerns cultural issues. Cultural  
4 issues in my mind is only a piece of the pie.

5           The other piece of the pie is my reservation's only  
6 economic base is through a store that's just off the freeway,  
7 off the interstate which is within a quarter of a mile of the  
8 rail lines. I have concerns about that because if that  
9 closes or if anything impacts that, then that actually  
10 impacts us as a Tribe financially. DOE doesn't give us a  
11 penny. I want you to know that. DOE has never given us a  
12 penny this whole time they've been looking at Yucca Mountain.  
13 The only time we ever got any funding was through the State.  
14 Clark County, they've given us some, too, which is small,  
15 but it helps put gas in the car. My time is never  
16 compensated for, not any more, not for the Yucca Mountain  
17 stuff.

18           The Tribe has to allow me to use a vehicle because  
19 we don't have one. You talk about not having people to get  
20 out to places. Well, you've got a heck of a lot more people  
21 here in this little town here than we do as a whole  
22 reservation. I'm a council member which is like your County  
23 Commission except I have a legal right to speak straight to  
24 the government, but the government will not speak to me  
25 concerning DOE. They won't come out to our reservation.

1 They don't ask to come out to the reservation. They tell us,  
2 you have to ask us to come out to your reservation to speak  
3 to you, and if I was somebody off the street and I knew  
4 nothing about the Yucca Mountain Project, nothing about  
5 nuclear waste, they could come out to my reservation and I  
6 could say, hey, well, you've done a great job. You know  
7 what? I don't know a damn thing that he said. So, how do I  
8 know that that's going to impact me or not?

9           And, that's one of the biggest things that I've  
10 always tried to tell the DOE, the Yucca Mountain Project,  
11 that you (inaudible) informs the government because the  
12 government--we can't do anything if we don't know what we're  
13 doing. And, that's one thing we don't know about. I know  
14 about it, but not the rest of my council, they don't know  
15 about it. There's a lot of stuff that I know because I've  
16 been working on this thing since '92. A lot of the issues  
17 that they would bring up, they're like tossed aside. When  
18 they did the EIS scoping meetings, I didn't attend. I came  
19 up here to Pioche and gave a letter to Robin. In the letter,  
20 the Tribe asked to be a cooperating agency and we were  
21 rejected. We asked many years ago twice, I think, to be an  
22 affected Tribe and we were rejected. I don't see anybody in  
23 this room that's more affected by the shipment of spent  
24 nuclear fuel than the Tribal people. Because we don't live  
25 here doesn't mean that we're not affected. We're affected a

1 heck of a lot more. We're affected by our culture.

2           I've been up here a lot in the mountains up here  
3 near this town. When I was a boy, I used to come up to pick  
4 pine nuts. Picking pine nuts, well, this is not bumping your  
5 car against a tree and hoping some falls down. Picking pine  
6 nuts for us is we take a whole week out of our lives to come  
7 up here. And, it's not just something to eat. It's not just  
8 something to take home. What it was is there's a way we do  
9 it. We pray to the ground, we pray to the sky, we pray that  
10 the trees will provide for us for the next year. We tell  
11 stories. That's how we pass on history. If something  
12 happens to this, part of my culture is gone. It cannot be  
13 brought back.

14           The animals that live here, I think of the animals  
15 that live around here; the birds, the mountain lions, deer,  
16 snakes, the fish in the water. They're my people. They're  
17 my people because that's what my culture taught me. My  
18 culture taught me that if I don't protect them, then I've  
19 lost something that I can't use. They were put here on this  
20 earth for us to use. That's what my culture told me, that's  
21 what I've been taught. And, if can't protect them, many  
22 years to come they won't be here for us. We see that now.  
23 In fact, one of the things that I see right now is the pine  
24 nut issue. Commercial people go out and bump the trees, like  
25 I stated earlier. So, we haven't been able to protect them

1 because when we go to a governmental agency, they won't  
2 listen to us. They would listen to somebody else because  
3 there's more of you. I mean, it's simple, there's one me,  
4 there's a lot of you guys. So, the people that have the most  
5 people there, they get whatever they want. And, I've seen  
6 this happen many times in the government. Not just with DOE,  
7 but the rest of the arms of the government. Now, the pine  
8 nuts are not as much as there used to be and I believe that  
9 because we can't protect them like we're supposed to that  
10 they're showing us, hey, you can't protect us, we're not  
11 going to be around. So, that's part of my culture and other  
12 Tribal people around the state and around the country. Their  
13 culture is being impacted.

14           The issue that I bring forward to DOE is also that  
15 if there's a truck route and the truck is along I-15 where me  
16 and the rest of the council drive, if there was accident--  
17 I've seen a lot of them--if one of those trucks were to hit  
18 one of our vans that we're driving, our whole government is  
19 gone. And, I know my constitution. There's no way to  
20 restart my government. So, that's the other impact that you  
21 can't scientifically prove, you can't put numbers to. The  
22 only thing you can put to it is that it's gone, what do you  
23 do next?

24           Those are some of the issues that I see that impact  
25 me and my Tribe and other Tribal people around. I've tried

1 to talk to DOE. I've tried to tell them these are things  
2 that really happened to us, these are things that could  
3 happen. Another for instance is that if a person were to be  
4 killed by, say, a transportation accident in the City of Las  
5 Vegas or Clark County, that's one person in over a million.  
6 If one person like that was to--if that was to happen to one  
7 person from the reservation, that's one out of 300. Which is  
8 the bigger percentage? And, what happens even more than that  
9 is that one person from the County would be gone, but they  
10 could import thousands a day. When one person from the  
11 reservation is gone, that person is gone. We can't import  
12 any more. We don't do that. The only way you can be a  
13 member of my Tribe is to be born into that Tribe. You can't  
14 just be imported. And, to me, that's much more serious  
15 impact than how much money are you going to lose because you  
16 can't bring that person back. You've not only lost that  
17 person--not only does it impact that person's family, but it  
18 impacts the whole Paiute Nation as a whole because in one way  
19 or another we are almost related to almost everybody else  
20 that is Paiute. So, we're not talking about just one person  
21 like in Clark County. We're talking about--it's much  
22 greater.

23           And, I've always been told by DOE that in my mind  
24 we will never be affected because the rail line is not going  
25 to go over my reservation that they're talking about. If it

1 comes through the south, it doesn't matter. I'm still not  
2 affected because they're not building--the Caliente railroad  
3 is not through my reservation. But, if the shipment comes  
4 through, that doesn't make any difference, I'm still  
5 unaffected according to DOE.

6           When I first started on following the Yucca  
7 Mountain Project, my reservation wasn't even on the map.  
8 Now, that's before you started talking about Caliente route.  
9 They were still talking about I-15 and my reservation wasn't  
10 even there. And, to me, that's a slap in the face by the  
11 U.S. Government. The U.S. Government has a trust  
12 responsibility to Tribes and it is arms of the United States  
13 Government, those who work for the government, have trust  
14 responsibility to the Tribe. And, if you don't know what  
15 that means, go and ask your attorney. And, if they don't  
16 know what they means, let them ask us, we'll tell them.  
17 We're not ashamed to because that's the only way we get  
18 anything done. We don't have--we don't have a one on one.  
19 We've never been invited by some of these transportation  
20 groups that meet across the country. And, the only reason  
21 why we're not invited is because they said, well, you don't  
22 represent a greater number. Well, I don't know who is  
23 greater, the country or a county. I will be representing a  
24 country, not a county or not a state and not a city. To me  
25 that's greater. The U.S. Government has, like I said, trust

1 responsibilities of those countries, not necessarily so much  
2 to the states or the counties, but they do have in its law  
3 that they have that for the Tribes. But, yet, I don't see  
4 that happening.

5           When you talk about how much--where I could spend  
6 my money like the lady from the county said, that's great  
7 that she has the money to spend, I come up here and I don't  
8 have a penny to come up here. I get my funding through my  
9 program because this is part of my job, too. It doesn't come  
10 from DOE. We don't--the only thing we get from DOE is lip  
11 service, in my opinion. The only reason I say that is  
12 because I've been working on this project for a while and  
13 I've been through a lot of meetings. I've sat her for many,  
14 many hours. I've been through a lot. I've listened, I've  
15 learned, and I've learned because I've been there. I've  
16 learned because I've listened to you people, you people that  
17 are scientists, you people that have done the studies. I  
18 take all that and I think about what does that mean for me in  
19 my reservation? What does that mean to me as looking for the  
20 best interests of my Tribe; not just my Tribe today, but my  
21 Tribe in 100 years? That means a lot. That means that my  
22 shoulders have more weight on them than I can really actually  
23 bear.

24           But, I stand up today and do that because if I  
25 don't, then I've let my people down. But, not only have I

1 let my people down, I've let myself down. I was elected this  
2 past December. They elected me because they want somebody  
3 that wants to get out there and do something. And, I tried  
4 my best. I even--in fact, I was up at 4:00 o'clock just to  
5 get up here. I'll get home at 6:00 or 7:00 o'clock tonight  
6 and I'll be at work tomorrow at 8:00 o'clock. This is what  
7 we have to do because we don't have funding, we don't have  
8 the manpower to have somebody coming and sitting for us or  
9 take notes for us or read those big boring studies that I  
10 have to read. But, I kind of enjoy it because reading that  
11 gives me more power. Power to me is knowledge and I have a  
12 lot. I go back and tell my Tribe what went on today and  
13 they're glad to here that I've been there because I  
14 understand what goes on and I understand how Bob could be  
15 passionate about how the State feels. I feel the same way  
16 about the Tribe except for I wouldn't want to try to be Bob  
17 because he's got more years of experience. And, Bob is vocal  
18 and I get that way sometimes. The only reason I do that is  
19 because these are the only times we have a chance to speak.  
20 A lot of Tribes don't have that chance. They don't have that  
21 ability because they don't have anybody that can come here to  
22 speak to you to let you know what we think about and to let  
23 you know what impacts us or what affects us and the way we  
24 feel about the broader things, the broader issue of are we  
25 still going to be here tomorrow. Those types of issues are

1 issues that we deal with also and this is just one tiny piece  
2 of that puzzle that we have to deal with every day.

3           And, I think that's about what I have on mine.

4           ABKOWITZ: Okay. Calvin, thank you. Would you be  
5 willing to take questions?

6           MYERS: Yeah, but I might not answer them.

7           ABKOWITZ: Okay. That's no different than what we're  
8 used to.

9           I'll start off. Abkowitz, Board. I was curious if  
10 you could give me your perspective on the extent to which the  
11 other Tribes that are located in Nevada are experiencing the  
12 same things that you are or whether there seems to be some  
13 disparity in that? And, also, could you help me learn a  
14 little bit better whether there are certain regional or  
15 national Tribal councils that you interact with that may or  
16 may not have a seat at the table in terms of dialogue with  
17 DOE?

18          MYERS: I would say that not only the Tribes in the  
19 State of Nevada, but Paiute Tribes, in general, are not just  
20 within the State of Nevada. We're within the State of  
21 Arizona, Utah, and some into California. The Western  
22 Shoshones are in the state and area around the Yucca Mountain  
23 area. So, it's not just within the state, but we all do  
24 share the same problem, the same frustration. There's no  
25 interaction between the Department of Energy and the Tribes.

1 We've asked for somebody to be like a liaison between the  
2 Department and the Tribes so that anything that goes on in  
3 the Department, we can find out within a couple of days  
4 compared to the couple of months, couple of years other  
5 things that we--that I've seen has happened with the Tribes.

6 And, what else was it?

7 ABKOWITZ: Whether there was a regional or national  
8 council of some kind that does have a seat at the table or  
9 that you could work through to get your voice heard perhaps  
10 more often and at a higher volume?

11 MYERS: I couldn't tell you because we're not invited to  
12 those. And, we should not have to be associated with an  
13 organization; we should be able to be invited as a Tribal  
14 government individually, not as a group, not as one person  
15 representing--and that's why I talk about my Tribe. I don't  
16 talk about the Paiute Indian Tribe in Utah, (inaudible) in  
17 Las Vegas, or Western Shoshones or any other Tribe. I can  
18 only speak about my Tribe. And, that's how we should be  
19 thought of as individual Tribes, not as groups.

20 ABKOWITZ: Andy?

21 KADAK: Kadak. I was confused by your answer. Is your  
22 reservation going to be affected by any of the options for  
23 transport or is it not? I didn't totally understand whether  
24 it was or wasn't.

25 MYERS: I don't know because we've never been told those

1 options. Not with the rail siting that you're doing right  
2 now.

3 KADAK: Okay.

4 MYERS: But, if it comes from the south, the Union  
5 Pacific comes through my reservation.

6 KADAK: Okay.

7 MYERS: So, if it comes from the south, it doesn't  
8 matter. To me, today, this is what happens and I see this  
9 happening. If this were the project right here, this is all  
10 that they would look at. What I look at is how does that  
11 thing get to the project because, like I said, when I first  
12 started, my reservation wasn't even on the map. It had to  
13 get from Point A to Point B somehow and it just doesn't  
14 magically appear. And, that's why we ask and we're always  
15 told, well, we don't know. So, that would have to be my  
16 answer for your question.

17 ABKOWITZ: Okay. Thank you very much. We very much  
18 appreciate your willingness to get up on short notice and  
19 share with us your viewpoints.

20 MYERS: Okay, thank you.

21 ABKOWITZ: This bring us to the part of our meeting that  
22 is reserved for public comment and it's my pleasure to return  
23 the gavel to our Board chairman, John Garrick, to preside  
24 over that event.

25 GARRICK: Thank you very much, Mark.

1           This is, as I mentioned in my opening remarks, the  
2 highlight of our visit and we have received signups from 11  
3 different people who want to make a public comment and it's  
4 our intent to listen to every one of them. The only advice  
5 we might offer is, as a courtesy to the ones that are at the  
6 bottom of the list, you might want to manage your time in  
7 such a way that they don't get discouraged and go home. So,  
8 with that, I think we'll just jump right into it.

9           The first person on the list that I have is Joe  
10 Fallini.

11          A. FALLINI: I'm not Joe. I'm his daughter.

12          GARRICK: Okay. No, we don't mind. Ladies first.

13          A. FALLINI: I don't have anything prepared today. All  
14 I have right now is what I have to go off of my notes. My  
15 name is Anna Fallini. I'm from the Twin Springs Ranch. It's  
16 a ranch that Bob Halstead had mentioned earlier and during  
17 his slide show had included some pictures of. To give you a  
18 quick background of me, I've got an engineering degree from  
19 Cal Poly, as well as a biological resource degree. So, I  
20 want to talk to you guys. It's been a long time since I've  
21 been in the room with this many engineers. It's like back in  
22 college. But, I know this is a technical scoping meeting.  
23 I'm going to try to keep some of the issues to the technical  
24 stuff.

25           I also had the opportunity for a couple of years to

1 work security for DOE out at the Tonopah Test Range and  
2 that's going to be relevant in some of my comments today,  
3 too, because I have a pretty good idea of security, as well  
4 as operations out there. Some of the things I'm going to  
5 talk about today, I can't give you my sources for. I'm up  
6 against the wall that way. I'm going to be doing more  
7 research to get the information out with a good source name  
8 behind it in other ways. So, let me get through my notes  
9 here.

10           The first thing I wanted to touch on was cattle  
11 crossing over railroads because, first and foremost, I'm a  
12 cattle rancher. I'm the fourth generation on a ranch that's  
13 been out there for 130 years. So, first and foremost, I know  
14 cattle. And, no, they're not going to cross a railroad.  
15 There's a reason that those cattle guards work. You can get  
16 your couple of cows, maybe other exceptions are going to get  
17 across, but we have a difficult time even getting cattle  
18 across a highway. A lot of times the method we have to use  
19 is to shovel dirt over the white fog lines to get our cows to  
20 step over it. That's how resistant our cows are to some sort  
21 of barrier. So, the barrier that Bob Halstead is presenting  
22 to you, not only is it a raised barrier, but then you've got  
23 your railroad tracks and then an image of spacing between  
24 your railroad ties and the cattle are not going to cross  
25 that. You're not going to--I mean, you would have to rope

1 every single one of our cows and drag them over that railroad  
2 to get them across there. I cannot describe to you the  
3 impact of that. So, anyway, I hope that answers--

4 KADAK: Anna, could I just follow up? Kadak. There are  
5 railroads now going around here.

6 A. FALLINI: I understand that.

7 KADAK: What happens there? Are they sort of like  
8 literally fenced in at this point?

9 A. FALLINI: I'm unfamiliar with any of the railroad  
10 systems around here. What I am familiar with is our  
11 operation and the impact it would have on our operation.

12 KADAK: Okay.

13 A. FALLINI: You know, I'm not going to speak for any  
14 ranchers that have railroads that come through their place,  
15 but I know just from our experience of just roads, even  
16 sometimes on a dirt road, you'll have a difficult time  
17 getting an animal across.

18 KADAK: Okay.

19 A. FALLINI: And so, that whole thing is kind of  
20 irrelevant of the whole impact of it, but you had a question  
21 on it earlier.

22 To kind of follow up on this also, the underpasses  
23 would have to be in such great frequency to be beneficial in  
24 that matter. I mean, the economic impact of just the  
25 frequency of the underpasses in order to not have an impact

1 on cattle crossing, their access to water, would be  
2 unbelievable. So, just kind of an idea of that.

3           The Mayor and the Congresswoman--or Commissioner,  
4 sorry. You know, you guys said that you guys did studies  
5 regarding private property rights along the corridor. Well,  
6 my family was never notified. I want to make that clear to  
7 everybody because if you were doing studies of impacts on  
8 private property, we dang sure should have been notified.  
9 There's 13 private property water rights that you guys--this  
10 Caliente corridor would go right over. There's deeded land,  
11 there's grazing rights. And so, I kind of take offense to  
12 you saying that you represent the rural people in this  
13 community when we haven't even been notified by you. In your  
14 little book, I'm pretty sure we're not in there. And, I know  
15 we're not the only ones that you guys didn't notify. So, if  
16 you have the studies, I sure would like to see them.

17           Let's see. As far as the Indian Tribe goes, I'm  
18 shocked to hear that you guys weren't notified more because  
19 before the first EIS was even out, they eliminated a route  
20 from Hawthorne on an existing rail bed on the basis that the  
21 Paiute Reservation sure didn't want it. That was enough for  
22 them. And, it's not included in the EIS no longer. It comes  
23 down from Hawthorne, there's a bed already there. The  
24 poverty is unreal. Everything is there already and it was  
25 eliminated totally. And so, my point in that is that the

1 scoping done at the very beginning of this process was so  
2 selective to support this Caliente route that it excluded  
3 people, in my opinion, intentionally so that they could have  
4 reason to neglect certain routes and then have a stronger  
5 point to select others. That kind of goes with DOD, as well,  
6 which I'm going to touch on, too, because the whole reasoning  
7 in the EIS, there's very few land use conflicts. I'm shaking  
8 now because I'm nervous, I'm getting angry. You'll see my  
9 father will do the same thing. There are several land use  
10 conflicts that are along this route. Several.

11 I like coming better prepared. Okay. Somebody  
12 said today, I believe it was Gary Lanthrum that said DOD said  
13 there would be irreparable damage done had this railroad gone  
14 through the Chalk Mountain, the one through the test range.  
15 The irreparable damage done to our operation--again, I'll  
16 remind you it's 130 years, I'm the fourth generation, I gave  
17 up a career in engineering that I would have liked to have  
18 followed because this was a bigger dream to me because I'm  
19 doing this not only for myself, hopefully someday for my  
20 children, as well as my nieces and nephews because right now  
21 there's a fifth generation out there working. If you want to  
22 talk about irreparable damage, that's it. You cannot put a  
23 money value on that. And, I know that because I didn't  
24 follow a path of money. I came out here to make pennies to  
25 live this lifestyle and that's irreparable. I can't even

1 tell you how much.

2           The economic impact of it is also irreparable  
3 because it would put us completely out of business. The  
4 reason this is is because we are a water based allotment and  
5 this railroad goes over 13 of our waters. In order for us to  
6 maintain a grazing permit out there, we have to have control  
7 of that water. Without it, we don't have anything. So, the  
8 impact on us would be catastrophic. We would not be able to  
9 maintain our operation, at all. That hits home pretty hard  
10 after everything my family has gone through to build that  
11 place up and given up to come back out there into the  
12 lifestyle out there.

13           Not to mention the fact that the NEPA process was  
14 not followed, but we're going to be having to pursue that  
15 through legal routes.

16           I want to talk a second about the test range route  
17 and I talked to you a little bit after lunch about that. DOD  
18 said no, right? Gary got up here and said they absolutely  
19 said no. I told you before I have sources that I cannot say  
20 and I'm going to get this information in another way. DOD  
21 was gravely misinformed on not only where that rail line  
22 would go through, but the frequency at which trains would be  
23 coming through there. DOD, the way that it was presented to  
24 them, at first, was presented completely inaccurate and in a  
25 way, of course, they weren't going to accept it. They were

1 informed that there was going to be a rail train, a train  
2 coming through every hour. Of course, they're not going to  
3 be able to work around their operations in that. In looking  
4 at that map, they were never given specifically a route that  
5 that would go through. If the route came down in the  
6 southern part of that range, you know, you can see the green  
7 range there, if it came down there, it would be farther away  
8 from actual bombing than it does by the Cedar Ranch where it  
9 just--just north of that first green part. It would be  
10 farther away from bombing going through that test range in  
11 the southern area where the topography is perfect for it than  
12 it is right now in its current location. So, as far as the  
13 bombing goes, I wish I could get over--actually, I have a--  
14 the bombing that occurs at the Tonopah Test Range--

15 GARRICK: Wait, wait.

16 (Pause.)

17 A. FALLINI: Okay. Well, the area in this Tonopah Test  
18 Range, bombing range where bombing activities occur, are  
19 right here in this area, right here in this Kawich Valley  
20 which, by the way, was taken from my family to imminent  
21 domain. So, this is not the first time DOE and DOD have come  
22 and taken stuff from us. The route that would be the most  
23 logical route through here, secure, would come down through  
24 the southern part of the range. I assure you that in the  
25 southern part of the range, no bombing occurs because it

1 would interfere with the other testing that goes on there.  
2 So, that would not even be an issue. However, when it was  
3 presented to DOD, they never specified where and so DOD,  
4 under the impression that it would go through their bombing  
5 range at one train per hour, of course, said no. So, I don't  
6 know how to get anybody to look back at that and reevaluate  
7 it, but it needs to be done because it wasn't done correctly  
8 to begin with.

9       BUSCH: While you're up there, could you show us where  
10 your ranch is?

11       A. FALLINI: Yes. --Reveille allotment and it begins  
12 right here (inaudible) right here. It begins right here and  
13 travels all the way up Reveille allotment cutting our  
14 Reveille Valley right in half right through all of our waters  
15 and right up through the Spring Summit. All this right here  
16 is our grazing allotment. And, like I said before, it goes  
17 through our private property, it goes through deed of land,  
18 it goes through many private property rights.

19               So, my point in this is that all of the feasible  
20 possibilities were--many of the feasible possibilities were  
21 overlooked because of misinformation given to the people at  
22 the beginning of the scoping of this whole railroad. Mark--I  
23 can't remember your last name--you had brought up this  
24 question earlier, as well, about legal haul trucks. I did  
25 some real basic math just taking the tonnage into

1 consideration and not--I don't know anything about the  
2 construction of the casks or the fabrication or anything like  
3 that, but I do know that there was a scenario written in the  
4 first EIS that said that there could be casks removed from a  
5 train in Caliente, put onto legal haul trucks, and hauled via  
6 Tonopah, about approximately a 300 mile passageway, during  
7 the construction and put on those trucks and hauled the rest  
8 of the way to Caliente. Now that, to me, implies that those  
9 casks may even be in existence already. I don't know. But,  
10 in my math and with the tonnage of nuclear material that you  
11 guys are planning on passing through here, if you were to  
12 continue doing that method--and I'm not talking about a legal  
13 haul all the way across the country, I'm just talking about  
14 from Caliente to Yucca Mountain, a legal haul scenario where  
15 obviously you're going to have the capabilities already if  
16 it's a plan during construction to take those casks off the  
17 rail and put them on legal haul trucks and drive them, you  
18 would have to exceed \$16,000 per load to make up for the cost  
19 of that rail route that travels the Caliente route. Now,  
20 that, too, is I think--I don't remember exactly, but maybe  
21 \$2001. So, now, in my head, I'm guessing that that would be  
22 even closer to \$20,000 per load for a 300 mile trip on  
23 existing highways. You wouldn't have--I mean, we're not  
24 talking heavy haul trucks, you know, we're keeping everything  
25 under 80,000 pounds. The capability and the idea is

1 obviously already there because it's been included in the EIS  
2 before. So, why that hasn't been looked at, I don't know.  
3 It kind of boggles me. And, sure, the frequency would be  
4 more than a railroad, but then again in the event of a  
5 catastrophic accident, you would be hauling less in one load  
6 than you would on a railroad.

7           The safety issues of going through the Tonopah Test  
8 Range, you've got--your air space is restricted and so is the  
9 ground space already. I mean, the security there would be  
10 incomparable to any security anywhere else. If you go up  
11 north where you guys are planning to go through Caliente, all  
12 you've done is you've provided them and it's going to put a  
13 scenario in front of you, a terrorist group who wants to get  
14 together and plan some kind of an event against this  
15 railroad. You've given them the opportunity to go in the  
16 most rural area and conjugate and get their stuff together  
17 without being in the eye, whatsoever, of the public for any  
18 suspicion or anything else. So, what you've done in security  
19 out in these rural areas is tough, I've done it. And,  
20 regarding nuclear material, even being out there on the test  
21 range where you have, you know, restricted air space and  
22 everybody has got a clearance and everybody has got a badge,  
23 it's still difficult because of the rural setting. Now,  
24 you're taking it out of that secured area, still putting it  
25 in a rural setting, your security is going to be unbelievably

1 minimal. And, it scares me.

2           You know, we had a guy that was on the loose a  
3 couple months ago who evaded the police, one guy. He evaded  
4 the police out there in that same area for months before they  
5 caught him. He stole from everybody in four valleys and he  
6 ran around. I can't imagine what some organized group could  
7 do in the same setting especially, like I said, without any  
8 public eye looking at them, nobody to drive by like in a more  
9 urban setting and say, geez, there's something funny going on  
10 here, maybe I should call this in.

11           But, you go through that test range and you go down  
12 where there's no bombing. It's the shortest route. It's  
13 logical. It's secure. And, DOD denied it because they were  
14 misinformed. So, I don't know. I urge you guys to look back  
15 on that possibility.

16           And, I think I'm just about done here. Oh, by the  
17 way, when you guys were introduced, you guys were all  
18 referred to as part-timers. I'm here as a part-timer, too,  
19 but what I have to lose is everything if this goes through.  
20 So, while I would rather be out there working on the ranch  
21 right now and getting some stuff done that needs to be done,  
22 I'm here fighting for my livelihood. If that fight goes into  
23 Court, then it goes into Court. We wish it wouldn't, but  
24 we're willing to go that route because we have a lot, a whole  
25 lot, to fight for.

1           And, let's see, my dad is going to come up with a  
2 whole lot more comments, more issues regarding allotment  
3 directly. I guess, the only other thing--two points  
4 actually. Gary Lanthrum gave this chart here to you to show  
5 you, sure, this is a comparison to Reno, to the Rockies.  
6 Where's the comparison of the routes that are already being  
7 looked at? Because if you put the route, the topography,  
8 alluvial fans, the flooding areas, everything, if you  
9 compared those things between the routes that are still, you  
10 know, the Chalk Mountain and everything else, then you would  
11 have something to compare. This, to me, is a biased  
12 comparison with the sole intent of making Caliente corridor  
13 look good when, yeah, it's constructable, you're right. We  
14 construct railroads over mountains, over passes. I mean,  
15 that's not a question. What is the cheapest? What is the  
16 most logical? That's what you should be looking at, a  
17 comparison of the corridors in question, not of a comparison  
18 of a railroad that goes over Denver. You know, the Caliente  
19 corridor is the most expensive. It's going to take the  
20 longest to construct. It's going to take the most  
21 maintenance. You know, to somebody just looking out of the  
22 logical point, it's illogical. It's just an illogical route,  
23 not to mention the engineering disasters you're going to run  
24 into just in Reveille Valley alone with the flood, the  
25 alluvial fans, and then there's these issues of wilderness

1 study areas, there's the issues of archeological site, and  
2 things that my family for years have had to hold to and been  
3 regulated against. All of sudden, now that DOE wants to go  
4 through there, it doesn't matter anymore. You know, never  
5 mind the cost and the effort we incurred because of them.

6           And then, I want to leave you guys as engineers and  
7 scientists, no matter how much momentum is behind something,  
8 especially in the engineering field, a design or a project,  
9 if at any point you stop and realize that it's wrong, that  
10 there are fundamental flaws in it, you've got to stop and go  
11 back. You don't just keep going forward to save face. You  
12 know that the damage done is going to be so much more severe  
13 than saving face could ever justify. And, I've got to tell  
14 you the process that has been followed by DOE to get to this  
15 point, even though there's all this momentum behind it, is  
16 flawed. It's completely flawed. And, I implore you guys to  
17 look at that and be willing to go back. And, like you guys  
18 are asking questions, these different scenarios, these  
19 different methods, these different routes, all of them need  
20 to be looked at again because they were not done right to  
21 begin with.

22           That's all I have to say. If you guys have  
23 questions, I'll stay up here.

24           GARRICK: Okay, thank you. Do we have any questions?

25           DUQUETTE: I have a quick one. Maybe you can help an

1 ignorant easterner and this isn't meant to be pejorative. I  
2 just would like to know. Comments have been tossed out about  
3 private property, property use, property ownership, and  
4 private property rights. Can you give me some definitions?

5       A. FALLINI: I will tell you my dad is going to be a lot  
6 better at doing that. But, let's put it this way. They're  
7 all private property rights. Okay? Ownership, if you own  
8 your car, you have ownership, you have a private property  
9 right. Okay. So, what you are looking at are all private  
10 property rights. Taxable, that always comes into play. Many  
11 people will argue that grazing allotment isn't a taxable  
12 right. Well, after paying a million dollars in inheritance  
13 tax after my grandparents passed away, I think our family  
14 would beg to differ that that's not taxable. It's been  
15 taxed. It's been severely taxed. So, the specifics of the  
16 rights, my dad, he's much better at that kind of stuff. We  
17 can ask him. He'll give you a much better--

18       GARRICK: Okay. All right. Well, thank you. Thank you  
19 very much.

20               Is your father available?

21       J. FALLINI: My name is Joe Fallini. My daughter just  
22 spoke to you. You know, it's real interesting to me that  
23 we're sitting here completely ignoring the State of Nevada  
24 and the Constitution of the United States. Number one, the  
25 Constitution of the United States in Article 1, Section 8,

1 Paragraph 17, says that when anybody wants anything in  
2 whatever state, it's their duty to go before the state  
3 legislature and get permission to do that. Now, I'll  
4 guarantee you in this process the bombing and gunnery range  
5 was taken up that way, post offices were taken up in Nevada,  
6 just about everything that was ever taken up in Nevada went  
7 to the legislature so that it would be constitutional. This  
8 was completely circumvented.

9           And, another thing, the State of Nevada has denied  
10 Yucca Mountain water rights down there and I'm sure all you  
11 people know it. They denied you. They told you you cannot  
12 have the water and you're going around them. You're saying  
13 the heck with the State of Nevada. They have no control.  
14 This really bothers me. When we get into a position like  
15 this when something could be built up with such momentum that  
16 you just completely annihilate the Constitution and the  
17 state's rights.

18           And, another thing that I'd like to say is on this  
19 rail route, it is stupid to go that way. It's a waste of  
20 taxpayers' money when you have a route that's 200 miles  
21 shorter and that route that's 200 miles shorter can be in  
22 about four or five different positions. It was never even  
23 considered.

24           And, like my daughter said, the Air Force got duped  
25 on it. They was told the wrong information. Now, I'll tell

1 you where we got duped. We was reading the Tonopah paper and  
2 find out about the rail route. This here really bothered me  
3 when I read in the Tonopah paper there was 21 public meetings  
4 held and there was 1900--or 1290 comments and why everybody  
5 that I know that owns property rights along that railroad  
6 never got notified by you people. Now, I think that is not  
7 an oversight. That's damn near a guess.

8           And, I'll tell you another thing. You know, you're  
9 supposed to go through the NEPA process. The NEPA process is  
10 supposed to come out and involve the people. Well, I'll tell  
11 you what I think happened. I think DOE went to the  
12 Commissioners, picked you people, gave you Pep money, bought  
13 you off so you wouldn't tell us what the hell was going on.  
14 I believe that right down in my heart because if you're my  
15 County Commissioner, why didn't you come out and tell us what  
16 was going on? Wouldn't this be the NEPA process? Wouldn't  
17 this be the way it's supposed to be for the Environmental  
18 Impact Statement? No, they didn't want to do that because  
19 they knew there was property rights out there. There's a  
20 bundle of property rights out there. There's water  
21 developments. Under our water base allotment, we have to own  
22 that water. We own that water. It's our water and that's  
23 what gives us our compensability for our grazing. And then,  
24 we looked at it a little deeper and we said, well, my word,  
25 the State Water Engineer won't give them any water. So, we

1 get to reading in the Tonopah paper and, all of sudden,  
2 Commissioners are going to pick up water according to the  
3 paper for the Yucca Mountain Project. And, Mitch was  
4 supposed to send me an explanation of that. I haven't  
5 received that. Now, I want to know how come you want to buy  
6 water and use it? Is this a process where you can't get  
7 water? I'll talk to you any time you want on it. But, if  
8 you're going to get water, we used to own Kawich Valley. We  
9 was bought out of there with the power of imminent domain.  
10 And, we still hold some water developments in that Air Force  
11 bombing and gunnery range because we would no way let them  
12 go. And, we have the power today to go in there and maintain  
13 those water rights. Now, when I look at it and the State  
14 Water Engineer isn't going to give you any water and, all of  
15 a sudden, you're going over--my daughter said 13, it's  
16 actually 17--right over the top of a bunch of them, right  
17 over the top, and if you guys get the power of imminent  
18 domain and force us to sell that, then you'll have the water  
19 for Yucca Mountain, won't you?

20 I'd like to know these questions. How come these  
21 weren't addressed? And, I would like to see what kind of a  
22 NEPA process would have taken place on this thing if there  
23 wasn't Pep money to start with?

24 Now, I'll ask you, Mr. Lanthrum, have you got an  
25 explanation for that?

1 (No audible response.)

2 J. FALLINI: Well, you know, I kind of got the feeling  
3 you and I are good buddies if you was talking about the  
4 Fallini Ranch. We're on opposite sides of the street. You  
5 know, if you're going to use our ranch to get your water  
6 rights to go to Yucca--and I don't know whether this is true  
7 or not--but, boy, you put everything into perspective from  
8 what we read in the Tonopah paper and the Commissioner is  
9 completely going around us on our property rights, why  
10 weren't we notified? Anybody, if they was going to go out  
11 there and do something, would go to the property owners. Why  
12 wouldn't you go to the property owners?

13 LANTHRUM: Lanthrum, DOE. We have been talking to you.  
14 In fact, I--

15 J. FALLINI: You talked to me--the first go-around, we  
16 wasn't notified, at all. You went through your NEPA process  
17 and you had 21 meetings and you had 12,900 comments and you  
18 never notified one person on our side. The Covins, the  
19 Hagens, the Cliffords, you get down to Ben Covin, and none of  
20 them was notified.

21 LANTHRUM: That 21 meetings and all the comments that  
22 you're talking about, those were for the repository EIS.  
23 That was before we had selected a corridor to analyze. The  
24 EIS process that we've done on just this corridor where we  
25 actually knew who the affected property owners were going to

1 be, we've done as good a job as we thought we could reaching  
2 out to people, identifying the folks that would be affected  
3 and we've made a really good effort to try and make sure that  
4 all the people that came forward during the scoping process  
5 have been kept informed of the things we've been doing since  
6 then.

7 J. FALLINI: Since then.

8 LANTHRUM: Once we selected the Caliente corridor, we've  
9 been working really hard to make sure that the owners along  
10 the Caliente corridor, both the landowners and the land  
11 users, have been informed of what we're doing.

12 J. FALLINI: Okay. Well, I'm going to ask you why was  
13 the only withdrawal made by the Bureau of Land Management,  
14 when there's seven other corridors, the only one that was  
15 withdrawn through the Bureau was the Caliente one. How come  
16 the Chalk Mountain, how come the Jean route, how come all of  
17 them weren't--if you was doing this legally, you would have  
18 withdrew every damn one of them. But, no, you up and  
19 withdrew that, and then a couple days later, you select it.  
20 That's momentum, I'll tell you that. That's a real momentum.

21 LANTHRUM: Maybe we need to have more discussions, but  
22 we--

23 J. FALLINI: Well, we sure should. You talked about all  
24 the stuff back and forth between us. We went out to hear  
25 people and drove around once and we had them come into the

1 house once and, hell, you didn't even know how water  
2 developments were.

3 LANTHRUM: That's why we came out there was to find that  
4 information.

5 J. FALLINI: (Inaudible) Victor was very surprised when  
6 he seen how much private investment was out there.

7 LANTHRUM: You bet.

8 J. FALLINI: He should have known that before he came  
9 out.

10 LANTHRUM: I will say that the withdrawal that we did  
11 was for the corridor that we selected through the NEPA  
12 process. We didn't go about withdrawing a corridor until we  
13 knew which corridor we were going to select.

14 J. FALLINI: Well, when did you select--how come a few  
15 days later, you selected the Caliente corridor and withdrew  
16 the (inaudible). Why didn't you withdraw the (inaudible) for  
17 the rest of them?

18 LANTHRUM: Because we weren't selecting the rest of  
19 them.

20 J. FALLINI: So, in other words, you're saying this is a  
21 predestined thing right now. That we was going to build the  
22 Caliente route and we didn't need to withdraw any other ones.

23 LANTHRUM: We're going to have to keep talking, but we  
24 believe--

25 J. FALLINI: No, we're not talking (inaudible) different

1 place because I think you've overstepped your bounds in the  
2 NEPA process. And, we're used to big fights. We've done a  
3 pretty good job in our history. We haven't been around for  
4 130 years to lay down and let people run over the top of us.  
5 And, I want the NEPA process and I want to know how come  
6 County Commissioners didn't notify us of what the hell was  
7 going on. Why did we have to get it out of the paper?

8 LANTHRUM: We think we're following a pretty good NEPA  
9 process and we'll just make sure we contact you more and more  
10 as the process moves forward.

11 J. FALLINI: You bet. We'll probably contact you a  
12 little on it because--

13 LANTHRUM: Okay. We'll look forward to it.

14 J. FALLINI: Okay. Thank you.

15 KADAK: Mr. Chairman?

16 J. FALLINI: There's a much better route and it's a hell  
17 of a lot more terrain friendly and everything else and, my  
18 word, people, you shouldn't be spending the taxpayers' money  
19 by running a 200 extra mile railroad. We don't have that  
20 kind of money now. I think it's your obligation to take care  
21 of the taxpayers and I don't think a 200 extra mile route is  
22 right.

23 Thank you.

24 GARRICK: Thank you.

25 J. FALLINI: Any questions?

1 GARRICK: One question, yes.

2 KADAK: I'm just trying to get educated now. Property  
3 rights--do you own that land or do you have rights to water  
4 on that land?

5 J. FALLINI: No, what we have is we have water rights  
6 which are commensurate which is no different than any  
7 person's water rights on their well or anything else.

8 KADAK: Even if you don't own the land, you have water  
9 rights, is that correct?

10 J. FALLINI: We have the ownership of the water rights  
11 and we have a grazing right and we have right-of-ways for  
12 those pipelines, those wells. And, it's just like--you know,  
13 to give you a good example, I went down to the legislature  
14 when the Bureau was trying to say, well, anything that's out  
15 there on that public land, we need half of it, and they was  
16 trying to steal the state's water rights. And, I asked the  
17 legislature up there, I said how many of you people drive  
18 your car out there on that ground? That's your private  
19 property right. And, when that Bureau of Land Management  
20 official would come to you and say, hey, your car is out  
21 there on that grazing land or that Federal land, that we need  
22 half of it because it's out there, that makes a hell of a  
23 bunch of difference. There's--

24 GARRICK: Okay. I just want to make sure that Andy's  
25 question is understood. You have water rights, but you don't

1 have ownership of the water?

2           J. FALLINI: We own the water. The ownership under a  
3 water base is private property. It's no different than a  
4 house down here in Caliente that the people own. It's a  
5 private property right. It's guaranteed by the State and,  
6 before 1905, it was a vested right which meant that it was  
7 all the water, not a certificated right, and it wasn't  
8 subject to the five year lease. So, in other words, any  
9 vested right that is out there that belongs to any of these  
10 ranchers around here, they own that. It's a private property  
11 right even though it's on Federal land and we stopped the  
12 Bureau from drilling wells for wild horses because we owned  
13 those rights.

14           KADAK: All right. Now, if the Bureau of Land  
15 Management takes the land out of--I don't know what the  
16 official term is, but somehow takes the land out of--what did  
17 you say it was, out of service or--

18           J. FALLINI: Well, if they take the land--

19           KADAK: Yeah, what happens to the water rights is what  
20 I'm trying to find out?

21           J. FALLINI: Well, what happens to the water rights,  
22 somebody has to pay for those water rights. We owned Kawich  
23 Valley, and when the Air Force come in and took Kawich  
24 Valley, they took some of our water rights, but we drew the  
25 line of anything that we could use above that that had water

1 rights to it and we are guaranteed that right, we have that  
2 right-of-way coming right out of the Nellis Air Force--

3 KADAK: In this case where they withdrew the land for  
4 this corridor, do you still have the water rights on that  
5 withdrawn land?

6 J. FALLINI: We do.

7 KADAK: Okay. So, that issue is not--that's not the  
8 question then, right?

9 J. FALLINI: Well, it's a big issue because you're going  
10 to put a railroad right over the top of five places which  
11 goes exactly over the top of our water sources, it--

12 KADAK: Over the wells or--

13 J. FALLINI: Well, yeah.

14 KADAK: Okay.

15 J. FALLINI: We actually have 17 of them. I can give  
16 you them. They've got--

17 KADAK: No, that's okay. I wouldn't know that.

18 J. FALLINI: Okay.

19 KADAK: But, let me ask you, what is your alternate  
20 route that you would propose?

21 J. FALLINI: The alternate route that I would like to  
22 see happen would be go right--the tunnel right through--okay.  
23 We're sitting here in Caliente, okay? You're going through  
24 here. You've got Route 93 that comes right through here,  
25 goes through here. Here's where you would have to put the

1 tunnel. Okay. From this point, you can go down right  
2 through here, right through where they set off all the bombs,  
3 and right to Yucca Mountain. It's a very short route. It's  
4 elevation friendly, it's secure from this point on, and it's  
5 not 200 extra miles. You can actually sit right here and see  
6 the top of this peak and you're going an extra 200 miles  
7 around it when you can look down there and see that peak.  
8 It's amazing to me.

9 GARRICK: Thank you. Okay. I think we appreciate your  
10 comments and thank you for trying to--

11 J. FALLINI: Are there any others?

12 GARRICK: No, I think we're done. Thank you.

13 The next name on the list is David Blee.

14 BLEE: I'm here today representing the U.S. Transport  
15 Council, but when I signed up this morning to speak, there  
16 were only two people signed up. There's now 11. Frankly,  
17 we're strong supporters of hearing from local stakeholders  
18 and in that interest I will yield the balance of my time.

19 We do comment you for being out here and taking  
20 issue to be here. We just completed a three day tour of the  
21 Caliente corridor, and I think when you get outside of Vegas,  
22 you'll find people are very willing to work constructively  
23 towards a solution.

24 GARRICK: Well, please, feel free to make a few comments  
25 if you'd like?

1 BLEE: I really want to yield the balance to--

2 GARRICK: Andy, question?

3 KADAK: What is your recommended corridor?

4 BLEE: Well, we support the decision that was made by  
5 the Department. We think it is warranted. We think it is  
6 achievable. We think it could be done in the time frame  
7 specified by the Department whether it's 2010 or 2012. You  
8 know, we come from the perspective of companies that have  
9 moved more fuel, spent fuel, and nuclear materials than is  
10 planned to be currently sent to Yucca Mountain. So, we know  
11 it's achievable. We, in fact, advocated and accelerated  
12 transportation implementation because that drives a lot of  
13 things. It drives stakeholder involvement, the public  
14 education which we think is necessary, and it also brings the  
15 jobs and benefits that I think you'll find people along this  
16 Caliente corridor are very thirsty to have. Obviously, there  
17 are concerns that need to be heard here and again that's why  
18 we think it's important you're here and we hope you'll be  
19 back here.

20 GARRICK: Okay. Thank you very much. And, thank you  
21 for yielding time.

22 BLEE: And, I will submit a statement for the record.

23 GARRICK: Thank you.

24 The next name on the list is Bill Vasconi.

25 VASCONI: Bill Vasconi. I'm from Las Vegas, Nevada. I

1 haven't lived in Nevada all my life because I'm not done yet.  
2 For those of you that are from out of state, I'd like to  
3 welcome you to Nevada, in particular Lincoln County.

4           I notice that some of you were reflecting on the  
5 openness of the countryside here. It's only fair to tell you  
6 that as you approached Lincoln County, there were desert Big  
7 Horn Sheep in the mountains. As you come over the grade up  
8 here at Spring Summit, there's an ample supply of mule deer.  
9 And, as you proceed north from here, it's some of the prime  
10 elk country in the nation and we do have antelope.

11           Now, let's talk a little bit of trivia. I notice  
12 that Kevin got onto that. I like to see you in that suit  
13 once in a while. That looks good with that tie on, too. I  
14 noticed yesterday when we was at the meeting, I really  
15 listened to both your speeches. You know, the guy over here  
16 with the two first names and Margaret Chu and I enjoyed that.  
17 But, everybody in the audience had suits on. It looked real  
18 strange. I don't know if they were dressing up or dressing  
19 down when they got here, but it's nice to see our Mayor with  
20 a suit on.

21           You're in the State of Nevada. In some  
22 perspectives, people say Nevada, etcetera, etcetera,  
23 etcetera. And, to put that in the proper perspective, what  
24 we have in relationship to those states back east, well, you  
25 could take Rhode Island, Connecticut, Delaware, New Jersey,

1 New Hampshire, Massachusetts, Maryland, Virginia, and South  
2 Carolina, and they'd all fit inside the State of Nevada.  
3 We're about the same land mass as the country of Italy to  
4 just sort of put it in proper perspective.

5           You know, there's a good many Nevadans that  
6 appreciate your efforts on this Board. We know that some of  
7 you are new to this area and new to the problems of Nevada,  
8 but there are a good many Nevadans that realize that those  
9 things are nuclear and research into hydrogen, those are  
10 ongoing. We've left Yucca Mountain to the point where we're  
11 going to say it's going to be open and retrievable for 300  
12 years, monitored. That works for us. There's a lot of folks  
13 in Nevada that works for. Number one, because we give our  
14 educational system more credit. We think in 300 years we  
15 might have some better answers. We'd maybe have some better  
16 answers on what to work with. We also realize there's 103  
17 nuclear power houses in the United States generating some 22  
18 percent of the electricity through its silver oxides, carbon  
19 dioxides. No greenhouse effect out of nuclear, it's clean.

20           I noticed in a paper just a while back that  
21 Mississippi is looking to build a nuclear power house.  
22 They're asking for permission. You know, I can't believe  
23 when we use this 10,000 year figure, I can't believe any way  
24 in the world that there's going to be coal or oil around in  
25 10,000 years. Dr. Crowley tells me it's only going to be

1 around maybe a couple hundred. We've got to look for new  
2 energy sources, nuclear being one of them.

3           I'm in favor, I'm in favor of centralized storage.  
4 Some folks were talking about those who would be affected by  
5 the site or by rail, but where it sits now, you've got 60  
6 million people that are affected by where it sits now.  
7 Someone else talked about those things nuclear. They talked  
8 about the fact that the waste is accumulating. Most of it  
9 wouldn't be waste if it was a renewable energy resource. It  
10 wouldn't be any waste. That's where our technology should  
11 head.

12           The reactors we have, folks, we're not the only  
13 ones that have reactors. There's 440 reactors in the world.  
14 They're putting reactors--as an example, India is building  
15 eight of them. Japan, Formosa, China are building nuclear  
16 reactors. Japan has 53, France has 59, the United Kingdom  
17 has 45. Those folks would love to have an opportunity like  
18 we have here in Nevada. Now, this is the first geological  
19 repository for the United States and also for DOE, also NRC,  
20 also EPA. Yeah, there's going to be some stumbling blocks,  
21 but that's why it's so veritable. We've got a chance to work  
22 with it. We can work our way through this.

23           Now, not all the citizens of Nevada feel there's a  
24 concern about those things nuclear. They don't feel involved  
25 in the issues. But, they only have to reflect on the fact

1 that our Navy, some 70 atomic submarines, 10 nuclear powered  
2 aircraft carriers not only protect this country, but has  
3 fought the last two wars in the bowels of those atomic  
4 submarines, in the decks of those aircraft carriers. The  
5 Navy right now has some 84 vessels, some 105 reactors. They  
6 have spent fuel lives. Yes, they're shipped to Idaho, INEL,  
7 but they come into ports like Burlington (phonetic),  
8 Washington, Kidney, Maine, Newport (inaudible), Portsmouth.  
9 That's how they're getting there. A lot of shipments, a lot  
10 of rail, a lot of safety. And, Pearl Harbor goes into  
11 southern California, by rail to (inaudible) Idaho. It's  
12 safety.

13           You know, you come up with this issue in a lot of  
14 different ways. Now, the State of Nevada, well, we've had  
15 our problems, as you well know. This is a national issue.  
16 This isn't a state's rights issue. It's a national issue.  
17 Our State Motto is "All for Our Country." I guess, we're  
18 going to have to change that. Battle Horn, I don't know of a  
19 Nevadan that fought in the Civil War unless he walked over  
20 there all by himself. When Nevada became a state, there was  
21 16,000 people here. And, those of you back east, you were  
22 losing 16,000 people in Gettysburg, Fredricksburg, Bull Run  
23 in one day. It's a national issue.

24           I'll summarize by saying, you know, Nevada's  
25 politicians, those Nevadans, ought to reconsider their views

1 on Yucca Mountain. They're not realistic, they're not  
2 responsible. Some of them are politically motivated,  
3 politically based. That doesn't work well for the scientific  
4 program. You need to reassess your approach to Yucca  
5 Mountain and make the best of this situation in a national  
6 interest--that's history also. We need to broaden our  
7 economic base, diversify our economy, and we can do that with  
8 Yucca Mountain just like we did in Carlsbad with the WIPP  
9 project. Thirty-nine percent of the procurement of that  
10 project come out of the State of New Mexico, 39 percent.

11           You know, we have 50 years of expertise, scientific  
12 and technologic expertise developed at the Nevada Test Site.  
13 I worked there 17 years, the first four years as a radiation  
14 technician monitor and the other years I worked as a  
15 construction worker. I've always been just a construction  
16 worker. We've had 928 nuclear devices detonated in the  
17 Nevada Test Site. One hundred of them was atmospheric, 828  
18 were underground, 24 of them was with (inaudible) before they  
19 went to Australia. But, there was 828 underground, a full  
20 third of them were in the water table. That's a closed water  
21 aquifer. But, you do have high-level nuclear waste stored at  
22 the Nevada Test Site already. Well, maybe I'm one of the  
23 guys that prefer to come down from the north. If this will  
24 work, then we continue the process.

25           I think you've got your homework cut out for you.

1 There's a need to notify more people, get more involved with  
2 the community. You're in rural Nevada, not Las Vegas. You  
3 know, in Las Vegas, they buy a pickup truck and put stickers  
4 on it and take it to the car wash once a week. In Lincoln  
5 County, they buy a pickup truck because they need it and they  
6 use it. You ask folks up here what they're worried about it  
7 and they're worried about the range condition, the drought.  
8 You ask people in Las Vegas what they're worried about and  
9 they start off by telling you traffic, schools, taxes, crime.  
10 What's more dangerous, living in Las Vegas or right  
11 alongside Yucca Mountain? I don't know. There's a murder  
12 every other day. There's a rape every nine hours. There's a  
13 car stolen every 30 minutes. There's a different breed of  
14 folks out here. I like talking to them.

15           Now, to summarize and finish this up, let me say  
16 there's an opportunity here to maximize the benefits, the  
17 contributions that can be made to the State of Nevada, to the  
18 counties, to the people. And, I can give you one good  
19 example right now. If that railroad is going to start right  
20 here in Caliente, why shouldn't the residents of Lincoln  
21 County get involved and build the railroad ties for that 319  
22 miles of track? Union Pacific has built railroad ties out of  
23 concrete and rebar for many years. Why don't you make that  
24 one of your entitlements, your equity issues? Why don't you  
25 push for that? You want aggregate, Lincoln County can give

1 you aggregate. Where do you want it hauled to? You can help  
2 with this railroad system. Nye County, I appreciate your  
3 efforts. I appreciate what you said and I don't know why you  
4 can't build railroad ties on the other end.

5           With that, I want to say thank you very much for  
6 being here. I know there was a lot more that needed to be  
7 said, and when I get out in the truck and head for the house,  
8 I'll probably remember what it was.

9           Now, I am open for questions or comments?

10          GARRICK: Thank you very much. And, we'll give you that  
11 opportunity in the future, for sure.

12          The next name on the list is Brian Elkins.

13          ELKINS: I appreciate you finding your way to this out  
14 of the way community. My name is Brian Elkins. I'm the  
15 Director for Community Development of the City of Caliente.  
16 However, I need to let you know I'm also a retired Navy  
17 officer and my entire career was spent as a medical  
18 contingency planner. My responsibilities on Camp Pendleton  
19 and in other locations was to plan for nuclear accidents,  
20 what would happen at San Onofre if they had a minor incident  
21 and how would we plan for it for the entire 40,000 military  
22 people on Camp Pendleton and the surrounding areas. That was  
23 my job.

24          I'd like to laud Mayor Phillips' comments and  
25 concur with them. I think those of us out here in the

1 hinterland are desirous of being involved in the policy  
2 making process. And, although we number few, Lincoln County  
3 is larger than Massachusetts with our 4500 people. Ninety-  
4 eight percent of our county is owned or, at least, controlled  
5 by the Federal government. So, the joke around here is you  
6 stick out your hands, turn around, and touch Federal land in  
7 all directions. And, it really significantly hampers our  
8 ability to have economic development because we literally had  
9 to buy 50 acres back from the Federal government to put in an  
10 industrial park on the west side of our town for \$150,000  
11 which is a significant amount of money for a small community  
12 to come up with so that they can have a chance to keep their  
13 children in the area as opposed to shipping them off to  
14 larger urban areas.

15           I've submitted my comments in writing. I'll let it  
16 be at that with this emphasis. I'd like you to seriously  
17 consider establishing the construction base, the supply base,  
18 and the support bases for this Caliente corridor railroad if  
19 it happens and if Yucca Mountain happens and establish it  
20 within Lincoln County. The logical place is right here where  
21 you're going to be taking your railroad off, especially for  
22 the supplies to come in and to continue on for your  
23 construction of your railroad.

24           And, a matter which hasn't been addressed, I'm sure  
25 the Fallinis are aware of this. If a railroad goes across

1 high desert land, there is a swath it cuts. Just the factor  
2 of a Michigan loader backing up and moving a load of gravel  
3 into a position for the railroad to be established destroys  
4 desert vegetation. And, I just envision maybe a quarter mile  
5 swath along this path where all the vegetation has literally  
6 been destroyed. And, there will be nothing there to take its  
7 place. It would probably take 150 years for the vegetation  
8 to recover back to the rail site. And, in the meantime,  
9 invasive weeds which we fight constantly out here, some of  
10 which are dangerous for animals, would invade because they  
11 propagate and regenerate much more quickly than sagebrush and  
12 other feeds that are appropriate for animals.

13           So, as you consider this corridor, consider having  
14 those type of mitigation measures where you can restore the  
15 land back to, at least, an approximation of what it was  
16 before. I seriously doubt that you're going to be planting  
17 sagebrush next to the railroad, but you might consider other  
18 vegetation to be planted. I'm sure Mr. Fallini and his  
19 family would be excellent people to tell you how to  
20 revegetate that construction site if that has to happen.

21           I have been involved in the safety issues, I'm sure  
22 as everyone at the table has, for many, many years. I'm  
23 familiar with the redundant safety systems in virtually all  
24 levels of handling this material. I'm especially  
25 knowledgeable of the redundant safety issues in the Navy and

1 how they handle their nuclear reactors and I am confident  
2 that this project can be conducted safely and that it can be  
3 of benefit to all concerned. Even those significant  
4 reservations of the Fallini family and other ranchers along  
5 the way might be mitigated to the point where impact is, at  
6 least, minimized and that they will be able to continue their  
7 livelihood and continue providing this country with the raw  
8 materials for food that they have so aptly done in the past.

9 I'll relinquish the rest of my time.

10 GARRICK: Thank you. Thank you very much.

11 Our next commenter is Hal Keaton.

12 KEATON: Good afternoon. I'm Hal Keaton. I'm a member  
13 of the Lincoln County Board of Commissioners and I'd like to  
14 welcome all of you here. I do appreciate the good work that  
15 you do.

16 I'm here to talk about the nuclear issues, waste  
17 issues in Nevada, and particularly in the transportation  
18 issues that directly or indirectly affect Lincoln County.  
19 I'm not going to get technical, believe me.

20 Contrary to what is continually stated in the  
21 various publications, not all of the members of the County  
22 government support this program. I'm one elected member who  
23 is opposed to this program in its entirety. First, I want to  
24 talk about the mixed messages sent by the Federal government  
25 which has caused a great deal of concern to the public.

1           When the Federal government first made this a  
2 public issue, they were not certain where they were going to  
3 dispose of the poisonous material. That was some 20 plus  
4 years ago. Then, they decided they would bury it, but they  
5 didn't know where and they decided to nail Nevada and bury it  
6 here. After several years of uncertainty, a decision was  
7 made to ship the material "mostly rail". However, due to  
8 some time constraints, it may have to be shipped by truck  
9 until the rail is built. They're going to bend the rules and  
10 ignore their own procedures to try and beat the race against  
11 time.

12           Let's take a look at the locations selected for  
13 burial. In 1982, Congress passed a law requiring "geologic  
14 isolation" for a waste repository to protect the future  
15 generations. As shown by DOE's own studies, Yucca Mountain  
16 cannot geologically isolate the waste. Water flows much  
17 faster from the surface through the mountain to the water  
18 table than had been expected. Yucca is formed from volcanic  
19 ash and the material is brittle and contains fractures and  
20 voids. Instead of selecting another location for this  
21 program, DOE just changed the rules. Instead of relying on  
22 the earth to protect our future generations, they're going to  
23 build a container of miracle metal called Alloy 22. DOE  
24 claims the containers made from Alloy 22 will confine the  
25 waste for, at least, 10,000 years. However, you folks, the

1 Nuclear Waste Technical Review Board, concluded there's no  
2 scientific basis to believe a container made from Alloy 22 is  
3 capable of providing the protection claimed by the DOE. I'm  
4 happy the Court ruled that the 10,000 year container is not  
5 acceptable.

6           I wondered how the dairy farmers in Amargosa Valley  
7 feel about this. That's where the contaminated water would  
8 flow. In January of 1909 (sic), DOE informed the Nuclear  
9 Waste Technical Review Board that the storage containers  
10 alone made up 99.7 percent of the containment at Yucca  
11 Mountain. The remaining containment consists of .008 Yucca  
12 Mountain geology, .09 percent Yucca Mountain overburden, and  
13 .2 percent fuel cladding. Yucca Mountain contributes only  
14 about .1 percent of the containment. Looking at it from this  
15 point of view, the mountain is basically a non-entity in the  
16 program.

17           I wonder why DOE hasn't considered placing the  
18 contaminated materials in the miracle metal containers that  
19 provide 99.7 percent containment and leaving the material at  
20 the location where it was produced. This would completely  
21 eliminate the hazards and safety concerns associated with  
22 transporting 77,000 plus metric tons of this material to cost  
23 our nation.

24           I want to focus now on the adverse effects that  
25 this program will have on Lincoln County. It was recently

1 announced that DOE would use mostly rail to transport nuclear  
2 waste to Yucca Mountain. Legal descriptions of the corridor  
3 indicate the line would connect in one of three points along  
4 the existing Union Pacific Railroad. One of these points  
5 being considered is in the City of Caliente. This is  
6 currently the largest population base in the county. I  
7 seriously question the rationale behind that idea. I'm sure  
8 the government will build the best railroad in the world.  
9 They have the money to do it.

10           However, the problem lies getting the waste from  
11 the producer to their rail line. In January of this year,  
12 the Union Pacific Railroad mainline suffered a major damage  
13 as a result of flooding. This occurred right here in this  
14 canyon where we are meeting. You saw a small portion of the  
15 results driving into the facility this morning. The rail  
16 line was washed away in over a dozen locations. Rail service  
17 completely ceased for the better part of two weeks. The  
18 railroad is now operating on temporary tracks. This  
19 condition will exist for several more months with very low  
20 speed limits on various sections of the rail line. Thanks to  
21 Robin and Russ, I had an opportunity to fly over the damaged  
22 areas on January 20th. One of the major damage areas is  
23 called Cottonwood Canyon which you saw a slide of in Bob's  
24 presentation. And, the input that was very obvious to me and  
25 others with me was the tremendous amount of materials. To

1 me, it looked like thousands of tons of material up in  
2 Cottonwood Canyon that will come over the railroad tracks in  
3 the next flood. Believe me, these floods occur quite often.  
4 Is this a safe place to transport nuclear waste? I don't  
5 think so.

6           The proposed rail corridor will go through Meadow  
7 Valley which is the little valley just north of here. This  
8 is one of the few areas in the county with private property  
9 that produces tax revenue. I believe that if this is going  
10 to happen, every effort should be made to keep the poisonous  
11 material as far away from the populated area as possible. Is  
12 it prudent to take more private property from the county and  
13 convert it to public non-revenue producing land? Let's  
14 remember that only 1.8 percent of this county is private  
15 taxable land. We don't need to take any more away because we  
16 can't afford it.

17           What about the private landowners? Did anyone ask  
18 them before the decision was made to identify this rail  
19 corridor? What about the cattle and sheep ranchers? Were  
20 they asked if this would be disruptive to their operations?  
21 That's rhetorical because, no, they weren't. Mr. Whipple, a  
22 cattleman, the Fallini family, ranchers, Mr. Uhalde, a  
23 sheepman, Mr. Heizer, an artist, Mr. and Mrs. Ward, owners of  
24 25 acres in the pathway of the proposed rail route in Meadow  
25 Valley, no, none of them were asked before this rail was

1 identified. And, no one asked me.

2           This proposed rail line is going to literally cut  
3 our county in two. This means changing how the private  
4 citizens do business. I would venture to say that this will  
5 be done with very little assistance from the Federal  
6 government, monetary assistance. It will be very difficult  
7 to move livestock east to west or north to south with a rail  
8 line cutting through the county. This is going to have a  
9 tremendous negative impact on those folks and that's just to  
10 name a few of the individuals. As time goes on, this will  
11 become more and more of a problem for them and others. The  
12 various local government bodies here are promoting the  
13 transportation of high-level nuclear waste through Lincoln  
14 County and are being led down the proverbial primrose path.  
15 I have asked several individuals, both in consulting  
16 capacities and associated with the DOE, about benefits. With  
17 the exception of the railroad construction which in the long-  
18 run is temporary, they are unable to tell me of any other  
19 benefit to this county, economic or otherwise, associated  
20 with this project.

21           I strongly urge each member of the public to attend  
22 local government meetings such as the Lincoln County  
23 Commission, Caliente City Council, Joint City Council Impact  
24 Alleviation Committee meetings, and other government  
25 meetings and make them aware of your concerns. All of these

1 members work for you, the public, and you need to let them  
2 know how you feel about this project. This nuclear waste  
3 transportation project is a bad idea and it will never be a  
4 good idea.

5 Thank you.

6 GARRICK: Thank you. Thank you very much.

7 Our next speaker is Louis Benezet.

8 BENEZET: My name is Louie Benezet. I live near Pioche  
9 at the old Prince Mine. Just to give you a brief idea of who  
10 I am, the railroad from Caliente to the Prince Mine, the  
11 railroad spur runs up about 30 odd miles around the town of  
12 Pioche and ended up at the Prince Mine. It was abandoned by  
13 the Union Pacific back in 1985. But, the year that railroad  
14 was constructed about 1912 or so was the year that my family  
15 came out to this country. They were involved in the mining  
16 of the Prince Mine operation. The railroad grade, as I say,  
17 from Caliente follows the Meadow Valley Wash north past  
18 Panaca and the old milling camp of Boullionville and there it  
19 enters Condor Canyon and swings around and comes right south  
20 of the town of Pioche and then around the Pioche Hills ending  
21 at the Prince Mine. As I say, now it's gone.

22 One of the proposals for transporting high-level  
23 radioactive waste by rail spur from Caliente would involve  
24 using the old grade that is described there. The other  
25 alternatives, of course, one would come up off the rail line

1 about five miles further east near Eckles and cut across, I  
2 presume, near the Beaver Dam Road and out through Bennet Pass  
3 and then, of course, there's a line that cuts off further  
4 north out at Crestline. Can I walk over by this map?

5 (Pause.)

6 BENEZET: Here is Caliente. This is the basic Meadow  
7 Valley area north of Caliente. The town of Pioche is here.  
8 You can't see the old railroad grade. Of course, it's gone  
9 now, but it went out from Panaca up this canyon and then  
10 swung back towards Pioche, around the hill, and over to the  
11 Prince Mine. That was what I was driving at earlier. Okay?

12 The Union Pacific route comes from a point east of  
13 Caliente. It actually swings quite a ways south before it  
14 comes north again and west towards Caliente. The points  
15 where the railroad potentially could cut off would be at  
16 Caliente itself going up the Meadow Valley Wash. That goes a  
17 little further up the railroad track cutting across some  
18 hills. (Inaudible) fairly steeply out of the canyon at the  
19 point and then come down into Meadow Valley near Panaca and  
20 again joining the other route, head west through Bennet Pass.

21 The third route is the Crestline route. So, that  
22 originates pretty much due east and cuts around, doesn't come  
23 down the canyon, Clover Creek Canyon, but cuts straight  
24 across pretty much.

25 As far as the rail routes are concerned, these are

1 the ones that are of most concern to me as somebody who lives  
2 right in this area. It's interesting that if you live out  
3 near Reveille, for example, you have a different perspective,  
4 as the Fallinis do. And, it's important that everybody from  
5 different areas of the county or different areas that are  
6 going to be affected here have an opportunity to inform you  
7 about their special concerns. For example, according to the  
8 their comments, it seemed a good idea once they got it out  
9 across this point to cross down through the Nellis Range. Of  
10 course, from my point of view, once it's gotten past here,  
11 I've already been exposed to it. Okay?

12           Now, one of the other things that I noticed in  
13 there, I was interested in the presentation that was given by  
14 the fellow from the Department of Energy, Gary Lanthrum, and  
15 some of the comments of the Board members here who asked  
16 questions about the alternate forms of transportation,  
17 whether truck or intermodal. And, it's pretty clear as far  
18 as I've read the documentation, the Record of Decision, is  
19 that the intermodal thing is very much still a part of the  
20 transportation scheme to Yucca Mountain. It could very  
21 likely be the way in which this waste first gets carried. In  
22 reading those documents, however, and I've asked people from  
23 the DOE and I've gotten different answers, it's not clear  
24 that the designation of the intermodal is specified where it  
25 would be. In other words, there's the idea that there would

1 be an intermodal facility somewhere where stuff would be  
2 taken off of the train and put on trucks, but it doesn't  
3 specifically say that that would be in Caliente. Maybe  
4 somebody can illuminate me about that. I don't know. But,  
5 from my perspective, this becomes the one other option that  
6 is very important to me, not just the three possible rail  
7 routes in this part of the county, but also the potential  
8 intermodal facility.

9           Now, going back to about 1995, the Mayor of  
10 Caliente and various other people who worked with him on the  
11 Federally funded oversight program that the Department of  
12 Energy funded for Lincoln County actually recommended that  
13 the intermodal facility at Caliente be developed. And,  
14 there's been quite a bit of, I think, back and forth between  
15 the DOE and Congress and everybody else to try to promote  
16 this idea. My concern is that in a way the people that were  
17 trying to promote this for economic development purposes sort  
18 of put the cart before the horse because, as we've seen  
19 today, there are a lot of questions that the people want  
20 answered about the issues here. The time to do a decision to  
21 advocate a particular type of routing or whatever would seem  
22 to me to be after the public and everybody concerned has been  
23 involved and we have a chance to hear what some of the  
24 concerns would be. Mayor Phillips mentioned, for example,  
25 that some studies had been done in answer to one of your

1 questions about the flooding problems in this area. And, I  
2 know from having studied through the documents that have been  
3 produced by our local nuclear waste program which has to  
4 date, I think, received about \$10 million from the Department  
5 of Energy going back to the mid-80s, there's very little work  
6 that really has been done on the level that would be needed  
7 to assess the kind of damage that's indicated by the recent  
8 events. Okay?

9 (Pause.)

10 BENEZET: I guess I can do that from here. I can go  
11 through this fairly briefly. Do you all have a copy of my  
12 little map? Your map may not have the color coding that mine  
13 has.

14 On my map, I guess I have to turn it around this  
15 way. The railroad line is indicated here. If you can orient  
16 the map so it is more vertical. The railroad line is  
17 basically here. It comes into Caliente which you see here.  
18 This just shows just the Caliente environment. And then, it  
19 goes through the town of Caliente and continues on down  
20 Rainbow Canyon. So, this is Clover Canyon coming down here,  
21 Meadow Valley Wash comes down here, the two join and flow  
22 into the Meadow Valley Wash or Rainbow Canyon. Okay?  
23 Highway 93 is coming down here. It also joins parallel to  
24 the railroad just briefly through Caliente and heads out west  
25 up Highway 93 up to what's called Newman Canyon. Okay?

1           The blue on my map show some of the local flood  
2 channels. This is Antelope Canyon which flows into the  
3 Meadow Valley Wash just north of Caliente. This is the  
4 Meadow Valley Wash coming down from Panaca and areas north.  
5 This is Newman Canyon which flows down Highway 93. So, as  
6 you leave Caliente going towards Las Vegas, you'll go up  
7 right by that water course until you get to the top of the  
8 ridge about 15 miles out of town or whatever it is. Then, of  
9 course, this is the continuing channel of the Meadow Valley  
10 Wash going south. And, this little spur on the side shows a  
11 small canyon we call Kershaw Canyon where the State Park is  
12 located.

13           If you look on my map here, X marks the spot. I  
14 have it in red of the proposed intermodal facility which is a  
15 little less than a mile south of Caliente across on the west  
16 side of the tracks near the site of the Caliente Sewer Ponds.  
17 The reason I drew all this was that we do have plenty  
18 events, but we don't always have them all at once.

19           So, the flood that just now happened came down  
20 Clover Creek to Caliente and went south crossing under the  
21 railroad just past the town of Caliente, making a curve  
22 there, and managing to get under the railroad without washing  
23 out the bridge, thank God. However, about a year ago, not a  
24 very big flood compared to ones in the past, came down the  
25 Meadow Valley Wash and washed out part of Highway 93 up here.

1 And, of course, the water continued down into Caliente. It  
2 wasn't near as big as this recent flood. And then, a year  
3 ago--more than a year ago, a year and a half ago back in  
4 August of summer before last, a flood came down Newman  
5 Canyon, and in their excitement over developing the  
6 intermodal facility some of the City fathers had already  
7 built a little railroad leading from Highway 93 across the  
8 gulch here and down to the potential intermodal site only to  
9 have it washed out by that flood that came down Newman Canyon  
10 in the summer of 2003.

11           So, my point here is recently the region was  
12 covered with about a foot of snow. It warmed up the next  
13 week, we had rain. Fortunately, all the rain pretty much  
14 came down Clover Canyon, but it could have been general.  
15 Going back to many years in the past, famous winters would  
16 have been like the winter of 1948 or so where this area was  
17 covered with three to four feet of snow. And, there was a  
18 threat that there might be a thaw and they had the Army Corps  
19 of Engineers out here in force sandbagging the town of  
20 Caliente trying to protect this place.

21           Now, there really is going to be transportation  
22 hazards. I know that the Mayor believes that the  
23 transportation of nuclear waste is maybe not as great an  
24 issue as chlorine or ammonium perchloride or certain other  
25 things. But, nuclear waste transportation does involve

1 particular problems and the question of risk combined with  
2 perceived risk, even though you may think that's not  
3 important, I think is very important. When you're talking  
4 about the economy of the small town in Nevada, just the fact  
5 that an accident or even an event has occurred near Caliente  
6 could be really disastrous as far as the future of the  
7 community is concerned. The problem would perhaps be  
8 somewhat acceptable if we felt that this transportation was  
9 passing through. In other words, just knowing that there  
10 might be a storm event or some major problem, the trains  
11 could be held for a short period of time until that was  
12 corrected. But, if you actually had a station here where you  
13 were off-loading casks preparatory to transporting them  
14 further west, but you had a number of casks already off-  
15 loaded from trains and more trains coming in perhaps to stack  
16 up on a weekend when they aren't moving and then combined  
17 with a weather event such as we've had recently, I think you  
18 could see that there would be very serious concerns about  
19 having that sort of facility located in a place like  
20 Caliente.

21           There are other things I could say on the issue.  
22 I'm very interested in it. But, I don't want to take up any  
23 more time. So, thank you very much.

24           GARRICK: Thank you. Thank you very much.

25           Our next commenters, we have two people that slid

1 in the same box, Judy Treichel and Peggy Maze Johnson.

2       TREICHEL: I'm Judy Treichel. I'm with the Nevada  
3 Nuclear Waste Task Force. Just very briefly, I want to say  
4 that yesterday in the TRB meeting I talked about there being  
5 a kind of a dishonesty with word games that get played. And,  
6 I think I saw one here today when Gary Lanthrum was up at  
7 that microphone and Joe Fallini was over here and talking  
8 about decisions being made on the basis of the EIS. And,  
9 back at the time of the original EIS in Las Vegas, we were  
10 involved because we were making decisions that were a long  
11 way away from us. You were not involved. And, other people  
12 weren't involved when a lot of these decisions were being  
13 justified by an EIS that did not have the involvement of the  
14 people that are actually affected. And, this comes down to  
15 when you say that, well, you get involved now, but the  
16 important decision has already been made. And, Federal  
17 agencies have talked for a long time about something that  
18 they needed to avoid. They needed to learn to avoid what  
19 they called DAD, D-A-D, decide, announce, and defend. And,  
20 that's what's happened. Caliente route got decided. It  
21 there on the picture. It got announced. And, now, they're  
22 out here to defend it. And, that's not the way the NEPA  
23 process works and it shouldn't work that way. So, that was  
24 the only comment I had. I think this is a meeting where the  
25 rural people should be speaking.

1           And, the reason that I brought this in was that  
2 Peggy Maze Johnson from Citizen Alert was not able to be  
3 here. She prepared a written comment which I will give you  
4 and you can make copies of. What this is is it's especially  
5 important because there was talk about the Department of  
6 Energy going out and doing interviews with people. And, this  
7 has the notes of someone that was interviewed and what their  
8 opinion was of that and they weren't particularly impressed.  
9 So, I think you can see when you read this--I'll give it to  
10 the staff to make copies and you can see what's actually  
11 going on out here.

12           Thank you.

13           GARRICK: Okay. Thanks, Judy.

14           Our next speaker is Bud Sanders.

15           SANDERS: Good afternoon. My name is Bud Sanders. I'm  
16 a Caliente resident and a Caliente businessman. My issue is  
17 very simple, the solution to it also could be very simple.  
18 Most of your route is pretty well dedicated where you want it  
19 to go. A major loose end is where you're going to, as Gary  
20 referred to it, tie in at Caliente. The term "tied in" is  
21 not very accurate for the way railroads join. Where the spur  
22 joins a mainline, the rails are not always connected to the  
23 mainline. It's what we call a switch. Unless there's trains  
24 passing through there to actually switch it over, then the  
25 rails of the spur are actually several inches from the rails

1 of the mainline.

2           Historically, at switches and crossings and sidings  
3 have been a major accidents of railroads. In the 200 years  
4 that railroads have been active in this country, there has  
5 not been much improvement made on the method used to switch.  
6 Historically, there were people that manually did it and now  
7 we have electric motors that do it. Maybe in the next 100  
8 years, they'll find a better way to do this. I don't foresee  
9 that happening in the scope of the near future in Caliente.

10           My issue is this. You have three proposed  
11 alternatives. You have two north of here where there are no  
12 local population to them and you have Caliente. Caliente,  
13 within a quarter to three-eighths of a mile of where this  
14 intersection of these trains would be, has the entire  
15 population and the businesses of our town. I would just like  
16 to ask you to remove the Las Vegas downtown site as one of  
17 your alternatives and select one of the northern routes.

18           Thank you.

19           GARRICK: Thank you.

20           KADAK: Mr. Sanders, just a quick question. I thought  
21 you were going to talk about the three routes that affect  
22 Caliente.

23           SANDERS: I'm talking about where, as Gary says, your  
24 spur that ties in to the UP mainline.

25           KADAK: Okay. You didn't mean--so which one of the

1 three do you recommend?

2 SANDERS: Either one of the two north of us do not have  
3 any kind of a local population with them. If there was a  
4 train wreck and we had within the last few years a major  
5 head-on collision just north of here. If that had occurred  
6 in downtown Caliente, it would have annihilated many of our  
7 businesses and killed a lot of people. This higher risk  
8 intersection, putting it in our little town, is not justified  
9 by any increase in the cost or difficulty of putting it in a  
10 more remote location.

11 KADAK: So, you don't recommend the Pioche route?

12 SANDERS: Either there is Pioche--the alternatives is  
13 making this intersection in downtown Caliente or about five  
14 miles north of here there's a location called Eckles and then  
15 about 15 miles north of there is one called Crestline.  
16 Crestline or Eckles, neither one, are near an occupied area.  
17 Those both in my opinion would be better choices than  
18 endangering the people of Caliente.

19 KADAK: Thank you.

20 GARRICK: Our next speaker is Calvin Myers. Oh, I'm  
21 sorry, I'm sorry. Larry Lital?

22 SPEAKER: (Inaudible).

23 GARRICK: Oh, well, that's what happens. How about  
24 Laurel Marshall?

25 MARSHALL: There's been some confusion today and it's

1 certainly justified regarding private property right and  
2 private property ownership as far as what we're talking about  
3 on these maps. And, it really is really justified because  
4 what this map shows you is, indeed, the Caliente corridor.  
5 That's a very true statement. What it also shows you is the  
6 jurisdictional boundaries of the land management agencies for  
7 this area, be it military, the Forest Service, or in white  
8 you have private property ownership of people which is in  
9 this case private land. Private land is a component of  
10 private property, but it's only one component. What you see  
11 here is the jurisdictional boundaries of the dirt.

12           What we're discussing as far as private property  
13 rights, if you were to overlay on this map over the Caliente  
14 corridor, an overlay showing the private property rights of  
15 this corridor, which you can't because neither county has  
16 ever done this, what you would see are private property  
17 rights that stretch from here to here. There is no place out  
18 here that is not covered by a private property right.

19           Water in--and I can only speak for Nevada and I'm  
20 sure every state's are similar. Private property ownership  
21 in Nevada, water rights can be owned without owning the dirt  
22 that they come from. It's no different than the ownership of  
23 a house and the ownership of your yard. It's a private  
24 property taxable right that's on your tax bill from the  
25 county. You own the water. It's not something that someone

1 can come and take without a taking, it's not something that  
2 someone can come and borrow or use. It is your private  
3 property. It's the same with mineral rights in the State of  
4 Nevada. Other states, I can't speak for. It's the same with  
5 grazing rights.

6           Grazing rights cover--blankets the state. There  
7 are areas where they no longer exist, that's true. The  
8 Quinn, one of them--the Quinn Wilderness Area was declared  
9 wilderness. The private property rights to graze the Quinn  
10 Wilderness were taken from the ranch and it was a taking, a  
11 governmental taking, which has been established in a Court  
12 case, but this is a taking. They were private property.  
13 When you have these ranches that are passed from generation  
14 to generation, the Internal Revenue Service taxes you on your  
15 animal unit month on your grazing value that you have on  
16 these rights.

17           If you look at this map, this says land use and  
18 ownership. Now, what this shows you is jurisdictional  
19 boundaries of major land management agencies. It only shows  
20 you private ownership of certain land, dirt, yes, it does.  
21 But what you desperately need to see is the overlying private  
22 property rights that exist within the Caliente corridor. I  
23 cannot possibly stress to you how essential it is to see  
24 because if you look at this map, this map says there is no  
25 use out there. What does this tell you about how that land

1 is used? You see a road, you see a railroad, you see  
2 military. This map tells you nothing about the use of that  
3 land. It tells you nothing about the private property rights  
4 that exist and have existed for over 100 years on this  
5 corridor.

6           It's the same with this map. This map says  
7 Caliente corridor land use. This tells you nothing,  
8 whatsoever, about the use of the land. This tells you where  
9 the Caliente corridor lies and it tells you--and if you read  
10 the small print, it says "the jurisdiction information based  
11 on land ownership." What you see here is jurisdictional  
12 boundaries of Federal land management agencies and also  
13 included the jurisdictional boundaries of the private  
14 property ownership as far as land. You desperately need to  
15 see an overlay of the private property which exists on this  
16 Caliente corridor.

17           Does that help?

18       SPEAKER: That's clear. That helps.

19       GARRICK: Thank you.

20           Our next speaker is Connie Simpkins?

21       SIMPKINS: Thank you, Board members, for making the  
22 effort to be here and to listen to the people that will be  
23 most directly affected.

24           I have two letters to submit as part of the formal  
25 record of this meeting that were written by the In Four State

1 Grazing Board. The In Four State Grazing Board is an elected  
2 board under the Nevada revised statutes. It's a political  
3 subdivision of the State of Nevada and it's comprised of  
4 ranchers that ranch in White Pine County and Lincoln County.  
5 And, the land uses that Laurel was talking about a minute  
6 ago across the Caliente rail corridor just in Lincoln County,  
7 Nevada, there are 39 ranches that are directly crossed by  
8 this proposed rail corridor. There are, at least, another  
9 dozen ranchers in Nye County and Esmerelda County that are  
10 directly affected and crossed by this proposed rail corridor.

11           A couple of the points I want to make, I won't read  
12 all of these questions on these letters, but there are 24  
13 questions that my Grazing Board--I work for the Grazing  
14 Board. I am not a part of the Grazing Board, I am not an  
15 elected member, I'm an employee. There are 24 questions in  
16 this letter that were posed by my Grazing Board a year ago to  
17 the Department of Energy and they deal with things like  
18 access and water and continued uses and recreational uses,  
19 historic uses, and the of fragility of the soils, and how in  
20 the world is an operation going to continue when a railroad  
21 comes right through the middle of it. Just think about it.  
22 I know you're all from different backgrounds and all from  
23 different business acumens, but if your physical business was  
24 literally cut in half with a railroad, how would you  
25 function?

1           Now, I will submit these questions in written form  
2 and that's the end of my comments for the In Four Grazing  
3 Board. We have serious comments and serious concerns about  
4 how those businesses can continue.

5           Now, I want to say just a couple of things about my  
6 own business. I run a little newspaper that covers this  
7 county and it doesn't matter which one of the three  
8 alternatives you use from the Union Pacific mainline, you're  
9 going to cut my business absolutely in half and I'm not  
10 kidding. We are located, if I--that piece of white on that  
11 map is the 1100 acres that belongs to my boss. We are  
12 literally--it doesn't matter if you come up the mainline and  
13 you leave Caliente on the old rail line that Louie talked  
14 about or it doesn't matter if you go up here five miles to  
15 Eckles and then come out around the back side and up through  
16 private property that goes along this Y or it doesn't matter  
17 if you go clear up to Crestline and then come down across and  
18 through Panaca or through the edge of Panaca and across,  
19 you're going to cross my business. You're going to cut my  
20 office right in half. And, there's no way for you to make me  
21 whole. I'm relying on your integrity to be honest enough to  
22 take a scientific look at this and leave the politics behind.

23           GARRICK: Thank you.

24           Now, that's all of the people that I have on the  
25 list. Of course, if anybody is inspired to want to make a

1 few comments, we'd be delighted to hear from you.

2           Yes?

3           DITRAZ: My name is Marge Ditzaz. I was born in  
4 Caliente on August 22nd, 1926. I've lived here most of my  
5 life, same as Connie Simpkins and many people that have  
6 spoken here today. As you can see my shirt, it says  
7 "Nevadans Say Nuclear Waste, No Way." On the back, it says,  
8 "Don't Waste America."

9           You know, folks, why do you think the Nevada  
10 delegation fights this Yucca Mountain Project? Because  
11 they're all native Nevadans also. And, I'm so thrilled when  
12 I hear you say something about your budgets, cutting your  
13 budgets. Goody, great for Senator Reid and every one of our  
14 Congressmen and Senators. I don't know what we'd do without  
15 them.

16           If you and I came up with a plan like this to drag  
17 this stuff across 43 states for 30 years, they'd put us in  
18 the booby hatch and they should. This is the nuttiest idea  
19 that's ever happened in this whole world. And, why should  
20 these people that have owned this land for 130 years? It's  
21 where they make their living. And, you keep it back there.  
22 We know you can do it in dry cask storage for 100 years. I  
23 don't know how many times Harry Reid has told you that. I  
24 don't know how many times I've told the JCCIAC and the  
25 Lincoln County Commission. Hal Keaton was absolutely right.

1           In Lincoln County, the problem is people don't go  
2 to the meetings. Well, Louie Benezet and I have gone to  
3 every JCCIAC meeting and the same with the Lincoln County  
4 Commission and it's--

5           (Pause.)

6           DITRAZ: Is it there now?

7           SPEAKER: There.

8           DITRAZ: Okay. But this is absolutely politics. Mayor  
9 Phillips isn't the Mayor of Lincoln County, but that's the  
10 way it works in Lincoln County. And, I don't care what  
11 anybody says, this is a crazy idea and I hope it stops right  
12 where it is because that's what should happen to it.

13          GARRICK: That's what I like, somebody that speaks  
14 clearly.

15           Well, this concludes our comment period and, as a  
16 matter of fact, our meeting.

17           I want to before we close though thank a few  
18 people. I want to thank Mayor Phillips and I want to thank  
19 Patrice Lydell (phonetic) of his staff and I want to thank  
20 the staff of the Youth Center, Jamie Killian especially.  
21 And, of course, we want to thank a couple of people on the  
22 staff of the Nuclear Waste Technical Review Board who made  
23 these arrangements which were excellent and that's Linda  
24 Coultry and Alvina Hayes.

25           But, mostly, what I want to do is thank the

1 audience and the people who spoke today. You did yourself  
2 very proud. I've probably over 50 years of nuclear safety  
3 related work attended maybe 100 forums where the public had  
4 an opportunity to speak in this manner and I can't remember  
5 one that was any better than today in terms of the interest,  
6 the enthusiasm, and in the sense that we were really in one  
7 public forum and getting access to the public. So, we very  
8 much appreciate the comments we received and we look forward  
9 to having the opportunity to do this again.

10           Thank you very much.

11           (Whereupon, the meeting was adjourned.)

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