

**THE VETERANS' ADVISORY BOARD ON DOSE RECONSTRUCTION**

**MEETING II**

**DAY ONE**

The verbatim transcript of the Meeting of the Veterans' Advisory Board on Dose Reconstruction held at the Sheraton Gateway Hotel, Los Angeles, California, on January 12, 2006.

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January 12, 2006

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

(9:00 a.m.)

CALL TO ORDER AND OPENING REMARKSMR. WILLIAM R. FAIRCLOTH, DESIGNATED FEDERAL OFFICER

1  
2  
3           **VICE ADMIRAL ZIMBLE:** Ladies and gentlemen,  
4           it's now 9:00 o'clock. Good morning, everyone.  
5           I'd like to call this meeting to order. We'll  
6           start promptly so that hopefully we can end  
7           promptly.

8           I welcome all the Board members. I thank all  
9           of you for your diligent work in preparation  
10          for today's and tomorrow's session, and I  
11          welcome all of our visitors that have come to -  
12          - to watch us in action.

13          I would remind everyone that these mikes need  
14          to be turned off unless you're using them.  
15          When you use them, I just press the button and  
16          get the little red light. And I would also ask  
17          that -- that folks turn off your cell phones,  
18          please, or put them on vibrate, but -- awfully  
19          important that we don't -- that we don't  
20          destroy the -- some of the recordings that  
21          we'll be making.

22          And I'd now like to turn the meeting over to  
23          Mr. Faircloth for some opening remarks.

24          **MR. FAIRCLOTH:** Thank you, Admiral. I'm the

1 Designated Federal Officer that provides an  
2 overwatch to this, Board members. My name is  
3 Ronnie Faircloth. I'd like to echo Admiral  
4 Zimble's remarks in welcoming those that are  
5 here. I appreciate everything -- in  
6 newsletters and everything else -- in trying to  
7 get the attendance here because the  
8 communications piece of this is an important  
9 element of it. Not only the accuracy of dose  
10 reconstruction, the timeliness, the  
11 effectiveness of the communications is also  
12 terribly important. So I appreciate those of  
13 you that invited other veterans to attend so  
14 that they can provide their input because we  
15 think that's extremely valuable.

16 I also would like to thank the Board members.  
17 I think we have a world class set of Board  
18 members on this committee, that each of them  
19 with their respective expertise is going to add  
20 tremendous value to looking at all aspects of  
21 this program. So I would like to thank them  
22 for their efforts.

23 This is the second plenary. Much has been done  
24 since the last one we had in Tampa, and I look  
25 forward to the continued progress so that we



1 can continue to improve on serving our great  
2 veterans. So I think if you looked outside,  
3 there is a number of handouts that are  
4 available to you, to include the agenda for  
5 today and tomorrow. There are two designated  
6 public speaking periods where you can not only  
7 make presentations if you signed up, but ask  
8 questions of all of us -- the speakers, the  
9 presenters, the Board members -- and I  
10 encourage you to do so.

11 We've got a heavy agenda so I would like to  
12 move on expeditiously, and at this time I would  
13 like to reintroduce the Chairman of the  
14 Veterans Advisory Board on Dose Reconstruction,  
15 Navy Vice Admiral James A. Zimble, Retired;  
16 former Surgeon General of the United States  
17 Navy. Thank you, sir.

18  
**INTRODUCTION OF THE VBDR MEMBERS AND**  
**CHAIRMAN'S WELCOMING REMARKS**

19  
**VICE ADMIRAL JAMES ZIMBLE, CHAIR**

20 **VICE ADMIRAL ZIMBLE:** Thank you, Mr. Faircloth.  
21 Thank you. I -- I have a -- the former Surgeon  
22 General of the Army, Ron Blanck, who's -- I  
23 want to make sure that he keeps me straight on  
24 the same button that I talk to him about.

1 I want to -- I really want to thank the members  
2 of the four subcommittees for the work that  
3 they've put in over the last few months in --  
4 in starting the process of -- of meeting the  
5 obligations of the charter of this Board. And  
6 as you know, we -- our -- our sole job is to --  
7 is to find ways to expedite the processing of  
8 the claims that have been -- that have been  
9 made, and to meet the needs of the -- we'll  
10 call the atomic veterans. And we all know what  
11 those cohorts represent, people who have served  
12 our nation well and who deserve a hearing,  
13 deserve our ability to communicate with them  
14 and to listen to what they have to say. So I'm  
15 delighted that -- that we have some  
16 participants for the public comment session  
17 this afternoon and tomorrow, and we look  
18 forward to hearing from you.

19 In the meantime, we have to educate our Board.  
20 We have two of -- some prestigious speakers  
21 this morning who will -- will give us some more  
22 information about these topics that we're  
23 discussing.

24 I'd like to introduce the Board. I think the  
25 easiest way to introduce the Board to the -- to

1 the participants here is to ask them to  
2 introduce themselves, we'll start with -- with  
3 Dr. (sic) Beck.

4 **MR. BECK:** My name's Harold Beck, I'm a private  
5 consultant in radiation dosimetry and radiation  
6 dose reconstruction, and retired from the  
7 Department of Energy a number of years ago.

8 **DR. BLANCK:** I'm Ronald Blanck, currently  
9 president, University of North Texas Health  
10 Science Center, former Army Surgeon General.

11 **DR. BOICE:** I'm John Boice. I'm a radiation  
12 epidemiologist and have spent my career  
13 studying the effects of radiation on numerous  
14 populations throughout the world exposed to  
15 radiation. I'm professor of medicine at  
16 Vanderbilt University, and scientific director  
17 of the International Epidemiology Institute. I  
18 also have served in the United States Public  
19 Health Service as a commissioned officer for 28  
20 years, first with the Food and Drug  
21 Administration, and then ended my career at the  
22 National Cancer Institute.

23 **MR. GROVES:** Good morning. My name is Kenneth  
24 Groves. I'm a retired Navy Commander. In my  
25 Navy career I had eight years enlisted service

1 as a hospital corpsman, was involved in my Navy  
2 career in the Navy's Nuclear Weapons  
3 Radiological Controls program. When I retired  
4 I worked for the University of California at  
5 Los Alamos National Lab, and I now have my own  
6 private consulting business. Thank you.

7 **DR. LATHROP:** My name is John Lathrop. I --  
8 when I came on board this committee I was an  
9 independent consultant. Now actually I'm  
10 employed at the Lawrence Livermore National  
11 Laboratory in the Systems and Decision Sciences  
12 section. I'm a decision analyst and risk  
13 analyst.

14 **DR. MCCURDY:** I am David McCurdy. I'm a  
15 technical consultant, mainly for the government  
16 agencies, Department of Energy, EPA and the  
17 national laboratories. My background is in  
18 radiometrology and looking at the radioactivity  
19 and radiation measurements is my expertise, and  
20 I'm on the subcommittee on quality management.  
21 Quality assurance is one of my strengths as --  
22 and we were chair of several ANSI committees on  
23 quality assurance related to laboratory  
24 analyses.

25 **DR. BLAKE:** I'm Paul Blake, a retired Naval

1 officer. I retired just about a year ago from  
2 active duty. At that time I was serving as the  
3 senior physicist in the Navy Medical  
4 Department. I now serve as the Nuclear Test  
5 Personnel Review program manager at the Defense  
6 Threat Reduction Agency.

7 **MR. PAMPERIN:** Good morning. I'm Tom Pamperin.  
8 I'm the assistant director for policy of the  
9 Compensation and Pension Service of the  
10 Department of Veterans Affairs, 34 years of  
11 federal service and I am a retired Reserve  
12 Lieutenant Colonel.

13 **DR. REIMANN:** I'm Curt Reimann, retired from  
14 the National Institute of Standards and  
15 Technology where I've spent 43 years, mainly as  
16 a chemist. I retired there as director of the  
17 Malcolm Baldrige National Quality Award. My  
18 main role here is in quality management, and  
19 I'm currently a professor of quality  
20 management, performance management, at  
21 Tennessee Tech University.

22 **DR. SWENSON:** Good morning. I'm Kristin  
23 Swenson. I'm retired Air Force, and currently  
24 I'm working as a medical physicist for the  
25 company RadAmerica in radiation oncology

1 clinics.

2 **COLONEL TAYLOR:** Good morning. I'm Edwin  
3 Taylor. I'm a retired Army Colonel, 30 years  
4 service, Korea, two volunteer trips to Vietnam,  
5 Berlin, extensive service during the Cold War.  
6 I also was a close-in observer to atomic blast  
7 at Desert Rock and walked immediately to Ground  
8 Zero, so I have some unique experience in this.  
9 And I've spent the 23 years since I retired  
10 working principally with veterans outfits and  
11 veterans organizations, and it has been an  
12 absolutely marvelous experience for me. And to  
13 be selected for this committee is indeed an  
14 honor. Thank you.

15 **MR. VOILLEQUÉ:** Good morning. I'm Paul  
16 Voillequé. I'm a certified health physicist.  
17 I operate a one-person consulting firm, and  
18 I've been involved in a number of dose  
19 reconstruction projects. And that's my  
20 contribution to the Board.

21 **DR. ZEMAN:** Good morning. I'm Gary Zeman. I'm  
22 a retired Navy Commander. I was a radiation  
23 health officer in the Medical Service Corps for  
24 20 years. I'm an expert in radiation  
25 measurements and radiation safety. Since

1 retiring from the Navy I've gone on to use my  
2 radiological expertise. I've worked at AT&T  
3 Bell Laboratories as radiological safety  
4 officer. I worked at Argonne -- I'm sorry, I  
5 worked at Lawrence Berkeley National  
6 Laboratory, and just recently I've transferred  
7 to Argonne National Laboratory in the Chicago  
8 area. I'm very proud and pleased to be a  
9 member of this Board.

10 **VICE ADMIRAL ZIMBLE:** I thank you all very much  
11 for those introductions. I think that you'll  
12 all appreciate the level of expertise this  
13 Board has. They manage to teach me something  
14 every time I talk with them, and it was no  
15 question in my mind -- there's no question in  
16 my mind that -- that these are the experts.  
17 These are the individuals can -- can look at  
18 the role that this Board has to play and -- and  
19 hopefully come up with some recommendations  
20 that's going to expedite the process for  
21 meeting the needs of -- of the atomic veterans.

**BOARD DISCUSSION SESSION**  
**DISCUSSION OF THE CHARGE AND BOARD RESPONSIBILITIES**  
**REVIEW AND BOARD APPROVAL OF AUGUST 17-18, 2005 MINUTES**

22  
23 I would remind you that the Advisory Board has

1           -- has the following tasks. One is to conduct  
2           periodic and random audits of dose  
3           reconstruction under the radiation dose  
4           reconstruction program, and to look at the --  
5           audit the decisions that have been made by the  
6           Department of Veterans Affairs on the claims  
7           for service in connection with radiogenic  
8           diseases; and then assist the Department of  
9           Veterans Affairs and the Defense Threat  
10          Reduction Agency in communicating to the  
11          veterans the information on the mission,  
12          procedures and the requirements of the dose  
13          reconstruction program; and then to carry out  
14          whatever activities we -- we uncover as -- as  
15          potential places for us to -- to recommend  
16          improvements, both improvements in the process  
17          to the Agency-- the Veterans Advisory -- the  
18          Veterans Administration, as well as to the  
19          Defense Threat Reduction Agency and NTPR.  
20          We have as our first job is to review the  
21          minutes of the last meeting in Tampa, and I'd  
22          appreciate any comments that -- that folks  
23          have. They've been approved, but I would  
24          appreciate any comments that any Board members  
25          might have regarding those minutes, and it's --



1 the next formal piece of business will be to  
2 accept those minutes for the record.  
3 By the way, I would remind everyone that we  
4 have a viable web site, vbdr.org, which -- okay  
5 -- vbdr.org, and you can look at that web site  
6 and you can see the bios of the various  
7 members, the mission, the charter. The minutes  
8 are always included on the web site, and we'll  
9 always keep the public informed as to our  
10 progress as -- as we move on through these  
11 various meetings.

12 I just got a note -- we have one member of the  
13 Board who can't be with us today but who -- who  
14 can't be with us in person, but who is  
15 currently on the telephone, and so Elaine --  
16 Dr. Vaughan, I apologize, and Elaine, I welcome  
17 you to the Board.

18 **DR. VAUGHAN:** (Via telephone) Thank you. Good  
19 morning. My name is Elaine Vaughan. I'm a  
20 professor in the Department of Psychology at  
21 the University of California, and I've spent my  
22 career looking at issues involving risk  
23 communication and public participation in the  
24 risk assessment process. And I'm honored to  
25 have been appointed to this Board.



1 the work that deals with our use of the  
2 reconstructed doses that the veterans have  
3 received is -- is in -- is placed into the  
4 IREP, which -- which I know Dr. Land will  
5 explain. And that -- that program allows us to  
6 assess the probability of causation of the --  
7 that dose of radiation with a specific  
8 radiation -- potential radiation-induced  
9 condition or disease. So he -- he's got  
10 terrific credentials. He's with the -- a  
11 member of the NIH working group to prepare the  
12 radioepidemiology tables. He has done a lot of  
13 the preparation for the IREP and the revised  
14 IREP report. He's been a member of the NCRP  
15 from 1981 to the present, and he's with the  
16 International Committee in Radiation Protection  
17 Committee -- one on risk -- for many, many  
18 years.

19 So Dr. Land, welcome, and thank you so much for  
20 coming.

21 **DR. LAND:** Thank you. Let me see, I'll have to  
22 -- this'll take a little bit, just -- okay.  
23 Well, the program, IREP, which I think you may  
24 be familiar with, is an example of quantitative  
25 uncertainty analysis. And I -- I won't dwell

1           on that, really. But basically, ionizing  
2           radiation is a known and very well-quantified  
3           cancer risk factor, and I would go so far as to  
4           say it's the one we know best for any common  
5           carcinogen we understand and have quantified  
6           the relationship between cancer risk and  
7           radiation dose probably better than anything  
8           else.

9           But still the risk estimates are uncertain.  
10          All risk estimates are uncertain. But we know  
11          a lot about the uncertainties, and we can use  
12          what we know to address the implications for  
13          risk.

14          And basically the approach is to take the  
15          problem apart and identify component parts.  
16          And for radiation-related cancer, the component  
17          parts are -- the most important component parts  
18          are the radiation dose -- the estimated  
19          radiation dose, which I understand is your  
20          concern here -- and the excess risk for -- in a  
21          dose. We usually use excess relative risk  
22          because it easily translates into assigned  
23          share of probability of causation. That's the  
24          excess risk divided by the total -- the -- I'm  
25          sorry, not the total risk, but the risk that

1           would be -- you would have if there were no  
2           exposure. The problem of using estimates that  
3           are based on other exposed populations because  
4           there are a lot of exposed populations and the  
5           most important is the survivors of the atomic  
6           bombings of Hiroshima and Nagasaki, and how do  
7           we transfer those estimates over to a U.S.  
8           population. And then there's the problem of  
9           taking the risk that we know best, which is the  
10          risk at rather high doses where the excess risk  
11          is fairly high in relation to the baseline  
12          risk. And if you -- it's -- this is what you  
13          call high noise -- high signal to noise ratio.  
14          And then taking it down to much lower doses,  
15          which are typical of population exposures, and  
16          how do you do that. That's an uncertain  
17          process, and it's another one of the  
18          components.

19          So then you put these -- you put these things  
20          together and evaluate the overall uncertainty  
21          of the solution.

22          IREP is short for Interactive  
23          RadioEpidemiological Program, and that or the  
24          tables -- radioepidemiological tables which  
25          preceded it and which I'll talk about a little

1 bit -- is mandated in the United States for  
2 adjudication of some claims against the  
3 government for radiation-related cancer. And  
4 in particular the Energy Employees'  
5 Occupational Illness Compensation Program Act  
6 of 2000, it's actually mandated.  
7 Now to repeat myself a little bit, we know a  
8 lot about radiation-related cancer risk in  
9 exposed populations. The main reason we know  
10 so much about radiation-related cancer is that  
11 it's possible with radiation to estimate the  
12 radiation dose, not only to individuals, but  
13 also to individual organs in the individual.  
14 And this is an enormous advantage. That's  
15 really why we know so much more about radiation  
16 than we do about most other things.  
17 So we can estimate site-specific excess  
18 relative risk, the excess risk divided by the  
19 risk that you would have if you weren't  
20 exposed. We can estimate it by exposure  
21 history and by age following exposure. And in  
22 an exposed population, the proportion of  
23 cancers that would not have occurred in the  
24 absence of exposure -- and that's what we're  
25 interested in here, the excess risk that's

1 related to radiation -- is estimated by  
2 assigned share, which is defined here as shown  
3 here as the excess relative risk divided by one  
4 plus the excess relative risk. Another way of  
5 putting it is the excess risk divided by the  
6 total risk, the baseline risk plus the -- plus  
7 the excess risk.

8 Now this is a population quantity. It isn't  
9 something that necessarily refers to a  
10 particular person. And a good analogy to it is  
11 the use of actuarial tables that are used by  
12 the insurance industry to set rates. The  
13 actuarial tables are a description of the  
14 entire population -- you know, life span and  
15 this sort of thing, force of mortality at  
16 particular ages. And we know that it doesn't  
17 apply uniformly to everybody because some  
18 people live longer and some people don't live  
19 as long. But in the average it works out, and  
20 so it's accepted as a basis for public policy.  
21 And so according to the law, this population  
22 quantity is used as a guide for adjudication of  
23 individual cases.

24 So a little history. The 1985 National  
25 Institutes of Health report, the working group

1           to develop epidemiological tables was mandated  
2           by the Congress. And I think the intention  
3           really was to use it for simplifying the court  
4           system relating to radiation-related claims.  
5           And I think -- in particular since Senator  
6           Hatch was the person who initiated it -- it was  
7           particularly for people living downwind of the  
8           tests at Nevada.

9           The law requires periodic update of these  
10          tables, and essentially the tables are supposed  
11          to be a summary of mainstream scientific  
12          information, sort of condensed to put in a way  
13          that's usable.

14          As it turned out, it really was not accepted  
15          well at all as something that would be useful  
16          in court cases as a substitution for tort law,  
17          which -- and I guess interest sort of lapsed,  
18          except for the VA saw it as a good way to  
19          adjudicate claims based on service-related  
20          exposure. So until recently, the VA is -- was  
21          the main user of the NIH tables. The tables,  
22          even though I -- I worked on these tables, and  
23          even though I think they're not so bad, they  
24          really are hard to use. And so they  
25          commissioned the -- I always forget what CIRRPC



1 means, but it's -- it's an interagency  
2 committee on radiation research and policy.  
3 Anyway, they commissioned the CIRRPC to -- to  
4 develop a screening tool, and -- and -- or  
5 actually to see if they could simplify it and  
6 what -- and CIRRPC thought about it and they  
7 decided that the best thing they could do was  
8 to develop a screening tool so that you could  
9 more or less eliminate the obviously -- claims  
10 in which they didn't have a whole lot of  
11 causation behind them, using upper uncertainty  
12 limits for this assigned share of probability  
13 of causation. And that's what they did, they -  
14 - they developed tables for the -- if a dose is  
15 for particular cancer, what -- what dose would  
16 be -- would be consistent with a 50 percent --  
17 well, let's see, a probability of causation of  
18 half, so that's -- that satisfies the tort law  
19 rule of -- as more likely than not, and they  
20 gave values for -- that would be at the upper  
21 90th percentile, at the upper 95th percentile,  
22 and the upper 99th percentile.  
23 And the VA claim adjudication, they used -- the  
24 VA used the CIRRPC rule as a screening tool,  
25 and they actually then decided well, that that

1 -- generally there wasn't much else they could  
2 do with the information. They -- there wasn't  
3 the capability to go into a particular case  
4 more deeply than the radiation dose because the  
5 radiation dose and -- the relationship between  
6 radiation dose and risk is -- is reasonably  
7 well-established, so they actually based their  
8 adjudication on the screening tool. And the --  
9 the 2000 -- was it 2000? -- EEOICPA law that I  
10 referred to later put that into law. So it was  
11 -- it was originally VA policy --  
12 administrative policy, and now it's the law for  
13 Energy employees.

14 Now the present -- the 2003 NCI/CDC report was  
15 requested by the VA. They reminded the NCI and  
16 the Department of Health and Human Services  
17 that the law required that the -- that the  
18 tables be updated as new information became  
19 available, and they thought this was time to do  
20 it. But we didn't have the information that  
21 was just recently provided by BEIR VII. We had  
22 to do with -- deal with BEIR V. Actually BEIR  
23 V then turned out to be a not very good --  
24 easily adaptable to updating it, so we  
25 developed -- that is NCI and CDC developed the

1 new report as an interim update, which would  
2 require revision after BEIR VII and new A-bomb  
3 survivor data became available.  
4 And it was targeted to the VA requirements --  
5 that is the 99 percent -- upper uncertainty  
6 limit, and it was based on scientific  
7 consensus, like the original one. It was done  
8 by a small working group involving people from  
9 NCI, the CDC and our contractor, SENES Oak  
10 Ridge, which is -- who has expertise in  
11 uncertainty analysis. We had advisors, a group  
12 of scientific and lay advisors, and -- when we  
13 were developing it -- and also, after we had  
14 pretty -- almost finished it, there was a  
15 formal review by the Institute of Medicine, an  
16 expert review panel there.  
17 Oh, I'm sorry. I've just been told that I --  
18 I'm asked to explain BEIR V and BEIR VII, and  
19 I'm sorry about that. There have been --  
20 altogether now there have been seven reports by  
21 the National Academy of Sciences' committee on  
22 the Biological Effects of Ionizing Radiation,  
23 and B -- Biological Effects Ionizing Radiation,  
24 that's B-E-I-R, BEIR. The first one was in the  
25 '70s -- actually the -- the odd -- it's the odd

1           ones that are -- that are most relevant because  
2           they dealt -- they deal with low LET. That is  
3           radiation like X-rays and gamma rays. And I  
4           was on the BEIR III committee, which -- well,  
5           it was published in 1980. Then there was BEIR  
6           V, which was published in 1990, and BEIR VII,  
7           published in -- oh, just being published now.  
8           And these are -- in other words, these -- these  
9           are expert committees, people who have -- or at  
10          least believed to be -- have some expertise in  
11          -- in radiation-related risk, radiation  
12          biology, epidemiology, statistics, other  
13          things. And they are -- that -- that report is  
14          considered to be the most authoritative one, at  
15          least by people in the United States. The  
16          United Nations also has reports which -- which  
17          are periodic and there's a lot of expertise  
18          there.  
19          Anyway, they're kind of -- that's -- if you  
20          want -- if you want to base something on -- on  
21          a consensus, scientific consensus for  
22          radiation, BEIR -- the BEIR reports are where  
23          to go. And we now have the newest BEIR report,  
24          and that's actually the topic of -- of this  
25          talk, if I get around to it.

1           So the calcu-- getting back to this -- to the  
2           NCI/CDC report, the calculations are based  
3           mainly on A-bomb survivor cancer incidence  
4           data, and that's -- and the BEIR reports are  
5           based on that and the UNSCEAR -- the United  
6           Nations reports are based on that because these  
7           are the most available data. You have a single  
8           population exposed at one time to a great range  
9           of -- a range of doses, from hardly anything to  
10          fatal. And it's -- it's easily -- it's well --  
11          it's well-quantified.

12          The emphasis of our report was based on  
13          uncertainty analysis. Of course for many  
14          reasons, but one of the main ones is the  
15          requirement that you have. You have an  
16          uncertainty distribution for the -- for the  
17          probability of causation. And I think probably  
18          most important, the tables which were hard to  
19          use were replaced by IREP, this Interactive  
20          RadioEpidemiological Program, which is easy to  
21          use. And it certainly is a lot easier to use  
22          than the tables were.

23          I've already talked about this law. It is for  
24          DOE and DOE contractor report-- employees. The  
25          adjudication is by the Department of Labor.

1           And NIOSH, the National Institute of  
2           Occupational Safety and Health, is the  
3           responsibility providing doses and support, and  
4           they're to use the NIH tables as may be  
5           updated. And as I said before, EEOICPA  
6           mandated the use of the upper 99 percent limits  
7           on assigned share for probability of causation.  
8           There is -- there are two versions of IREP.  
9           Ours is the -- I guess I'd say this is what we  
10          thought was -- was a -- was the best we could  
11          do in terms of scientific consensus, and it's  
12          really an archival thing. We don't -- we don't  
13          change it until we have another -- until -- or  
14          at least somebody has another -- does another  
15          report. But NIOSH, for administrative reasons,  
16          has made a few changes, mostly having to do  
17          with efficiency of entering data and so forth.  
18          But also there are a few differences for  
19          certain cancer sites and that's -- that really  
20          doesn't have much to do with us. It's --  
21          'cause we don't have the responsibility for  
22          actually adjudicating cases. We just provide  
23          the information.  
24          The components of IREP, the input, there are  
25          individual characteristics because all these

1 things have to do with radiation-related risk -  
2 - sex; the date or the year of birth; the type  
3 of cancer that is being -- in the -- claimed,  
4 the date of diagnosis; smoking history --  
5 because this is a very important factor for --  
6 for a number of cancers, but particularly lung  
7 cancer.

8 And -- and of course the exposure history,  
9 which -- which is -- can be, and should be,  
10 rather detailed. For each exposure there's the  
11 date of exposure; the dose estimate and its  
12 uncertainty estimate -- uncertainty  
13 distribution, because doses also are uncertain,  
14 they have errors -- possible errors; the  
15 radiation quality, because different kinds of  
16 radiation are more or less effective than other  
17 kinds. Photon radiation, which is -- includes  
18 X-rays, gamma rays at different energies.  
19 Neutrons, which are particles, they're --  
20 there's the energy of -- of the radiation. And  
21 for example, medical X-rays are generally in  
22 the 30 to 250 kiloelectric volts. Gamma rays  
23 are above that, other things. And whether it's  
24 -- the exposure is chronic -- that is, takes  
25 place over a long time -- or acute and occurs

1           in a very short time, and -- because that makes  
2           a difference as far as risk is concerned.  
3           The calculation components, you compute -- for  
4           each exposure we compute the excess relative  
5           risk, again with uncertainty, for the specified  
6           diagnosis and date, and apply a number of  
7           things. And cur-- one is an uncertain period -  
8           - minimal period from -- from exposure until  
9           diagnosis. That is, if an exposure -- if a --  
10          if the cancer occurs really early, is it too  
11          early to be related to the radiation. That's  
12          that kind of question.  
13          The uncertain radiation effectiveness factor  
14          for the -- for the specified radiation. I just  
15          said that different kinds of radiation have  
16          different levels of effects, but there are  
17          uncertainties associated with that.  
18          And the uncertainty -- uncertain factor for  
19          dealing with chronic as opposed to acute  
20          exposures, or for exposures at low doses. This  
21          is -- this is a very strong factor, has a lot  
22          of influence.  
23          And adjustment for smoking history, if  
24          applicable.  
25          Then after you -- after computing the excess



1 relative risk for each of these exposures, you  
2 sum it -- it all applies to the same diagnosis  
3 -- and apply an uncertain transfer factor, if  
4 applicable, for the ratio of the Japanese-to-  
5 U.S. cancer rates. How do you get it -- how do  
6 you move the risk instrument from the -- from  
7 the A-bomb survivors, or another population,  
8 whatever population it is that's involved, to  
9 the U.S. population. And you combine the  
10 uncertainties and the calculation is done by a  
11 simulation. Not because it's magic, but  
12 because it's easier and -- than doing it  
13 analytically, working it out on -- paper and  
14 pencil. And transform the excess relative risk  
15 and its uncertainty to estimates and  
16 uncertainties for the assigned share, or the  
17 probability of causation, which is what -- what  
18 the judgment is based on.

19 Now BEIR VII, which is now in press, is, as I  
20 mentioned -- it's a highly authoritative review  
21 of mainstream science on radiation-related  
22 risk. The risk estimates, like almost all risk  
23 estimates, are modeled mainly on the latest A-  
24 bomb survivor tumor registry data and mortality  
25 data using newly -- it's -- in this case it's

1 newly-reconstructed doses, which don't differ  
2 by much from the old ones, but there are --  
3 they are different -- and because there's more  
4 follow-up because the A-bomb survivor data now  
5 extend from -- well, 1950 through about 19--  
6 sorry, 2002, I think -- no, that's probably  
7 about 2000 -- the proj-- the -- one of the  
8 questions was the projection over time since  
9 exposure. That is, if you have an estimate  
10 that is based on say the first 40 or 50 years  
11 after exposure, how do you apply it to later --  
12 later times. That's another source of  
13 uncertainty. Also it includes data from other  
14 exposed populations, and the dose response  
15 models used by BEIR VII are generally similar  
16 to those used for IREP, but different --  
17 different in some detail.

18 BEIR VII pays considerable attention to DDREF,  
19 the -- or to the reduction to low -- low doses  
20 and to population transfer. These are -- well,  
21 the rest of this is maybe -- this is maybe too  
22 technical, you know, really not interested, but  
23 -- but I'll just go through it anyway.

24 There's two ways to look at risk. One is the -  
25 - the excess risk, that is the risk after

1 exposure minus the risk before, and then as a  
2 ratio there would be excess relative risk,  
3 which is the ratio of the risk after exposure  
4 to the risk before and subtract one from it.  
5 That's to -- determined by population rate  
6 ratios.

7 And I think this last is too -- too longish,  
8 even for -- even for me.

9 So the conclusions are -- that I will give you  
10 is that IREP can be improved by adopting the  
11 models and risk estimates of BEIR VII.

12 Actually the law says it has to be, and it will  
13 be an improvement. And because the BEIR VII  
14 estimates are based on more data, the  
15 uncertainties in IREP probably will be reduced.  
16 I think probably the estimates will go up  
17 little, so the estimates themselves will go up  
18 and the uncertainties will go down. And so  
19 unless the new estimates are considerably  
20 higher, the site-specific upper uncertainty  
21 limits for assigned share -- that is like the  
22 99th percentile -- probably will be a little  
23 lower than at present.

24 Here are some links I -- if you want to look at  
25 the -- the report of this -- of the NI --

1 NCI/CDC report, this is how to do it. You can  
2 get a copy -- you can get a copy of it by --  
3 you -- free, from NCI, and you can get a -- or  
4 you can get a digital copy which you can unload  
5 -- download to your computer. And it also  
6 gives a link to the NIOSH web site where they  
7 have their version.

8 And that's -- that's all I have.

9 **VICE ADMIRAL ZIMBLE:** Well, thank you very  
10 much, Dr. Land. You -- you've, in a very short  
11 time, tried to deal with a very complicated  
12 subject, and I -- I appreciate giving us this  
13 information.

14

15 **BOARD MEMBERS QUESTIONS AND DISCUSSION**

16 Now I'm just a layman when it comes to  
17 radiology and -- and radiogenicity, but what I  
18 gather from -- from the remarks is, number one,  
19 we can't look in a microscope, we can't do a  
20 lab test that will definitely show that a  
21 particular condition or disease is due to  
22 radiation. Many other causes can give you  
23 exactly the same -- same problem.

24 **DR. LAND:** Yes.

25 **VICE ADMIRAL ZIMBLE:** So we have to look at

1 statistics and probabilities and population  
2 epidemiology in order to arrive at that, and  
3 therefore there are many uncertainties. And  
4 what encourages me is that as each of these  
5 committees come together over the years and  
6 have re-looked at data and seen an accumulation  
7 of more and more data, that uncertainty can go  
8 down somewhat. It's always going to be there,  
9 but -- but the process of what we're doing with  
10 the various committees that meet on -- the  
11 BEIR, the Biological Effects of Ionizing  
12 Radiation, we're constantly honing in on -- on  
13 getting the best possible data to be able to  
14 arrive at what causes a particular disease  
15 entity, and how much of it might be due to  
16 radiation.

17 Now the law mandates that we give the veteran  
18 every benefit of the doubt. And I think that  
19 you have demonstrated that we look at 50  
20 percent -- you know, if it's more probable than  
21 not, then -- then the benefit of the doubt goes  
22 to the veteran, and that you're using a number  
23 that's based upon three standard deviations  
24 away from the mean on -- on that -- on that 50  
25 percent probability of causation. So we're

1 always looking to make sure and the -- and the  
2 Veterans Administration I think would support  
3 that, that we look at -- not only in the  
4 calculation of the dose estimate, but also in  
5 the application of that dose estimate in terms  
6 of whether or not the particular disease or  
7 entity was caused by that exposure is always to  
8 the benefit of the veteran. Is that correct?

9 **DR. LAND:** That's right, yes.

10 **VICE ADMIRAL ZIMBLE:** Thank you. Yes?

11 **DR. LATHROP:** Yes, I wonder if I could ask you  
12 to just straighten out something that I find  
13 very complicated, and this is one of my fields  
14 of specialty, what you mean by 99th percentile  
15 and how the 99th percentile and the 50 percent  
16 relate. I mean it takes quite a bit of risk  
17 communication to make that clear to people. I  
18 wonder if you could help us out with that.  
19 What do you mean by 99th percentile?

20 **DR. LAND:** I wish I could draw it. But -- but  
21 you can -- you can -- think -- you have -- you  
22 have the estimate itself, the point estimate,  
23 and that's -- that's in the middle. And then  
24 you can think of the -- the uncertainty as  
25 being sort of like a -- like a bell curve, so

1           you -- it sort of -- the -- generally speaking,  
2           the best estimate is the one in the middle.  
3           And then as you go out, you say well, but it's  
4           -- if that's the best estimate, but it isn't  
5           all that much better from one -- from estimates  
6           that are a little bit higher or a little lower  
7           and a little more higher and lower, and so  
8           forth. Generally the farther away you get from  
9           that estimate, the less likely the value is to  
10          be -- to be greater than or less than -- than  
11          that value. And that's the idea of uncertainty  
12          limits that limits -- or confidence limits that  
13          -- okay, if you have the upper 99th percentile  
14          of the uncertainty distribution, what you're  
15          saying is that -- again, this is -- this is,  
16          again, scientific consensus. A scientific  
17          consensus always has uncertainties. It is --  
18          let's say one chance in 100 that the real  
19          estimate could be as high or higher than that.  
20          That's -- that's -- that's basically it.

21          **VICE ADMIRAL ZIMBLE:** That's why I struggled  
22          through statistics for so many years in  
23          college.

24          **DR. SWENSON:** This is Kristin Swenson. Dr.  
25          Land, if you could give us -- in maybe cocktail

1 party type layman's terms -- what does this  
2 mean to the vet; and when the VA uses this  
3 database, they plug in the information as you  
4 listed for the veteran --

5 **DR. LAND:** Uh-huh.

6 **DR. SWENSON:** -- their dose that they've  
7 estimated. And if you can then explain, you  
8 know, they -- how they use this 99 percentile,  
9 and then what comes out the other end for them,  
10 the VA, to make a decision.

11 **DR. LAND:** Well, the 99th percentile is what  
12 comes out. You have -- you have the -- the  
13 estimate, and then you have its -- let's say  
14 its 99th percentile, the upper -- the upper  
15 limit. That's what the law says -- at least --  
16 I don't know if the law says that for veterans,  
17 but it certainly says it for -- for Department  
18 of Energy employees, that's what you use, that  
19 value. And you -- and -- and it's -- I mean  
20 there's always -- there's always the  
21 possibility that you might have more  
22 information that might be relevant, but I don't  
23 think, you know, there is. I don't think I'm  
24 answering your question, but I -- I guess I  
25 don't understand your question.



1           **DR. SWENSON:** Okay, I guess I'm trying to make  
2           it maybe more clear to the veterans. So you --  
3           the information on their exposure's input into  
4           the IREP database.

5           **DR. LAND:** Yeah.

6           **DR. SWENSON:** And there are values at the 50  
7           percent, the 90 percent, the 99 percent.

8           **DR. LAND:** Uh-huh.

9           **DR. SWENSON:** That value that comes out is a PC  
10          value. Is that correct?

11          **DR. LAND:** That's right.

12          **DR. SWENSON:** Okay. But it happens to be in  
13          the 99th percentile, like you said, the one in  
14          100 chance. It could be as high as a certain  
15          dose.

16          **DR. LAND:** No, the dose is what you -- is what  
17          comes in --

18          **DR. SWENSON:** The dose comes in, but --

19          **DR. LAND:** That's what you're calculating, but  
20          the value -- oh, let's say -- basically, if the  
21          -- the probability of causation or the assigned  
22          share is a number between zero and one. And  
23          what the -- what the law says is if the --  
24          okay, as the -- the 99th percentile is 90th  
25          percentile is higher than the 80th percentile

1 and so forth. And what the law says is that if  
2 the 99th percentile is 50 percent, or a half or  
3 more, then the claim is accepted. And if it  
4 isn't, then it isn't. I think it's as plain as  
5 that. But I don't have anything to do with  
6 this, you see. I just provide the numbers that  
7 go into it. Yeah.

8 **DR. SWENSON:** (Off microphone)  
9 (unintelligible), but I think that helped  
10 explain what I was trying to get at. Thank  
11 you.

12 **DR. LAND:** Yeah, I've got the question over  
13 here.

14 **VICE ADMIRAL ZIMBLE:** Colonel Taylor?

15 **COLONEL TAYLOR:** Dr. Land, first of all,  
16 congratulations on taking a very difficult  
17 subject and making it explainable to an  
18 infantryman and a cavalryman. When I  
19 understand what you're talking about, I think  
20 we're both gaining.  
21 My subject involves another area that I wonder  
22 if we're going to. And for example, some of  
23 the related diseases, some of the related  
24 maladies that the VA addresses, and probably  
25 the most significant one is the Agent Orange

1           business, there are a number of cancers that,  
2           by virtue of having that cancer in a veteran,  
3           he is considered to have been exposed to Agent  
4           Orange. Do you see that going -- entering into  
5           this equation any way in the BIER (sic) reports  
6           or not? Do you think we will be able to  
7           simplify it that much or not?

8           **DR. LAND:** No, I --

9           **COLONEL TAYLOR:** Do you follow me?

10          **DR. LAND:** Yeah, I -- I think I do. I don't  
11          think you're asking me specifically about Agent  
12          Orange so --

13          **COLONEL TAYLOR:** I'm asking you for conjecture,  
14          really.

15          **DR. LAND:** Yeah. I don't -- you know, I can  
16          think of one cancer that is -- there's a  
17          particular kind of liver cancer that seems to  
18          be associated with -- with --

19          **COLONEL TAYLOR:** Radiation?

20          **DR. LAND:** No, vinyl chloride exposure.

21          **COLONEL TAYLOR:** Okay.

22          **DR. LAND:** And that's a -- that's sort of -- I  
23          hate to use the term, but slam-dunk. It's --  
24          it's something you could -- you could say okay,  
25          they have -- they have this particular kind and

1           they were exposed to -- to vinyl chloride, the  
2           vinyl chloride did it. I don't think --

3           **COLONEL TAYLOR:** We can do that --

4           **DR. LAND:** -- I don't think you can do it just  
5           from the fact that somebody was exposed to  
6           radiation, no. Actually radiation is -- is  
7           much more complicated.

8           **COLONEL TAYLOR:** It -- it -- it appears to me  
9           that, one, it's an individual thing. It has a  
10          higher number of variables than almost any  
11          other judgment we're trying to make. We have a  
12          number of ways of trying to assess it, and  
13          that's under a constant change, as you see from  
14          BEIR V and VI and the rest of them, the report.  
15          And I'm just wondering if we can ever go to the  
16          direction that will simplify to the veteran  
17          population to say if you end up with this type  
18          of cancer, you can fairly well rest assured --  
19          we won't be positive ever at all. You'll be  
20          fairly well rest assured you can be considered  
21          having been exposed to radiation to this degree  
22          or something.

23          **DR. LAND:** I -- I --

24          **COLONEL TAYLOR:** I'm just wondering if we will  
25          ever get that way or not. That's what I'm

1 really --

2 **DR. LAND:** I don't think -- I don't think so.  
3 I think it's pretty -- it's pretty well-  
4 established that just about all the cancers  
5 that are -- that are radiation-related are also  
6 -- also occur in the absence of radiation.

7 **COLONEL TAYLOR:** Okay. So there's almost no  
8 unique cancers to radiation?

9 **DR. LAND:** I know of none.

10 **COLONEL TAYLOR:** Good. Thank you, sir.

11 **VICE ADMIRAL ZIMBLE:** Of course -- now by  
12 statute we now have 21 specific diagnoses of  
13 cancer which if a veteran is exposed to  
14 radiation -- the presumptives. And if a  
15 veteran is exposed, it -- on site, it is deemed  
16 this will be --

17 **COLONEL TAYLOR:** You gave me the word I was  
18 searching for, Admiral --

19 **VICE ADMIRAL ZIMBLE:** -- presumptive.

20 **COLONEL TAYLOR:** -- and that was presumptive.

21 **VICE ADMIRAL ZIMBLE:** And -- and they've done  
22 that now by law for 21 types of cancer, fairly  
23 broad.

24 Now, the whole dose reconstruction process is  
25 for the -- is geared towards those individuals

1           who have other conditions that are not presumed  
2           to be caused by an ionizing radiation. So in  
3           that case, we have to find a way of -- of  
4           ascertaining whether the ionizing radiation  
5           causes it. So process number one is to  
6           estimate the dose.

7           **COLONEL TAYLOR:** Yeah.

8           **VICE ADMIRAL ZIMBLE:** And -- and once we get  
9           that dose -- let's say, for example, someone  
10          comes up with a dose that's been calculated as  
11          9 rems, 9 rems is his dose. If so, what? So  
12          now you have to go over -- decide whether or  
13          not 9 rems is --

14          **COLONEL TAYLOR:** Would constitute --

15          **VICE ADMIRAL ZIMBLE:** -- an adequate dose to  
16          cause a specific cancer. Now, how do you come  
17          up with what dose will cause a specific cancer,  
18          and that's what the IREP is all about. So they  
19          have done many, many studies, and in each study  
20          they come up with a number that looks like it's  
21          the right number to be causing the cancer. It  
22          may be -- somebody may say 50, so when they say  
23          no, it was 60 rems, another study, looking at a  
24          different population, came up with a number 80  
25          rems. So now you've got a number. You look

1 for where is the -- where's the median, where's  
2 the --

3 **COLONEL TAYLOR:** What's the validity of that  
4 number, yeah.

5 **VICE ADMIRAL ZIMBLE:** -- what's -- what's the  
6 average of all these studies, and that would be  
7 50 percent. That's the peak of the curve. So  
8 you say all right, it looks like 50 rem -- 50  
9 rem is going to be the dosage that's going to  
10 be necessary --

11 **COLONEL TAYLOR:** Yeah.

12 **VICE ADMIRAL ZIMBLE:** -- at the 50 percentile.  
13 But now -- we said no, wait a minute. Let's  
14 give that veteran the benefit of the doubt.  
15 Let's say what would it be -- let's go three  
16 standard deviations, go up to 99th percentile.

17 **COLONEL TAYLOR:** Uh-huh.

18 **VICE ADMIRAL ZIMBLE:** In that case for this  
19 cancer, what it would be, and you look at --  
20 back at all those studies and look at the  
21 numbers and do the standard devia-- all the  
22 statistics, all those numbers, and then you  
23 come up with another number that says 33, 33  
24 rem would be -- at one cha-- or -- you know,  
25 not -- one chance out of 100 that a dose of 33

1           rems will cause this cancer. And -- and so  
2           that's giving every benefit to the veteran.  
3           And then we look at -- well, we'll see 9 rem?  
4           That doesn't come close to 33. That -- really  
5           this particular cancer must most likely have  
6           been caused by something else. That's --  
7           that's the whole issue.

8           **COLONEL TAYLOR:** Thank you for going into that  
9           much detail. And I'll tell you, there's some  
10          reality to it. For example, I am aware of a  
11          veteran that was at Enewetak, died about ten  
12          days ago. His widow has been in contact with  
13          me and asked for some papers he gave me, which  
14          I have to return to her. But he is in a  
15          situation of having a cancer. He has not been  
16          able to get a doctor to relate it to radiation.  
17          And our suggestion to him is go and get a  
18          couple more medical opinions and see what the  
19          validity of that is, and we will approach it  
20          from that direction to -- to take advantage of  
21          giving the veteran the benefit of the doubt.  
22          So it is an operating need that happens in the  
23          -- in the veterans' community now and will  
24          continue. That's why I brought the subject up.  
25          Thank you.



1                   **VICE ADMIRAL ZIMBLE:** Mr. Pamperin.

2                   **MR. PAMPERIN:** Dr. Land, I do have a question  
3                   for you, but I also -- before I ask the  
4                   question, I feel compelled to make a  
5                   clarification on herbicide because it  
6                   frequently gets mixed with radiation, and it's  
7                   a -- it's a concept that I think is generally  
8                   not well understood.

9                   The presumptions for herbicide should not be  
10                  interpreted as meaning that you were presumed  
11                  to have been exposed. There is a separate  
12                  regulation that says that if you are an in-  
13                  country Vietnam veteran you will be presumed to  
14                  have been exposed to herbicide. Now we have  
15                  extended that to certain select units of the  
16                  2nd and 7th Infantry Divisions in Korea during  
17                  a 14-month period in 1968/'69. But any other  
18                  veteran who does not meet those specific  
19                  criteria has to document that they were in fact  
20                  exposed.

21                  Once you are exposed, due to the NIH studies of  
22                  herbicide, we then will presume -- much like  
23                  radiation -- that your cancer was as likely as  
24                  not due to that exposure. Okay? So having a  
25                  cancer does not mean that the VA presumes that

1           you were exposed to herbicide.

2           But Dr. Land, you did say in your discussion  
3           that there are two versions of the IREP model,  
4           and that the -- as I understood what you said,  
5           the NIOSH has made a couple of changes for ease  
6           of entry of data, but you also said that there  
7           were some changes for certain cancers.

8           **DR. LAND:** Uh-huh.

9           **MR. PAMPERIN:** Are those changes for certain  
10          cancers more favorable, less favorable and, to  
11          the extent that you know it, do they involve  
12          either skin or prostate?

13          **DR. LAND:** Involves -- one of them I can  
14          remember now is -- is malignant melanoma, for  
15          which we just didn't have enough information,  
16          and -- although we did have information on  
17          basal cell skin cancer, and NIOSH decided that  
18          they would use the rule for basal cell skin  
19          cancer and apply it to malignant melanoma.  
20          It's an administrative decision. I don't think  
21          -- well, it wasn't some-- wasn't something that  
22          we could advise, but they -- yeah.

23          **MR. PAMPERIN:** Thank you very much.

24          **VICE ADMIRAL ZIMBLE:** Dr. (sic) Beck?

25          **MR. BECK:** If that's the case, if -- what does

1 the VA use for melanoma then, if they're using  
2 IREP? Is there something in IREP for melanoma?

3 **DR. LAND:** Do they -- I -- as I understand it,  
4 I -- I converse with people there once in a  
5 while, and they have a rule that if -- that  
6 they'll -- they'll do it both ways and they'll  
7 use whichever one is more favorable to the vet.  
8 There isn't a lot of difference. There really  
9 isn't. It's just -- there are just a few of  
10 these -- a few sites, and the difference is --  
11 is -- is more than we -- it isn't that we  
12 didn't say something. We said we couldn't do  
13 anything. We don't -- we didn't have the  
14 information. And the -- whether -- whether  
15 it's a reasonable thing to do to take the --  
16 the estimate for a small cell -- sorry, for  
17 basal cell carcinoma and apply it to malignant  
18 melanoma, I don't know.

19 **MR. BECK:** I guess I --

20 **DR. LAND:** It's just -- it's just a -- you  
21 know, it's an administrative decision, yeah.

22 **MR. BECK:** But since -- basically if -- they  
23 can't go to IREP and get a dose for melanoma.  
24 Is that what you're saying?

25 **DR. LAND:** Well, you can certainly get a skin

1                   dose. You couldn't -- you couldn't --

2                   **MR. BECK:** I mean can you get a PC?

3                   **DR. LAND:** -- you couldn't go to the one -- the  
4                   version that's on our web site --

5                   **MR. BECK:** So if you --

6                   **DR. LAND:** -- the archival version, you  
7                   couldn't -- you wouldn't --

8                   **MR. BECK:** So presumably the VA must be using  
9                   the NIOSH version if they're -- is that  
10                  correct?

11                  **MR. PAMPERIN:** Yes, we're using the NIOSH  
12                  version.

13                  **MR. BECK:** I just wanted to clarify it.

14                  **VICE ADMIRAL ZIMBLE:** Okay, any other comments?  
15                  Dr. Boice.

16                  **DR. BOICE:** Charles, you know you had mentioned  
17                  that these radiation risk estimates are  
18                  population values, but then they're applied to  
19                  the individual, taking into account the  
20                  characteristics of age and gender, time since  
21                  exposure, time of diagnoses, and then for one  
22                  instance cigarette smoking's taken into account  
23                  for lung cancers. And the probability of  
24                  causation does change --

25                  **DR. LAND:** Uh-huh.

1           **DR. BOICE:** -- whether or not -- for that  
2 instance whether someone is a smoker or not.  
3 If they're a smoker, the probability of  
4 causation is lower than a non-smoker. There  
5 are variations among individuals. In --  
6 perhaps on the current version or in the  
7 revision, are you going to consider taking into  
8 account other personal characteristics? The  
9 first thing I think you might have mentioned,  
10 you know, there are other cancers that are  
11 caused by cigarette smoking. There are other  
12 factors that perhaps could be easily put into  
13 the sophisticated program such as family  
14 history of certain sites. These would -- you  
15 know, using the words that we've become  
16 familiar with, may be more fair to an  
17 individual because we could hone in on specific  
18 characteristics than using general population  
19 values, so the question would be, in your  
20 thoughts of -- in the updates, in the  
21 revisions, of taking into account these other  
22 individual characteristics.

23           **DR. LAND:** Okay, just a -- in the first place,  
24 nobody's asked us -- asked us to update it.  
25 But if we were asked to update it -- gee, this

1 is the -- sort of one of the things that I'm  
2 most interested in what is -- is the  
3 interaction between other things and radiation.  
4 But unfortunately, there aren't very many of  
5 these things that -- of these other factors  
6 that we know that much about. And I would -- I  
7 would do it if I could, but I don't want to --  
8 I don't want to over-reach and get -- and make  
9 -- make a -- make a sweeping statement that is  
10 maybe not true. That's basically it.

11 **DR. BOICE:** Just a final comment, but there are  
12 sites -- we know about smoking and other  
13 cancers --

14 **DR. LAND:** We know that's --

15 **DR. BOICE:** -- pretty well, and also family  
16 history, and there's probably less uncertainty  
17 in those population characteristics than some  
18 of the uncertainties in DDREF and radiation  
19 effectiveness factor and the other things that  
20 you're using in the model.

21 **DR. LAND:** Well, John, I respect your opinion.  
22 You know a lot about this. I -- the question  
23 is, it's -- it's like it's a competing risk  
24 factor or -- but the interaction, the question  
25 of the interaction, that's -- that's the --

1           that's the one that you'd have to -- you would  
2           actually have to have the information. I don't  
3           -- I'm not sure that it's there, but we can --  
4           we can talk about it. We will talk about it.

5           **VICE ADMIRAL ZIMBLE:** Just in --

6           **COLONEL TAYLOR:** (Off microphone)

7           (Unintelligible) the fact -- you're speaking of  
8           factors, there's one that immediately comes to  
9           mind to me. Not smoking, but living in close  
10          proximity to a smoker. I'll give you a  
11          personal example. I've been married to my wife  
12          for almost 50 years. She's an avid smoker. I  
13          have never smoked. What application that may  
14          have to me is one of those cases that could  
15          impact into this because I think it does make a  
16          difference.

17          **VICE ADMIRAL ZIMBLE:** I think we're getting  
18          into the too-hard territory. One of the things  
19          you did -- one of the things that you did  
20          mention was aging itself as a -- as a major  
21          factor. But having said all that, I think we  
22          have a process and we have created a system for  
23          assessing and -- and bending over backwards to  
24          make sure that -- that the likelihood of the  
25          radiation being part of the problem is being

1           expressed. And if it's more likely than not,  
2           we're going -- we're going to go in favor of  
3           the -- of the atomic veteran.

4           Dr. (sic) Beck, you had a comment?

5           **MR. BECK:** I just had a question for Dr. Land.  
6           This whole issue about human variability and  
7           the fact that you're using a population  
8           statistics, how much is that human variability  
9           included in that 99th percentile -- is it? Is  
10          that -- uncertainty due to that included in  
11          that?

12          **DR. LAND:** No, it isn't. It's the -- the  
13          uncertainty is about the population property,  
14          not about individual properties. No, you have  
15          -- this is -- this is -- this is getting into  
16          real difficult philosophical territory. As I  
17          see it, this is a societal decision or a -- a -  
18          - something that we've agreed to do, the same  
19          way we agreed to -- to have our -- our life  
20          insurance premiums decided in part by -- by  
21          statistical life tables. They don't -- they  
22          only apply to the population, they don't apply  
23          to the individual. Risk in general, the -- the  
24          -- we talk about risk to individuals, but it's  
25          kind of -- it's -- it's kind of -- well,



1 metaphysical, really. It's -- we know what we  
2 mean by it, but -- but -- but the only thing we  
3 can verify is risk to a population because that  
4 we can measure. You have to count things. You  
5 have to be able to count things. And if you  
6 get -- somebody gets cancer or they don't.  
7 It's just one -- and John is -- really wants to  
8 weigh in.

9 **DR. BOICE:** No, no, it's just a quick question.  
10 You know, you're using an analogy with  
11 actuarial tables, which is a -- you know,  
12 specific to various birth cohorts. But the  
13 risk estimates are related to a population that  
14 was alive in one calendar year, 1945. And so  
15 the changes over the last 50 years in that one  
16 particular population in Japan must have a  
17 great uncertainty in how they are generalizable  
18 to populations -- say of Americans born in the  
19 '60s and the '70s. And so that seems like  
20 that's another uncertainty that's -- I don't  
21 believe is addressed so specifically. I could  
22 be wrong, but you take into account the  
23 transport factor from Asian countries to  
24 western countries and take into account  
25 variations in the relative risk and the

1 absolute risk. But the changes based on that  
2 one particular cohort of persons alive in 1945  
3 -- I'm not sure how one could take that into  
4 account.

5 **DR. LAND:** That's the problem, how do you do  
6 it, yeah.

7 **VICE ADMIRAL ZIMBLE:** You have to find -- you'd  
8 have to find a like population exposed to an  
9 atomic bomb blast at 20 kilotons. That's  
10 something we don't want to do. Dr. Swenson.

11 **DR. SWENSON:** On a final question, IREP is  
12 supposed to be updated. Do you have any  
13 information on when that might happen?

14 **DR. LAND:** Nobody's asked us to do it. It's a  
15 big chore. Actually we have other things to  
16 do. If somebody -- if we -- if we're told to  
17 do it, we will, but no.

18 **VICE ADMIRAL ZIMBLE:** What's interesting is if  
19 there were a correction -- an update to the  
20 IREP, it probably would reduce the probability  
21 of causation, as I understand it. As you -- as  
22 you reduce the --

23 **DR. LAND:** You know, I don't really know, but I  
24 -- I think that it -- it probably might -- I  
25 think that it might increase the central value

1 and draw in the upper value. But until you do  
2 it, you don't know.

3 **VICE ADMIRAL ZIMBLE:** Okay, but it -- but I --  
4 I would -- I would think that the veterans  
5 should be happy with the IREP being left alone  
6 where it is. I think it -- that the benefit of  
7 the doubt is going to go more against the  
8 veteran with a new IREP, so -- so I don't think  
9 we should push that too much.

10 Any other comments or questions?

11 (No responses)

12 Well, Dr. Land, thank you very much. You've  
13 certainly stimulated some interesting  
14 discussion.

15

**A BRIEFING ON NAS REPORT "ASSESSMENT OF THE SCIENTIFIC  
INFORMATION FOR THE RADIATION EXPOSURE SCREENING AND  
EDUCATION PROGRAM"**

16 **DR. JULIAN PRESTON**

17 Now according to the schedule we're to take a  
18 break between presenters, but Dr. Preston, if  
19 you don't mind, I'd like to move on and I'd  
20 like now to -- if that's acceptable to you. I  
21 have a short bio that I'd like to read about  
22 Dr. Preston. I can tell you one thing for  
23 sure, he's not a medical doctor because I can  
24 read his handwriting.

1 Dr. Julian Preston is the acting associate  
2 director for health at the National Health and  
3 Environmental Effects Laboratory of the U.S.  
4 Environmental Protection Agency which is  
5 located in Research Triangle Park in North  
6 Carolina. And until the end of 2005 -- which  
7 as I recall was only about two weeks ago -- Dr.  
8 Preston was director of the Environmental  
9 Carcinogenics Division of that Laboratory.  
10 Now he received a BA in genetics from Cambridge  
11 in England and a Ph.D. in radiation side of  
12 genetics from the Reading University in England  
13 in 1976. Dr. Preston has held a range of  
14 positions at the MRC radiobiology unit in  
15 Harwell, England and the biology division of  
16 the Oak Ridge National Laboratory and the  
17 Centers for Health Sciences. He joined EPA in  
18 1999. He holds adjunct faculty appointments at  
19 Duke and at North Carolina State Universities.  
20 He serves as chair of Committee One of the  
21 International Committee on Radiation  
22 Protection. He is a member of the U.S.  
23 delegation to the United Nations UNSCEAR, the  
24 Scientific Committee on the Effects of Atomic  
25 Radiation. He's held many editorial

1           appointments, NIH review appointments, served  
2           on the board of NCRP. His current interests  
3           are centered on how to use mechanistic data in  
4           the assessment of health risks from exposures  
5           to radiation and chemicals. He recently served  
6           as the chair of the National Science Committee  
7           on Assessment of Scientific Information for the  
8           Radiation Exposure Screening and Education  
9           program. So he's got terrific credentials, as  
10          does Dr. Land, and we appreciate your coming,  
11          Dr. Preston, and presenting to us today.

12          **DR. PRESTON:** Thank you very much indeed.  
13          There'll be a slight moment before the  
14          presentation comes up. I realized a couple of  
15          days ago and this morning as we looked through  
16          our presentations, there were some typos in  
17          there and it's an embarrassment to have  
18          typographical errors in your presentation. One  
19          was right on the title line, which is even more  
20          embarrassing because it was the title of the  
21          report which I'm supposed to discuss today.  
22          So I wanted to let you know that in this  
23          presentation I'm speaking as the Chair of the  
24          Academy committee, and there's a tremendous  
25          amount of effort went into that committee

1           deliberations and report. And so you only see  
2           me as the spokesperson, not as the expert in  
3           all the considerations presented in the report,  
4           and certainly not as the one who did the  
5           majority of the work. One of the members is in  
6           the audience today and she I'm sure will put me  
7           straight if there are any errors.

8           You should also know that in a way this was  
9           perhaps one of the most difficult tasks I've  
10          ever had, to chair this particular committee,  
11          because it was a -- it had a very complicated  
12          charge, and also represented a very broad range  
13          of expertises throughout areas of ethics,  
14          physics -- radiation physics, radiation  
15          biology, epidemiology, medical screening and a  
16          screening and education program. So we had a  
17          broad range of expertise, and bringing all that  
18          together was a tough task.

19          The other tough task is that I've got 30  
20          minutes to present to you what amounted to a  
21          several-hundred-page document that took us two  
22          and a half years to pull together. So you'll  
23          see I've taken little bits from that in order  
24          to provide you with some feeling for how we  
25          went about our work and what our conclusions or

1           recommendations were.

2           So here's the title, the correct title. It's  
3           not quite the same. I had an extra word in --  
4           I've still got the extra word in this one,  
5           excuse me -- Assessment of the Scientific  
6           Information for the Radiation Exposure  
7           Screening and Education Program is the correct  
8           title for the report. I've got an "and" in  
9           this one. That's the Academy report I'm going  
10          to tell you briefly about, and I'm going to  
11          cover just the part in how we established the  
12          approach for compensation.

13          And you realize here, this is -- this report  
14          covered the compensation that is part of RECA,  
15          which is the Radiation Exposure Compensation  
16          Act. So when we started our business, our job  
17          was to reassess that particular Act to see  
18          whether there, with all the scientific  
19          information that's been developed over the past  
20          many years, whether that would impact the risk  
21          estimates that would be used in such a  
22          radiation compensation program, and also to  
23          establish whether the criteria used in that  
24          program were the appropriate ones. And you'll  
25          see that we have decided that was not indeed

1           the case. But you also need to appreciate that  
2           we, as a committee of the National Academy of  
3           Sciences, is a scientific committee so we  
4           addressed scientific issues. And you'll see in  
5           some of the recommendations that we did not  
6           make policy recommendations. We made  
7           scientific recommendations.  
8           And also you'll see some familiar words here  
9           because quite a few items in my presentation  
10          build upon things that Dr. Land explained to  
11          you, and so I trust if you understood  
12          everything he said, there'll be no need for me  
13          to explain any of the items that relate to his  
14          presentation.  
15          That's just really to remind me that that's the  
16          report I'm talking about, the Assessment of the  
17          Scientific Information for the Radiation  
18          Exposure Screening and Education Program. I  
19          put that up again because I said I've sort of  
20          decided this was one of my most difficult  
21          tasks, and so I just wanted to remind myself of  
22          the picture on the front of the cover. I get a  
23          good feeling whenever I see this one.  
24          Okay, here's the starting point. Here are the  
25          RECA criteria. I explained what RECA is, so



1           the -- the guidelines that we already had, the  
2           criteria we already had, the person -- to be  
3           eligible for compensation -- is in a specific  
4           class defined by the RECA, and that the person  
5           has developed one of the specific cancers or  
6           other diseases specified by RECA. So we had a  
7           list of diseases and a list of specific  
8           classes.

9           Here are the criteria. So in this case I  
10          wanted to define our population for  
11          consideration, and that is -- these are all  
12          populations that are associated with the  
13          nuclear tests at the Nevada Test Site, and the  
14          populations covered are uranium miners, uranium  
15          millers, ore transporters, downwinders, and on-  
16          site test site participants.

17          I apologize that this is small. The only way  
18          that I could get it on -- appropriately on one  
19          slide was to have it fairly small. It's taken  
20          straight from the report, and that's a list of  
21          the diseases covered by RECA. And we've had  
22          some discussion of the classes of disease that  
23          are covered under various compensation schemes.  
24          The top half of the table are malignant  
25          neoplasms or cancers. The first column, the

1 diseases and conditions, outlines for the  
2 cancers, the different tumor types that are  
3 agreed in the RECA to be radiation-induced, or  
4 potentially radiation-induced types of cancers.  
5 They're called radiogenic cancers.  
6 And you can see for the different groups of  
7 individuals -- the miners, the millers, the ore  
8 transporters, downwinders and on-site  
9 participants listed across the top of the  
10 table, you'll see that for different groups of  
11 individuals there are different tumor types  
12 that are included in the compensation. So you  
13 can see for downwinders and on-site  
14 participants, the vast majority of the tumor --  
15 the radiogenic tumors are included in -- as  
16 eligible for compensation.  
17 The non-malignant conditions, the last few  
18 lines of the table, indicate non-tumor, non-  
19 cancers, that are eligible for compensation,  
20 largely in the miners and the millers and the  
21 ore transporters. In this case -- in response  
22 to one of the questions that was asked, in this  
23 case for the miners it would be considered that  
24 a lung cancer, for example, was radiation-  
25 induced and not induced by smoking. The --

1           although, you know, you can't prove that is the  
2           case, that's part of the compensation program  
3           was that lung cancers, because of their strong  
4           association with uranium exposures, were  
5           considered to be radiation-induced cancers  
6           exclusively.

7           So that gives you an -- so -- you know, that  
8           particular discussion varies according to the  
9           particular group of individuals under  
10          consideration. But that's the list of diseases  
11          that were currently covered when we started our  
12          work.

13          Part of our task was to assess whether this is  
14          the appropriate set of diseases, and  
15          particularly whether additional cancers should  
16          be added to that list or whether non-malignant  
17          conditions that might be radiation-associated  
18          should be added to that list. We took the  
19          position that -- I think appropriately so --  
20          that we were not going to consider removing any  
21          of the diseases from this list.

22          Here's part two of what we already had in  
23          place, and this caused us a considerable amount  
24          of discussion. It took us probably a year  
25          and a half of our time to decide exactly how we

1           would address this issue. And this map here  
2           shows the areas covered by RECA. And you can  
3           see in the yellow the states where there are  
4           uranium worker states -- that's uranium miners,  
5           millers and ore transporters, et cetera -- and  
6           then there in the light blue are downwind  
7           counties considered to be areas -- counties are  
8           -- would be impacted by the fallout from the  
9           nuclear test site, the Nevada Test Site. And  
10          then there's a green region which is an overlap  
11          region between uranium worker states and  
12          downwind counties. So if you add up the green  
13          and the blue, you get the counties that were,  
14          at the point of our deliberations, currently  
15          compensatable (sic) under RECA.  
16          So you can see that the areas that were covered  
17          by the Radiation Exposure Compensation Act were  
18          based largely on geography and not on any other  
19          specific scientific criteria.  
20          Now that wasn't really the -- the fault, shall  
21          I say, of setting up such an arrangement  
22          because the scientific information available at  
23          the time did not necessarily allow for anything  
24          more complex than the geographical distribution  
25          of compensation. But by the time we, in 2003,

1 started our deliberations, then additional  
2 information allowed us to consider alternative  
3 approaches.

4 Now why did we consider that we should really -  
5 - let me go to this slide first, then I'll move  
6 to what I was going to say.

7 Here's the charge to the committee then. Based  
8 upon the fact that there was a set of  
9 compensatable diseases, diseases eligible for  
10 compensation for different populations, and  
11 that there were areas already compensated for  
12 those disease types, what was our charge?

13 Well, I've only taken part of the charge and  
14 the part that I'm going to be able to cover  
15 today, and that is to make recommendations to  
16 HRSA that are based on scientific knowledge and  
17 principles -- that was the agency that was  
18 commissioning the Academy to conduct this  
19 particular study -- and in particular whether  
20 other classes of individuals -- that's other  
21 populations -- or additional geographic areas  
22 should be covered under the compensation  
23 program. That was our charge.

24 Added to that was the fact that we were  
25 required to consider all the recent

1 information, which included the BEIR committees  
2 that Dr. Land talked about, updates on the  
3 populations from the atomic bomb survivors in  
4 Japan -- all that information, to take that  
5 into account as well in reaching our  
6 deliberations. So we had a very broad mandate  
7 in order to reach this -- what appears to be a  
8 fairly straightforward set of recommendations.  
9 So here's what -- here's where we started in  
10 our consideration of the geographical area  
11 discussion and the additional groups of  
12 individuals that might be eligible for  
13 compensation. Now this particular graph shows  
14 the dose to the thyroid on the left-hand axis,  
15 and then a -- the -- and we took the counties  
16 in Utah, which was one of the areas --  
17 geographic areas that was compensatable under  
18 the RECA. At this point these were all related  
19 to the nuclear -- the Nevada Test Site, NTS.  
20 And in this case because, as Dr. Land  
21 mentioned, you know, that the age at exposure  
22 and the age at diagnosis makes a difference,  
23 and the duration of exposure in a particular  
24 region of the country makes a difference, this  
25 particular graph just shows the calculated dose

1 to the thyroid. We concentrated on the thyroid  
2 because that was -- the major radionuclide from  
3 the tests was iodine 131, which has a  
4 propensity to concentrate in the thyroid and  
5 thyroid tumors are the major tumor type.  
6 So here we have along the bottom axis -- the  
7 axis, we have the counties in Utah. And if you  
8 look, there are some that are dark and some are  
9 open circles. It just so happens that the dark  
10 circles are the counties that are compensatable  
11 under RECA and the light circles are those that  
12 are not compensatable under RECA. So you can  
13 see that based upon the geographic distribution  
14 you get a rather strange phenomenon that there  
15 are some of the counties where the absorbed  
16 dose was the lowest that were compensatable,  
17 and some of the counties that had a relatively  
18 high dose -- relatively high in this context,  
19 not relativ-- not a relatively high dose in a  
20 broad context, but in this context -- that were  
21 not -- not compensatable.  
22 Put another way, it's another way of looking at  
23 some additional data, here's a dose to the  
24 thyroid -- this is dose comparisons (II).  
25 Here's the absorbed dose to the thyroid, again

1           for a person born in 1948 who resided in the  
2           same county for the entire period of the  
3           nuclear -- the Nevada Test Site testing, those  
4           are the solid circles. Those are some of the  
5           counties in Utah selected from the previous  
6           presentation. But on the right-hand side are a  
7           set of thyroid doses for individuals in other  
8           states within the U.S. where individuals would  
9           fit the same criteria, and so those are the  
10          open circles. And so you can see for Idaho,  
11          Montana, Arizona, Nebraska, Indiana, Tennessee,  
12          New York and Vermont, there's a range of  
13          different doses to the thyroid for this  
14          particular individual or groups of individuals  
15          who met the criteria described in the legend.  
16          And you can see that -- in fact in Montana was  
17          the highest dose to the thyroid, higher than  
18          any of those in Utah which were compensatable.  
19          So we saw that on a scientific basis and just  
20          on dosimetric considerations, there was a need  
21          to reconsider the compensation program.  
22          So that's where we moved into our deliberations  
23          on how we could use science to enhance the  
24          process of compensation. And we decided that  
25          some form of a risk-based approach was clearly



1           the way to go. So I -- the committee  
2           recognized that including the absorbed dose --  
3           so I'm going to read some of these parts -- in  
4           the determination for eligibility for  
5           compensation would not be sufficient because  
6           the risk of radiation-induced cancer depends  
7           on, as Dr. Land explained, the age at exposure  
8           and age at diagnosis, in addition to dose, as  
9           well as to other factors. So we couldn't just  
10          use the dose; we had to use some additional  
11          approach.

12          We originally thought well, maybe the dose will  
13          give us a reasonable approximation of relative  
14          probabilities of cancer. But we appreciated  
15          early on that was not going to be the case. So  
16          a process based on risk would use dose and the  
17          other criteria to determine probability that an  
18          identified cancer was caused by radiation  
19          rather than by other agents. So that's the  
20          whole idea of probability of causation. What's  
21          the probability that that particular tumor, one  
22          of the types compensatable by RECA, was caused  
23          by radiation rather than by other agents, and  
24          by lifestyles and by genetic considerations,  
25          some of the things that were discussed by Dr.

1 Land and came up in the questions. So we  
2 decided to move for a risk-based approach.  
3 I've used a slightly different example than the  
4 one that appears in the Academy report, and the  
5 probability of causation is an approach that is  
6 being used, and I give a couple of examples in  
7 the U.S. Coming from the EPA I'm a great  
8 believer in just using initials for everything.  
9 I can almost give now a whole conversation  
10 without using a single word. And in the UK is  
11 also an example which I'll give which uses a  
12 different part of that. Yeah, the UK you  
13 probably understand is the United Kingdom,  
14 which is dear to my heart. Originally called  
15 the probability of causation, it's more  
16 appropriately called, as Dr. Land described it,  
17 the assigned share, which I think he is  
18 responsible for defining that particular use.  
19 So the probability of causation or the assigned  
20 share is just the risk that a specific  
21 radiation-induced tumor will develop at a given  
22 age over -- with our -- our baseline is the  
23 risk that a specific cancer from all other  
24 causes will develop at the same age. So it's  
25 the relative relationship between a cancer

1           being -- a radiation-induced cancer will  
2           develop at a given age versus the -- that  
3           specific cancer will develop from other causes  
4           than radiation. And all other causes are  
5           linked together at this particular juncture.  
6           Well, the issue that we faced immediately --  
7           and it's one that we -- I have to tell you that  
8           you'll see in the recommendations that as a  
9           committee we punted on. And we punted on this  
10          particular issue because it concerns policy.  
11          As Dr. Land pointed out, it matters a great  
12          deal as to what you define as your probability  
13          of causation, and it depends very much on what  
14          you consider would be the credibility interval  
15          or the confidence interval that you would put  
16          upon that probability as to how far out in your  
17          distribution of risk you are prepared -- or  
18          probability of causation you would be prepared  
19          to compensate. Well, that's a policy issue.  
20          We provide some guidance on what different  
21          choices would mean, but we did not come down  
22          for a specific value. Not only can you change  
23          the credibility interval for which you would --  
24          on which you would base compensation, you can  
25          actually suggest different probability of

1           causations. You do not have to use the 0.5  
2           value if you so desire. There are obviously  
3           reasons for using that, as I'll just go through  
4           on this particular slide.

5           So a significant issue is the choice of a value  
6           of the assigned share that is accepted of proof  
7           -- and clearly I put "proof" in quotes because  
8           there is no proof -- we discussed that during  
9           the question time just now -- that radiation  
10          was responsible for the diagnosed cancer in any  
11          individual. But that's really what the  
12          starting point is. You have to assume that  
13          these are radiogenic cancers and there is some  
14          probability that it was caused by radiation.  
15          So what do you say -- what will you set as your  
16          proof value? That is, at -- this is the level  
17          we're going to consider as being a tumor is as  
18          likely or more likely to have been induced by  
19          radiation than not. That's the proof I'm  
20          talking about here.

21          So a value of 0.5, a probability of causation  
22          value of 0.5 assumes that it is as likely as  
23          not that the cancer was caused by radiation --  
24          says 50 percent chance it was caused by  
25          radiation, 50 percent chance it was caused by

1 something else. And a PC value of greater than  
2 0.5 assumes that it's more likely than not that  
3 the cancer was caused by radiation. So as soon  
4 as you go over 0.5, it's more likely than not  
5 that the tumor was caused by radiation. So  
6 what value you choose is very important.  
7 We did not recommend a particular value, but  
8 most of the examples that we used used 0.5  
9 because we felt that was a -- on the basis of  
10 other compensation schemes and based on the way  
11 that the PC was developed, was the appropriate  
12 place to start.

13 As Dr. Land said, of course radiation  
14 epidemiology, radiation dosimetry, risk  
15 estimates, they all have a degree of  
16 uncertainty. The more we know, the greater the  
17 hope that we will reduce that uncertainty, but  
18 there is uncertainty. And so you can't set up  
19 a program, we decided, that did not take  
20 account of that uncertainty. So uncertainty  
21 needs to be incorporated into the decision-  
22 making process. So any way you make decisions  
23 on compensation, make sure that you don't lose  
24 sight of the fact that there's a degree of  
25 uncertainty.

1           And this is just, again, to make the point,  
2           perhaps slightly -- a slightly different way.  
3           Obtaining this -- these probability of  
4           causations, the probability that a tumor might  
5           have been caused by radiation, is a process of  
6           determining the excess relative risk for a  
7           person exposed to radiation and diagnosed with  
8           cancer. In this case, the way that this  
9           probability of causation is used in the  
10          compensation program is that it's sort of a  
11          post-- post-diagnosis approach. The person has  
12          a cancer. You then determine the probability  
13          that that individual had -- received that -- or  
14          had that cancer induced by radiation. You  
15          don't say, for an unknown population, what is  
16          the probability that that population will get  
17          so many cancers in it based upon radiation  
18          exposure. This is a post facto compensation  
19          program.

20          The determination of this excess relative risk  
21          for a particular person must rely on dosimetry,  
22          in part, to determine the dose. And this dose  
23          is generally measured through a dose  
24          reconstruction process. And that's trying to  
25          link it up to the deliberations that you're

1           having. The dose that you would use in order  
2           to determine -- this excess relative risk or  
3           probability that a tumor was induced by  
4           radiation requires a dose somewhere in the  
5           process, and the dose is generally measured  
6           through a dose reconstruction program because  
7           you do not have a direct measure of dose. In  
8           the particular case we were considering here on  
9           the downwinders, there was no measured dose.  
10          It was done through a reconstruction process.  
11          Now here's where some of the bits look  
12          familiar, but it was important I think for me  
13          to go through the deliberations that we had and  
14          how we reached our particular decisions.  
15          There'd be no point in recommending a program  
16          incorporate dose and risk and probability of  
17          causation if there wasn't some way to get that  
18          information from the literature or from the web  
19          in some -- in some form. So you can describe  
20          the most efficient compensation program, but if  
21          none of the information is available, then it's  
22          a rather foolish recommendation. So we decided  
23          to look at what was available in order to enact  
24          a compensation program of the type we were  
25          describing.

1           So here's the radiation dose and risk  
2           assessment, and I took the NCI 1997 iodine-131  
3           study, and that's where we got a lot of the  
4           information that said hey, wait a minute, if  
5           you just take thyroid dose for those states  
6           (sic) in Utah, you could find other states  
7           within the U.S. that had higher dose estimates.  
8           And it was based upon the fact that the NCI had  
9           done a very thorough investigation of the  
10          iodine-131 depositions as a result of the  
11          nuclear -- the Nevada Test Site atomic bomb  
12          tests, and that was available at the national  
13          level. Without that, of course, we couldn't  
14          recommend expanding the geographic areas for  
15          compensation.

16          So radiation doses to the thyroid from iodine-  
17          131 released from the tests at the NTS were  
18          mapped. And we worked with updated maps  
19          provided by NCI, including those that included  
20          other radioisotopes. So we started out with  
21          the fact that there was information on iodine-  
22          131. But of course from these particular tests  
23          there wasn't only one radionuclide present in  
24          the fallout, there was a whole range of  
25          radionuclides. And we thought that it would be



1           important to have information available on  
2           those other radioisotopes, and the updated maps  
3           provided by NCI did include some of that  
4           information.

5           And NCI, as Dr. Land had talked about,  
6           developed a dose calculator that uses a variety  
7           of information. This goes back to an earlier  
8           slide. Just having dose is not sufficient. In  
9           order to estimate risk, you need other  
10          information. You need the date of birth  
11          because you're trying to relate an individual's  
12          dose and risk to where they were within the  
13          nuclear test cycles. The sex because there are  
14          sex-specific cancer risks. Locations and dates  
15          of residence because we're now talking about  
16          the whole U.S., in effect, for the compensation  
17          program, not just states in Nevada, Arizona and  
18          Utah. And milk consumption patterns because  
19          that's important for estimations of dose at an  
20          individual level, the amount of milk drunk, and  
21          thus the exposure from different radioisotopes  
22          can vary.

23          I put this up, it's just moving us in -- along  
24          in the discussions. This was a geographic  
25          distribution of estimated total dose, from all

1 tests, to the thyroid of children born on the  
2 1st of January 1951. So you -- I'm pointing  
3 this out -- and who were average milk-drinkers.  
4 So you can get a geographic distribution of  
5 estimated dose. So for this particular case  
6 where we were interested in down -- not only,  
7 but for the -- most of the discussion here on  
8 downwinders and their exposures, you can see  
9 that we can get, for the whole of the U.S., a  
10 distribution of dose. And you can see that  
11 there are dark areas in Nevada and also in  
12 other regions of the country. Particularly  
13 dark doses (sic), those were the higher dose  
14 levels. They weren't restricted to those areas  
15 that were compensated.

16 So we said okay, we'll take, in effect, the  
17 whole U.S. as the potential area, not based on  
18 geography but based upon the exposure, as a  
19 region potential compensatable or eligible for  
20 compensation under RECA.

21 The draft feasibility study that Dr. Land  
22 talked about then calculates the deposition  
23 densities from fallout for the 33 other  
24 radionuclides. So we had available information  
25 on a range of radionuclides that would allow us

1           to expand our deliberations to more than just  
2           iodine-131. But in general, and this is the --  
3           this came up a little bit in the discussion we  
4           had just now. In general, as you get more and  
5           more information and -- on risk and on  
6           exposures, it tends to work to reduce the  
7           proportion of individuals who might be  
8           compensatable under, in this case, RECA.  
9           Because if it just does it on geography, then  
10          anybody who gets a tumor in a particular region  
11          is compensatable, irrespective of the radiation  
12          exposure; it's based on geography. When you  
13          start bringing dose into the consideration,  
14          that changes the compensa-- the compensation  
15          procedure quite significantly. So in general  
16          the doses are very low for radionuclides other  
17          than iodine-131, particularly in comparison to  
18          the dose from external radiation.

19          I just put this up to show that there were also  
20          calculations of external and internal dose to  
21          the bone marrow of children born on -- again a  
22          particular date is selected -- so that you can  
23          use these sorts of considerations for the  
24          estimation of risks from leukemia, for example,  
25          which is a very well-studied and clearly radi--

1 has a large component of radiation-associated  
2 development.

3 Dr. Land said that nobody'd asked him to update  
4 the IREP. You'll find out in a minute that  
5 somebody hasn't asked him, but they've made it  
6 clear that it needs to be updated. But there's  
7 also, in terms of radiation dose estimation,  
8 there's clearly more work needed for the  
9 iodine-131 dose and thyroid cancer risk based  
10 on new data. So each time that the -- not only  
11 a new report, but new studies are done on  
12 radiation-exposed populations, one needs to  
13 update the various components of a risk-related  
14 compensation program. In this case, the better  
15 the dose estimates are and the better the risk  
16 estimates are, the much more effective  
17 calculation of a PC and eligibility for  
18 compensation will be obtained.

19 In fact, in 2003 the National Research Council  
20 said that -- declared that additional work for  
21 other radionuclides was not warranted, in fact,  
22 because of very small doses and uncertainties  
23 in distribution and location. They felt in  
24 that particular report that the information  
25 that could be developed for other radionuclides

1           besides iodine-131 would not be warranted  
2           because at very small doses, whatever  
3           probability of causation criteria one  
4           established, it would not be likely that the  
5           individuals would meet those specific criteria.  
6           We did not take that as our point. We decided  
7           that it would still be important to at least  
8           have the information available to be able to  
9           conduct calculations to establish whether this  
10          view could be upheld.  
11          So having said that there are -- here -- here's  
12          the information that you need in order to  
13          conduct a probability of causation. We felt  
14          that there is dosimetric information available  
15          and there certainly are risk estimates  
16          available from a variety of national and  
17          international committees to allow a PC to be  
18          calculated. But then that seem-- had -- has to  
19          be a method of being able to calculate the PC.  
20          And fortunately, as Dr. Land again pointed out  
21          -- so I said if you remembered what he told  
22          you, you'd understand what I was talking about  
23          -- there were -- are available these NIH  
24          radioepidemiological tables. So these were  
25          intended to provide a means for estimating the

1           likelihood that a person -- now we go to a  
2           person -- who has or had any of several  
3           radiogenic cancers, those I told you were  
4           defined by RECA, developed it -- or that cancer  
5           -- as a result of exposure to ionizing  
6           radiation. That's the derivation of the  
7           radioepidemiological table, and it's a tool  
8           that's available to -- for any individual,  
9           appreciating that probability of causation was  
10          calculated for populations, the need for  
11          compensation is to be able to extrapolate that  
12          particular approach to an individual and it --  
13          That's what CIRRPC means. It's the Committee  
14          on Interagency Radiation Research and Policy  
15          Coordination. Then -- so going from the  
16          dosimetric information and the risk  
17          information, so for screening claims -- and  
18          this is what -- what CIRRPC did, for screening  
19          claims of radiation-induced cancer -- that's  
20          what it was established for -- a person passed  
21          the screening test when there was at least one  
22          percent probability that the estimated PC/AS  
23          exceeds 0.5 -- that's what that 99 percentile  
24          is doing. It says that there's a one -- at  
25          least a one percent probability that the

1           estimated probability of causation exceeds 0.5;  
2           0.5 says that cancer was as likely as not  
3           caused by radiation. CIRRPC's compensation  
4           then says okay, but we'll allow at least a one  
5           percent probability that -- that the estimated  
6           PC exceeds this as-likely-as-not determination.  
7           This approach, it was decided by CIRRPC, would  
8           still avoid development of those cases for  
9           which there is virtually no chance that the  
10          true PC would be as large as 50 percent. So  
11          that -- they -- they felt that the -- in this  
12          particular case, by establishing these  
13          criteria, you would still, in a screening -- by  
14          screening claims, would establish that there  
15          was -- that those cases for which there is what  
16          was described as virtually no chance. I'll  
17          show you in a minute how we -- we handled that  
18          particular issue.

19          I'm using some of the examples that are already  
20          available because we did not want to re-invent  
21          everything. If there were things already --  
22          compensation programs that were being  
23          successfully conducted, or information that was  
24          available we could rely upon rather than  
25          deriving everything ourselves.

1           There were some revisions to the NCI-CDC  
2           calculators which were important, and these  
3           came along in -- during the period that we were  
4           conducting our deliberations. And these are  
5           important and will continue to be important as  
6           we move forward.

7           There were new incidence and mortality risk  
8           data, which is important, particularly in the -  
9           - when I emphasize incidence, because what we  
10          are looking at in compensation programs are  
11          incidences of cancer, not necessarily mortality  
12          from cancer, and that's an important point.  
13          Most of the risk estimates up until relatively  
14          recently were based on mortality estimates, or  
15          deaths from cancer, and not on the incidence of  
16          cancer. So that's an important addition that  
17          allowed us to propose this for use in a  
18          compensation program.

19          The calculation of risk and assigned share was  
20          available for all ages at exposure. That's  
21          particularly important, and it was particularly  
22          important in the cases that we were looking at  
23          to be able to estimate exposures for very young  
24          children who were exposed particularly to  
25          iodine-131 where the risks are increased



1 compared with adults.  
2 There were new -- new cancer sites were added,  
3 new analytic approaches, and more attention to  
4 uncertainty and the presentation of risk.  
5 Fortunately in 2003 these revisions were made,  
6 and they were greatly advantageous to our  
7 proposing the PC/AS approach for compensation  
8 in RECA. And the use of organ-specific  
9 equivalent dose, that might be less obvious to  
10 some of you in the audience.  
11 And that -- the Interactive Radio-  
12 Epidemiological Program was developed for  
13 estimating the PC/AS. And Dr. Land talked  
14 about that, and it's a -- it's actually a --  
15 what I would describe as a fairly remarkable  
16 tool that's available that the -- you can, if  
17 you so desire, go in with a certain amount of  
18 information available and calculate the  
19 specific dose that you would have received  
20 from, in this case, the Nevada Test Site  
21 fallout. It's -- so it can be done at an  
22 individual level and you can find out your own  
23 exposure level, if you so desire. And we  
24 conducted some of this for our own benefit to  
25 just see what range of exposures there were in

1 the committee. You can obviously tell from  
2 that that the majority of the committee were  
3 around at the time of the nuclear tests, which  
4 is not necessarily surprising.

5 Implementation of IREP, so we've gone through  
6 some of the needs for a compensation program  
7 based upon scientific considerations and not  
8 based upon geography. We've looked at some of  
9 the ways that might be done. But has anybody -  
10 - is anybody using this type of approach  
11 already in compensation programs that might  
12 give us, (a), some information on how to  
13 improve our recommendations, or give us some  
14 confidence that we're not walking up a road  
15 that's never been traveled.

16 So there are compensation programs, and NIOSH  
17 utilizes the IREP, as was mentioned, and also  
18 EEOICPA uses a modified version of this NIOSH-  
19 IREP, so they're actually using this -- these  
20 epidemiological tables in the tool to -- in  
21 their compensation program, with slight  
22 modifications, as discussed. There are already  
23 in use PC-based compensation programs, which  
24 gave us some reasonable degree of not  
25 confidence, but a sense that we were not

1           proposing something that was totally  
2           irrelevant.  
3           Here's -- there was some other quite  
4           interesting uses and -- that take into account  
5           the fact that there is a distribution of the  
6           probabilities, as -- and of dose and of  
7           probability of causation, and there are  
8           different ways of accounting for that.  
9           And the British Nuclear Fuels developed a  
10          compensation scheme themselves for radiation-  
11          linked diseases. The British Nuclear Fuels ran  
12          a lot of the nuclear reactors in the -- in  
13          Britain, and they adapted it from the risk  
14          models developed by BEIR V -- which you mention  
15          -- we mentioned the BEIR committees of the  
16          National Academy and National Research Council.  
17          And what they did was use a sliding scale for  
18          compensation, and I'll show you how that works.  
19          I think I'll show you how it works. There's  
20          the graph, but here's how it works.  
21          Along the axis along the bottom is the  
22          probability of causation, and you can see where  
23          0.5 falling in the middle, and up the other  
24          side is the percent of compensation that would  
25          be received for different probabilities of

1           causation. So there's a -- the -- there's a  
2           linear approach you could use which are the  
3           open -- open symbols that are joined together.  
4           What the British Nuclear Fuels did was to use a  
5           step-wise compensation so you didn't compensate  
6           for every single variation in the PC. You  
7           compensated for groups of probability of  
8           causation. So you can see that at 0.5 -- it's  
9           quite difficult to work this thing from here --  
10          at 0.5 probability of causation that  
11          compensation would be 100 percent. And of  
12          course anything above 0.5 for the PC would  
13          remain as 100 percent compensation. And as you  
14          come down the PC level, then different levels  
15          of compensation were -- would be allowable.  
16          And that's one approach that we discussed. But  
17          again that becomes policy. We pointed out that  
18          that was one way of handling variations in the  
19          PC and the distribution, but we did not  
20          recommend that that be the method utilized by  
21          RECA.

22          So I've gone through some of the process that  
23          we went through. And I say it's brief. It's a  
24          400-page report. But what I wanted to do then  
25          was to try and build what I talked about into

1           the recommendations that we came up with, and  
2           this is only some of the recommendations  
3           because some of the recommendations related to  
4           screening programs that you would need in order  
5           to establish the eligibility for compensation  
6           based upon the tumor diagnosis, pre-tumor  
7           diagnosis and so on. I haven't covered that  
8           part and I haven't covered, as I pointed out in  
9           the beginning, the education component.  
10          Clearly every time you start talking about  
11          probability of causations and risks and comp--  
12          and relating that to dose and compensation, you  
13          have a problem of communicating that to the  
14          individuals that really need to know that  
15          information. So RECA has associated with it  
16          the screening and education program where there  
17          is -- not, as we recommended, very well-  
18          developed, but there is an education component  
19          -- we recommended expanding that considerably -  
20          - to provide the information to individuals,  
21          not only about the screening program but what  
22          compensation meant in that -- in the context of  
23          these screens and radiation exposures.  
24          So here's a short set of the recommendations to  
25          show you how we used our knowledge gained in

1           the earlier deliberations. So we said in our -  
2           - what it says recommendations, Congress  
3           should, you realize that this report was  
4           written and the committee was set up in  
5           response to a Congressional mandate, so we  
6           replied in some cases to Congress, sometimes to  
7           other agencies.

8           But "Congress should establish a process using  
9           probability of causation or assigned share to  
10          determine the eligibility of any new claim for  
11          compensation for a specified RECA-compensable  
12          disease" -- so that's the -- using this PC  
13          approach for any new claims, so it wouldn't be  
14          based on geography. It would be based on PC  
15          for these specific compensable -- compensable  
16          diseases that I've described in my earlier  
17          slides -- "in people who may have been exposed  
18          to radiation from fallout from U.S. nuclear  
19          weapons testing." So you also see we expanded  
20          it to say well, if you're going to expand the  
21          area based upon dosimetric considerations as  
22          well, then you should expand the nuclear tests  
23          for which eligibility would be available, which  
24          would include some of the Pacific tests and  
25          other tests within the U.S., not just the

1 Nevada Test Site tests. "Further, Congress  
2 should establish criteria for awarding  
3 compensation on the basis of computed  
4 distributions of the assigned share for any  
5 person making such a claim."

6 That's the one where I said earlier we punted  
7 on that. We didn't say what criteria they  
8 should establish. They could decide to  
9 establish a probability of causation of 0.3 and  
10 at 99 percent credibility interval. We left  
11 that to them. Obviously the way you set those  
12 criteria will determine how many individuals  
13 would be eligible for compensation and what the  
14 cost of such a program was. And we realized  
15 that if we had made recommendations of a  
16 specific nature, we might have recommended a  
17 program that will be so vast in cost that it  
18 would not be within the bounds of what Congress  
19 would consider was feasible. So we left that  
20 as a recommendation that they need to establish  
21 the criteria and did not specify those.

22 Here on recommendation number two I think  
23 relates to this idea of how large a group would  
24 be eligible for compensation, depending upon  
25 different criteria, but at the same time I

1            mention that the doses that were received in  
2            many cases were very low, and the probability  
3            of causation would be extremely small and might  
4            well fall out the guidelines that were set  
5            under any particular scheme. So we recommended  
6            here -- which was -- amounted from considerable  
7            discussions so that "prior to implementation of  
8            the compensation program, the NCI or other  
9            appropriate agencies should perform a  
10           population-based pre-assessment of all  
11           radiogenic diseases using the PC approach to  
12           provide guidance to individuals who might apply  
13           for compensation by determining the likelihood  
14           that any individuals in a given population have  
15           of being compensated. The calculation would  
16           use data for the maximal doses that such  
17           individuals may have received from fallout."  
18           So the idea here is that to avoid a large  
19           proportion of individuals in populations,  
20           because we've got the U.S. as our area of  
21           potential coverage, a pre-- some form of a pre-  
22           assessment should be conducted based upon a  
23           group -- a population -- at the population  
24           level. Not at the individual level, at the  
25           population level. You can define populations



1           how you wish. You can define them on  
2           geographical areas, you can define them  
3           according to dosimetric considerations. But  
4           within that population you take the maximal  
5           dose that any individual might have received in  
6           that and apply that to the whole population,  
7           and then you establish a probability of  
8           causation and determine whether, even at the  
9           maximal level, any individual would be eligible  
10          for compensation.

11          The idea behind this was to avoid comp-- not --  
12          it wasn't to restrict compensation. It was to  
13          avoid or to give people a reasonable idea of  
14          the likelihood of compensation. So it didn't  
15          preclude -- it was not designed to preclude  
16          individuals from applying for comp-- for  
17          compensation, but to give them guidance on the  
18          probabilities. So we -- that -- I say there  
19          was a lot of discussion about that particular  
20          area, but we felt that was a -- that there  
21          would -- would be the fairest way to provide  
22          up-front information to individuals prior to  
23          their going through the process of applying for  
24          compensation, because in our case here with the  
25          downwinders, the doses were, in general, very

1           small, very low -- in radiogenic tumor terms.  
2           So this goes back again to some of the  
3           discussion that was in the last presentation  
4           and the questions. "Uncertainties can't be  
5           avoided" -- even -- even if we have all the  
6           information that we can possibly gather on the  
7           A-bomb survivors or other exposed populations,  
8           there will always be uncertainties -- "and may  
9           be part of the compensation decision process.  
10          And because of substantial gaps in the existing  
11          data" -- I put substantial because in some  
12          areas there's still quite large gaps in our  
13          knowledge -- "and the uncertainties in  
14          estimated doses, the uncertainties in the  
15          associated probability of causation estimate  
16          are large. This emphasizes the need to choose  
17          compensation criteria carefully." These are  
18          recommendations straight out of the report, so  
19          they read as though I'm trying to tell you  
20          something of my own. They're straight out of  
21          the report. "This emphasizes the need to  
22          choose compensation criteria carefully." And  
23          also, as mentioned, that would always be in  
24          favor of those applying for compensation  
25          because of the uncertainties. "For example,

1           the PC/AS value associated with a high  
2           percentile of uncertainty could exceed the  
3           criteria for compensation even for some very  
4           small median doses." So in a way the high --  
5           the highest amount of uncertainty gives the  
6           broadest distribution and in fact gives the  
7           greater likelihood of being eligible for  
8           compensation. I think that was part of an  
9           earlier discussion that went on.

10          There's a recommendation that "The CDC and the  
11          NCI or other appropriate agency should complete  
12          dose estimates for all significant  
13          radionuclides in fallout from U.S. nuclear  
14          weapons testing to the population groups  
15          identified. This should include all the major  
16          sources of dose related to nuclear weapons  
17          tests considered to have potential health  
18          consequences that the CDC-NCI feasibility study  
19          described." So we're beginning to suggest that  
20          CDC and NCI complete the dose estimates that  
21          they had initially -- had completed for iodine-  
22          131.

23          I hope Dr. Land is still in the audience and  
24          hasn't had to go to the airport. "An updated  
25          dose calculator, similar to the existing NCI

1           dose calculator, should be developed for  
2           determining dose to the thyroid and other  
3           important organs." We feel in order to put  
4           such a compensation program as the one we  
5           describe into place, it is necessary to have  
6           some updated dose calculator that would expand  
7           beyond the one that's currently in use. We  
8           didn't tell NCI that. We told Congress that  
9           they should consider proposing that. So it's -  
10          - we haven't told Dr. Land to do it. We hope  
11          that somebody else will tell him or his  
12          colleagues to do this. "Such an updated dose  
13          calculator should be directly coupled to a risk  
14          calculator similar to IREP" -- so we are  
15          suggesting an update of IREP to include the  
16          additional information -- "that can compute  
17          this PC and propagate uncertainties for  
18          establishing credibility intervals or  
19          confidence intervals." So we recommend  
20          developing a risk calculator that would expand  
21          and allow such a compensation scheme as the one  
22          for RECA and the downwinders to be put into  
23          operation, would be available. That's the only  
24          way we -- such a scheme could be enacted.  
25          And finally on recommendation six, on the bas--

1           these are not related to the recommendation  
2           numbers in the report, they're just the numbers  
3           I have in this presentation. "On the basis of  
4           currently available scientific evidence, no  
5           additional diseases should be added to the list  
6           of diseases that should be considered for  
7           compensation under RECA."

8           I gave you a list of diseases. We considered a  
9           number of other possibly radiogenic tumor types  
10          and agreed that on the basis of association  
11          with radiation or doses likely to have been  
12          received by any population in the downwinders  
13          were unlike -- well, would not be compensable  
14          under any circumstances, so we did not  
15          recommend adding any additional diseases.  
16          This recommendation came in part because, as  
17          with the audience here, we held a number of  
18          public hearings in Utah and Arizona and Idaho  
19          to hear the concerns of individuals related to  
20          the mining industry -- the uranium mining  
21          industry and to the downwind exposures, and a  
22          number of other areas of concern, and part of  
23          our job was to consider all those requests for  
24          consideration of additional diseases and so on.  
25          In our final recommendations we did not

1 recommend any other diseases be added to the  
2 list currently compensable by RECA. And as I  
3 said, we did not consider the removal of any of  
4 those during our deliberation.

5 So those were the major recommendations that we  
6 had for this program. So we started out with a  
7 program that was in place and saw how we could  
8 revisit that and reassess it and come up with  
9 perhaps a -- based upon the most current  
10 knowledge, an improved and more scientifically-  
11 based compensation program.

12 And said it took a lot of effort and a  
13 considerable amount of discussion, so what I  
14 should do is then to give credit to the  
15 individuals who worked on that committee. I  
16 said I -- I was at times a ringmaster and at  
17 times a cajoler, and I did contribute on some  
18 of the recent scientific sections of the  
19 report. But just to go through the -- Tom  
20 Borak is a physicist, a radiation physicist;  
21 Cathy Borbas is a health professional, health  
22 care evaluation individual; Randy Brill is an  
23 epidemiologist; Tom Buhl is a health physicist;  
24 Pat Fleming is an ethicist; Shirley Fry is an  
25 epidemiologist; Rick Hornung is an

1 epidemiologist with considerable experience  
2 with the uranium miners; Kathy Lohr comes with  
3 a broad range of experiences and was in the  
4 education screening program; and Steve Pauker  
5 is an M.D. who was responsible for initiating  
6 our discussions on medical screenings. So it  
7 was a very broad-based group and I said a great  
8 experience, but by George, I'm glad it's over.  
9 Thank you very much.

10  
11 **BOARD MEMBERS QUESTIONS AND DISCUSSION**

12 **VICE ADMIRAL ZIMBLE:** Thank you very much, Dr.  
13 Preston, for that presentation. It -- I have  
14 one question regarding your slide number five,  
15 which is difficult to read, even with my  
16 presbyopic state. But are any of -- I counted  
17 -- I think I counted 20 diseases that basically  
18 are presumptive for RECA, at least for the  
19 downwinders, et cetera. Now is there any --  
20 what's the variation -- variance between those  
21 diseases and the 21 presumptive diseases that  
22 are in the CFR for the Veterans Administration?

23 **DR. PRESTON:** I can't tell you specifically.  
24 There's a table in the report that does that.  
25 Are they the same?

1           **VICE ADMIRAL ZIMBLE:** They're the same?

2           **DR. PRESTON:** Yeah.

3           **VICE ADMIRAL ZIMBLE:** The skin is not included  
4           --

5           **DR. PRESTON:** No.

6           **VICE ADMIRAL ZIMBLE:** -- in the -- okay, 'cause  
7           I can't read that.

8           **DR. PRESTON:** And we discussed -- in the  
9           Academy we did consider skin cancer as a --  
10          what -- what was the evidence for it being a  
11          radiogenic cancer, and the evidence was not --

12          **VICE ADMIRAL ZIMBLE:** Not there.

13          **DR. PRESTON:** -- not strong, yes.

14          **VICE ADMIRAL ZIMBLE:** Okay. Okay, thank you.  
15          Any other comments or questions? Yes, sir.

16          **DR. LATHROP:** I just had a question. I'm not  
17          sure I'm understanding your slide 15, which had  
18          the map of exposures. Were those exposures  
19          empirically assessed at each point on that map?  
20          And if so, it looks like it can't be explained  
21          by plumes from the Nevada Test Site.

22          **DR. PRESTON:** Well, I'm going to -- you know,  
23          I'm going to pass this one 'cause I've got the  
24          expert sitting -- standing -- well, sitting  
25          just to my right, Harold. Harold -- Harold has



1 had -- has been I think involved in pretty much  
2 all of these --

3 **MR. BECK:** I'm guilty somewhat of having been  
4 one of the individuals responsible for  
5 calculating those doses. There was a  
6 feasibility study, by the way, which is why  
7 they recommended that it be completed. But to  
8 answer your question, those are county  
9 averages, and they do not necessarily represent  
10 the fallout. They represent the mean dose to  
11 individuals -- to all the individuals in that  
12 county based on their milk consumption, based  
13 on where they got their milk from, all these  
14 things. But they're county averages. And then  
15 what happened is that the math was sort of  
16 smoothed to make it be nicely from county to  
17 county because the original map we published  
18 you would get one county and the next one would  
19 be a very different color, so it is sort of an  
20 averaging-out of the whole situation. But you  
21 can go on the NCI web site, for instance, for  
22 iodine and get the actual value for any county  
23 for any age. This is all available on their  
24 web site.

25 **VICE ADMIRAL ZIMBLE:** But since it -- since it

1           involved more than just the fallout plume, it  
2           also involves milk consumption, age, gender,  
3           date of birth, all those things --

4           **MR. BECK:** That's correct. There are actually  
5           --

6           **VICE ADMIRAL ZIMBLE:** -- it's not going to  
7           reflect the --

8           **MR. BECK:** You have to -- you also actually  
9           have to recognize that there were approximately  
10          90-some different tests from the Nevada Test  
11          Site, so if I were to show you the map, for  
12          instance, for a single test, it would represent  
13          the plume and you would see that -- and these  
14          maps are on the NCI test site, so if you look  
15          at the maps for an individual test -- for  
16          thyroid cancer, for instance, you will see that  
17          big variation that'll represent the plume. But  
18          when you put all these 90 tests together and  
19          you -- they went different directions and  
20          different times, and so you get this smoothing-  
21          out.

22          **DR. PRESTON:** That was why you have to include  
23          the information on residents in a particular  
24          region because you can calculate -- at the  
25          individual level you can calculate an

1 individual dose based upon how many tests were  
2 conducted whilst you were in a particular  
3 region of the country. So yeah, these are the  
4 -- these are sort of the composite.

5 **DR. LATHROP:** But again, my -- my question is  
6 actually simpler. This map is the result of  
7 models of transport and fade from the test.  
8 It's not a matter of --

9 **MR. BECK:** No.

10 **DR. LATHROP:** -- (unintelligible)

11 **MR. BECK:** No, it's based on measurements, a  
12 limited number of measurements and  
13 sophisticated interpolation schemes --

14 **DR. LATHROP:** Okay.

15 **MR. BECK:** -- but it is based on measurements  
16 of the -- it's ba-- well, I should be careful.  
17 I mean you cannot calculate internal doses.  
18 You can measure internal doses directly. What  
19 you can measure are -- is the fallout from  
20 various tests. You can then interpolate these  
21 -- the fallout over space and time and things  
22 like that, and then you use the models to  
23 calculate what the dose to the thyroid was. So  
24 you do have models involved here in terms of  
25 you can measure population, how much they drank

1 and things like that. But the dose to the  
2 thyroid is based on a model.

3 **DR. LATHROP:** Okay. Okay.

4 **DR. PRESTON:** I mean there were collec-- there  
5 were various collecting stations, isn't that --  
6 I don't know what you call them, Harold --  
7 around the country.

8 **DR. LATHROP:** All right, so now comes my next  
9 point. Were other atmospheric tests being  
10 conducted by certain other countries during the  
11 same time?

12 **DR. PRESTON:** And Harold can answer that, but I  
13 can give you the -- yes, they were, but that's  
14 also built into the calculation I think of  
15 doses from the Nev-- from the U.S. tests.

16 **DR. LATHROP:** And so here's my point: Are we  
17 talking about compensation including  
18 compensation for exposure to tests conducted by  
19 certain --

20 **DR. PRESTON:** No.

21 **DR. LATHROP:** -- other countries, to remain  
22 nameless?

23 **DR. PRESTON:** Not -- not in -- not in this  
24 case. We recommended that the exposures or  
25 doses be from the tests conducted by the U.S.,

1 largely from the Nevada Test Site. But we did  
2 include some -- for example, Guam put in a  
3 particular petition and we did include a  
4 discussion on incorporating Guam into the  
5 compensation area because they were subject to  
6 fallout from nuclear tests not from the Nevada  
7 Test Site. That was all discussed in the  
8 report and went through the -- you know, I  
9 didn't get into that level of detail, but you  
10 can -- you can calculate the dose from specific  
11 and only from U.S. tests, and that's what we  
12 recommended the compensation be for. And  
13 Harold can answer that.

14 **MR. BECK:** Just -- the feasibility study that  
15 you mentioned that was the basis for their  
16 drawing these maps, there was fallout from the  
17 Nevada Test Site, and that impacted certain  
18 parts of the country, particularly the a little  
19 bit more usually, on average. But then there  
20 was fallout from the tests conducted in the  
21 Pacific, both by the United States and the  
22 other powers. And this also resulted in  
23 considerable fallout from different types of  
24 nuclides, generally, and this was also  
25 calculated as part of the feasibility study and

1 maps are given for that, too. And there iodine  
2 is of less importance because of the delay. So  
3 here you have some other nuclides generally  
4 being possibly more important, the long-lived  
5 ones that came from these tests. That is  
6 included in this study. As Dr. Preston said,  
7 these were very low doses, but the whole -- you  
8 know, he mentioned about the -- you know,  
9 people who might have been exposed to fallout.  
10 Everybody in the world was exposed to U.S. and  
11 Russian fallout, particularly the northern  
12 hemisphere, but even in the southern  
13 hemisphere. So everybody had some fallout  
14 exposure.

15 **VICE ADMIRAL ZIMBLE:** Thank you very much. We  
16 are beyond our scheduled break time, and let me  
17 just ask one question. If there are any  
18 questions or discussions that are to be  
19 directed to Dr. Preston, let's ask that. But  
20 then if we have any further discussion, let's  
21 save that till after the break. Okay.

22 **COLONEL TAYLOR:** My question is directed at Dr.  
23 Preston and it refers back to the MCI (sic)  
24 1997 ionizing study 131. Why milk consumption,  
25 and was it the only special criteria of that

1 type?

2 **DR. PRESTON:** Yes --

3 **COLONEL TAYLOR:** You referred to milk  
4 consumption in -- in --

5 **DR. PRESTON:** Absolutely. The milk consumption  
6 is very important in determining the dose or  
7 the exposure from iodine-131 and some other  
8 radionuclides. And I guess it's -- again, it's  
9 from the fallout through the -- and Harold, you  
10 know, I'm -- I'm looking at Harold 'cause he's  
11 such an expert and I'm always embarrassed to  
12 talk about these things in front of Harold.  
13 But it's to do with the fallout and the back  
14 yard -- it's to do with the back yard goat  
15 syndrome. If you have a goat in the back yard  
16 in an area where there's some fallout, then the  
17 goat -- the radioactivity will get into the  
18 milk, and then the individual drinks the milk  
19 and that's how it gets in -- that's why the  
20 milk is such a significant component, and now  
21 you --

22 **COLONEL TAYLOR:** Is it --

23 **DR. PRESTON:** -- can answer that, Harold.

24 **COLONEL TAYLOR:** Is it -- you can let him  
25 answer it, but --

1           **DR. PRESTON:** Yeah.

2           **COLONEL TAYLOR:** -- is it more that it is an  
3 important, easy to identify indicator? Is that  
4 one of the reasons it's on there?

5           **DR. PRESTON:** It's very important, I think, in  
6 the determination of dose.

7           **MR. BECK:** What it is is that - iodine-131  
8 concentrates in the thyroid, and the way it  
9 gets into the thyroid from the fallout, the  
10 fallout gets deposited on the ground -- on the  
11 grass. Unless iodine actually gets into your  
12 body, it's not much of a hazard.

13           **COLONEL TAYLOR:** Yeah.

14           **MR. BECK:** But the way it most -- important way  
15 it gets into your body is that cows eat the  
16 grass that the iodine is on and -- cows and  
17 other animals --

18           **COLONEL TAYLOR:** And then we (unintelligible).

19           **MR. BECK:** -- and the iodine concentrates in  
20 the milk of the cows and you drink the milk.  
21 And that -- that's how it gets into your body.  
22 And so you get a radiation dose because it gets  
23 into your body. If you didn't drink milk at  
24 all, you would get a very low dose even though  
25 there may have been a lot of iodine deposited



1           in your back yard. If you had a back yard cow,  
2           then you're going to drink the milk from that  
3           back yard cow and -- without much delay, and so  
4           you'll get a higher dose. If you had a back  
5           yard goat, goats concentrate even more iodine  
6           in their milk, so that's why it's important.  
7           It really has to do with -- you know, when you  
8           have radiation exposure, you either get exposed  
9           from -- externally, from it being on the ground  
10          if it has high enough energy radiation, or you  
11          get exposed internally because the  
12          radionuclides somehow get into your body --  
13          through what you eat, through what you drink or  
14          through breathing. And these are the various  
15          pathways that we consider in this dose  
16          reconstruction here, as well. Iodine -- each  
17          radionuclide can get into your body in  
18          different ways, but this cow/milk ingestion  
19          pathway, thyroid pathway, is the most efficient  
20          and most important for this particular  
21          radionuclide, so that's why it's important.

22          **COLONEL TAYLOR:** One of my reasons for asking  
23          was that I was exposed fairly significantly at  
24          Desert Rock, and yet I am a person who hates  
25          milk and have never really drunk it during my

1           life when I could avoid it. That's why the  
2           question came up is to -- would there be a  
3           difference and so forth and it becomes  
4           interesting. Thank you.

5           **VICE ADMIRAL ZIMBLE:** You probably didn't  
6           graze, either, in the grass.

7           **COLONEL TAYLOR:** That's right, if I ate grass  
8           or drank beer or something else, maybe that'll  
9           do it. I don't know.

10          **MR. BECK:** There also weren't too many cows  
11          there.

12          **COLONEL TAYLOR:** Yeah, right.

13          **VICE ADMIRAL ZIMBLE:** Dr. Zeman, this'll have  
14          to be the last question.

15          **DR. ZEMAN:** Yes, at the risk of running into  
16          our break, I'd like to ask Dr. Preston a  
17          question.

18          First of all, Dr. Preston, I really enjoyed and  
19          was illuminated by your talk, and also by the  
20          NAS report which I found extremely readable and  
21          basically a textbook on radiation dosimetry,  
22          radioepidemiology -- very interesting reading.  
23          And for those who haven't read that report, I  
24          recommend they take it with them on their  
25          flight home and settle down and spend a couple

1 or three hours reading it 'cause it's well  
2 worth it.

3 **DR. PRESTON:** Thanks.

4 **DR. ZEMAN:** One thing I would like to clarify,  
5 and that is the numbers on the graphs that were  
6 just up on the slide there show doses -- dose  
7 numbers as high as 150 and 200, and I would  
8 like to clarify that those are doses in  
9 milligrey, not --

10 **DR. PRESTON:** Yes, correct.

11 **DR. ZEMAN:** -- not doses in rem. And --

12 **DR. PRESTON:** Yeah.

13 **DR. ZEMAN:** -- for all of the gray-haired  
14 people here on this committee, we're used to  
15 thinking in numbers of rem. And 200 milligrey,  
16 if I did my conversion right, is actually 20  
17 millirem -- I'm sorry, 20 rem. So the doses  
18 are in fact up to about and a little over 20  
19 rem that you were showing, not -- not hundreds.  
20 So I wanted to clarify that.

21 Let me get to my question. My question is  
22 this. I'm on the subcommittee that's looking  
23 at dose reconstruction, and two of the  
24 principles that are followed in the dose  
25 reconstruction for the veterans -- one

1 important principle is the benefit of the doubt  
2 with regard to developing the scenario of where  
3 the person was and how they participated. And  
4 the other is the idea of the upper bound dose  
5 that takes into account all the various  
6 uncertainties regarding the participation,  
7 regarding the dosimetry data, regarding the  
8 exposure data. So you -- in the RECA program  
9 you also face these same questions, how to take  
10 into account a person's own statements of what  
11 they did, how much milk they drank, where they  
12 lived, and also how to take into account all  
13 the uncertainties and establish some kind of  
14 upper bound dose.

15 So what I wanted to ask is your advice, really,  
16 or your -- your opinion on how we view those  
17 things, how we judge those things and how we  
18 should assess those things when we're auditing  
19 individual dose reconstruction records.

20 **DR. PRESTON:** Yeah, I mean there are some  
21 things that are documentable or available for -  
22 - to be documented. I mean the components  
23 which are the most significant would be, you  
24 know, residence during a particular period of  
25 time. And those -- in the RECA program those

1           require documentation and -- for which there  
2           are other -- other difficulties, but they are  
3           over-- they can be overcome. But -- so those -  
4           - so residence is fairly straightforward, year  
5           of birth is straightforward. Those all  
6           influence.  
7           Things like milk consumption, which is -- which  
8           would cause some variation, I think that's just  
9           something that there's -- you -- it could not  
10          be documented and you just have to rely upon  
11          some sort of average value for -- and if  
12          somebody is enormous-- their declaration is  
13          enormously outside, you would perhaps make some  
14          inquiry. But I don't think there are many  
15          items that would fall into the not-documentable  
16          that would really impact.  
17          Now the uncertainty is taken into account in  
18          doses and in risk estimates and so on simply by  
19          the credibility intervals or the confidence  
20          intervals that you allow for compensation  
21          around a PC value of, as we talked about today,  
22          0.5 although, as I said, we did not recommend  
23          that value. That takes into account a lot of  
24          the uncertainty.  
25          So is that getting to the point that you...

1           **DR. ZEMAN:** Partially, yes, the -- but the  
2           uncertainty in the PC estimation is based on  
3           the uncertainty in the radioepidemiology. And  
4           what we need also is to establish the  
5           uncertainty in the radiation dose  
6           reconstruction. What is the upper bound, what  
7           is the uncertainty in the dose. So that --  
8           that estimate of uncertainty also must go into  
9           the --

10          **DR. PRESTON:** It goes in, but that does go into  
11          the calculation of the PC. There's a -- as Dr.  
12          Land, who's now disappeared on us -- you add up  
13          the uncertainties, the uncertainties based upon  
14          dose and the uncertainties based upon risk, and  
15          then you calculate an overall uncertainty which  
16          is then built into that distribution of a PC.  
17          So the PC is -- utilizes dosimetric information  
18          and risk estimation, and so that part of the --  
19          that part of the uncertainty is incorporated  
20          into the calculator. And that's why the  
21          distributions -- if you see the distributions  
22          of PC can be very broad. As I pointed out, the  
23          magnitude of the distribution is in part  
24          determined by the level of uncertainty, and  
25          then also affects the compensation. Or the

1 potential for eligibility for compensation, I  
2 should clarify.

3 **VICE ADMIRAL ZIMBLE:** Dr. Preston, thank you so  
4 much. We appreciate your dissertation and your  
5 -- you've edified members of the Board and I  
6 thank you.

7 **DR. PRESTON:** Thank you.

8 **VICE ADMIRAL ZIMBLE:** Now I'm going to address  
9 the Board. We're past the scheduled break. We  
10 also have nothing scheduled until -- now until  
11 1:30 on the agenda, so do we have any further  
12 discussion that we might want to resume after  
13 the break, or shall we take a long lunch? Yes,  
14 Mr. Pamperin.

15 **MR. PAMPERIN:** Thank you, Admiral Zimble. I  
16 just wanted to verify -- I e-mailed Dr. Neil  
17 Otchin, who is the VA doctor who does our  
18 reconstructed dose estimates, and he has  
19 verified for me that we do use the NIOSH  
20 version of IREP, so that the most beneficial  
21 benefit of the doubt regarding basal cell and -  
22 - myeloma are -- is used.

23 **VICE ADMIRAL ZIMBLE:** Thank you very much for  
24 that. And now Dr. Vaughan, have you been able  
25 to catch all the conversation that's been going

1 on?

2 **DR. VAUGHAN:** Yes, I have, and I have a point  
3 of discussion but it can wait until after  
4 lunch, if --

5 **VICE ADMIRAL ZIMBLE:** Okay.

6 **DR. VAUGHAN:** -- there'll be an opportunity for  
7 that.

8 **VICE ADMIRAL ZIMBLE:** Okay, yes, there'll --  
9 oh, there'll be plenty of opportunity to -- for  
10 discussion --

11 **DR. VAUGHAN:** Okay.

12 **VICE ADMIRAL ZIMBLE:** -- this afternoon. So  
13 why don't we resume here at 1:30.

14 **DR. VAUGHAN:** Okay.

15 **VICE ADMIRAL ZIMBLE:** Thank you.

16 **DR. VAUGHAN:** Thanks.

17 (Whereupon, a recess was taken from 11:20 a.m.  
18 to 1:30 p.m.)

19

20 **PUBLIC COMMENT SESSION**

21 **VICE ADMIRAL ZIMBLE:** Ladies and gentlemen, it  
22 is now 1:30 and I'd like to resume the Board  
23 meeting. I'm gratified to see that we've got a  
24 reasonable return after a long break, and I --  
25 we're going to -- we're going to reserve the



1 next two hours for public comment. This is a  
2 very important aspect of the business of the  
3 VBDR. Nothing is more important than good,  
4 solid communications between the veterans and  
5 both the Veterans Administration and the NTPR.  
6 And this Board, looking for ways to enhance  
7 that communication and that outreach and trying  
8 to arrive at some mutual understanding, also  
9 invite comment so that we can participate and  
10 help the process of enhancing communication.  
11 And I'll tell you that when I use the term  
12 "communication" it doesn't just mean speaking  
13 from Board to veterans. It means a Board  
14 that's ready and willing to listen to what --  
15 what you have to say. We need to know what  
16 your concerns are. We need to be able to see  
17 how those concerns fit into the jobs that we're  
18 doing, and so this next two hours, to me, is  
19 probably the most important two hours of the  
20 business of the VBDR.

21 I'm going to ask for presenters in the order in  
22 which they've been registered on this piece of  
23 paper, so I'm going to ask first for Carlos  
24 Contreras to say a few words. Carlos, the  
25 floor is yours, Mr. Contreras.

1           **COLONEL TAYLOR:** How do you spell the last  
2 name?

3           **VICE ADMIRAL ZIMBLE:** C--

4           **MR. CONTRERAS:** C-o-n--

5           **VICE ADMIRAL ZIMBLE:** Go ahead. I'll let you  
6 spell it. You've been more familiar with it.

7           **MR. CONTRERAS:** -- t, as in Tom, r-e-r-a-s,  
8 Carlos R.

9           **COLONEL TAYLOR:** Thank you.

10          **MR. CONTRERAS:** Thank you. Thank you -- I want  
11 to thank the Board for letting me speak and for  
12 conducting this Board meeting on dose  
13 reconstruction for us veterans, and we thank  
14 you.

15 I want to -- I want to read a letter here that  
16 I have on my atomic veterans concerns and  
17 opinions to the Veterans Advisory Board on Dose  
18 Reconstruction committee hearings. The VA  
19 throughout the United States does not comply  
20 with the VA handbook 1301.1. That is a  
21 determination on dose reconstruction when a  
22 veteran goes to apply at the eligibility  
23 department so he can start his process.  
24 On the guidelines of the Ionizing Radiation  
25 Registry program the procedures are not as

1 required by Public Law 99576, Veterans Benefits  
2 Improvement in Health Care Authorization Act of  
3 1986. For example, the southern Arizona VA  
4 health care systems in Tucson, the register  
5 coordinator, who is the person you first  
6 register with for the ionizing radiation agent  
7 orange, Gulf War, works in the eligibility  
8 office as an eligibility agent first, and the  
9 IR Register coordinator second. So the  
10 Register coordinator is always behind in his  
11 duties and six weeks behind on his outgoing  
12 letters to the Veterans Administration and the  
13 Austin Automatic Center, whose letters should  
14 be delivered or mailed to the veteran within  
15 two weeks of the doctors' concerns to let them  
16 know his diseases connected to radiation  
17 exposure.

18 The VA re-- the required VA form 101079,  
19 emergency medical identification circle of  
20 radiation, when you get your records, that form  
21 should be in there and the coordinator's  
22 supposed to mark that you're radiation exposed.  
23 That is not complied. Supposed to be marked  
24 radiation -- and it's very seldom used, if any.  
25 So some -- the majority of the medical records

1 do not have that attachment. Those attachments  
2 are for POWs or anything that you have that  
3 could be of a serious nature.

4 Number two, the care provider knows very little  
5 or any -- I'm sorry, I will rephrase that. The  
6 care provider knows little or nothing at all of  
7 radiation diseases, or about the ionizing  
8 radiation program procedures. That's the  
9 person that you're -- go to see when you're  
10 sick and he's your care provider, and he  
11 doesn't have any answers for you.

12 Three, the medical doctors are not about to  
13 give a veteran a letter stating that a said  
14 disease could be related to ionizing radiation  
15 for fear of losing their job. They will make a  
16 verbal statement. That is as far as it goes.  
17 Four, my opinion -- in my opinion, the VA and  
18 the DTRA will continue to do -- will continue  
19 on the same course until we die off. The VBDR  
20 is another stalling tactic. My last hearing  
21 was 2004 on -- on my diseases. In other words,  
22 on my claim. No word of my claim for cancer of  
23 the urinary tract, urethra, cancer of prostate,  
24 urinary bladder cancer, prostate -- posterior  
25 subcatar-- subcapular (sic) cataracts, which is

1 common with radiation veterans exposed.  
2 Five, it has been an up-hill battle for -- with  
3 the VA and the DTRA for us veterans to get  
4 service-connected disability compensation from  
5 the VA. A lot of us have died trying and a lot  
6 of us have given up and others given up hope.  
7 Now also on your Public Law 98542, this public  
8 law was initiated in October 24th, 1984. For  
9 us veterans that were exposed to ionizing  
10 radiation and also on these atomic nuclear  
11 testing and maneuvers, we could not say  
12 anything. If we got sick we could not go to  
13 the VA doctor or anybody because we didn't have  
14 a clearance. It was all top secret. You can't  
15 talk to anybody about it. And this is the  
16 clearance that was sent out and it's dated  
17 February the 13th, 1995. So how were we  
18 supposed to address our concerns?  
19 So as you can see -- okay, the Board can see  
20 that we have a lot of concerns about ourselves.  
21 We buried a lot of friends, a lot of  
22 colleagues. A lot of our shipmates have gone  
23 and we're in a catch-22 now because we don't  
24 know where to go.  
25 And as far as dose reconstruction, how can you

1 reconstruct the atom? Once you explode it,  
2 that's it. So there's been up to 15 megatons  
3 all the way from one kiloton to 15 megatons. I  
4 haven't seen a report, but they say that some  
5 of them -- there's one that's 50 megatons, so -  
6 - and you cannot compare a person that's 50  
7 miles away and the cloud goes over that area  
8 from a person that's three miles or two miles  
9 away in a government maneuver.

10 I was in Operation WIGWAM off of San Diego, 450  
11 miles southwest of San Diego, 30 kilotons. And  
12 on that operation we were the LST that was  
13 holding the strain on the barge so it won't  
14 dogtail. At the time of the countdown we let  
15 go of the wire which was holding the barge. We  
16 overran the wire and we got caught about two  
17 and a half miles from ground zero at the time  
18 of H hour. Now DTRA -- and here's a picture of  
19 that where the bar-- where the LST is -- I'll  
20 give it to you after a while. Anyway, then I  
21 have a map provided by the people in charge of  
22 Operation WIGWAM, and I have the LST 975 way up  
23 on the other side, and I know that we were only  
24 two and a half miles. So it -- you know, it --  
25 really, I wonder that -- that there's just a

1           few of us left. By this time I think we should  
2           all have been gone.

3           I thank the Board and I appreciate, and I don't  
4           want to, you know, come down hard or anything  
5           else like that, but it's -- it's a very con-- a  
6           very touchy situation with us, and we lost  
7           faith with DTRA, with the VA. We don't have  
8           any faith anymore.

9           As you can see, you have a very -- very, very  
10          little show-up -- people are showing up. They  
11          think well, what the hell, why should we go?  
12          It's the same old thing.

13          I thank you.

14          **VICE ADMIRAL ZIMBLE:** Okay. Thank you very  
15          much, Mr. Contreras. Before you leave, let me  
16          first -- Mr. Contreras, before you leave, let  
17          me first reassure you that this Board is -- has  
18          not been put up to -- as a -- as a -- a  
19          blocking mechanism, that we will be providing -  
20          - and -- and our testimonies are -- our  
21          meetings are all open forums and we will be  
22          making -- ultimately be making recommendations  
23          to both agencies on how they can improve the  
24          process. Your testimony is very helpful in our  
25          understanding what the problems are in the

1 process. So your being here is very, very  
2 important and I would appreciate your  
3 mentioning to your colleagues that we really  
4 invite this public comment. It's important.  
5 Does the Board have any comments or questions  
6 that you'd like to make? Wait -- wait -- Mr.  
7 Pamperin?

8 **MR. PAMPERIN:** Yes, thank you, Mr. Contreras.  
9 I just have a couple of questions. On your  
10 very first issue with Southern Arizona --  
11 Tucson Outpatient Clinic, I guess it is -- I'm  
12 not quite sure I understand what you mean. Are  
13 you saying the -- the six-week issue, is this -  
14 -

15 **MR. CONTRERAS:** Sir?

16 **MR. PAMPERIN:** I'm sorry.

17 **VICE ADMIRAL ZIMBLE:** He's asking you a  
18 question, Mr. --

19 **MR. PAMPERIN:** Yes.

20 **VICE ADMIRAL ZIMBLE:** Stay at that microphone.

21 **MR. PAMPERIN:** I'm trying to understand your --  
22 your first issue with the Tucson Clinic. And  
23 you make a reference to two weeks and six  
24 weeks. Did -- are you talking about the -- an  
25 elapsed time from the time of an examination to



1 a letter to you?

2 **MR. CONTRERAS:** Well, sir, according to the IR  
3 -- ionizing radiation program that the VA has  
4 put out, you contact the coordinator, the  
5 coordinator will set a time of where -- when  
6 you see the doctor. A date, in other words.  
7 Let's say, for instance, they'll give you two  
8 weeks. It's supposed to be within two weeks  
9 after you contact that coordinator. And it  
10 gives you two weeks. Sometimes they run three,  
11 you know, but the thing is if you're going to  
12 run six weeks for an appointment, that's too  
13 much. But within two weeks is supposed to  
14 have an appointment with a medical doctor. Two  
15 weeks after your examination, which requires  
16 urine, blood, chest X-rays, and at the same  
17 time, that same date you see the doctor, you  
18 tell him your concerns, your diseases. And  
19 after that, two weeks he's supposed to give you  
20 a letter, send you a letter by mail stating  
21 your concerns and his findings that he will  
22 recommend to the VA. In other words, send it  
23 to the Secretary of Health. And that is not  
24 followed properly.  
25 And it's not only the Tucson VA, but it's

1 throughout the country. Some of these VA CEOs  
2 on the regional hospitals do not comply because  
3 it takes money away from the budget. And they  
4 have a coordinator working for eligibility and  
5 he's the coordinator for agent orange, this and  
6 that -- agent orange, radiation, every-- he  
7 can't do all that. He has to just stay with  
8 that program.

9 **MR. PAMPERIN:** Okay, I am -- I understand and,  
10 you know, I'll bring that back. Regarding the  
11 -- those labels on your charts, too, I'm aware  
12 that that's an ongoing issue.

13 I would -- I -- do you live in Arizona or in --  
14 or in California?

15 **MR. CONTRERAS:** No, I live in Arizona.

16 **MR. PAMPERIN:** Could I see you a little bit  
17 after this and --

18 **MR. CONTRERAS:** Yes, sir.

19 **MR. PAMPERIN:** -- we'll find out what's going  
20 on with (unintelligible).

21 **MR. CONTRERAS:** Yes, I -- I -- I've been active  
22 with the Atomic Veterans for the past seven  
23 years -- six year, seven years. Anyway, and  
24 I've also been active with the Disabled  
25 American Veterans as a service officer.

1           **MR. PAMPERIN:** If you -- perhaps if you could  
2 speak with Mr. Jim Schultz over in the front  
3 row, he's from the Los Angeles Regional Office  
4 and we can get the specifics of your claim and  
5 we can get back to you on --

6           **MR. CONTRERAS:** Yes, sir.

7           **MR. PAMPERIN:** -- (unintelligible) that is.

8           **VICE ADMIRAL ZIMBLE:** And Mr. Contreras, you  
9 had mentioned a diagnosis. I don't necessarily  
10 want to repeat that, but it's my understanding  
11 that some of the (unintelligible) --

12           **MR. CONTRERAS:** (Unintelligible)

13           **VICE ADMIRAL ZIMBLE:** -- that you mentioned are  
14 presumptive --

15           **MR. PAMPERIN:** Right.

16           **VICE ADMIRAL ZIMBLE:** -- diagnoses that don't  
17 require dose reconstruction.

18           **MR. PAMPERIN:** Absolutely, no.

19           **MR. CONTRERAS:** Sir?

20           **VICE ADMIRAL ZIMBLE:** Some of those things that  
21 you mentioned are -- are conditions that do not  
22 require dose reconstruction, and so by all  
23 means talk to the veterans representatives here  
24 and we'll see if we can resolve some of that.

25           **MR. CONTRERAS:** Another thing that -- that you

1           just reminded me of, in the Federal Code of  
2 Regulations, you know, some of us veterans that  
3 were exposed do not require a dose  
4 reconstruction.

5           **VICE ADMIRAL ZIMBLE:** Right.

6           **MR. PAMPERIN:** Right.

7           **MR. CONTRERAS:** You know, and -- and --

8           **VICE ADMIRAL ZIMBLE:** Okay. Colonel Taylor.

9           **COLONEL TAYLOR:** Mr. Contreras, may I call you  
10 Carlos? It's --

11          **MR. CONTRERAS:** Yes, sir.

12          **COLONEL TAYLOR:** -- easier. You've done a good  
13 job of presenting and providing us information  
14 on both the registration procedures for dose  
15 registration and for some on Operation WIGWAM.  
16 That occurred in I think 1955, and in that 50  
17 years since then where have you lived other  
18 than in Arizona?

19          **MR. CONTRERAS:** I lived for five years in Los  
20 Angeles --

21          **COLONEL TAYLOR:** Okay.

22          **MR. CONTRERAS:** -- Glendale, Arizona -- I mean  
23 Glendale, California, I'm sorry.

24          **COLONEL TAYLOR:** Okay. You lived in this  
25 immediate area pretty well --

1           **MR. CONTRERAS:** Yes, sir.

2           **COLONEL TAYLOR:** -- consistently. What I'm  
3 asking you to do is you've done a good job of  
4 presenting what the procedures are and what the  
5 ionizing radiation event was. What I suggest  
6 to you is collect as much data as you can of  
7 the last 50 years of your personal actions to  
8 get disability or whatever you need to get,  
9 then turn to a veterans service officer that  
10 you're comfortable with -- may be the man here  
11 from L.A., may be a person in Arizona for you -  
12 - but turn to somebody and show them what you  
13 have done to try to collect this information  
14 and get this done. We can't do it here because  
15 we really can't deal with an --

16           **MR. CONTRERAS:** Well, I --

17           **COLONEL TAYLOR:** -- individual case, but you --  
18 we can refer you to a VSO.

19           **MR. CONTRERAS:** I understand, sir, but that's  
20 part of my collection that I'm giving you. I  
21 am -- I have a big collection --

22           **COLONEL TAYLOR:** I'm sure you have a big file  
23 of --

24           **MR. CONTRERAS:** -- and I've worked with atomic  
25 veterans extensively --

1           **COLONEL TAYLOR:** In -- in your job.

2           **MR. CONTRERAS:** Yes, sir, and as a Arizona  
3 State Commander, also, for National Association  
4 of Atomic Veterans.

5           **COLONEL TAYLOR:** Well, you have experience and  
6 not only can help yourself in getting the  
7 disability or whatever else you need, but you  
8 can also have experience that can show us what  
9 needs to be done in being able to communicate  
10 to other atomic veterans on how to solve some  
11 of their problems --

12          **MR. CONTRERAS:** Well --

13          **COLONEL TAYLOR:** -- because we have a number of  
14 people that come to us that are very frustrated  
15 with having achieved very little success, and  
16 that's what I'm suggesting to you.

17          **MR. CONTRERAS:** Thank you. But let me -- let  
18 me -- let me --

19          **COLONEL TAYLOR:** Respond.

20          **MR. CONTRERAS:** -- response with that. I -- I  
21 started a group in Tucson, Arizona and we went  
22 up to 14 atomic veterans, and then we moved to  
23 Phoenix -- that's when I was representing NAAV  
24 and we moved to Phoenix and we had a meeting, a  
25 group meeting, luncheons, up to 38 persons that

1           -- and I met widows and siblings and veterans,  
2           and I've seen them die, you know. And I -- I  
3           know they're -- it's a problem. So as far as  
4           being very well-informed on the situation, I've  
5           -- I'm not an expert, but I've studied it.

6           **COLONEL TAYLOR:** I'm not concerned with your  
7           own individual expertise. I'm concerned with  
8           your ability to communicate what you've done to  
9           a VA or VSO who can help you resolve the  
10          issues.

11          **MR. CONTRERAS:** Yes, sir --

12          **COLONEL TAYLOR:** That's what I --

13          **MR. CONTRERAS:** -- thank you.

14          **COLONEL TAYLOR:** That's what I'm aiming at.

15          **MR. CONTRERAS:** Yeah, yeah. Back -- back to  
16          the issue of contacting -- when a person -- if  
17          I live in Arizona, I have to stay with the  
18          regional office in Arizona. Any person that's  
19          in California has to stay with a regional  
20          person in California. Each state handles their  
21          own claims. You can --

22          **COLONEL TAYLOR:** That can change in the future,  
23          but stay with it for the moment.

24          **MR. CONTRERAS:** Well, that's also... Is that  
25          all?

1           **VICE ADMIRAL ZIMBLE:** Okay, thank you --

2           **MR. CONTRERAS:** Thank you.

3           **VICE ADMIRAL ZIMBLE:** -- thank you very much.

4           Now Mr. Wyant.

5           **UNIDENTIFIED:** (Off microphone)

6           (Unintelligible) --

7           **VICE ADMIRAL ZIMBLE:** Yes, Mr. Wyant, you  
8           betcha.

9           **UNIDENTIFIED:** -- (unintelligible)

10          **MR. WYANT:** My name is Clyde Wyant. I live in  
11          Milwaukee, Oregon. I'm a regular Army -- was  
12          regular Army. I was in Kodiak, Alaska when  
13          they bombed Pearl Harbor, and then I got  
14          involved in the atomic. I'll skip the rest of  
15          it, but I was picked out of Washington, D.C.  
16          out of 3,500 returning veterans from Europe.  
17          Dr. Oppenheimer and his crew were there trying  
18          to find some people to help them. Dr.  
19          Oppenheimer told me, after I was there, he  
20          picked me the second day. I'm only 21 years  
21          old. And I said to him -- first of all, this  
22          was supposed to be a deal to go to work for the  
23          Post Office in the APOs to help get the stuff  
24          over to Europe and different places. I knew  
25          after a week it was no post office job, but I



1           didn't know what it was, but I knew it was  
2           something. And I kept seeing this same fella  
3           all the time.

4           Anyway, I'll cut off of that and I'll get back  
5           down to Los Alamos when I walked in there and I  
6           looked and I hooted, I see Dr. Oppenheimer. I  
7           didn't know it was Dr. Oppenheimer at the time.  
8           I says well, I remember seeing you. I talked  
9           to you quite a bit, and he said yes. And he  
10          says I'll tell you one thing, I picked you the  
11          second day. I says why did you pick me, I'm  
12          only 21 years old; what have I got to do -- I  
13          don't even know what I'm doing here. He says I  
14          thought a farm boy from Iowa couldn't get in  
15          too much trouble, so I picked you. And I been  
16          under security for 65 years. I've probably got  
17          one of the highest ratings in security that you  
18          can get from the FBI. The FBI called me in  
19          February this year checking on us to see how  
20          many of us are still alive out of the 243 he  
21          said that worked in my area. And in those days  
22          the Army was the only ones there and so I  
23          presume some of them were probably the MPs.  
24          But anyway, besides the point. He was checking  
25          to see if I was still alive. And he asked me a

1 lot of questions, and I told him about my  
2 security -- my award from National Atomic Group  
3 thanking me for my service, and I had a copy of  
4 a letter from Bob Oppenheimer, who was my boss.  
5 He said I know that, I have it. I says why are  
6 you asking me these questions? He says I'm  
7 having a hard time believing that you are still  
8 alive. I said well, what do you mean? He says  
9 well, I been working on this list for two and a  
10 half months. I haven't talked to a veteran, a  
11 family, a brother, sister or even children that  
12 even know anything about it. And he says my  
13 name being Wyant, it's the last on the list  
14 'cause I knew there was no Zs. And he says if  
15 you got all that stuff and I was reading what  
16 you have here now, you are the sole survivor of  
17 those from Los Alamos from '40 to '45.  
18 You want to go on a little bit more? Get into  
19 the meat?

20 In 1945 I was in Los Alamos when we tested on  
21 June 25. We tested in Los Alamos and it was  
22 called TRINITY site. Also in those days we  
23 were known as Manhattan District Engineers of  
24 Tennessee, because that was our cover. We were  
25 not known as atomic. Anyway, the explosion

1           went off, and after it was off, why the troops  
2           went out to look to see and one thing I can  
3           tell you because they'll let me talk about it,  
4           there was an old locomotive built in 1850 or  
5           thereabouts, had a big smokestack on it, it was  
6           a coal-burner. You know, those had a lot of  
7           iron in them. Well, they put that on a rail  
8           track and ran her up to where they said they  
9           were going to drop the bomb, and behind it was  
10          seven prisoner boxcars. Those are what the  
11          military hauled prisoners of war in. And they  
12          said they were going to drop it in front of it.  
13          Now I was not out on the testing ground. This  
14          is what I got from people I was able to talk  
15          to. They dropped the bomb from a 900-foot  
16          tower, and just two weeks ago out in Portland  
17          at the VA a man seen my atomic and he wanted to  
18          know what and when and I told him. He says  
19          well, I was there on the testing ground. He  
20          says I'm the one that put the equipment out  
21          there to detonate that bomb. We made it in our  
22          place. And I thanked him, and he said well,  
23          you did a hell of a job.  
24          Anyway, they dropped that bomb from a 900-foot  
25          tower. That's why it was able to land in front

1 of that locomotive. It did. And after it was  
2 all over with and they were able to go back and  
3 see what happened, there was nothing left of  
4 the locomotive except a small handful of metal.  
5 The boxcars, the railings -- gone. The tower -  
6 - gone. And what was in front of it, where it  
7 was, was a pit estimated to be between 1,200  
8 and 1,500 feet deep, three-quarters of a mile  
9 or a little better across, two and a half miles  
10 long, and it was all covered with five inches  
11 of glass, top to stern. Does anybody know why?  
12 Well, I'll tell you why because some of you  
13 don't.  
14 Heat makes glass, and that glass is still there  
15 to this day. I'm going to get a chance to go  
16 see it. I'm supposed to be on the road next  
17 month, but I don't have -- I got some medical  
18 problems that have to be taken care of first,  
19 but I'm going to go see it. But that's the  
20 story on that part.  
21 Now what I want to talk about is -- I'm not  
22 going to talk about those fellas out in the  
23 Pacific which the federal regulation shows that  
24 they are the only atomic veterans. They are  
25 the only atomic veterans according to your

1 federal regulation. That's what you say 50 to  
2 70 are atomic veterans. I have it right here.  
3 Also, I have said to many conventions and where  
4 there are representatives from Washington,  
5 attorneys or whatever, and I've told them. The  
6 last one was in San Diego. The man apologized  
7 to me 'cause I got up again and asked. I thank  
8 you for all the things you're doing for the  
9 veterans in the atomic out in the Pacific, but  
10 I says what about the veterans in the '40s and  
11 '45s in Los Alamos, what are you doing for  
12 them? He said sir, they're all dead. And I  
13 looked at him, put my hand here and I says do I  
14 look dead, sir? Well, he says no, you really  
15 don't. I said you have any idea how old I am?  
16 Oh, he says you're about 70. I said thank you,  
17 I'm 84. I'm 85 now.  
18 All my problems -- that's three fusions are all  
19 coming apart. I need a neurosurgeon to take  
20 care of it 'cause there's they're the only one  
21 can, and the chances are if they make one slip,  
22 I'll be paralyzed. I have a wrist that's been  
23 operated on three times; now it's got a plate  
24 in it. I have a right knee that's been  
25 replaced. My eyes went blind -- the last 19

1           years I've been legally blind. I can see a  
2           little bit now, but they don't know why. I was  
3           in Washington, D.C. and they tried to tell me -  
4           - I was trying to find out if they could take  
5           care of my surgery but they're booked up pretty  
6           tight. They said it'd take them another year  
7           or more. I'm having my teeth worked on.  
8           They've known for three years that I had to  
9           have these teeth done. I've already had them  
10          out once by outside. Oh, I'll mention also,  
11          all my operations have not been done in the VA  
12          hospital because I didn't trust them 'cause I  
13          didn't think they had the people so they were  
14          done outside, but the good graces of the VA  
15          give them the information and they approved it,  
16          so I am now -- all my surgeries are qualified  
17          as if it was done there.  
18          Now -- I've got so many things I could talk  
19          about. The other thing is the radiation  
20          (unintelligible) and I told you about the  
21          locomotive and that, so I have been trying to -  
22          - this information I have been able to tell you  
23          today is things that I got from people who were  
24          actually there. But I have never, never talked  
25          to a person that was in Los Alamos where I was.

1 Nobody. They've all been out in the Pacific,  
2 and they're always asking me when I go -- I'm  
3 the Area Commander of Washing-- of Oregon  
4 advisor, my title is, and I have a citation  
5 says TRINITY site advisor. My commander of  
6 Oregon will not talk to me. He did -- just  
7 ignores me 'cause he says you're not an atomic  
8 veteran. The only atomic veterans are those  
9 out in the Pacific. And I said Fred, and I  
10 told him at the meeting more than once, I said  
11 if it wasn't for us in Los Alamos making the  
12 atomic bomb, you wouldn't have been out there.  
13 This whole thing wouldn't be talking about now.  
14 What I'm talking about now is why the President  
15 at 2:01 at Arlington on Veterans' Day -- this  
16 is one thing I want to get across -- he gave  
17 his speech normally, and afterwards he praised  
18 the ten Purple Heart boys that was setting  
19 (sic) there, thanked them for their service,  
20 that they've been shot up and they're healed or  
21 they're fixed, they're able to get around,  
22 they're able to do a normal life -- as best as  
23 they can, some of them are having a hard time -  
24 - but he said I just discovered -- and these  
25 are the words -- I just discovered three months

1           ago that there are a group of veterans who have  
2           been (unintelligible) mistreated and neglected  
3           and abused, in badly need of medical attention,  
4           and that's the atomic veteran with radiation.  
5           We do not know what to do for it. We do not  
6           know what to do for it. You still remember  
7           that now.  
8           So I asked -- it was on TV in the afternoon.  
9           My citation was read at the Tomb of the Unknown  
10          Soldier by the Secretary of the Blind  
11          Association, which I'm also a life member of,  
12          and a director. But I had phone calls coming  
13          from him all over. Well, we seen you on TV,  
14          Clyde, today. I said I don't know how you  
15          could, I'm still here in Oregon. Well, it was  
16          just on an hour ago. I said I'm still here,  
17          ain't I? But anyway, I got writ up -- wroten  
18          (sic) up about that. I have copies of that.  
19          But the President has not followed through. He  
20          said that he was going to see that we got a  
21          purple heart. He didn't say me, he said all  
22          atomic veterans, and he was going to recommend  
23          to Congress that they do it. But I have never  
24          seen a word of it. I'm only one in my  
25          classification, so I can see where maybe I



1           could get it, and should. But if there's  
2           several hundred thousands out there and there's  
3           more that they don't even know about because  
4           they figure they've about one-tenth or one-  
5           fifteenth of the ones that are eligible to  
6           belong to the atomic group that were out in the  
7           Pacific, plus the ones that have already died.  
8           Now I'm 85 years old. This is -- I was in  
9           Tampa. A lot of you remember me. I give a  
10          nice speech down there. I kind of enlightened  
11          you on some of the things that I think you  
12          should be doing. But one thing I said there  
13          was I think you need to get rid of dose  
14          reconstruction because we out there at this  
15          time in the '40, '45, we didn't have any tests,  
16          we didn't have any armor, we didn't have any  
17          special clothes, we wasn't even told we was  
18          involved in anything as dangerous as that. And  
19          we had probably a lot of us with the fingers  
20          been took off because it was ridiculous. Yet  
21          you're wanting me -- I'm dead. To this day --  
22          I was in Walter Reed on the 6th of this -- of  
23          June, they told me I'm dead. I said yeah,  
24          because the federal regulation says that, but  
25          we realize now that you're still alive. We

1 wish that we could do more about it, but we  
2 can't 'cause we're too busy with the war.  
3 I have asked my advice nurse who I -- been at  
4 my side for nine years helping me through this.  
5 She said Clyde, I'll try to get you referred  
6 out to go down to Los Angeles where they are  
7 supposed to have one or two that specialize in  
8 nerve surgery. Not orthopedic, but in nerve,  
9 because the only one can do this, somebody that  
10 knows something about radiation, and they do.  
11 But you know what he wrote back and told me?  
12 He says you're working every day and you're  
13 driving. I haven't driven a car since '75. I  
14 haven't worked since '75. I haven't paid any  
15 taxes during that time. I haven't paid any  
16 taxes now because all I got is my Social  
17 Security and my VA disability. During 2000 I  
18 was lucky to get 60 percent. In fact, on my  
19 first one I had ten percent. I had ten percent  
20 on the second one. They finally raised it to  
21 20 percent, and then when I went blind they  
22 raised it to 30 percent. And then while I was  
23 in the hospital they raised it to 40, so when I  
24 got out it was 60 percent. The F -- the  
25 Federal Bureau -- Veterans Affairs called me

1 two weeks after I got home and asked me -- we  
2 have been reviewing your claim and your  
3 situation. It goes clear back to '75. I said  
4 that's right. Have you worked for anybody  
5 during that time? I says no. Well, who did  
6 you work for; we can get a hold of them. I  
7 says the company that I work with was a bunch  
8 of -- five of us, all World War II. They're  
9 all gone. We haven't had a company for over 20  
10 years. I'm the sole survivor.

11 I'll be off short enough.

12 **VICE ADMIRAL ZIMBLE:** No, no, I just wanted to  
13 remind you, Mr. Wyant, that with that service  
14 connection, you are eligible for care at any VA  
15 hospital.

16 **MR. WYANT:** Oh, I can get the care.

17 **VICE ADMIRAL ZIMBLE:** Yes.

18 **MR. WYANT:** But they can't give me the care  
19 that I need because there's nobody in that  
20 hospital that knows anything about radiation.  
21 I heard one buddy over here say well, they're  
22 doctors -- you got all these leukemias, 26 of  
23 them -- I mean cancers. That's a bunch of  
24 hooey, because I -- if I never was near  
25 radiation you could have every one of those

1           cancers without being involved. You can get it  
2           every day. Everybody could have it. Yet  
3           you're saying because we were atomic veterans,  
4           that is -- is the cause of our problem with  
5           those cancers. They finally come on with bone,  
6           so I'm saying I have bone, but nobody will say  
7           so. Nobody will acknowledge it. There is no  
8           doctors that I have been to in the VA that will  
9           say so, and yet you've got -- saying here on  
10          this Board your doctors out there can tell you  
11          whether you have or have not. You know very  
12          well they can't because you don't know, so how  
13          would they know.

14          And I think right now -- and I'm telling him  
15          'cause I'm a little tired and I'm 85 and I  
16          don't know longer I'm going to be around, but I  
17          hope I get my Purple Heart and I hope I get  
18          recognition and the money for my radiation  
19          problems. And I hope I get my surgeries -- for  
20          me. But in the meantime, if I get those, it'll  
21          help those other veterans out there who are  
22          trying -- die hard and he's trying to -- their  
23          claims are turned (unintelligible). I  
24          understood since Tampa there was 1,250 of the  
25          claims that were denied of 4,500, and they were

1           asked afterwards how many did they approve?  
2           None. Why? Dose reconstruction. So you see,  
3           that's what's -- I told you in Tampa, I'm going  
4           to tell you now, I told the federal officers  
5           that come to these conventions, I told them  
6           more than once what the problem is. R.J.  
7           Ritter and our commander (unintelligible) have  
8           wrote to you and told you the same thing and we  
9           said -- this is R.J.'s last words  
10          (unintelligible). He says we think we're  
11          deserving of a Purple Heart because we didn't  
12          get shot up or wounded, but mentally and  
13          physically it's worse than being shot because  
14          they are being healed and fixed up and are  
15          working and we are struggling. And I'm going  
16          to say again, I'm glad to be here. I'm glad to  
17          have the opportunity to talk to you again, and  
18          I'll probably be around. But what I would like  
19          to have done as a NAAV and R.J. has -- we have  
20          talked about and agree, we would like to see,  
21          going out to every state using me as the guinea  
22          pig for TV and advertising to find these atomic  
23          veterans that are out there in the Pacific  
24          because I know that's only me, but it would be  
25          a drawing card because everybody I talked to in

1           the last five years, what is atomic. And when  
2           I tell them he says well, how come we don't  
3           know anything about it? I said don't ask me,  
4           ask you. I'm going to ask you again today, why  
5           does not the American people know what atomic  
6           is about and what the problem is and why you  
7           can't do something for us? And you've already  
8           admitted today that you're not doing that.  
9           I'm going to tell you right now, get rid of  
10          dose construction, get some money in the deal,  
11          go out and campaign to get on the national TV  
12          talk shows, whatever, in every state. Take me  
13          and a few others, get the other veterans in  
14          that area to be -- join the committee and have  
15          a public forum and tell the people in that  
16          state what it is all about so that when we come  
17          up on the radio or in the newspaper they'll  
18          know what we're talking about. These people  
19          don't know a damned thing what we're talking  
20          about. I'm sorry to say that, but I hope  
21          before I die -- and I've already told my doctor  
22          I'm going to live another 15, so you know where  
23          that puts me -- but I want to see that job  
24          done, that we go out throughout the United  
25          States, Puerto Rico, Hawaii -- my good buddy

1 over in Hawaii is -- breaking his heart -- and  
2 get this message out to the people of the  
3 United States, telling them what went on in  
4 World War II and we have this group of veterans  
5 that we are not doing one thing for because we  
6 do not know what to do for them. And all you  
7 people with all these scientific deals, schools  
8 and all that, that's great. But what are you  
9 doing to solve the problem that I have when you  
10 don't know what it is? And as I told you in  
11 Tampa, you need to go and talk to the veterans  
12 -- different organizations, the blind, purple  
13 heart, all of them and -- besides the radiation  
14 of -- NAAV, which we have a pretty good record,  
15 and we've only got a small percentage that we  
16 know that are out there, and we'd like to get  
17 those in.

18 **VICE ADMIRAL ZIMBLE:** Mr. Wyant, I would --

19 **MR. WYANT:** Yes --

20 **VICE ADMIRAL ZIMBLE:** -- tell you --

21 **MR. WYANT:** -- yes, you want to cut me off.

22 **VICE ADMIRAL ZIMBLE:** -- thank you. Clyde --

23 **MR. WYANT:** Yes.

24 **VICE ADMIRAL ZIMBLE:** -- all your remarks have  
25 been recorded verbatim and we'll make sure that

1           it's part of the record --

2           **MR. WYANT:**   Okay, and --

3           **VICE ADMIRAL ZIMBLE:**  -- and we'll consider  
4           your comments.

5           **MR. WYANT:**  -- as I said before, I got a copy  
6           of the ones we had in Tampa a month ago.  I'd  
7           like to have a copy of this one.  And since I'm  
8           blind, I do not have a computer.  I do not have  
9           e-mail and I need the hard copies and so my  
10          nephew is my --

11          **VICE ADMIRAL ZIMBLE:**  We'll make sure you get a  
12          hard copy.

13          **MR. WYANT:**  -- called that number, he's -- it's  
14          in Florida, but we haven't got it yet, and I'm  
15          looking forward to that.  I've read every inch  
16          of NAAV for your information.  If it's in hard  
17          copy, I'm getting a unit -- it's like a  
18          printer, you put the printed copy in, turn it  
19          on and turn the knob and it reads it.

20          **VICE ADMIRAL ZIMBLE:**  Okay.

21          **MR. WYANT:**  You can back it up, run it forward,  
22          I can read it any time and then I can file  
23          them, and I'm trying to get e-mail that talks.

24          **VICE ADMIRAL ZIMBLE:**  Okay.

25          **MR. WYANT:**  Now it's out there, but nobody's



1           trying to help me to get it. I got to have a  
2           computer they say. There's no use to have a  
3           computer when I can't use it, but it does have  
4           a phone. But when I talk to the people that  
5           have it, and it's in their advertising that  
6           they have the phone, then they say well, we  
7           don't.

8           **VICE ADMIRAL ZIMBLE:** Well --

9           **MR. WYANT:** But I know --

10          **VICE ADMIRAL ZIMBLE:** -- we'll send you --

11          **MR. WYANT:** -- (unintelligible) that there is  
12          e-mail that talks. They're in veterans office,  
13          they're in banks, they're in businesses and  
14          everywhere else. The VA has it. Why can't I  
15          not find out where they are? In Portland I had  
16          to buy my own electric wheels to get to the  
17          point in the Post Office, which is over two  
18          miles away; I can't walk it. I paid for that,  
19          and now I'm paying for this machine, another  
20          \$2,500. The other one cost me \$3,400. I've  
21          had to pay for everything I've got. The only  
22          thing I got free was when I was in the blind  
23          school in Tacoma, I did get an \$8,000 CCTV and  
24          a lamp that cost \$500, a adding machine or  
25          talking this and talking -- I come home --

1           around \$10,000. That's the most I ever got but  
2           I got that for going to school.

3           **VICE ADMIRAL ZIMBLE:** Okay.

4           **MR. WYANT:** But I haven't got anything since.  
5           I paid my way here. I paid everything here.  
6           I'm not being paid, and I want you to also know  
7           that there is not one officer in NAAV that  
8           draws a salary or is paid. It's all volunteer.

9           **VICE ADMIRAL ZIMBLE:** Right, we have a  
10          volunteer member on the Board.

11          **MR. WYANT:** Yes, R.J. is here.

12          **VICE ADMIRAL ZIMBLE:** Okay.

13          **MR. WYANT:** And he's backing me. Thank you.

14          **VICE ADMIRAL ZIMBLE:** Thank you.

15          **MR. WYANT:** And if anybody wants to talk to me  
16          -- oh, I'll tell you another thing. I'm on a  
17          program of ten years that started in Milwaukee  
18          High School talking on Veterans' Day to -- to  
19          people and students, and I been doing it for  
20          ten years and I'm in --

21          **VICE ADMIRAL ZIMBLE:** Okay.

22          **MR. WYANT:** -- five schools now --

23          **VICE ADMIRAL ZIMBLE:** Okay, thank --

24          **MR. WYANT:** -- in Oregon.

25          **VICE ADMIRAL ZIMBLE:** -- thank you, Mr. Wyant.

1 We need to hear from some of the other folks.

2 Okay?

3 Mr. Welch.

4 **MR. WELCH:** Good afternoon. My name is Dale G.  
5 Welch. I live in Tucson, Arizona and I'm  
6 grateful for the opportunity I have to speak to  
7 the Board this day. I am an atomic veteran. I  
8 served in the United States Navy from 1952 to  
9 1956 aboard a Navy destroyer, and I was exposed  
10 to low ionized radiation in Operation WIGWAM,  
11 which was a underwater detonation that took  
12 place off the coast of San Diego in -- on 14th  
13 of May, 1955.

14 I was exposed during this -- our -- our ship's  
15 responsibility was observation and plane guard  
16 detail and we were approximately seven miles  
17 from the detonation point. And we received a  
18 lot of radiation from deep water, surface water  
19 and aerial particles during that test. I never  
20 had a dosimetry badge. I didn't have any  
21 protective goggles, as neither did any of the  
22 shipmates I was in the close proximity to, or  
23 protective clothing during this test.

24 After I got out of the service, about 20 years  
25 later I began experiencing serious stomach

1           problems. And I went -- on one occasion I went  
2           into the hospital with severe internal  
3           bleeding. They repaired my stomach and ulcers,  
4           bleeding ulcers at that time. That was in  
5           1979. In 1982 I went back in again in an  
6           emergency situation with the same problems, and  
7           I had a partial -- almost total removal of my  
8           stomach and upper duodenal intestine at that  
9           time.

10          A short time after that I went to the -- and  
11          filed a claim at the Veterans Administration,  
12          and that claim was denied. And a little while  
13          later I happened to be taking a trip to the  
14          midwest and I had been in contact with some of  
15          my shipmates that was present at that test we  
16          were involved in, and in contact with them I  
17          found out I was only contacting widows because  
18          two of the individuals I tried to contact in  
19          the Chicago/Waterloo, Iowa area who were right  
20          next to me in the tests and in the same  
21          situation had died from cancer of the stomach  
22          within three weeks of each other in 1986.

23          Later I was in contact with three of my other  
24          shipmates -- I'm sorry, two of my other  
25          shipmates -- no, it was three, I'm sorry -- and

1 out of those three, the other one just passed  
2 away in June from cancer of the esophagus. I  
3 have experienced continual stomach problems  
4 since that time, along with some other health  
5 issues that I won't go into at this time.  
6 But after I filed my claim and it was denied, I  
7 began to think can this be a coincidence, me  
8 with my serious stomach problems which I've had  
9 and still have to this day, with the death of  
10 several of my other shipmates who had similar  
11 or identical problems that I had. And to my  
12 knowledge, two of those individuals filed  
13 claims with the VA and they were denied. They  
14 -- one of the sisters of the -- one of the  
15 individuals informed me that his -- that his  
16 widow had finally received some compensation  
17 from the DA -- VA in -- which was dependents'  
18 indemnity compensation. And to my knowledge,  
19 that's the only one that ever received any  
20 acknowledgment or compensation for their  
21 exposure to low ionized radiation.  
22 I'd just like to say at this time that I know,  
23 and I'm sure most of all of us know, that there  
24 are very -- a great deal of veterans -- atomic  
25 veterans still out there who are suffering, but

1           have not approached the VA or made any effort  
2           at all to approach the VA, and some of -- we  
3           have a great deal of veterans now that are not  
4           alive today. And I think in the next five to  
5           ten years that number's going to increase  
6           significantly.

7           I'd just like to say in a couple -- make  
8           another -- couple other comments. I went to  
9           the VA facility in Tucson, Arizona and I  
10          requested an Ionized Radiation Registry exam,  
11          which I received in the middle of 2000, I  
12          believe it was. I may be wrong on that date,  
13          but I believe it's 2000 or 2001. They were  
14          very compliant in giving me the exam, but I was  
15          quite upset at the conclusion of the exam when  
16          the doctor called me back in his -- in the  
17          office and in her opinion, she re-- she told me  
18          in no few words that according to her that none  
19          of my problems or medical issues were conducive  
20          to exposure to low ionized radiation. Upon  
21          hearing this comment, I took this back to my  
22          state area commander, who happened to be Mr.  
23          Contreras here with the National Association of  
24          Atomic Veterans at that time, and he took issue  
25          with them. And after discussing this with the

1 doctor, it was decided that her responsibility  
2 was only to do the examination and not render  
3 opinions.

4 And on the conclusion of that, then we got a  
5 letter back from her stating that she did  
6 indeed give me the examination and -- and she  
7 didn't relate anything more and just thanked me  
8 about registering and taking the exam.

9 I thank the Board once again for their time. I  
10 just wanted to express my opinions at this time  
11 and my own experiences in relation to my other  
12 shipmates that are now gone and can't speak for  
13 themselves.

14 **VICE ADMIRAL ZIMBLE:** Okay --

15 **MR. WELCH:** And I might mention you'll need to  
16 really speak up, I'm pretty --

17 **VICE ADMIRAL ZIMBLE:** Okay.

18 **MR. WELCH:** -- hearing impaired.

19 **VICE ADMIRAL ZIMBLE:** Okay, Mr. Welch. Your --  
20 none of your diagnoses are related to cancer,  
21 are they?

22 **MR. WELCH:** No, and --

23 **VICE ADMIRAL ZIMBLE:** No.

24 **MR. WELCH:** -- my own opinion on this is that  
25 had I not went in and had my stomach problems

1 taken care of at the time, by four years later  
2 when these other shipmates of mine expired with  
3 cancer of the stomach, it's a good possibility  
4 that that could have been my fate, too. But  
5 no, I was not diagnosed with cancer of the  
6 stomach.

7 **VICE ADMIRAL ZIMBLE:** Any comments or questions  
8 from the Board?

9 (No responses)

10 All right, thank you very much, Mr. Welch.

11 **MR. WELCH:** Thank you.

12 **VICE ADMIRAL ZIMBLE:** And now we'd like to hear  
13 from Mr. Conrad.

14 **MR. CONRAD:** My name is John Conrad. Mr.  
15 Chairman, if I can ask three questions to the  
16 panel, it gives a different perspective on dose  
17 reconstruction that I heard this morning.  
18 One, have there ever -- ever you -- ever -- any  
19 one of you witnessed an atomic explosion? Have  
20 you ever witnessed a -- shoot -- a H-bomb  
21 explosion? Have you ever went in your  
22 operations area and your sleeping area and the  
23 mess hall area with a Geiger counter?

24 **COLONEL TAYLOR:** With a film badge, yes.

25 **MR. CONRAD:** Well, not with a film badge, with



1 a Geiger counter. I was in Operation REDWING.  
2 I served five months on Enewetak and Bikini  
3 islands -- Atoll. As the sergeant and I went  
4 around with a Geiger counter and we laughed at  
5 how the Geiger counter would go off the scale,  
6 and there was a lot of background radiation,  
7 but at several points it went off the scale.  
8 So we -- we were ignorant about that radiation  
9 and nobody told us anything about it. We all  
10 wore film badges, but that's not my -- not my  
11 question.

12 I started a claim --

13 **COLONEL TAYLOR:** (Off microphone)

14 (Unintelligible) can I ask a question?

15 **MR. CONRAD:** Yes.

16 **COLONEL TAYLOR:** Before you go any further --

17 **MR. CONRAD:** Yes.

18 **COLONEL TAYLOR:** -- you said you monitored with  
19 a Geiger counter. Are you telling us that your  
20 Geiger counter showed something different from  
21 your film badge?

22 **MR. CONRAD:** Pardon me? I don't -- I don't  
23 hear very well.

24 **COLONEL TAYLOR:** You said you monitored with a  
25 Geiger counter certain areas -- mess halls,

1 sleeping areas, places like that. You said you  
2 laughed when the Geiger counter went off. Did  
3 the Geiger counter indicate the same thing that  
4 your film badge indicated?

5 **MR. CONRAD:** No, we never got the results of  
6 the film badge.

7 **COLONEL TAYLOR:** So you only got -- you only  
8 had the film badge, but you had no results from  
9 its monitoring.

10 **MR. CONRAD:** No results from it, and the Geiger  
11 counter showed a lot of background radiation,  
12 but every once in a while it would go off the  
13 deep end or -- so to speak.

14 **COLONEL TAYLOR:** Do you remember what kind of  
15 readings you were getting?

16 **MR. CONRAD:** It was off the scale.

17 **COLONEL TAYLOR:** Okay. Thank you.

18 **MR. CONRAD:** Okay. I started my claim with VA  
19 three or four years ago, and I haven't been  
20 notified as to the status of my claim. It was  
21 last sent to the DTRA and it -- I have manage -  
22 - many pages of forms that were filled out and  
23 they asked for the same information over and  
24 over and over, the VA and the DTRA. I -- I  
25 compiled a book about this thick, it was like

1 150 pages. Thank you.

2 **VICE ADMIRAL ZIMBLE:** You filed a claim for  
3 what condition?

4 **MR. CONRAD:** Sub -- subcaveolar (sic)  
5 cataracts.

6 **VICE ADMIRAL ZIMBLE:** Sub -- subcapsular  
7 cataracts.

8 **MR. CONRAD:** Uh-huh, and my -- I went to the  
9 ophthalmologist at the urge -- age 37 and had  
10 cited -- had started cataracts, and it's very  
11 unusual, so...

12 **VICE ADMIRAL ZIMBLE:** Any questions or  
13 comments?

14 **DR. SWENSON:** Sir, I had a question. You  
15 mentioned that you gave the same amount of in--  
16 the same information to both DTRA and VA. Was  
17 that -- what specifically, medical or -- can  
18 you comment on that?

19 **MR. CONRAD:** There -- there are forms that you  
20 fill out and send in. The VA service office --  
21 DAV service officer filled those out and they  
22 sent the forms back to be filled out again, and  
23 to be filled out again, and to be filled out  
24 again.

25 **DR. SWENSON:** Were they specific to your

1 exposure? Is that what the ques-- the forms  
2 were?

3 **MR. CONRAD:** Pardon me?

4 **DR. SWENSON:** Were they specific to your  
5 radiation exposure, asking questions about  
6 that, or are they medical?

7 **MR. CONRAD:** Well, it was both, the radiation  
8 exposure and the time I served at Enewetak and  
9 Bikini, and I don't know...

10 **COLONEL TAYLOR:** Admiral Zimble, I have three  
11 questions. What -- your name is John Conrad.  
12 What is your date of birth, sir?

13 **MR. CONRAD:** 9/18/33.

14 **COLONEL TAYLOR:** What are your Army serial  
15 number -- your military serial number and your  
16 Social Security number?

17 **MR. CONRAD:** US56--

18 **DR. SWENSON:** No, no, no -- not for public  
19 comment.

20 **COLONEL TAYLOR:** Okay, we can't get that in  
21 public comment. I'd like to get it from you  
22 'cause I'd like to follow up.

23 **MR. CONRAD:** Okay.

24 **VICE ADMIRAL ZIMBLE:** Thank you very much, Mr.  
25 Conrad.

1                   Okay, Mr. Pont-- Mr. Pontilla, is it? Wait...

2                   **MR. PONTILLAS:** (Off microphone) Pontillas.

3                   **VICE ADMIRAL ZIMBLE:** Pontillas? Thank you.

4                   **MR. PONTILLAS:** Good afternoon, Board. I'm the  
5                   proud son of a atomic veteran, and I kind of  
6                   seen the process that he goes through in trying  
7                   to get the treatments. I only came here really  
8                   to -- to be the driver here. And as I'm  
9                   understanding more, I was trying to -- you  
10                  know, as he would tell me about a lot of the  
11                  atomic things had gone on and the elements that  
12                  the veterans are -- have encountered, you know,  
13                  as a son, you know, you kind of try and ignore  
14                  all that. You think aw, that can't be true;  
15                  that's all movie stuff.

16                  But now I've seen -- I'm seeing this real  
17                  first-hand. I'm really glad there's a Board  
18                  that's addressing all the issues. You've got a  
19                  lot of good experience and brain power. And  
20                  moving forward I think you guys are the right  
21                  people to make sure things like this get taken  
22                  care of and the support for these veterans.

23                  But you know, I want to speak as a dependent --  
24                  well, I'm 40 years old, but from my observation  
25                  there's some things that I'm hoping aren't new

1 to you and some issues that you guys are  
2 looking to address in the future. There's  
3 numbers. There's over-emphasis on numbers. I  
4 used to be a numbers guy, but I believe there's  
5 exceptions that also have to be taken a look at  
6 in more detail. You can't -- you have to have  
7 an exception-handling process to handle the  
8 specific cases of the veterans. Maybe it's not  
9 cancer-related. From what I understand, this  
10 is more focused on cancer, but there's some  
11 other elements and some other debilitating  
12 issues that may have been caused by what -- you  
13 know, their -- their experience during their  
14 service. There could be some more sensitivity,  
15 more extreme sensitivity on the part of people,  
16 you know, versus taking a look at the big  
17 population. You know, we need to make sure  
18 that's encountered. So from what I understand  
19 here, we're looking at -- we're looking at it.  
20 You still have to drill down, come up with a  
21 sort of exception-handling process to start  
22 dealing with the different issues that are non-  
23 cancer-related.

24 And also as I see -- you know, I don't want to  
25 reiterate, but -- too much, but a lot of the

1 veterans from the '40s through the '70s, a lot  
2 of them are aging, and -- and it's kind of like  
3 the timeliness of this. I don't know what the  
4 priority is and how quickly we -- that your  
5 Board is to implement some new changes to the  
6 compensation, to the evaluation process and  
7 just to bring closure to it. I don't know what  
8 the time frame is, but -- but it's clear that  
9 this time frame is -- you know, it's -- it's  
10 almost the eleventh hour for some folks.

11 Enough about that.

12 I have issues about the complete list of  
13 diseases, wanted to understand how that list  
14 was actually composed. I think, again, there  
15 are some other diseases that I have seen with  
16 other veterans and dependents which --  
17 including myself, which cannot be diagnosed by  
18 medical academia and the civilian medical  
19 population. And somehow I think -- you know,  
20 after ignoring this for my 40 years, now I'm  
21 thinking well, who knows, maybe this is where -  
22 - where it should lie, maybe this is where the  
23 evaluation should occur.

24 And then lastly was a -- getting back to  
25 dependents is what -- I wanted to understand,

1           and maybe you guys are thinking about this, was  
2           what is the -- what is happening around -- the  
3           research around maybe some genetic  
4           transference, you know, to -- to offspring? Is  
5           -- is any of that being looked at or are we  
6           still early in the stage and trying to  
7           understand the full scope of the issues?  
8           That's all I have for now, but I do thank you.  
9           I mean you've really enlightened some of the  
10          things that I've been trying to ignore for  
11          quite some time, and looks like it's the right  
12          team to make it happen. Thank you.

13         **VICE ADMIRAL ZIMBLE:** Before you -- before you  
14          leave, is there any -- any specifics regarding  
15          your father that you want to bring to the -- to  
16          the Board? If you don't want to do it  
17          publicly, we understand.

18         **MR. PONTILLAS:** No, he's actually going to --  
19          he's going to come up here also.

20         **VICE ADMIRAL ZIMBLE:** Oh, all right. Okay.

21         **MR. PONTILLAS:** He didn't know I was going to  
22          get up here and --

23         **VICE ADMIRAL ZIMBLE:** Okay.

24         **MR. PONTILLAS:** They wanted us to both come up  
25          here but I didn't want to influence what he was



1 going to say.

2 **VICE ADMIRAL ZIMBLE:** Okay, very good. Thank  
3 you very much for your remarks.

4 Mr. (sic) Kocher.

5 **DR. KOCHER:** If it please the Board, I would --  
6 I would like to make a few comments tomorrow  
7 afternoon. I see you're returning to  
8 discussions of probability of causation. If I  
9 could have a few minutes at that time, that  
10 would please me.

11 **VICE ADMIRAL ZIMBLE:** Okay.

12 **DR. KOCHER:** Thanks.

13 **VICE ADMIRAL ZIMBLE:** We'd be happy to do it.  
14 Mr. -- is it Cordoan? Did I pronounce that  
15 right?

16 **MR. CORDOVA:** Very close to it.

17 **VICE ADMIRAL ZIMBLE:** Okay.

18 **MR. CORDOVA:** Cordova.

19 **VICE ADMIRAL ZIMBLE:** Cordova, okay.

20 **COLONEL TAYLOR:** Spell it for us.

21 **MR. CORDOVA:** C-o-r-d-o-v-a, Sam. Did you get  
22 it?

23 **COLONEL TAYLOR:** Got it.

24 **MR. CORDOVA:** Thank you very much for the  
25 opportunity to be here with you. I thank you

1 for visiting sunny California. Not very sunny  
2 in the last week or so, but thank you for being  
3 here and listening to the veterans and  
4 dependents.

5 I was in the Marine Corps in 1951 to 1954. I  
6 spent 13 weeks in Korea. Prior to going to  
7 Korea I was in a secret unit called the Atomic,  
8 Biological and Chemical Warfare Unit. I was 19  
9 years old and I spent eight weeks in a place  
10 that I think was Camp Pendleton. But we were  
11 driven for three or four hours at night,  
12 finally landed at the place, and I think it was  
13 still Camp Pendleton.

14 Now I have been told that there was no such  
15 unit in the Marine Corps, that the Marine Corps  
16 has never had an Atomic, Biological and  
17 Chemical Warfare Unit. Just by coincidence and  
18 a mistake that they made, when I got my  
19 honorable discharge they put down there that I  
20 had been to an atomic, biological and chemical  
21 warfare school. I still have it. I have never  
22 done anything about it 'cause it was highly  
23 secret.

24 Just about six, seven years ago I go in to the  
25 VA. I'm a 70 percent service-connected --

1           combat-related service-connected disability  
2           veteran. I nearly lost my legs in Korea in  
3           combat. But I went in there for an examination  
4           to my lungs 'cause for 40-some years I haven't  
5           been able to breathe properly. I started  
6           having problems just a few weeks after I was at  
7           that ABC school. And I still remember the  
8           burning sensations that we used to go through  
9           for the exa-- for the -- for the exams that we  
10          took. I was 19 years old. I could hold my  
11          breath through most of the obstacle courses and  
12          I could see the fumes, I could see things  
13          dropping. But then other Marines that were  
14          older than I, heavier, couldn't make it through  
15          the obstacle course. I could hold my breath.  
16          But this one time I couldn't. I would -- I  
17          would -- I was running. Finally I was out of  
18          breath and I had to take a deep breath and I  
19          could feel my lungs burning, and I could smell  
20          fresh-mowed hay. To this very day I smell it.  
21          Yet the Marine Corps says they never had a unit  
22          such as that. Isn't it strange? Isn't it  
23          strange?  
24          Some years ago I go in there to examine my  
25          lungs and the medical assistant says you're --

1 the smoking that you've done damaged your lungs  
2 tremendously. And I says I didn't -- I haven't  
3 smoked since I was in Korea, and I just smoked  
4 a few cigarettes. I've never smoked. She says  
5 well, in that case, you've been exposed to some  
6 severely -- severely affecting chemicals. No,  
7 I says. I says the only chemicals were in the  
8 Marine Corps. And I didn't -- I didn't tell  
9 her 'cause I was still under secret orders.  
10 You couldn't -- you just couldn't do it.  
11 But later on, I keep thinking. The more I  
12 think, I says, you know, I was in that. So I  
13 go to my separation papers. I says, you know,  
14 maybe I just dreamed it. But sure enough,  
15 there it is, ABC school. Yet they say it  
16 doesn't exist.  
17 Maybe you. Maybe you can find out the details.  
18 Now for years I queried other Marines. They  
19 never heard of it. Finally I found one. He  
20 says yes, I was at ABC school in Hawaii. Then  
21 I met somebody else that was in ABC school  
22 someplace else. So it can't be that I am being  
23 delusional. They had that unit -- that type of  
24 unit 'cause there's at least three of us in the  
25 Marine Corps, in separate areas, that went

1 through the Atomic, Biological and Chemical  
2 Warfare Unit.

3 While I was in Korea I was flying a forward  
4 observer mission. And as I alighted from this  
5 tail-dragger Piper Cub, I saw this man also  
6 alight from this plane. He was one of my  
7 instructors here. On SOB\*, but he was my  
8 instructor here. I rushed up there 'cause I  
9 was so happy to see him and he says you don't  
10 know me. He also recognized me. You don't  
11 know me. You don't -- you haven't seen me.  
12 Okay, I haven't seen you.

13 So I go back to my unit and I told Captain  
14 Edmund Valdez, he was my S-3 battalion officer,  
15 I says Cap, I says you know, what are we doing  
16 here? What are we dropping? 'Cause we were  
17 firing 155 howitzer 90-pounders. I says are we  
18 dropping honey on the gooks? That's what we  
19 used to call the enemy. He says if you mention  
20 that one more time to anyone, I'm going to send  
21 you to the front lines and you're never coming  
22 back.

23 Being the smart young boy that my mother  
24 raised, I never mentioned it again.

25 The point is, some of us were exposed to

1 something in the Marine Corps. I think -- I  
2 would hope that you would help us.  
3 Now here's another problem. I went for an  
4 ionization test at my VA in Sepulveda. A young  
5 lady, very nice, says you don't qualify for the  
6 test 'cause you're not in the right  
7 classification. And that's where we stand now.  
8 Maybe you can change that. In other words, I  
9 was not in any atomic test, hydrogen test,  
10 nothing. But I know I was exposed to atomic,  
11 biological and chemical warfare elements.  
12 Thank you very much.

13 **VICE ADMIRAL ZIMBLE:** Thank you, Mr. Cordova.  
14 You need to understand that we're -- we're  
15 basically chartered to look at ionizing  
16 radiation specifically, and you don't have any  
17 -- any recollection of exposure to ionizing  
18 radiation, which would -- which basically would  
19 require a detonation or working with  
20 radioactive materials.

21 **MR. CORDOVA:** Well, of course, we don't know.

22 **VICE ADMIRAL ZIMBLE:** Okay.

23 **MR. CORDOVA:** In other words, we didn't -- we  
24 weren't told what we were being exposed to --

25 **VICE ADMIRAL ZIMBLE:** Okay.

1           **MR. CORDOVA:** -- at all.

2           **VICE ADMIRAL ZIMBLE:** Okay. And you had the  
3 exam for -- oh, you didn't qualify for the  
4 exam.

5           **MR. CORDOVA:** No, I didn't qualify.

6           **VICE ADMIRAL ZIMBLE:** What was the --

7           **MR. CORDOVA:** And I haven't followed -- pardon?

8           **VICE ADMIRAL ZIMBLE:** What was the -- what --  
9 what condition gave you the 70-percent service-  
10 connected --

11          **MR. CORDOVA:** A cold-weather injury in Korea.

12          **VICE ADMIRAL ZIMBLE:** All right. Okay.

13          **MR. CORDOVA:** Both legs.

14          **VICE ADMIRAL ZIMBLE:** Colonel?

15          **COLONEL TAYLOR:** I hate -- I hate to keep  
16 bringing this subject up, but if I may call you  
17 Sam --

18          **MR. CORDOVA:** Yes, sir.

19          **COLONEL TAYLOR:** -- I also attended a Marine  
20 Corps ABC school.

21          **MR. CORDOVA:** There it is.

22          **COLONEL TAYLOR:** By circumstance, I was an  
23 amphibious tank and tractor commander in Japan  
24 assigned to the 3rd Marine Division which  
25 deployed without one and I spent several years

1 attached to them. I was sent to an ABC school  
2 in Camp Gifu, Japan in I believe 1954, and I  
3 think I have in my service records a copy of my  
4 diploma from that school. I can tell you some  
5 of the details that we were exposed, as you  
6 said, that the Marine Corps used as ABC is  
7 similar to the Army using CBR, chemical,  
8 biological, radiation. I've been through those  
9 school. But the Marine Corps ABC school is  
10 very, very similar to it. And if you remember,  
11 one of the exercises often used is to expose  
12 you to one of those elements, take your gas  
13 mask off, make you state your serial number and  
14 home town --

15 **MR. CORDOVA:** Yes, sir.

16 **COLONEL TAYLOR:** -- and then leave.

17 **MR. CORDOVA:** That's a --

18 **COLONEL TAYLOR:** Now those kind of things  
19 happened. Now what relationship that has to  
20 ionizing radiation I'm not sure.

21 **MR. CORDOVA:** Uh-huh.

22 **COLONEL TAYLOR:** But Sam, I may can help you  
23 verify the fact that yes, you've now told me  
24 there was one you think at Camp Pendleton, one  
25 in Hawaii, one somewhere else, and I know there



1 was one in Gifu, Japan. So we've gotten some  
2 further and thank you very much.

3 **MR. CORDOVA:** Thank you, Colonel. Thank you  
4 very much.

5 **VICE ADMIRAL ZIMBLE:** Thank you for your  
6 testimony.

7 **MR. CORDOVA:** Yes, sir.

8 **VICE ADMIRAL ZIMBLE:** And now Mr. Hampton.

9 **MR. HAMPTON:** My name is Robert Hampton, H-a-m-  
10 p-t-o-n. I was at the Operation DESERT ROCK in  
11 Nevada Test Site, Operation TUMBLER SNAPPER,  
12 "Charlie" Shot. Bomb size was 33.1 kiloton, as  
13 I've read, which was about two and a half,  
14 almost three times larger than the one at  
15 Hiroshima. My group were participants, not  
16 down-winders, in the above-mentioned test shot.  
17 And we were within the concussion or the  
18 explosion. At the time we were told we were  
19 within 1.8 to 2.3 miles from zero point. A  
20 fire ring and the mushroom was directly  
21 overhead as it went off. Two seconds later I  
22 looked up and the fireball was above us,  
23 directly above us.  
24 We were not in trenches, but extremely shallow  
25 furrows, no more than four -- four to six

1 inches deep and 24 to 30 inches wide. We were  
2 told to lay face down with hands over eyes and  
3 to squinch our eyes. The light was so bright,  
4 even with eyes firmly closed and covered with  
5 our hands, the hand bones were visible, as if  
6 viewing an X-ray. That was through hands,  
7 gloves, the whole bit, face down on the ground.  
8 The concussion immediately left us breathing  
9 contaminated dust and debris. We were not  
10 issued any type of safety equipment; i.e.,  
11 respirators, ear mufflers, et cetera. Within  
12 15 minutes we were ordered to march single file  
13 directly to zero point, then board truck and  
14 return to camp. The entire march was engulfed  
15 in contaminated dust. We marched by sheep --  
16 some in trenches, some partially trenched --  
17 that had their wool charred with exposed,  
18 bleeding flesh. Some were dead and others were  
19 just bleating, crying.

20 I know if -- I know of no one where radiation  
21 exposure -- I know no one checked for radiation  
22 exposure before being loaded onto the trucks.  
23 When an atomic bomb is detonated, the plutonium  
24 is vaporized, floating in air, and is ingested  
25 by those without proper breathing equipment.

1           The plutonium imbeds into the bones,  
2           manifesting itself 30 to 50 years later with  
3           the decaying toxic alpha particles being  
4           released, killing and mutating blood cells.  
5           Those are exact words as published by tests or  
6           research done by National -- or Los Alamos  
7           National Laboratories in Albuquerque and by a  
8           lady that was published -- or by a group headed  
9           by a lady that was done by the Mayo Clinic in  
10          Rochester, Minnesota. And those -- those tests  
11          and findings were all published on the  
12          internet, but it's also in a book.  
13          This -- this causes many types of diseases such  
14          as cancers, tumors, mutated organs, arthritis,  
15          extreme vascular and body inflammation. The  
16          inflammation can severely damage the brain and  
17          kidneys, et cetera, which in turn causes many  
18          other types of problems, problems such as --  
19          causes the kidneys to go bad. The inflammation  
20          can cause the kidneys to go bad, can damage the  
21          brain, many other different things. It also  
22          causes many intestinal disorders, circulation  
23          and pulmonary problems.  
24          I have been told by -- told that doctors within  
25          the Department of Veteran Affairs, southern

1 California, has no expertise in diagnostic and  
2 treatment of exposure to ionizing radiation. I  
3 have a list, and I have given this to Colonel  
4 Taylor, I believe, and I will -- there's  
5 another copy that I gave to the front desk that  
6 I'm sure that someone there has. I will read  
7 that, if I may, some of those off.

8 These are my problems: A thyroidectomy, which  
9 was done -- I'm not going to read all the stuff  
10 that goes with it. I've had a thyroidectomy,  
11 anxiety and/or depression, inflammation and  
12 blood problems, renal kidney disease,  
13 arthritis, hypertension, indigestion and severe  
14 stomach acid, pulmonary inflammation and  
15 scarring, loss of hearing, bone soreness, brain  
16 damage, posterior subcapsular cataracts,  
17 fatigue and lethargy, asthmatic condition,  
18 prostate problems. Most of all of those have  
19 been diagnosed by the VA itself, some of them  
20 just recently.

21 It was approximately four years ago when I  
22 first went to the VA and through the -- and in  
23 going for the IR registry, the Ionizing  
24 Radiation Registry, I was -- I was told  
25 immediately, you know, what to do, appointment

1 with the doctor and what have you. I went to  
2 this doctor -- again, was within probably a  
3 week of first going to the VA -- and on  
4 entering her office, the first thing that she  
5 said was you have no problems. And I says what  
6 do you mean I have no problems? She says well,  
7 everything's fine. And I said well, what --  
8 what is fine? You've done no testing. She  
9 said well, I can tell, everything is fine. I  
10 said well, how about my thyroid? And she says  
11 oh, that's okay, don't worry about it --  
12 without feeling it, without knowing or  
13 anything. The thyroid was enlarged. It was --  
14 had my -- my trachea more than 60 percent  
15 collapsed, which I did nothing except write a  
16 letter on it, and from that letter on I've  
17 written many letters and it's gone to the  
18 various sections of the VA, but -- but -- which  
19 I have also been classified as a problem  
20 patient, and that -- by that, I get little to  
21 no -- nothing anymore from the VA, and that's  
22 fact.

23 I go to private doctors. Within a year of  
24 going to the VA I did get 100 percent service-  
25 connected, and which was -- the monies I was

1 getting, most of it was going to private  
2 doctors. Then about a year and a half ago it  
3 was cut to ten percent. Under protest, they --  
4 they boosted it back up to 40 percent. I  
5 protested again and had the formal meeting with  
6 it and there has never been anything come back  
7 since then, except that they did -- yes, there  
8 was. There was one letter that come back and  
9 said that also an additional ten percent was --  
10 was allowed for -- for some loss of hearing or  
11 tinnitus in the ear. I have --

12 **VICE ADMIRAL ZIMBLE:** Excuse me, you have a 50  
13 percent service connection now?

14 **MR. HAMPTON:** Now -- actually I'm being paid as  
15 40 percent, but they've got it being listed as  
16 50 percent, being paid 40 percent. So -- so  
17 because of the cutting, I had applied for --  
18 fee basis, it's called, to where some monies  
19 could be collected for private doctors. Not  
20 only was I refused the monies, I was refused  
21 the privilege of filling out papers to -- to  
22 request the -- the fee basis monies. And  
23 that's -- that's true, and the last time was  
24 probably no more than three months ago.  
25 Consequently, everyth-- all my private doctors

1           -- I go to about four private doctors for  
2           various things. That comes -- well, from the  
3           Medicare and out of my pocket. The -- and I've  
4           -- the last that I talked to anyone at the VA  
5           Benefits was that they would do no more, could  
6           do no more, was -- would do nothing else until  
7           such time as the dose reconstruction program  
8           had been -- been re-- retabulated and that they  
9           had those dose reconstructions in their files.  
10          I personally could not care less about dose  
11          reconstruction. I do know that what I -- what  
12          happened to me in the -- in the -- in testing  
13          of the atomic bomb, I know that -- I have  
14          pictures taken by the Army that has been given  
15          to the VA Benefits and what have you that shows  
16          my squadron, the 140th Fighter Squadron and  
17          140th Maintenance Squadron, marching, and so  
18          titled, to zero point in dust and debris still  
19          in the air. Again, we were not 20 miles away  
20          or five miles away. We were inside the  
21          concussion of the blast. But it would be nice  
22          somewhere down the line for everything to get  
23          together.

24          I can understand why a lot of these people are  
25          so upset, because I have been told many times

1 in meetings and what have you with the VA  
2 Benefits that certain things were not allowed,  
3 such as pulmonary problems, digestive problems,  
4 circulatory problems and what have you that  
5 were non-cancerous. That is not in the list  
6 that the Code of Federal Regulations 35 says  
7 that -- that is covered. However, I have read  
8 many of the results of -- and what have you of  
9 tests done by Japanese and Russians, the -- the  
10 Russians at Myak and of course the Japanese at  
11 Hiroshima and -- and Nagasaki, that there were  
12 more deaths in both of those -- in those  
13 researches that were caused by circulatory,  
14 pulmonary and -- and digestive problems or  
15 gastrointestinal problems than died with  
16 cancer. Yet most of these are, as I know it  
17 and I am told, are not covered by -- by the CFR  
18 38. They're not allowed.  
19 Other things -- I have posterior subcapsular  
20 cataracts, nothing's been allowed for that.  
21 The -- Benefits has not allowed it. The loss  
22 of hearing, as diagnosed in great depth by the  
23 VA, was -- is nothing. I did -- they allowed  
24 ten percent for some tinnitus that I have,  
25 sometimes it's worse than others. I do have a



1 hearing problem. My hearing from my left ear  
2 is delivered to the brain a lot -- in -- a lot  
3 later than the left ear does. Consequently, in  
4 talking to people that are -- or people talking  
5 to me is very -- almost mumbled, comes out  
6 almost mumbled. I have this problem, because  
7 of it, of talking loud. I think it's caused by  
8 hoping that someone else will talk loud to me.  
9 But anyway, that's -- I've -- I think I have  
10 probably said enough, and I will leave it to  
11 someone else to continue from there.

12 **VICE ADMIRAL ZIMBLE:** Let me just ask you, the  
13 thyroidectomy, what was the diagnosis for the  
14 thyroid--

15 **MR. HAMPTON:** It was multi-tumorous, multi-  
16 colored and everything, that was definitely  
17 through radiation. That was why -- one of the  
18 reasons I know that I did get 100 percent.

19 **MR. PAMPERIN:** You got 100 percent because of  
20 the surgery?

21 **MR. HAMPTON:** I have no idea what it was from.

22 **MR. PAMPERIN:** You are service connected then  
23 for residuals of --

24 **MR. HAMPTON:** I'm currently listed as 40  
25 percent service connected.



1 World War -- World War II, Korea -- Korean War  
2 and the Cold War and the Vietnam War. I'd like  
3 you to hear my -- if you hear it right, please,  
4 it's up to you. If you hear it wrong, it's up  
5 to you. God (off microphone and  
6 unintelligible) hydrogen bomb in Bikini. In  
7 1956 I was aboard the U.S.S. Sheraton 790  
8 destroyer. Okay. When they dropped that  
9 thing, I tell you, no protective clothing. The  
10 only thing that I have, because I was assigned  
11 to the damage control repair party, is that  
12 dosimeter that was hanging on your neck and  
13 they -- and that gadget that is ringing when  
14 you -- when they hear -- when you touch  
15 something (off microphone) that is radiation,  
16 it's going to be ringing like hell. That's the  
17 only what -- what we have -- thing. That's the  
18 last one that we have (on microphone) because  
19 five (unintelligible) of multi-megaton hydrogen  
20 bomb right there, except there is one, two,  
21 three, four and five. And beside -- that's  
22 beside the biological, chemical and the  
23 thermonuclear hydrogen bomb. That's exactly  
24 what we were told right there (unintelligible).  
25 Now there is two medical officer on the ship.

1           Commanding officers ship me over without any  
2           medical examination, what have you. Commanding  
3           officer send me off to -- not the Bikini -- the  
4           Enewetak Atoll. That's where the  
5           (unintelligible). They shipped me out to the  
6           Philippines (unintelligible). But it's  
7           shipping over for another six years. Nobody,  
8           no doctor signed my paper except the Third  
9           Class medical corpsman who signed my paper and  
10          pass it to the security officer and gave it to  
11          me and then shipped me out to the -- what's  
12          this -- to (unintelligible) and get the  
13          transportation there.  
14          Two weeks later, you'd be surprised. I'm  
15          blistered all over my body. It's -- (off  
16          microphone) what is this? They got  
17          (unintelligible), itchy, running out -- what is  
18          this, running just like water in there. And I  
19          cannot eat. My stomach is all messed up. My  
20          wife -- still there. My wife tells me what's  
21          wrong with you? You just come in and you're  
22          sick like that? Mom, I'm not going to tell you  
23          anything. Why? I am afraid that our  
24          government's going to cut my head off. Why?  
25          It's top secret. You know it. You all know

1           it. So I said then what we're going to do?  
2           Well, if you got a little hot water or  
3           something like that, give it to me.  
4           (Unintelligible) for almost a month right  
5           there.  
6           But before going to that vacation that  
7           (unintelligible) gave me, the doctor in  
8           (unintelligible) I think it was  
9           (unintelligible) already not to see any doctor  
10          outside if I get sick. That's exactly what he  
11          told me. The same thing when I come back from  
12          (unintelligible). I just have to go back on my  
13          terminal leave, so I don't have to be rushing  
14          anything in here because transportation at that  
15          time in the Philippines is not that good, 1956.  
16          So -- so then when my leave expired I told the  
17          doctor, Doctor, look at my body now. What's  
18          wrong with you? I don't know, they just come  
19          up. I was sick the whole leave time that I  
20          have. I was sick then to now. So the doctor  
21          said I'm going to put you on a plane Monday  
22          morning, the first -- first one to go on the  
23          plane. That's (unintelligible) the morning on  
24          a Monday on a plane going to Travis. What did  
25          they do in Travis? What did they do in Travis;

1           they send me to Atlantic Fleet, Norfolk,  
2           Virginia. There I reported and I told the --  
3           what's this, the (unintelligible) over there,  
4           the OOD. I said Sir, I'm -- I'm here to report  
5           to you (unintelligible) Atlantic Fleet. And he  
6           says to me, You are sick. I know I'm sick, but  
7           they -- that's exactly -- you can have these  
8           papers I handed to you. So okay, go to -- go  
9           to the transit (unintelligible) exit and stay  
10          there and log in. And then a couple of --  
11          couple of minutes, there's the Master at Arms  
12          that told me hey, you, you are going to  
13          Atlantic Fleet next week. Here's your schedule  
14          already there, which I have to catch this ship  
15          in Newport, Rhode Island.  
16          So I was shipped to the Mediterranean, former  
17          Mediterranean (unintelligible) for one -- one  
18          month only that I stay because I was so sick.  
19          The Commodore find out that I'm sick. He says  
20          what's -- what's wrong with you? Sir -- I  
21          didn't tell him exactly what happened to me,  
22          but I say I'm sick. So go -- go to the sick  
23          bay and (unintelligible) corpsman. So I get  
24          the corpsman, give me -- I don't know what kind  
25          of pills she gave me, so then go back -- go

1 back to your -- what is this -- compartment and  
2 lay down there, but I cannot sleep even then  
3 during that time. One month almost before I  
4 get to the United States because  
5 (unintelligible) me again, too.  
6 (Unintelligible) so I waited for another  
7 transportation coming. When the transportation  
8 was so full that there was some  
9 (unintelligible) now. They said okay, and then  
10 the commanding officer said yeah  
11 (unintelligible) on the ship (unintelligible)  
12 the United States. Then that is where I  
13 (unintelligible) after three years. Three  
14 years right there in that -- itchy and all that  
15 stomach problem went to the sick bay, you know  
16 all that, and you see what happen now. The  
17 doctor said we cannot -- we cannot treat you  
18 (unintelligible). I got a high fever already,  
19 a high fever and all that, vomiting. What did  
20 they do? They just let me stay there and get  
21 the pills -- in the barracks, stayed there in  
22 the barracks.  
23 Then my wife has got a -- (unintelligible) the  
24 Philippines. She's got a rash all over her  
25 body. She's (unintelligible) I say it's okay

1 with me. (Unintelligible) it's there. She's -  
2 - my (unintelligible) said hey, no matter what,  
3 we're not going to send you to the Philippines  
4 for (unintelligible). That's two Red Cross  
5 dispatch today station. The commanding officer  
6 send me? No. Then I -- then they assign me to  
7 the commanding officer and see the wife over  
8 there and (unintelligible) to the wife and said  
9 you're going to be here. I say what? You're  
10 going to be here working for us now. Well, I  
11 said (unintelligible) I got the  
12 (unintelligible) here. They're installed  
13 already. The Red Cross (unintelligible). No,  
14 you're not going to -- they're not going to  
15 send you. No matter what, we're not going to  
16 send you over there. So what did I do? I  
17 didn't do nothing, I just go back to my  
18 barracks, suffer because that itchy -- because  
19 at the time it was summertime. It's hot --  
20 humid over there, kind of hot and of course  
21 itchy all over. And my shipmate over there  
22 telling me what the hell (unintelligible) you?  
23 (Unintelligible) was this in the jungle? I  
24 said no, but I don't tell him anything that I  
25 was in this -- ah, what's this -- Operation



1 REDWING, which is done by the Seventh Fleet  
2 about the (unintelligible). And when -- when I  
3 get to the retirement time on the ship  
4 (unintelligible) say what's wrong with you?  
5 Sir, I got -- what is this, a headache or -- my  
6 stomach's growling and everything like that.  
7 Maybe you just drink too much. I say Sir, I  
8 don't drink. I don't smoke, either.  
9 (Unintelligible) So from ship to ship, okay,  
10 32 years service. They keep me on the ship  
11 mostly, working for the Admirals in there.  
12 They didn't -- they didn't give me any good  
13 shore duty, not like the other (unintelligible)  
14 were given shore duty. Not me, no. (Off  
15 microphone) (unintelligible) (on microphone) I  
16 know. They want you to do shore duty in  
17 Washington again. I say Sir, my  
18 (unintelligible) is here in the Pacific. I'm  
19 supposed to be on shore duty in 1956 and  
20 commander (unintelligible). What happened?  
21 Nothing. I was sent over there to be -- to  
22 work with (unintelligible) and say no, right  
23 there in (unintelligible) again.  
24 Then I was confined -- I know one time I was  
25 confined there for one month. I was shaking

1 and (off microphone) (unintelligible) (on  
2 microphone) because we (unintelligible) working  
3 (unintelligible). And every day I go down  
4 there and try to check with them. So then --  
5 but anyway, before I retire (unintelligible)  
6 the Pacific, I was bleeding and -- and then not  
7 bleeding, occasional bleeding on the ship.  
8 They put me on the base. They put me back on  
9 another ship, another Admiral there. That was  
10 some thing that I don't -- I cannot -- some of  
11 these people were telling me hey, you go -- you  
12 go on a ship all the time? I cannot do it.  
13 And every (unintelligible), so that's where I  
14 go. Just like that Operation REDWING, that --  
15 the VA denied me. The CRAC\* and the PTSD --  
16 what is this, colonoscopy, they deny that until  
17 I got cut outside with this -- no, I still got  
18 it, the esophagus (unintelligible). I suffer  
19 since 1956. (Unintelligible) 1956 when we  
20 dropped that multi-megaton hydrogen bomb.  
21 So thank you very much and I hope some of you  
22 people understand where I come from. I didn't  
23 just -- what is this -- get this story or  
24 something. I hope Mr. -- right there, national  
25 commander, he's here. That Operation REDWING,

1 he was there. Thank you very much.

2 **VICE ADMIRAL ZIMBLE:** Thank you. Any questions  
3 from the Board? Are you in the ionization  
4 registry?

5 **MR. PONTILLAS, SR.:** Pardon me?

6 **VICE ADMIRAL ZIMBLE:** Have you registered in  
7 the VA with the ionization registry?

8 **MR. PONTILLAS, SR.:** Yes, sir, but they lose my  
9 -- they lose my record during (unintelligible).  
10 They always -- they always gave me shots, then  
11 X-ray and then pills. The time they give me  
12 pills (unintelligible) I drop out because so  
13 many pills I used to take.

14 **VICE ADMIRAL ZIMBLE:** Okay.

15 **MR. PONTILLAS, SR.:** Then they said I got  
16 (unintelligible).

17 **VICE ADMIRAL ZIMBLE:** All right.

18 **MR. PONTILLAS, SR.:** That's why I got a stroke  
19 and I got this. Dr. Rosen when he was here in  
20 that VA, he give me ten percent because I got  
21 the ulcer cut, he said it was cut.

22 **VICE ADMIRAL ZIMBLE:** Okay.

23 **MR. PONTILLAS, SR.:** But I don't know what they  
24 got. They got about -- the doctor in  
25 (unintelligible) about that size. I was cut

1 right there in my stomach. I don't know. They  
2 don't want to give it to me, either.

3 **VICE ADMIRAL ZIMBLE:** Okay. Thank you -- thank  
4 you very much for your testimony. We have it  
5 all on record now. Thank you.

6 **MR. PONTILLAS, SR.:** Thank you.

7 **VICE ADMIRAL ZIMBLE:** Ladies and gentlemen, to  
8 give the Board members a little bit of a break,  
9 we're going to take ten minutes. We still have  
10 two more -- two more individuals that would  
11 like to make comments, and we will definitely  
12 hear you. Also Commander Ritter would like to  
13 make a statement, and we'll make sure that  
14 that's included. So let's reconvene here at  
15 3:35.

16 (Whereupon, a recess was taken from 3:20 p.m.  
17 to 3:35 p.m.)

18 **VICE ADMIRAL ZIMBLE:** All right, ladies and  
19 gentlemen, we're about to hear some testimony.  
20 All right, the floor's yours, Mr. Brady.

21 **MR. BRADY:** Thank you. In deference to the  
22 hour, I'd like to truncate my statements and if  
23 I could turn in a written copy --

24 **VICE ADMIRAL ZIMBLE:** Yes, that'd be fine.

25 **MR. BRADY:** Thank you. My name is Terry T.

1 Brady. I am an atomic veteran falling in the  
2 category of veterans who were assigned security  
3 and handling duties over various nuclear  
4 components during the 1950's. I spent nearly  
5 two years stationed as a non-commissioned  
6 officer at Marine barracks, Lake Mead Base,  
7 Nevada. I was cleared top secret Q. I  
8 currently reside in Anchorage, Alaska.

9 As you are undoubtedly aware, it was not until  
10 1995 that then-DoD Secretary William Perry  
11 lifted the ban on cleared personnel to allow  
12 discussion of medical problems that may or may  
13 not have occurred as a result of official  
14 duties. For 40 years I and others like me were  
15 in a state of limbo concerning alleged service-  
16 connected disabilities and diseases, whether  
17 they were presumptive or otherwise, that may or  
18 not have been triggered by exposure to  
19 radiation or other illnesses or traumas that  
20 may have occurred as a result of secret  
21 activities.

22 I know this panel is not charged with anything  
23 beyond the reconstruction of radiation doses,  
24 but I bring this additional matter up because  
25 as far as the individual veteran is concerned,

1           how, when and why his or her maladies began  
2           while on active duty is secondary to the  
3           questions of lack of equity and fairness in the  
4           process, mostly beyond the needs of national  
5           security.

6           Adding a dose reconstruction to a claim  
7           resulting from secret duties, and forcing the  
8           veteran to prove the unprovable, only compounds  
9           the injustice perpetrated upon the veteran and  
10          his or her family.

11          That said, I'll now speak directly to the issue  
12          of dose reconstruction. And though I am not an  
13          expert in dose reconstruction or nuclear  
14          physics, I do have advanced degrees in biology  
15          and related sciences. I know that several of  
16          you have long and distinguished careers in the  
17          field of dose reconstruction, and I hope I am  
18          not personally or professionally insulting when  
19          I say it is my opinion that attempting to  
20          reconstruct the dose of whatever kind of  
21          radiation an individual may have or may not  
22          have received is voodoo biological and  
23          mathematical science, given the unmeasurable  
24          randomness and chaos faced by an individual at  
25          any one time and place, or for many people over

1 various times and in various spaces.  
2 In most instances, initial radiation doses were  
3 never adequately measured. And if was not or  
4 could not have been measured, then common sense  
5 says that it cannot be reconstructed. Or as an  
6 elementary English teacher would say, what was  
7 not first constructed cannot be reconstructed.  
8 During these hearings you will hear from others  
9 more skilled and more up-to-date than I even  
10 though, as I say earlier, I have advanced  
11 degrees in natural and physical sciences. I  
12 hope these people will go into more detail of  
13 the failures and fallacies of the dose  
14 reconstruction program. In the meantime, the  
15 expense and controversies over this issue  
16 causes -- to determine the causes of maladies  
17 among veterans exposed to radiation or other  
18 events related to the national security  
19 continues -- I mean nation's secrets continues.  
20 I shouldn't have said national security because  
21 the use of "secret" has gone far beyond  
22 national security.  
23 Thus I sincerely request that this august body,  
24 based on science and morals, advise the  
25 Congress of the United States that the best

1           thing that could happen to the dose  
2           reconstruction program would be for its swift  
3           termination. I strongly urge you to support  
4           H.R. 2962, the Atomic Veterans Relief Act now  
5           before Congress, that would do away with dose  
6           reconstruction.

7           I further believe that few atomic veterans  
8           really see themselves as victims. Rather, in  
9           my opinion, they see themselves as loyal  
10          Americans who have been denied due respect for  
11          their services and sacrifice, who would rather  
12          be part of the solution than pawns being used  
13          to extend the problems, the problems of short  
14          and long-term health effects that began when we  
15          pulled the cork on the bottle containing the  
16          nuclear genie.

17          Thank you very much for your time, and I'll  
18          submit this. There's some other issues in here  
19          that I would like to have in the record.

20          **VICE ADMIRAL ZIMBLE:** Thank you very much for  
21          very articulate testimony, and we appreciate  
22          the information you can leave right here at the  
23          table. I'll make sure it gets put into the  
24          record. Well, thank you, and thank you for  
25          your trip down here from Anchorage. It's much



1 appreciated.

2 Any comments or questions from the Board?

3 (No responses)

4 Okay. Thank you again, Mr. Brady. Now Mr.  
5 Malone.

6 **MR. MALONE:** I've made a outline here I would  
7 like to have you gentlemen and ladies listen  
8 to. It says my name is James E. Malone and I  
9 served in the United States Navy, Mobile  
10 Construction Battalion 11 -- you know,  
11 obviously the Seabees -- from 1960 to '62. And  
12 during that time I was stationed out in Guam,  
13 and Guam, as you know, is a radiated (sic)  
14 island, if you're familiar with Robert's  
15 Celestial's communication with a 97-page  
16 document on what has transpired with the  
17 citizens and the soils and the oceans, et  
18 cetera, et cetera and the currents therefore.  
19 From '62 to '64 I was assigned to Fleet  
20 Activity Yokuska (sic), and I was sent TDY to  
21 Atsugi, Japan for atomic, biological and  
22 chemical warfare school. In March and April of  
23 '63 I was assigned to attend the atomic,  
24 biological and chemical warfare school. And at  
25 Atsugi, Japan, having studied about atomic,

1 biological and chemical warfare, I was under  
2 the impression that being -- the assignment to  
3 Atsugi was just an extension of the education  
4 that I had received in '61. Well, that  
5 education I had received in '61 was the Navy  
6 BUPERS manual that I had taken to advance  
7 myself in the future. If certain situations  
8 were to arise, perhaps I would have been an  
9 asset in a -- in a crises (sic).

10 I was told upon completion of the school, and I  
11 put that in quotations, I was going to be on  
12 the augmentation force to the Marine Corps for  
13 the Yokuska (sic) Naval Base, Japan for  
14 security purposes. And never in my wildest  
15 dreams did I ever think that I was going to be  
16 subjected or -- yeah, to the exposure of  
17 unknown substances. While attending the  
18 atomic, biological and chemical warfare school  
19 I was exposed to unknown chemicals, gases,  
20 toxins, radiation, biological agents, et  
21 cetera.

22 Although I am aware of the exposure to mustard  
23 gas and the CN and the CS gases for the --  
24 well, I've got the scars on my arm from the  
25 mustard gas -- we were also required to wear

1 dosimeters every day for radiation and  
2 ionization. On occasion we had to bring extra  
3 dungarees, underwear, socks, hats because the  
4 clothing that we were wearing during testing  
5 were to be destroyed. We were not allowed to  
6 wash them at the base machines for fear of  
7 contamination.

8 I was honorably discharged on August 5, 1964.  
9 In December 1966, at the age of 24, I was  
10 diagnosed with fibrosarcoma cancer. This is a  
11 very rare form of cancer that was found in the  
12 same leg, same area, that I was required to  
13 inject an unknown substance into my leg during  
14 my assignment to ABC school. Then I also have  
15 suffered numerous other maladies, and all are  
16 presumptive under the Code of Federal  
17 Regulations.

18 There's never been any question in my mind that  
19 the cancer that I suffered was the result of  
20 the exposure to unknown chemicals, toxin,  
21 gases, et cetera -- that includes your  
22 radiation and your ionization -- that I was  
23 forced to inject, ingest or apply to my body.  
24 I have tried for years to prove that my cancer  
25 was the result of the exposure I endured during

1 my assignment to ABC warfare, and to include my  
2 service on Guam, Midway Island. It's  
3 impossible to prove the records -- for the  
4 records of what took place in ABC warfare  
5 school for they were destroyed.

6 This information came directly to me from  
7 Senator Jon Kyl of Arizona via Captain P. O.  
8 Wheeler, Deputy Director of Naval History,  
9 United States Pentagon.

10 I have continually denied -- I have been  
11 continually denied my claim by the Veterans  
12 Administration due to the fact that I couldn't  
13 prove it, that I got it in the service, even  
14 though I was given confirmation from Dr. Debra  
15 Linsley\*, the Ionization Radiation Registry  
16 physician at the VA hospital in Tucson, Arizona  
17 that the fibrosarcoma cancer was presumptive  
18 from the ionization radiation/AGAO -- excuse  
19 me, agent orange radiation. She's -- she's the  
20 -- she's the physician that does ionization  
21 radiation/AO. And in the letter that I  
22 received from Captain Wheeler that clearly  
23 states the nature of the events related to Mr.  
24 Malone's time at the atomic, biologic, chemical  
25 warfare school suggests the possibility of his

1           having been selected to participate in the  
2           medical research and testing.  
3           Now since 1996 I've been trying to get someone  
4           to listen to me to say okay, you got it from  
5           the military, you got it in school, you got it  
6           from the A-- you got it from ionization  
7           radiation. Now when you have the attending  
8           physician talking to you and she said here,  
9           fill out your form for compensation, that's  
10          what you do. But the government kept saying to  
11          me, prove it. Prove it. So with the help of  
12          my dear Senator, I have a letter from him and  
13          his response from the Department of Navy,  
14          Office of Chief Navy Operations, Pentagon.  
15          (Reading) I'm responding on behalf of the  
16          Director of the Navy's House Liaison Office to  
17          your recent letter concerning the request of  
18          your constituent, Mr. James Edward Malone,  
19          concerning his service-connected medical  
20          disability claim. Inquiries to the Naval  
21          Historical Center's Aviation History and  
22          Operational Archives branches determined that  
23          neither office has custody of historical  
24          reports or other related records from either  
25          Naval Air Station Atsugi or the atomic,

1 biological and chemical warfare school from  
2 '63. The Operational Archives branch reviewed  
3 its command history holdings for the post-World  
4 War II period and located Naval Air Station  
5 Atsugi command histories from '62 to '69, the  
6 closest years to -- in the collection to '63.  
7 Neither reports contain -- neither reports  
8 contains mention of an atomic, biological,  
9 chemical warfare school. And similar  
10 activities based on this information that can  
11 be reasonably (sic) to assume that this was the  
12 locally-established activity vice a formal  
13 Department of Naval Command, and as a  
14 consequence any records were very likely  
15 considered temporary in nature and destroyed  
16 when the activity was disestablished.  
17 How do you prove it? How do you prove it?  
18 **VICE ADMIRAL ZIMBLE:** Your only exposure --  
19 potential exposure to ionizing radiation would  
20 have been at the ABC school. Is that correct?  
21 **MR. MALONE:** There --  
22 **VICE ADMIRAL ZIMBLE:** That's the rub.  
23 **MR. MALONE:** I beg your pardon?  
24 **VICE ADMIRAL ZIMBLE:** And?  
25 **MR. MALONE:** And Guam.



1 no, but he has some very interesting, relevant  
2 information that I think very seriously should  
3 be considered. Thank you.

4 **VICE ADMIRAL ZIMBLE:** Yeah, it's -- I don't  
5 think it's within our purview to include or  
6 exclude any -- any individuals from that  
7 classification of atmospheric atomic tests or  
8 occupational forces in Nagasaki or Hiroshima.  
9 That's statutory. But I think we ought to  
10 follow this up and see what there is.  
11 I would also ask if anybody knows whether or  
12 not part of any curriculum of any of the  
13 atomic, biologic or chemical warfare schools  
14 included exposing students to ionizing  
15 radiation. That would be -- to me, that would  
16 be a surprise.

17 **COLONEL TAYLOR:** I went through the school and  
18 I don't remember, but I'm going to do some  
19 research.

20 **VICE ADMIRAL ZIMBLE:** Okay, I think it's --

21 **COLONEL TAYLOR:** And it was far more extensive  
22 --

23 **MR. MALONE:** (Unintelligible) and we had to  
24 handle things.

25 **COLONEL TAYLOR:** It's far more extensive than



1 he said. We've got indication it was in  
2 Hawaii, it was in several other places.

3 **VICE ADMIRAL ZIMBLE:** Right.

4 **MR. MALONE:** I was at Guam, I was at Midway  
5 Island, and I also lived in Japan.

6 **VICE ADMIRAL ZIMBLE:** Okay.

7 **MR. MALONE:** You know, and --

8 **COLONEL TAYLOR:** It should be in the record  
9 somewhere.

10 **VICE ADMIRAL ZIMBLE:** That -- but in -- the  
11 Japan business, like Hiroshima and Nagasaki,  
12 was really time-related. According to statute.  
13 That doesn't mean that we're -- we're not going  
14 to pursue this. There are other individuals  
15 who have been exposed to ionizing radiation  
16 that can get consideration from the Veterans  
17 Administration. It does not have to be one of  
18 the category of atomic vet. So let us -- let  
19 us explore that and see what we can -- see what  
20 we can find.

21 **MR. MALONE:** This has been ongoing for --

22 **VICE ADMIRAL ZIMBLE:** I un--

23 **MR. MALONE:** -- a long time. You know what?  
24 And not only -- not only do you have the  
25 maladies -- not only do you have the maladies

1           that -- my goodness, you have cancer, which has  
2           been denied by the VA. I've had my thyroid  
3           removed from my, you know, hyperthyroidism. It  
4           was removed with 8.3 millicuries of radioactive  
5           iodine.

6           **VICE ADMIRAL ZIMBLE:** Uh-huh.

7           **MR. MALONE:** I've got subcutaneous nodules.  
8           Operations on my stomach have taken off these -  
9           - these subcutaneous nodules, being removed,  
10          right? I've got skin cancers on my arms, my  
11          legs, my necks (sic). From this I've had  
12          hypertension --

13          **VICE ADMIRAL ZIMBLE:** Do you --

14          **MR. MALONE:** -- depression. I've had  
15          nephrolithiasis calculi. I've got papillar  
16          lesions. I've got heart palpitations and afib.  
17          And along with that, since 1966, I've got one  
18          of the worst cases of silent pormet/coronet\*  
19          you've ever had in your entire life. It just  
20          isn't right.

21          And I appreciate your time and I really, really  
22          appreciate the opportunity to thank all of you  
23          for just listening, because more voices you  
24          hear, I would only hope that this staff would  
25          just take into consideration that this is --

1                   this is difficult to go with. I've got more  
2                   years behind me than I've got in front of me.

3                   **VICE ADMIRAL ZIMBLE:** I -- no, that's -- we  
4                   appreciate that, Mr. Malone.

5                   **MR. MALONE:** I appre--

6                   **VICE ADMIRAL ZIMBLE:** You -- you did have a  
7                   personal dosimetry. Do you have any records of  
8                   any of the results of the -- of the dosimeters  
9                   that you wore?

10                  **MR. MALONE:** Oh, no, sir.

11                  **VICE ADMIRAL ZIMBLE:** No?

12                  **MR. MALONE:** No, none whatsoever.

13                  **VICE ADMIRAL ZIMBLE:** No, okay. Okay.

14                  **MR. MALONE:** No, none whatsoever, but we did  
15                  have to inject ourselves with anti-neurological  
16                  agents. And if it wasn't in to their  
17                  satisfaction, they made it to their  
18                  satisfaction, mustard gases, et cetera.

19                  **VICE ADMIRAL ZIMBLE:** Right.

20                  **MR. MALONE:** But what I want to know is what  
21                  constitutes a person being chosen to go to  
22                  these schools, to go through all these things  
23                  to have all of these maladies happen to you and  
24                  then be denied, to me is just unconscionable,  
25                  and I'd appreciate some follow-up on my case

1 and everybody else that's involved here. I  
2 thank you very, very much for your time.

3 **VICE ADMIRAL ZIMBLE:** Your comments are -- are  
4 appreciated. Thank you, sir.

5 **MR. MALONE:** Thank you very, very much.

6 **VICE ADMIRAL ZIMBLE:** Right.

7 **MR. GROVES:** I'd like to make a few comments  
8 about the -- what we called in the Navy  
9 "indecent warfare schools," and we actually for  
10 a long period of time had two of them  
11 established, one at Treasure Island in  
12 California, the other at the Naval Station in  
13 Philadelphia. And I was a student for one  
14 month at that school, as I assume that Paul and  
15 Gary were, as well. And in fact we had  
16 radiation health officers like ourselves  
17 assigned to those schools because they did  
18 handle radioactive sources as a part of the  
19 training. And it was training on what would  
20 happen if ships were involved and shore units  
21 were involved in nuclear blasts, and we were --  
22 we were instructed and we instructed people on  
23 how to use the proper instrumentation, and part  
24 of the training included having real  
25 radioactive sources that would make the meter

1           dials swing to make the -- to make the training  
2           realistic. Now --

3           **MR. MALONE:** It was realistic.

4           **MR. GROVES:** It was very -- very realistic, and  
5           -- and I think it was very valuable at the time  
6           during the Cold War when we thought we might,  
7           you know, have to have that kind of expertise  
8           in the fleet. However, I do believe that it  
9           was -- one of the reasons we had a dedicated  
10          radiation health officer assigned to those  
11          schools was to ensure that people's exposure  
12          was kept as low as possible and while -- and  
13          that's the reason I believe that you probably  
14          wore a dosimeter. The staff at the school,  
15          their film badges and dosimeters are -- are in  
16          the record. Students who would go through for  
17          a couple of weeks or a month would normally not  
18          have their dosimetry filed, unless they had an  
19          exposure that was unusual. But just to confirm  
20          the fact that radioactive materials were used  
21          in those schools as a part of the training, but  
22          that it was controlled. And I think as the  
23          Admiral said, while you may not qualify under  
24          this particular program, there are other  
25          programs within the Veterans Administration

1           where, if your maladies are considered to be  
2           radiation-related, they could go back and do a  
3           -- a dose for that, as well. So...

4           **MR. MALONE:** (Off microphone) Well, if your  
5           records have been destroyed, how are you going  
6           to go about getting an assumption of how much  
7           there was when the CFR -- it states that if  
8           your records cannot be found or if they have  
9           been destroyed, I think that 33.04 or 33.07  
10          states (unintelligible) assume (unintelligible)  
11          that the person was there, he did receive the  
12          highest amount of radiation that would cause  
13          that malady, and that's what it states, 2004  
14          CFR.

15          **MR. GROVES:** Well, I think that what we can do  
16          for you is we can go back through the records  
17          that exist and -- and while I'm not familiar  
18          with the school that was at Atsugi --

19          **MR. MALONE:** (Off microphone) Atsugi  
20          (unintelligible).

21          **MR. GROVES:** -- we can certainly look at  
22          similar activities that took place, and I would  
23          -- I'm looking to Captain Blake for this -- to  
24          help in determining what kind of exposures as a  
25          student you could have received at the schools,

1                   because we do have records from the school at  
2                   Treasure Island and the school at -- at  
3                   Philadelphia.

4                   **MR. MALONE:** (Off microphone) But doesn't it --  
5                   isn't it true that no amount of radiation is  
6                   safe?

7                   **MR. GROVES:** That would be an over-  
8                   simplification, but what we can say is we can  
9                   determine what the maximum dose you could have  
10                  received, and then the VA can have that number  
11                  to make a determination through their process  
12                  whether or not the disabilities you have might  
13                  have been caused by that dose.

14                 **MR. MALONE:** (Off microphone) Well, I want to -  
15                 - I wanted to, if I may, let you know that in  
16                 the military I was (unintelligible) also in  
17                 construction (unintelligible). And I was  
18                 (unintelligible) champion swimming. I went to  
19                 the far East, Japan '62, '63 and '64. I was  
20                 All-Navy champion swimmer, basketball,  
21                 baseball. And those three years  
22                 (unintelligible) well. And two years after I  
23                 get out, I mean (unintelligible) -- '77 is when  
24                 I had my (unintelligible) operation. I had a  
25                 biopsy done November 17th and they called me

1 back (unintelligible) San Francisco  
2 (unintelligible) came back (unintelligible)  
3 eleven times (unintelligible) cancer. And to  
4 this day, 40-something years later, every  
5 doctor in the VA says is there anything about  
6 you I should know, and I said yeah, I've had  
7 fibrosarcoma cancer. And some of their  
8 responses are Christ, you're still here? And I  
9 said yeah. You know, it's -- it's one of those  
10 things that I've had instilled in me to never  
11 give up, don't let anything ever defeat you.  
12 You (unintelligible) ever lay down and die, you  
13 know. You can't. Now according to the  
14 (unintelligible) earlier about consequences to  
15 an offspring, I have a son that's had a malady  
16 with multiple, multiple growings of moles on --  
17 moles upon his back. I mean they just  
18 (unintelligible) and I had to go to the same  
19 doctor who performed my operation and  
20 (unintelligible) holiday. That was  
21 (unintelligible), but again I want to thank you  
22 guys very, very much for just listening -- just  
23 listening.

24 **VICE ADMIRAL ZIMBLE:** Thank you. Dr. --

25 **MR. GROVES:** And thank you very much.



1           **VICE ADMIRAL ZIMBLE:** -- Swenson. Dr. Swenson.

2           **DR. SWENSON:** I just have a question. In the  
3 Navy did -- before 1968 did they put exposures  
4 on the DD1141 and would they -- might they have  
5 done that from those schools? Because after  
6 that you had the central registry.

7           **DR. BLAKE:** I need to ask a question directly  
8 with regard to that to Mr. Malone.

9           **MR. MALONE:** Sure.

10          **DR. BLAKE:** Do you remember what type of  
11 dosimeter you wore when you were at the school?  
12 Was it a little locket around your neck that  
13 was black, or was it a --

14          **MR. MALONE:** (Off microphone) No, no  
15 (unintelligible) --

16          **DR. BLAKE:** -- silver film badge?

17          **MR. MALONE:** -- (unintelligible).

18          **VICE ADMIRAL ZIMBLE:** Badge?

19          **MR. MALONE:** (Off microphone) Yes -- well, it  
20 was (unintelligible) --

21          **VICE ADMIRAL ZIMBLE:** Okay.

22          **MR. MALONE:** -- (unintelligible).

23          **DR. BLAKE:** It was presumably a film badge  
24 where we probably recorded the exposure -- the  
25 other type of dosimeter we used at that time

1           was called the DT60. It was a solid state  
2           phosphate class, but the trouble with that  
3           other dosimeter that people were issued, the  
4           minimum exposure that we could detect on that  
5           was something called ten Roentgens or ten rem,  
6           so we wouldn't have kept those results because  
7           presumably you weren't exposed to that much.  
8           But if you wore a film badge, hopefully we do  
9           have some records on you. So we --

10          **MR. MALONE:** (Off microphone) Well, I would  
11          hope, I --

12          **DR. BLAKE:** Right.

13          **MR. MALONE:** (Off microphone) Excuse me, I'm  
14          sorry.

15          **UNIDENTIFIED:** (Off microphone)  
16          (Unintelligible) to hear.

17          **MR. MALONE:** -- yeah, I don't -- if -- if the  
18          records have been destroyed.

19          **DR. BLAKE:** With regards to film badge records,  
20          the places we keep those were in your health  
21          record, which we may or may not have but we can  
22          certainly follow up, but the Navy also had a  
23          central repository for both Navy and Marine  
24          Corps at the Naval Dosimetry Center. And  
25          that's another place we can look for the

1 records, too. So perhaps after -- when we have  
2 a break, if you'd come up --

3 **MR. MALONE:** Sure.

4 **DR. BLAKE:** -- we can do a follow-up for you on  
5 those records.

6 **MR. MALONE:** I'd really, really appreciate it  
7 because this has been -- well, like I stated  
8 before, you know, 40 years of just torment.  
9 All you do, for Christ's sake, is just think  
10 what is going to befall me next. I mean, you  
11 know, when you come down -- when you wake up in  
12 the morning and your heart rate is 250 over --  
13 and -- and it's nuts, and you've got palsy and  
14 you can't think and you can't sleep, that's  
15 taxing. And then you go somewhere and they say  
16 well, here -- and they give you a handful of  
17 Valium. I said I'm not taking any Valium. I  
18 said I want to see a psychiatrist. And they  
19 said why, why a psychiatrist? And I said well,  
20 one, they're physicians first and they'll know  
21 if it's physiological. Two, they'll know if  
22 it's psychological. So with the grace of God,  
23 I got a chance to see Dr. Trico\* at the VA  
24 hospital in Tucson, Arizona. And we talked for  
25 a bit, did a family history, et cetera, et

1           cetera, and I asked her after an hour or so if  
2           I was a full-blown nut case. And she said au  
3           contraire, you, I think, need to have a blood  
4           test. It came back and my TSH level was  
5           supposed to be between 0.8 and 1.8 -- it was  
6           damned near 6. So she put me on metropolol  
7           (sic) and methamizol and propanelol and  
8           coumadin and (unintelligible) coated aspirin to  
9           the tune of 793 pills in 90 days. Well, I did  
10          it at 6:00, 2:00 and 10:00 to get that stuff in  
11          my system, every eight hours to have it in  
12          there constantly. I went back, then they upped  
13          it, then they lowered it, then they took some  
14          out, then they put some back in, then they  
15          little -- little less, little more. Christ  
16          almighty, I said isn't there another avenue we  
17          can take here? I said this -- this is  
18          frightening. I said you know, I'm -- I'm  
19          having suicidal thoughts, and I said that, to  
20          me, is, you know, a red flag. And I said what  
21          can be done? And he said well, let's try this,  
22          Jim. And I said all right, fine. And then  
23          after -- well, damned near five years, I said  
24          what are we going to do? And the guy said why  
25          don't we ablate it. And I said why didn't we

1           ablate it seven years ago, for Christ's sake,  
2           you know. So anyway, to make a long story  
3           short, it was ablated, 8.3 millicuries, I know  
4           that. I know that number well. And -- well, I  
5           used to weigh 225 pounds and now I weigh 310,  
6           so it was hyperthyroidism and now it's  
7           hypothyroidism. And with that comes the  
8           hypertension and the blood pressure and --  
9           Christ, you name it. And like I said before, I  
10          was a hell of an athlete for a lot of -- lot of  
11          years until this happened, and then all of a  
12          sudden -- I'm just glad I have this format to  
13          talk to you fellas, and these ladies. Thank  
14          you very, very much. I really appreciate it.  
15          **VICE ADMIRAL ZIMBLE:** Thank you. Now are there  
16          -- where's -- where's Commander Ritter? Okay,  
17          Commander Ritter, you're on.  
18          **MR. RITTER:** I want to thank the Board and the  
19          Chairman and the members of the Board for  
20          putting this on today and again tomorrow. I  
21          want to thank the atomic veterans for -- who  
22          are here for being here. Certainly the stories  
23          are the same stories you heard in Tampa,  
24          probably the same stories you'll hear tomorrow  
25          and the next time you meet and the next time



1           **MR. COHEN:** Fine, thank you.

2           **VICE ADMIRAL ZIMBLE:** You're there.

3           **MR. COHEN:** Thank you for having me here, and I  
4           want to thank special to -- (off microphone)  
5           there she is -- to Dr. (unintelligible) for  
6           having me here. (On microphone) Thank you,  
7           Doctor. Okay?

8           I was in the Navy, First -- Seaman First Class,  
9           and we were the ones that ran the ships.

10          Sorry, Admiral. My wife and I also volunteer  
11          at Sepulveda VA California for ten years. I am  
12          the member of the Jewish War Veterans, Disabled  
13          American Veterans and American Veterans.

14          My ship, LST, landed on Nagasaki, Japan about  
15          two months after the A-bomb was dropped. The  
16          next day I rode on a truck to the center where  
17          the A-bomb went off, ground zero. I walked  
18          around on the black dust and felt the hot  
19          ground under my feet. This was the old age of  
20          18 and three-quarters. Within six months I was  
21          issued eyeglasses at Roy Island. I developed  
22          macular degeneration from exposure of  
23          radiation. This is an old-age disease. I went  
24          to Kaiser at the age of around 36 and the  
25          doctor was Dr. Polaski\*. He was shocked that

1           he seen a young fella with macular  
2           degeneration, so he turned me over to the head  
3           eye doctor, Dr. Schum\*. He said to me don't  
4           worry, usually it goes away and you never have  
5           it in the other eye. I guess I was lucky, it  
6           stayed in my eye and I got it in the other eye.  
7           When I was getting out of the service I was  
8           having a lung problem. They told me if I can't  
9           stay in, they will take care of me or my lung  
10          problems, or go to the nearest VA hospital to  
11          take care of this, which I did in New York  
12          City. A year and a half later I came to  
13          California to get married. In California I was  
14          treated for about two months and then I  
15          stopped. I didn't think it was helping me.  
16          A friend of mine told me since I was in  
17          Nagasaki I was a radiation vet and the VA will  
18          take care of me. I went to the VA and I filled  
19          out papers. Months later the U.S. government  
20          said I was never in Nagasaki and the ship was  
21          never in Nagasaki.

22          This fella George Dickson, who's the DAV  
23          service officer at the VA, told me to get in  
24          touch with the Navy Archives. I said you're  
25          crazy. That's still the government. He said



1           try it, which I did. They gave me the date and  
2           time that I was in -- over there and the ship  
3           was there, but the government again said we  
4           believe that, but there wasn't enough radiation  
5           at that time. That was a lie, too. They  
6           didn't know how much was there at that time,  
7           but Japan said it was high.  
8           Lie three, about a year ago they send me to an  
9           outside eye doctor, which they paid about \$900  
10          to -- to examine me, to check me out. The  
11          government told me not to bring any records  
12          with me as they gave him, the eye doctor, all  
13          the information he needed. I only brought one  
14          piece of paper with me from my eye doctor that  
15          was being treating me for about 40 years, the  
16          first one. Since he -- he said he believed at  
17          a young age of 36 when I went to him that he  
18          was sure that I developed macular degeneration  
19          from radiation in Nagasaki. Their eye doctor  
20          said that that was his opinion. That was  
21          funny, this guy -- doctor was treating me for  
22          about 40 years. He treated me for ten minutes  
23          and he knew? He says if you don't like it, you  
24          better see a lawyer.  
25          Right after that my wife and I went back to the

1 nurse and said when did he get the papers from,  
2 and they said from the year 1999. Sure, I was  
3 old at that time, but that was the papers that  
4 they should have given way back at beginning.  
5 And -- and the fourth lie was that they  
6 couldn't find any records in New York City VA  
7 hospital for my asthma, and we been going on  
8 this for ten years now.

9 For the skin cancer on my face, Kaiser doctor  
10 at the time, a (unintelligible), said that  
11 sailors was exposed to skin cancer because of  
12 the ocean and metal deck since we didn't have  
13 any head gear at that time.

14 Thank you.

15 **VICE ADMIRAL ZIMBLE:** Thank you. Any comments?

16 (No responses)

17 Okay, we've gotten your statement for the rec -  
18 - yes, sir?

19 **UNIDENTIFIED:** I'm not on the list, but I'd  
20 like to make a comment.

21 **VICE ADMIRAL ZIMBLE:** Okay. Could I have your  
22 name, please?

23 **MR. GARCIA:** Ramon Garcia.

24 **VICE ADMIRAL ZIMBLE:** Okay.

25 **MR. GARCIA:** I was a participant in Operation

1 CASTLE.

2 **VICE ADMIRAL ZIMBLE:** All right.

3 **MR. GARCIA:** And it's been very interesting to  
4 hear all the different -- all the effort that's  
5 been done to try to establish dose  
6 reconstruction for veterans. But I've always  
7 thought about the next extra -- X-ray may be  
8 the thing that's going to trigger since my  
9 exposure to ionizing radiation. It's really  
10 nothing that has -- stops, and having taken  
11 part in Operation CASTLE, we were never on  
12 virgin ground over there, Bikini and Enewetak,  
13 where we swam in the water and we ate and drank  
14 on those islands had already been the site of  
15 four other series of tests. And we even become  
16 downwinders because in civilian life we've  
17 traveled all these areas where the tests have  
18 been done in the United States. So we -- we  
19 always seem to be a participant to exposure,  
20 never knowing actually when -- what amount is  
21 going to be triggered.

22 And -- well, my point is with all this effort  
23 and -- that's being done for reconstruction, I  
24 would ask the panel to eliminate reconstruction  
25 and presumption for on-site veterans that have

1           taken overdoses of radiation because it's --  
2           with all the uncertainty and trying to  
3           calculate and ratios and charts, being on-site  
4           and having done it as a duty, we had no choice  
5           about doing our duty and we did it willingly,  
6           and not knowing actually what the consequences  
7           were going to be.

8           I, for myself, have been in relatively good  
9           health. But I hear the story of my fellow  
10          veterans and it's always been on my mind that -  
11          - what is going to trigger this overexposure  
12          that I've had throughout the years. And so I -  
13          - I would like to ask the panel to just stop  
14          reconstruction for on-site -- dose  
15          reconstruction for on-site veterans who were on  
16          a duty station. They couldn't leave if they  
17          didn't like the first shot, and they couldn't  
18          leave if they didn't like the second shot. We  
19          were duty-bound and willingly doing our  
20          service. Thank you.

21          **VICE ADMIRAL ZIMBLE:** Thank you very much.

22          Yes, Mr. Malone? Right.

23          **MR. MALONE:** In addition to what I've already  
24          spoken to you about, Guam was a radiated (sic)  
25          island. And it was hot when I was there and

1           it's hot today. And I worked on Gabgab Beach,  
2           I worked in (unintelligible) Harbor, I worked  
3           at Fadian Point, worked at Talofofa Falls area,  
4           Finegayan, Barrigada, and that was all  
5           construction where we had to move the earth.  
6           For whatever fell on that earth, we were in it.  
7           We were in the trenches, we were in the jungle,  
8           we were -- we drank the water from all the --  
9           all the reservoirs. They don't have any  
10          underwater things there. It all comes in from  
11          -- from -- I guess sedimentary rock, however.  
12          But we drank it, we swam in it, we ate the  
13          fish, and that was another point.  
14          And another thing I was going to say, in  
15          Kamakura, Japan -- which is just down the  
16          street from Yokuska (sic) -- I read an article  
17          the other day where the Japanese scientists  
18          went there and the Kamakura Beach is still hot.  
19          And then being a downwinder on Guam and being a  
20          downwinder on Midway Island, and then living in  
21          Japan where it was still radiated (sic) on  
22          those beaches, et cetera, et cetera, I don't  
23          know -- we were never required to a dosimeter  
24          then, and I don't know what's going to  
25          constitute a small dose or a large dose or, you

1 know, do you get it osmosisly (sic)? I don't -  
2 - I don't know. Does it come direct? I don't  
3 know. But I just want to let you guys know one  
4 more thing, and that was what I just said and I  
5 just wanted to get that in just as a point of  
6 interest. Thanks again.

7 **VICE ADMIRAL ZIMBLE:** Thank you very much, Mr.  
8 Malone.

9 Okay, here -- seeing no further comments, I'd  
10 like to move on. We're now about 15 minutes  
11 behind -- yes, sir?

12 **MR. WYANT:** I'd just like to ask for a comment  
13 from you people. Will I hear from you about  
14 my situation since I'm the only sole survivor  
15 of those in Los Alamos?

16 **VICE ADMIRAL ZIMBLE:** Well, I --

17 **MR. WYANT:** Or do I have to die first?

18 **VICE ADMIRAL ZIMBLE:** No, no, we don't want you  
19 to do that.

20 **MR. WYANT:** I would appreciate it if I were to  
21 hear from you.

22 **VICE ADMIRAL ZIMBLE:** Okay.

23 **MR. WYANT:** And I -- if you don't have it, I  
24 have it and I'll give you a copy and then you  
25 can make it and give it to everyone else in

1           your committee, the citation from the National  
2           Association of Atomic, it's called TRINITY site  
3           advisor, and I also have a copy of  
4           Oppenheimer's letter of October of '45.

5           **VICE ADMIRAL ZIMBLE:** Well, we have  
6           representatives on the Board that represent the  
7           Veterans Administration and representatives  
8           representing the DTRA and the NTPR, and they --  
9           they have heard your testimony and they'll take  
10          it for action. Thank you.

**A BRIEFING ON NTPR DOSE RECONSTRUCTION, QUALITY ASSURANCE  
MANUALS AND VETERANS COMMUNICATION ACTIVITIES**

11          **DR. PAUL BLAKE**

12           And now I'd like to proceed with -- with the  
13           remainder of our agenda, and our next speaker  
14           is Mr. Paul Blake, who needs no further  
15           introduction -- I'm sorry, Dr. Paul Blake needs  
16           no further introduction, going to talk further  
17           about the -- some of -- some of the  
18           recommendations from DTRA.

19           **DR. BLAKE:** Thank you, Admiral, for your kind  
20           introduction. My fellow Board members,  
21           interested parties and our -- my fellow  
22           veterans, I'd like to give you today an update  
23           on the Nuclear Test Personnel Review Program at  
24           my agency, the Defense Threat Reduction Agency.

1           What I'd like to cover today in this  
2           approximately 25 to 30-minute presentation is a  
3           discussion on post-National Academy of  
4           Science/National Research Council study since  
5           2003; move on to looking at some of the  
6           prostate dose results we've seen since 2003;  
7           similarly take a look at some of the skin dose  
8           results; move on to discussing quality  
9           assurance in the program; discuss some veteran  
10          communication activity; and finally summarize  
11          with what we -- what I see as the road ahead.  
12          The National Academy of Sciences/National  
13          Research Council in 2003 issued a report that  
14          had a major impact on the program at my agency.  
15          We call it *The Green Book*, as you can see  
16          there. It was a review of the dose  
17          reconstruction program of the Defense Threat  
18          Reduction Agency. It eventually led to a  
19          Public Law that led to in fact this Veterans  
20          Advisory Board on Dose Reconstruction. I'd  
21          like to give you a brief summary of the status  
22          since that report came out.  
23          The NAS study recommendations resulted in a  
24          revision to the procedures in our program. No  
25          dose reconstructions were performed for



1           approximately six months once that report came  
2           out, May through October of 2003. In addition,  
3           the Department of Veterans Affairs returned a  
4           number of dose reconstructions we had  
5           previously performed. The National Academy of  
6           Science study had brought into question some of  
7           those -- some of those studies, and so they  
8           were returned for us to re-look at.  
9           The challenge has been, since 2003 -- and it's  
10          impacted many of the veterans that have  
11          testified here today -- has created a backlog  
12          in dose reconstructions. And that's proving  
13          particularly challenging for us at the Defense  
14          Threat Reduction Agency, the Department of  
15          Defense, in reducing.  
16          This is a curve of what actually happened  
17          there. And it's also -- besides being a  
18          challenge, it's also been expensive, too. If  
19          you look at that curve, it peaked right around  
20          -- when *The Green Book* came out, when those  
21          studies have come back. And despite some  
22          challenging work as we've tried to improve the  
23          process, that curve has not come down.  
24          Why is that of great concern to us in the  
25          Department of Defense? Because some of the

1 veterans' claims that have come to us have been  
2 in our office for over -- in some cases, over  
3 two years, almost three years. And in some  
4 cases, some of those claims that we're working  
5 on were already at the Department of Veterans  
6 Affairs for an extended period of time, also.  
7 That's unacceptable, and what we're trying to  
8 do is bring that -- bring the curve down and  
9 give the turnaround time that the veterans  
10 deserve on doing our input from the Department  
11 of Defense.

12 If we look at that backlog of cases, what does  
13 it break down into? Total pending cases as of  
14 the beginning of this month were about -- a  
15 little bit over 1,500 cases. And you'll see,  
16 for instance, we do support some of the  
17 Department of Justice compensation cases, but  
18 they don't request a dose reconstruction. As  
19 of now it's simply presumptive dose, the  
20 presumptive awards. If you were at this  
21 particular location, then you qualify for  
22 compensation. You don't need a dose  
23 reconstruction. Consequently, those cases come  
24 in quickly, we turn them around quickly. You  
25 can see there's only ten cases, and they've

1           only been there for a short period of time.  
2           Similarly, people can come directly to us. You  
3           don't have to go to the Department of Veterans  
4           Affairs or Department of Justice. You can ask  
5           us directly to do information for you. And for  
6           instance, some of the queries that came in  
7           today, hopefully we'll be able to respond to  
8           those questions you've had.

9           Also the VA comes to us simply for cancers that  
10          are listed as presumptive, and in those cases -  
11          - you can see there are about 38 of those --  
12          once again we turn those around very quickly.  
13          The challenge truly comes into supporting VA  
14          cases that are non-presumptive, which require a  
15          radiation dose reconstruction. And what has  
16          been happening is that -- those values haven't  
17          come down as quickly as we'd like. But the  
18          original cases that came in for rework we are  
19          diminishing, but the other newer cases are  
20          building up at the same time. And as we look  
21          at this backlog, we have to look at a number of  
22          things, but one of our great concerns are the  
23          oldest cases, getting those done in a timely  
24          manner for our veterans.

25          The cases now are primarily for two cancers.

1 Most of the other cancers that have been  
2 associated as radiogenic disease, and the VA  
3 has defined them as that way, and consequently  
4 it's primarily only two cancers we work on for  
5 dose reconstruction. As you can see, they're  
6 primarily skin and prostate.

7 What I'd like to move on to now is the analysis  
8 of prostate dose rework cases we've had since  
9 they -- the ones that were sent back to us  
10 after the National Academy of Science study.  
11 Since that *Green Book* was published we've  
12 completed 78 prostate dose reconstruction  
13 cases, and in no case did a re-evaluation  
14 result in a significant change to the prostate  
15 dose. All of these doses -- when we report a  
16 dose, we report it within what we call a 95  
17 percent upper bound, and that's per the  
18 definition in the Code of Federal Regulations -  
19 - were significantly less than the probability  
20 of causation dose threshold at the 99 percent  
21 credibility limit. We were discussing some of  
22 these concepts earlier today. And that is the  
23 limits there that are used in the VA making  
24 non-presumptive compensation determinations.  
25 It would -- it would appear that none of those

1 cases, those 78 cases, ended up in compensating  
2 any of the veterans -- the ones we reworked.  
3 It's not totally surprising on those results.  
4 Even in *The Green Book* the committee that  
5 worked it commented that on those cases that  
6 would be sent back to us it probably would not  
7 change the results. The one caveat they added  
8 there was skin cancers might -- might change.  
9 In fact, I think I'll show you some evidence  
10 where in fact we have seen some changes in skin  
11 cancer claims.  
12 I'd like to present the actual raw -- the  
13 summarized data to you for what happened when  
14 we've analyzed the data that's come back on  
15 these reworks. But first I'd like to show you  
16 just a break-out -- not the total picture --  
17 and the break-out is all non-Hiroshima and  
18 Nagasaki cases. The reason I'm showing just  
19 this specific picture to you first was in the  
20 earlier days, before *The Green Book*, when we  
21 reported Hiroshima and Nagasaki cases, we  
22 simply sometimes -- simply reported the upper  
23 bound, and so we didn't have average values in  
24 pre-2003. But I think it's important to take a  
25 look at what were the results in pre-2003 and

1           what were they in post-2003. And you can see  
2           the average value for these non-Hiroshima and  
3           Nagasaki cases in pre-2003 on the average was  
4           0.52 rem. And when we recalculated them, it  
5           only went up a little bit to 0.59. In fact,  
6           the largest value of any of the cases, when you  
7           looked at the extreme large value, was 4.1 rem.  
8           When we recalculated it, it stayed at 4.1 rem.  
9           What's more important than the average value,  
10          though, is the 95 percent upper bound, because  
11          that's what the VA plugs in when they do their  
12          probability of causation calculation. And  
13          there we see it went from 0.91 to 1.37. The  
14          largest value that we reported pre-2003 was 5.9  
15          rem, and when we recalculated that, the  
16          external component of that was 8 rem and the  
17          internal component was roughly 1 rem; it grew  
18          to 9 rem. That was the highest value we saw.  
19          But to put that in perspective, what the VA  
20          looks at is the probability of causation at the  
21          99 percent credibility limit. And referencing  
22          the value that's published in *The Green Book*,  
23          exposure at 20 years and a diagnosis at 60  
24          years, that value would have been 33 rem.  
25          And so what you have is a situation of the --

1           the VA has values here, DTRA's reporting value  
2           is here.  If the DTRA values don't exceed that,  
3           the veteran -- the claim is not considered a  
4           successful claim and will not end up compens--  
5           no compensation will occur.

6           If we look at the data that includes the  
7           Hiroshima and Nagasaki cases, what happens is  
8           the overall average actually decreases because  
9           it turns out most Hiroshima and Nagasaki cases,  
10          as we've heard today, the veterans went in  
11          after the bombs exploded.  There was no initial  
12          radiation exposure to them, and most of the  
13          exposure came from walking through fallout that  
14          had already contaminated the earth, and then  
15          some resuspension effects.  Not in all case,  
16          but in most cases the Hiroshima and Nagasaki  
17          doses were less than some of the other tests  
18          that we saw later on.

19          But the bottom line is here, for all 78 cases  
20          that we've looked at, none of them came  
21          significantly close to reaching the dose  
22          threshold that the VA needs to reach to  
23          actually have a successful claim and then do  
24          compensation.

25          And so we need to look at those values

1           realistically for both -- from a veteran's  
2           perspective and from the government's  
3           perspective. Dose reconstruction is expensive  
4           when we do these procedures. I sometimes  
5           describe some of the cases we do as comparable  
6           to a master's thesis. The approximate cost to  
7           perform a post-NAS 2003 prostate dose  
8           reconstruction is around \$9,000. We, right as  
9           of now, have outstanding 128 prostate dose  
10          reworks we have not gotten to. And if we  
11          multiply that value of \$9,000 times 128  
12          outstanding cases, that's over \$1 million worth  
13          of outstanding work.  
14          But what's more important here is that this is  
15          an expensive process that's of no benefit to  
16          the veteran. Bad news doesn't get better with  
17          age. And yes, we could continue doing these  
18          cases. But if it's not going to help the  
19          veteran, what purpose does that serve? It's  
20          simply not useful for the veteran and it's not  
21          useful for the government to continue this.  
22          And so DTRA's planned course of action, though  
23          we'd like to have input from the Board -- and  
24          in fact, I presented this raw data to  
25          Subcommittee 1 on the dose reconstruction



1           subcommittee so they could take a look at it,  
2           also -- is to immediately discontinue and  
3           minimize our outstanding prostate dose reworks.  
4           And I'd like to tell you how we plan on doing  
5           that, dependent upon input we receive from the  
6           Board here.

7           The DTRA/NTPR office that I serve as the  
8           program manager is prepared to review those 128  
9           remaining prostate dose reworks for any unusual  
10          circumstances. There are cases in -- when we  
11          look at them, for instance, sometimes on blast  
12          wave resuspension cases where -- they are  
13          unusual, and those cases still should be worked  
14          out fully. So what we will do is we will pull  
15          those 128 cases and we will go through them one  
16          by one, looking for -- there's a group of -- a  
17          technical group reviewing them to see if we can  
18          find anything that might cause a significant  
19          dose increase. If we don't find any unusual  
20          circumstances, the NTPR program is prepared to  
21          -- to generate correspondence for the VA, with  
22          a copy to the veteran, stating that DTRA stands  
23          by its previous prostate dose estimate, but  
24          will provide revised upper bound estimates as  
25          defined in our policy and guidance manual if

1           this works to the veteran's favor.  
2           What are those revised upper bound estimates  
3           I'm talking about? In response to *The Green*  
4           *Book*, the NTPR released interim guidance on 16  
5           July 2003 that included upper bound estimating.  
6           This has been added to our policy and guidance  
7           manual recently. What we do is when we  
8           calculate an average dose, we say what is the  
9           95 percent upper bound? We want to be -- we  
10          want to be conservative in that estimate, and  
11          we apply a factor of three. So for instance,  
12          if we calculate one rem as the avera-- as the  
13          organ dose, we would then calculate the 95  
14          percent upper bound as three rem, if it was  
15          based on external gamma.  
16          Similarly, we apply a factor of six times for  
17          external neutron doses, and a factor of ten  
18          times to the internal dose estimate for certain  
19          (unintelligible) -- most scenarios, with the  
20          exceptions of some extenuating ones that we  
21          have to do a full uncertainty analysis on.  
22          Moving on to skin dose, the rework results here  
23          are different than what we've seen for the  
24          prostates. We've completed 349 skin dose  
25          reconstruction reworks since *The Green Book*.

1           Some of these reworks actually exceeded the  
2           probability of causation dose threshold used by  
3           the VA in making non-presumptive compensation  
4           determinations. And to date, the possibility  
5           of a rework -- and this is the one disease, the  
6           one radiogenic disease that we review actually  
7           that depends upon skin color. There's a  
8           different dose threshold whether you have black  
9           skin or white skin, for instance.

10          But if we take -- in the case of when we look  
11          at these values, people with black skin  
12          actually have lower dose thresholds for skin  
13          cancer. And so if we use those values, which  
14          would be the more favorable values to the  
15          veteran, what we would see is the -- that  
16          approximately 11 percent of the basal cell  
17          carcinoma cases we've done would -- would have  
18          the possibility of receiving compensation,  
19          three percent of the squamous cell carcinomas,  
20          and zero percent of the melanomas we've seen so  
21          far.

22          Once again here's the raw -- here's a summary  
23          of the raw data when we analyzed it. In this  
24          case it's a little more complicated than the  
25          prostate dose. Instead of two columns, now we

1           have six columns. And that's because skin  
2           cancer -- when we look at the values -- is  
3           actually broken into three components. One is  
4           -- that we've heard about today, is basal cell  
5           carcinoma. Second one is the squamous cell  
6           carcinoma. And then the third one, the  
7           melanoma one that's more dangerous because it's  
8           more frequently fatal, we see less cases. In  
9           fact, when you look at the frequency of this  
10          disease, the majority of cases in this country  
11          are basal cell carcinomas. They go up to like  
12          90 percent of the cases.

13          What we saw, once again for -- looking at non-  
14          Hiroshima and Nagasaki cases where we had both  
15          the pre and the post-2003 values are that the  
16          average values have increased more here. But  
17          even more -- more of an increase has been with  
18          the upper bound 95 percent values. And what's  
19          driving here is actually the uncertainty. It's  
20          harder to measure the beta dose that comes in  
21          this particular measurement, and so that --  
22          that raises our uncertainty values and brings  
23          them closer to the dose thresholds that the VA  
24          uses.

25          And in fact, I've highlighted the three cases

1           once again in green. Those -- that's the  
2           important data. When we redid the values from  
3           -- in the case of basal cell carcinoma, the  
4           highest value we saw pre-2003 was simply 18  
5           rem. Now the highest value is 372 rem. And if  
6           you compare that to a PC at 99 percent, there  
7           it's either 4 rem if you have black skin, or  
8           ten rem if you have white skin. It greatly  
9           exceeds, in that one particular case which is  
10          the highest case, the PC value. And that would  
11          lead to a successful claim for a veteran.  
12          Similarly for squamous cell carcinomas, there  
13          was at least one case where -- there was more  
14          than one, but just a few cases where it  
15          actually exceeded the PC at 99 percent.  
16          But in the case of melanomas where we only had  
17          five cases from pre-Hiroshima and Naga-- non-  
18          Hiroshima and Nagasaki cases, none of those  
19          exceeded the PC value upon recalculation.  
20          And when we throw -- when we add all the  
21          Hiroshima and Nagasaki cases in there, since  
22          the doses were lower in general there, once  
23          again it didn't affect any of the values in the  
24          green areas there. There's still -- those  
25          values -- the highest values came from non-

1 Hiroshima and Nagasaki cases.

2 And so the conclusion that I believe is valid  
3 to draw from this is that although skin dose  
4 reworks are expensive to perform, due to the  
5 uncertainty associated with beta dosimetry it  
6 is possible that a rework can result in a VA  
7 non-presumptive compensation award. And then I  
8 -- I feel it's appropriate, therefore, to  
9 continue to perform these skin dose rework  
10 cases.

11 I'd like to move on to quality assurance over  
12 the last year, in 2005, what we've been doing.  
13 One item was we achieved certification through  
14 our integrated product team at the NTPR -- team  
15 for ISO certification in 2005. That's valid  
16 for three years.

17 We also carried on continuous independent  
18 technical reviews of our dose reconstruction  
19 process and technical basis documents performed  
20 by a group at SENES Oak Ridge, reviewing what  
21 we do in general for the validity of it.

22 And finally the VBDR has been busy with us on  
23 arriving at our facilities, reviewing our data.  
24 The DTRA/NTPR program has hosted, since the  
25 last meeting in Tampa, Florida, reviews by

1            Subcommittee 1, the dose reconstruction;  
2            Subcommittee 3, the quality management group;  
3            and we've provided input to Subcommittee 4, the  
4            communications group.

5            Quality assurance most recently, just here in  
6            2006, is we have also modified our policy and  
7            guidance manual. One reason we have is because  
8            of that backlog that you -- I showed to you  
9            earlier, we are bringing on new groups of  
10           physicist and engineers to help us reduce that  
11           through multiple contract teams. When you  
12           bring on multiple teams you need to ensure your  
13           guidance is even clearer than if you just had  
14           one team. And so we're revising our policy and  
15           guidance manual to clarify our policies for  
16           multiple teams to help us reduce that backlog.  
17           We also envision, by bringing multiple teams  
18           in, that increased competition will eventually  
19           accelerate the NTP backlog reduction. And  
20           also, to some extent there's -- though there's  
21           competing things, hopefully reduce that very  
22           expensive \$9,000 per dose reconstruction.  
23           However, it is critical for us when we bring on  
24           multiple teams to ensure that we have  
25           consistent work output across all of the teams.

1           What about veteran communication activity over  
2           the last calendar year, in 2005? This was an  
3           area that in *The Green Book* was critical of the  
4           Department of Defense's program. We weren't  
5           communicating appropriately with our veterans,  
6           they felt. We could do more of that. In fact,  
7           after *The Green Book* came out we instituted new  
8           procedures. One of them was what I showed here  
9           at the bottom of the slide, this Scenario of  
10          Participation and Radiation Exposure, or SPARE.  
11          We try now in our dose reconstruction cases to  
12          spend more time on the phone, more time with  
13          the letters, talking to veterans, trying to  
14          understand -- to a much greater extent -- what  
15          -- what they were doing, where they were during  
16          the atomic tests and the scenarios. And in  
17          fact, during 2005 we did -- over 3,700 phone  
18          calls were made and we -- we brought on line  
19          specifically just one person just to be calling  
20          the atomic -- our -- our customers to -- with  
21          regards to that, 20 percent of those more than  
22          1,100 phone calls he made in 2005 were for  
23          administrative information, 30 percent were  
24          initial follow-up calls, 50 percent were on  
25          these SPAREs, these scenarios of participation



1           and radiation exposure.

2           We also finalized more than 500 individual

3           veteran SPAREs in 2005. In finalizing this

4           procedure -- we get input from the veteran, we

5           do research, we look at a lot of records.

6           We'll write up what we feel is his -- is this

7           veteran's participation. Then we send it for

8           the veteran for a final quality check.

9           Approximately 70 percent of those veterans

10          responded in less than 30 days. Another 20

11          percent of those veterans took up to 60 days.

12          And of the SPAREs we sent out to the veterans,

13          over 88 percent of the veterans agreed with the

14          SPAREs. Approximately 12 percent of the time

15          they had extra comments or they disagreed with

16          it, and hopefully we could pull those comments

17          in to reflect -- giving the benefit of the

18          doubt to the veteran -- what they were exposed

19          to, where they were at the time of the blasts.

20          What feedback did we get from the veterans

21          during these contact calls? Well, in fact,

22          this has been one of the positive areas in our

23          program. Veteran said that the initial

24          information -- for instance, this -- these are

25          quotes -- that he received from operation fact

1 sheets and questionnaires were very helpful.  
2 One veteran's widow appreciated the SPARE. It  
3 was the first time anyone had given her such  
4 detail of what her husband had done. She  
5 appreciated talking to an individual, not an  
6 automated system.

7 One veteran was surprised by all the details in  
8 the SPARE, many of which he'd forgotten.  
9 And finally, one veteran said he appreciated  
10 the contact call to make sure he had received  
11 his SPARE.

12 What is the road ahead for this program? Well,  
13 our number one priority continues to be serving  
14 the veterans. At the next VBDR meeting I need  
15 to report back to the Board what the status is  
16 of an applicable item that was what we call the  
17 Department of Defense/Department of Veterans  
18 Affairs 90-day report back to Congress that was  
19 mandated by public law. We said we had a  
20 program to get well within about two years.  
21 With a number of -- in a number of months, by  
22 the time we have the next Board meeting, we'll  
23 be reaching that two-year period. I need to  
24 report back with formal results where we are.  
25 And finally, I do look forward always to the

1 Board's input and assistance in approving the  
2 Department of Defense's NTPR program.

3 **VICE ADMIRAL ZIMBLE:** Thank you very much, Dr.  
4 Blake. That was very, very informative and I  
5 appreciate the update on where you are in the  
6 process.

7 **BOARD MEMBERS QUESTIONS AND DISCUSSION**

8 **VICE ADMIRAL ZIMBLE:** I -- I have one question.  
9 I -- first of all, I think your logic for the -  
10 - for -- for modifying the prostate dose  
11 reconstructions is unassailable. It's -- it's  
12 very logical and -- and at -- at the conclu--  
13 at -- before we conclude this meeting today  
14 we'll -- we'll -- I'll ask for a -- for a  
15 consensus vote from the -- from the Board.  
16 But I do have a question. It looks like you  
17 could apply that same logic to the squamous  
18 cell carcinoma, although you can't -- you can't  
19 do it for the basal cell. And -- and what I  
20 heard earlier this morning suggests that you  
21 may not be able to do it for melanoma. But for  
22 the squamous cell, it seems that you might be  
23 able to do that by exception, as well, when you  
24 have a -- a SPARE that would be suggestive of a  
25 significantly higher dose. So I would ask you

1 if you would be willing to consider making the  
2 same modification you're going to make for  
3 prostate for squamous cell carcinoma.

4 **DR. BLAKE:** What I'd like to do, Admiral, is  
5 take that for consideration --

6 **VICE ADMIRAL ZIMBLE:** Okay.

7 **DR. BLAKE:** -- and get back with you on that.  
8 The only thing I would mention for the squamous  
9 cell cases is that there's -- there's not as  
10 many of them.

11 **VICE ADMIRAL ZIMBLE:** Right.

12 **DR. BLAKE:** And it may not have quite as big an  
13 impact, but it's certainly something that we  
14 should look into and follow up, and we'll take  
15 that for action, sir.

16 **VICE ADMIRAL ZIMBLE:** Right, okay. Thank you  
17 very much.

18 I would ask -- I don't see any -- any Board  
19 members have any comments or questions? Yes,  
20 sir.

21 **UNIDENTIFIED:** (Off microphone)

22 (Unintelligible)

23 **VICE ADMIRAL ZIMBLE:** Okay.

24 **UNIDENTIFIED:** (Off microphone)

25 (Unintelligible)

1 (Whereupon, a number of the Board members  
2 simultaneously requested the speaker use the  
3 microphone as he was otherwise unintelligible.)

4 **VICE ADMIRAL ZIMBLE:** And if you could excuse  
5 me just for a minute, please -- Dr. Vaughan, I  
6 understand you're back on line?

7 **DR. VAUGHAN:** Yes, I've been on line, yes.

8 **VICE ADMIRAL ZIMBLE:** Okay, good. We  
9 appreciate hear -- getting some input from your  
10 -- from your dog that was --

11 **DR. VAUGHAN:** Oh, a neighbor's dog.

12 **VICE ADMIRAL ZIMBLE:** (Off microphone)  
13 (Unintelligible) welcome you back and  
14 (unintelligible) understand you had some  
15 comments you wanted to (unintelligible) -- (on  
16 microphone) I understand you have some  
17 comments. Do you want to make those comments  
18 now?

19 **DR. VAUGHAN:** I have comments. You were  
20 talking to me?

21 **VICE ADMIRAL ZIMBLE:** Yes.

22 **DR. VAUGHAN:** It was about a larger issue --

23 **VICE ADMIRAL ZIMBLE:** Okay.

24 **DR. VAUGHAN:** -- and just some of the  
25 potentially controversial suggestions that have

1           been made.

2           **VICE ADMIRAL ZIMBLE:** Okay. If you don't mind,  
3 we can hold off on your comments until the  
4 conclusion of these two presentations, the one  
5 --

6           **DR. VAUGHAN:** That's okay.

7           **VICE ADMIRAL ZIMBLE:** -- Dr. Blake's and the  
8 subsequent presentation from Mr. Pamperin.

9           **DR. VAUGHAN:** Okay.

10          **VICE ADMIRAL ZIMBLE:** Okay. Now we do have a  
11 question from the floor. Go ahead.

12          **MR. CONTRERAS:** Dr. Blake -- again, Carlos  
13 Contreras -- how do you, sir -- of course we've  
14 been getting letters from you directly, you  
15 know, on dose reconstructions so we know your  
16 name pretty well. Now in the conclusion of  
17 your dose estimate on veterans, that -- for  
18 ships, none of the personnel had dose --  
19 dosimeters. Okay? Badges. And some of us  
20 were issued a -- dose meters. They carried  
21 them in a cigar box. They gave them out to the  
22 personnel. When they collect them, put them  
23 back in the cigar box. We have a ship that has  
24 a wash-down. You have personnel that gets  
25 sick. Then the government states that you all

1           went in to get X-rays and you were given a  
2           physical, which is not so. And what happens to  
3           a person like myself that soon as I get out of  
4           the Navy I get married, then I end up in the  
5           hospital and I lose 42 pounds. They can't find  
6           what's wrong with me. And then I have severe  
7           arthritis, my kids have severe arthritis and  
8           they lose their hair. So -- and even now the  
9           hospital, I get to where -- a point where I  
10          would walk and then I'd lock up with a lot of  
11          pain. Then I come up with -- I don't know how  
12          long I had prostate cancer, but prostate  
13          cancer, they say okay, you didn't have enough  
14          dosage. In my conclusion, I was only --  
15          probably about two and a half miles from ground  
16          zero, so I don't understand where the dose  
17          comes to for all these veterans. I mean, to  
18          me, it's -- it's not -- they're trying to make  
19          it scientific. It's not scientific because how  
20          can you reconstruct the dosage from a veteran  
21          that you don't have data on, only what he  
22          reports?

23          **VICE ADMIRAL ZIMBLE:** Okay. Let me -- let me  
24          just try to clarify some -- some issues. I'm  
25          not sure I'm going to make you happy, but there

1           are a lot of people that have prostate cancer.  
2           As a matter of fact, almost every male, as they  
3           age, will develop prostate cancer --

4           **MR. CONTRERAS:** Excuse me, sir --

5           **VICE ADMIRAL ZIMBLE:** Let me finish, please.

6           **MR. CONTRERAS:** -- I asked the question --

7           **VICE ADMIRAL ZIMBLE:** Okay.

8           **MR. CONTRERAS:** -- from --

9           **VICE ADMIRAL ZIMBLE:** I understand. His  
10          expertise is -- is in dose reconstruction and  
11          in radiation. But I just want to address a  
12          larger issue for the -- for the sake of the  
13          audience. And that is that there are many  
14          people who have never been exposed to any  
15          excessive ionizing radiation that have  
16          developed cancers. We can't always decide  
17          whether or not there was a cause that was  
18          related to ionizing radiation. So we use the  
19          scientific method, and the scientific method  
20          which gives you 50 percent probable cause, and  
21          then we extend that -- we give you every  
22          benefit of the doubt. We overestimate the  
23          doses that we can calculate, based upon many  
24          good, solid facts. But we'll never -- never,  
25          in some cases -- achieve a dose that's going to



1           be -- that's going to meet your requirements.  
2           It just isn't going to happen. It wasn't  
3           there.

4           The answer is to do something other than dose  
5           reconstruction for consideration for other  
6           types of -- of situations, such as the 21  
7           presumptive cancers. Now -- but we have -- by  
8           law, we have no choice but to look at every  
9           condition, try to decide whether or not there's  
10          a potential for radiation to have been a causal  
11          factor, and then try to decide whether or not  
12          it's a -- it's over 50 percent -- or 50 percent  
13          or above probability that the -- that the  
14          condition was due to radiation. That's the law  
15          that we have to live with. And that -- we'll  
16          look for ways to make recommendations to  
17          policy-makers, to the agencies for things that  
18          may expedite and benefit the veterans. But I  
19          don't think you're ever going to get the answer  
20          that you want to hear when it comes to prostate  
21          cancer and when it comes to some of the other  
22          non-presumptive conditions.

23          **MR. CONTRERAS:** I -- I understand that. We  
24          have --

25          **VICE ADMIRAL ZIMBLE:** Right.

1           **MR. CONTRERAS:** -- never had an answer, sir.

2           **VICE ADMIRAL ZIMBLE:** Right. Okay.

3           **MR. CONTRERAS:** We're still waiting for the  
4 answer.

5           **VICE ADMIRAL ZIMBLE:** Okay. And that's the one  
6 thing we can do is try to expedite getting a  
7 claim -- getting a claim processed and back.  
8 That's exactly what -- what Dr. Blake wants to  
9 do is expedite the process of -- of getting  
10 claims back. It shouldn't take two or three  
11 years. It just shouldn't.

12          **MR. CONTRERAS:** Okay. Now you've answered my  
13 question as far as like -- or close to -- in  
14 other words, you answered me. Right?

15          **VICE ADMIRAL ZIMBLE:** Okay.

16          **MR. CONTRERAS:** But I'm asking Dr. --

17          **VICE ADMIRAL ZIMBLE:** Okay, all right.

18          **MR. CONTRERAS:** -- Blake the question.

19          **VICE ADMIRAL ZIMBLE:** Okay.

20          **DR. BLAKE:** Admiral, I'll take over for a  
21 second. Ideally we do have film badge data,  
22 but that doesn't help in a lot of cases. And  
23 probably in your case, sir, we may not have had  
24 film badge data to start off with. But we do  
25 have other empirical data.

1           During these tests, for instance, we had  
2           radiation monitors that went around with, as  
3           some people mentioned, Geiger-Mueller tubes and  
4           measured data. We also had stations that  
5           collected and measured radioactive fallout. We  
6           had planes that flew through and measured it,  
7           too. We also had measurements when they were  
8           actually -- from these weapons where they  
9           measured what they called the source terms.  
10          They took pictures -- for instance, they could  
11          determine what the kilotonnage or megatonnage -  
12          - for instance, there was two or three methods  
13          of determining that. So we do have a number of  
14          parameters of -- that measured and gave us a  
15          concept of what type of radiation exposure  
16          people received.  
17          But there's still a number of assumptions that  
18          go into it, and there's -- there's no getting  
19          away from that, and that's accom-- there's  
20          uncertainty associated with our best  
21          measurements. And so when we report that value  
22          to the Department of Veterans Affairs, that's  
23          why it's called the dose reconstruction,  
24          there's always going to be a plus or minus with  
25          it. And some types of measurements we make

1           that we report -- some values that we report to  
2           the VA have much bigger plus or minus values  
3           associated with them.

4           **MR. CONTRERAS:** Thank you.

5           **DR. BLAKE:** You're welcome, sir.

6           **VICE ADMIRAL ZIMBLE:** Yes, Dr. (sic) Beck --  
7           Dr. Beck.

8           **MR. BECK:** I just wanted to point out that Dr.  
9           Blake did present his arguments to Subcommittee  
10          1, and we're going to report on it tomorrow so  
11          you might want to wait till tomorrow for the  
12          Board to consider this after we tell you what  
13          our conclusions were.

14          **VICE ADMIRAL ZIMBLE:** Okay. I can go along  
15          with waiting until tomorrow, but I did promise  
16          Dr. Blake that we would give him something  
17          timely. Tomorrow is timely enough, I'm sure,  
18          for Dr. Blake. Thank you.  
19          Okay. Dr. Boice.

20          **DR. BOICE:** Paul, I just had a question on the  
21          workload of new non-presumptive cases that come  
22          to you each month for prostates and skin  
23          cancer. I was just curious on the number. Is  
24          it tens each month or hundreds each month?

25          **DR. BLAKE:** No, it's on the order of about --

1           it goes up and down, but on the order of about  
2           30 non-presumptive cases coming in per month.

3           **DR. BOICE:** And then a follow-up question --  
4           oh.

5           **DR. BLAKE:** If I could, the values are actually  
6           slightly higher, but some end up going back to  
7           the VA, so it's truly more like 30 effective  
8           cases coming in per month.

9           **DR. BOICE:** And then do you see the presumptive  
10          ones at all? Do we have a comparable number of  
11          knowing each month how many presumptive claims  
12          come in?

13          **DR. BLAKE:** We do, and I can provide a break-  
14          out for you that would perhaps give you the  
15          details. But once again, we turn around the  
16          presumptive cases much quick, and so they --  
17          they don't reside in my -- my group for those  
18          long periods of time. They -- hopefully we can  
19          turn those around in a period of, at most, a  
20          few months.

21          What we end up doing for the presumptive cases  
22          and the non-presumptive cases is the first step  
23          is we try to verify that the veteran was  
24          actually at that test. And the military kept  
25          excellent records back then, so we go to places

1           like the National Personal Records Center where  
2           as veterans our -- our service record and our  
3           medical record would retire to, though there  
4           are some problems there. Some Army records did  
5           burn up. But we go to a lot of the other  
6           facilities, such as the National Archives. A  
7           number of places that our veterans in our  
8           population mentioned today include like the  
9           Navy Archives, the Marine Archives, the Air  
10          Force/Army Archives. We really do an extensive  
11          search for veterans' records and I believe  
12          we're -- we're very successful in many cases in  
13          getting that data. I think that's one of the  
14          better parts of the program that we actually  
15          support.

16          **VICE ADMIRAL ZIMBLE:** Okay. You -- you would  
17          like to make a comment?

18          **DR. KOCHER:** Yes, my name is David Kocher from  
19          SENES Oak Ridge. Because of the imminent  
20          discussion about the prostate cancer situation  
21          and Dr. Blake's proposal, I think the committee  
22          should be aware of that this famous 33rem  
23          number is not right. We had apparently a  
24          quality assurance problem on the Academy  
25          committee. For age at exposure of 20 and time

1           since exp-- age at diagnosis of 60, the number  
2           is closer to 65 or 70. If you are 18 years old  
3           at time of exposure, it's more like 55 to 60.  
4           All the other numbers in that table are  
5           correct, but the number for prostate cancer for  
6           IREP turned out to be wrong, for whatever  
7           reason. And in fact this bolsters your  
8           argument because it widens the margin between  
9           actual doses and what it takes to get  
10          compensated. But I think you should be aware  
11          that 33 rem is not the right number.

12          **VICE ADMIRAL ZIMBLE:** Okay. Thank you very  
13          much.

14          **DR. BLAKE:** I would point out that Dr. Kocher  
15          has made most of those calculations for us over  
16          the periods of time. The reason I referenced  
17          the 33 rem value is that's what's actually  
18          reported in the National Academy of Science  
19          study. But as he pointed out, even if that  
20          value is wrong, it went in the direction that  
21          made the argument even better. You can look at  
22          other ages besides being irradiated at 20 and  
23          developing at 60. And even in the most  
24          extenuating circumstances, the lowest value  
25          that's been calculated has been 21 rem, which

1 still is -- is much greater than the doses we  
2 actually see. So the -- the data, as Dr.  
3 Kocher points out, even greater supports what's  
4 there. But I wanted to reference the actual  
5 *Green Book* as a peer-reviewed publication, and  
6 that's the one reason I quoted that value. It  
7 is a conservative value.

8 **VICE ADMIRAL ZIMBLE:** Okay. Thank you very  
9 much. Dr. (sic) Groves.

10 **MR. GROVES:** Paul, you had been asked the  
11 question by John about the number of  
12 presumptive cases and -- and I just wondered if  
13 you -- I know that you don't have much to do  
14 with them other than the verification piece.  
15 But just as a feel for the number of cases  
16 coming into the system, can you share the  
17 monthly number of the non-- of the presumptive  
18 cases?

19 **DR. BLAKE:** It's still going to be on the order  
20 of what I was quoting there, ten, 20 or 30  
21 cases. I -- I can get exact numbers for the  
22 Board --

23 **MR. GROVES:** No, no, I mean whether -- whether  
24 it's three, 30 or 300 would be my -- my  
25 interest.



1           **DR. BLAKE:** Let's go for 30.

2           **MR. GROVES:** Okay, that just puts it in  
3 perspective. Thank you very much.

4           **VICE ADMIRAL ZIMBLE:** Any further comments?

5                                   (No responses)

6           Okay. Thank you very much -- oops, oops --  
7 yes, sir?

8           **UNIDENTIFIED:** (Off microphone)

9                                   (Unintelligible)

10          **VICE ADMIRAL ZIMBLE:** Dr. Vaughan has got some  
11 general comments that she wants to make at the  
12 end of the session.

13          Okay, let's -- thank you very much, Dr. Blake.  
14 Mr. Pamperin, you're on.

15

**A BRIEFING ON VA RADIATION CLAIMS COMPENSATION PROGRAM  
FOR VETERANS, AND VA QUALITY ASSURANCE MANUALS**

16          **MR. THOMAS PAMPERIN**

17           **MR. PAMPERIN:** Thank you, everyone, and good  
18 afternoon. I've been asked to talk about the  
19 VA's quality assurance program. What I'm going  
20 to present today is the general quality  
21 assurance program that does not speak  
22 specifically to ionizing radiation. At the  
23 back end there is a slide that talks about  
24 issues of ionizing radiation.

1 VA's quality assurance program basically is a  
2 multi-dimensional approach that includes second  
3 and third signature on various kinds of awards,  
4 procedural guidance through both our procedures  
5 manual and our -- which is M21-1 -- and our  
6 management manual that specifically lays out  
7 what a quality assurance program for the entire  
8 administration of CMP benefits is, and with  
9 consultation with the CMP services. When  
10 regional offices have questions, they forward  
11 them to my staff and we provide them with  
12 guidance on specifically what they should do.  
13 Our quality review consists of individual  
14 performance and national accuracy. Individual  
15 performance is conducted at the regional office  
16 level by supervisors or individuals  
17 specifically designated to do quality review.  
18 Typically this will mean that each individual  
19 in the regional office will have probably  
20 between 150 and 200 of their actions reviewed  
21 annually for their performance standards.  
22 At the national level, at central office in  
23 Washington and in a satellite activity in  
24 Nashville, Tennessee, we conduct a  
25 comprehensive quality review of approximately

1           6,000 decisions a year for purposes of  
2           determining quality. This quality level is  
3           sufficient to give an accuracy rate for each  
4           regional office, but it is not sufficient to  
5           give individual performance.  
6           Again, on individual performance we have what  
7           is called second signature. For a variety of  
8           decisions it's necessary for a second person to  
9           take a look at the decision and to concur in  
10          it. Each individual in a regional office, as  
11          part of the performance standards, has a  
12          quality measure. And that is then monitored  
13          through these monthly quality reviews. Should  
14          somebody's quality fall below those numbers,  
15          they are given training. If they persist, they  
16          can be put on an improvement plan. And at the  
17          end stage, if they can't do it, they're put on  
18          100 percent review, which usually results in  
19          bad things for the employee.  
20          And on our national accuracy, six years ago the  
21          Veterans Benefits Administration adopted a  
22          program called STAR, which stands for  
23          Statistical Technical Accuracy Review, and it  
24          is the most rigorous -- as nearly as we can  
25          determine -- quality review program of any

1           benefits delivery system in the country. We  
2           looked at the Department of Labor, OPM, Social  
3           Security, Railroad Retirement and other  
4           agencies that do similar kinds of things to VA.  
5           There is no other agency that looks at as many  
6           actions. In fact, most agencies do not even  
7           look at individual performance. But it is a  
8           very large activity through which the  
9           Compensation and Pension Service dedicates six-  
10          - just over 60 employees annually checking  
11          quality, in addition to the employees at the  
12          local regional office doing it for individual  
13          performance. It is statistically valid at the  
14          station level, but it is insufficient for  
15          specific issues.

16          When we talk about quality review for VA, we  
17          cannot say that our quality is X for a  
18          radiation case, or for back conditions. We are  
19          looking at overall quality rather than specific  
20          issue quality.

21          Now this number is a little disconcerting, but  
22          in 2005 our core decision disability decision  
23          rating accuracy was 85 percent. What does that  
24          mean? When we look at core rating accuracy, we  
25          consider a number of things. We look at the

1           appropriateness of service connection, yes or  
2           no; the appropriateness of the evaluation,  
3           whether it's zero, ten, 30, 100 percent; the  
4           appropriateness of the effective date; and  
5           certain mandatory legal requirements in terms  
6           of development and notifications to veterans.  
7           In 2005 we had a core accuracy rate of 85  
8           percent. Of that 15 percent error rate, three  
9           percent involved errors in payment. The  
10          balance of the errors were things like  
11          notification errors or certain kinds of  
12          development things that, while they're  
13          critically important, do not actually affect  
14          the actual payment. They're more legal  
15          requirements than -- than decision  
16          requirements.

17          We also do specialized reviews. When an issue  
18          comes up -- and these come up every year -- if  
19          a concern is expressed, my staff and the STAR  
20          review staff will conduct a large-scale review  
21          of a particular topic. For example, a number  
22          of years ago as we began to see more and more  
23          female veterans, we did large-scale quality  
24          reviews of female medical issues.

25          We, for example, currently are conducting a

1           number of reviews regarding certain  
2           entitlements that we have with respect to  
3           individual unemployability and some mental  
4           disorders.

5           When we do these, we thoroughly look at the  
6           entire case and develop specific kinds of  
7           recommendations -- what was wrong-- our reviews  
8           in those areas, we tend not to -- to change  
9           decisions if they were favorable for veterans,  
10          only if they've been unfavorable, but to  
11          collect information for better training.  
12          We have also put a major effort into looking at  
13          the consistency of our decisions across  
14          regional offices. There has been some  
15          criticism and some belief that you don't get  
16          the same answer in every regional office. We  
17          have looked into that. There've been a number  
18          of newspaper articles about that. And we have  
19          developed an ongoing process now to look at  
20          consistency.

21          What we have discovered so far in that  
22          examination is that actually it appears we are  
23          fairly consistent. But when -- when we do  
24          these studies, we -- we take cases that  
25          decision-makers have made, and have two other

1 people look at them without seeing the rating  
2 to see if they come up with the same decision  
3 or one that's reasonably close.

4 The problem that we find is that when -- when  
5 second and third reviewers disagree with an  
6 original decision, the reasons for the  
7 disagreement tend to be very varied; that the  
8 second and third reviewers frequently don't  
9 identify the same issues as being why the  
10 decision was wrong. And then we'll bring in a  
11 fourth reviewer who will usually end up saying  
12 that both of the objections were correct, you  
13 know, that there was something wrong. When  
14 we've asked VA's -- Veterans Health  
15 Administration's research arm to take a look at  
16 this, their reaction to it is that it just --  
17 it speaks to the level of complexity and the  
18 number of different issues that are involved in  
19 the evaluation of every -- every case.

20 The problem of course is that at the present  
21 time our initial studies, while they point to  
22 when there's disagreement that there are  
23 multiple reasons for disagreement, we haven't  
24 yet done enough of these to identify all of the  
25 possible variations. But we are looking very

1           closely and have established a consistency  
2           program to look at at least one major body  
3           system or one major topic every year. Given  
4           the resources we have, we can't really do more  
5           than one since these are fairly intensive looks  
6           where we will look at anywhere from 1,000 to  
7           1,500 cases to try and identify what is going  
8           on.

9           What are the issues in quality management, the  
10          issues that go into making a 15 percent error  
11          rate? Our local compliance with the Veterans  
12          Claims Assistance Act, which is an Act that  
13          requires that we give specific information to  
14          veterans about what kind of information they're  
15          expected to provide, what we will get, and  
16          basically a broad basic understanding to the  
17          veteran of what is necessary to establish  
18          service connection. When we have deficiencies  
19          in veteran's claims assistance, it is usually  
20          in that the letters that go out leave out one  
21          of the conditions that the veteran might claim.  
22          We find today that -- to put this into  
23          perspective, this year we will do about 825,000  
24          disability determinations. Of those, about  
25          200,000 will be original compensation claims.



1 About 100,000 of those will be from veterans  
2 coming off active duty this year, and the other  
3 100,000 will come from people who are multiple  
4 years post-service. We to this day continue to  
5 deal with initial compensation claims from  
6 veterans from World War I (sic) and Korea and  
7 Vietnam, and the original claims for --  
8 particularly for people coming off active duty  
9 today, 18 percent of all of the original claims  
10 we deal with, are cases where the veteran has  
11 claimed eight or more disabilities.  
12 When people are claiming that many  
13 disabilities, it is difficult to make sure that  
14 every single disability is claimed in the  
15 veteran's -- or recited in the veteran's -- in  
16 the VCAA notice and that in fact that they're  
17 all decided. It is a problem that we are  
18 dealing with, trying to track to make sure that  
19 every single condition does get covered. But  
20 the complexity of claims is getting much higher  
21 these days.  
22 Again, consistency in decision-making. There  
23 have been a series of newspaper articles and a  
24 -- an IG audit as a result of them that point  
25 to the fact that if you live in the six states

1           that we -- we publish what the average annual  
2           compensation rate is in every state, and the  
3           difference between the top six states and the  
4           bottom six states in terms of dollar value is  
5           about \$5,500, which is a pretty substantial  
6           difference.

7           We've looked into that and we've found a number  
8           of reasons for it. And for those of you who  
9           are veterans in the audience who have active  
10          claims, I will tell you that one of the things  
11          that we have found and that the IG has  
12          calculated is that veterans who pursue claims  
13          on their own, without the assistance of a  
14          service officer or of some other professional,  
15          will on average receive a disability evaluation  
16          that's about \$1,200 a year less than somebody  
17          who's represented.

18          Also if you're an older veteran. World War II  
19          veterans tend to have -- not to have gotten an  
20          initial evaluation and not come back. If  
21          you're a military retiree, you tend to get  
22          higher compensation than if you're not. I  
23          think that can be easily explained by the fact  
24          that military retirees have more service-  
25          connected disabilities than somebody who was in

1           for two years.

2           Other quality issues, and one that speaks

3           directly to radiation, is proper and timely

4           development. As Dr. Blake indicated, we get

5           about 30 non-presumptive -- or presumptive dis-

6           - non-presumptive disabilities a month, and

7           they get a number of presumptive participation

8           cases. But they also get a number of

9           participation -- of presumptive disabilities

10          where we've asked for reconstructed dose. The

11          issue with ionizing radiation is that the

12          population is so small that individual rating

13          specialists -- we have about 1,200 rating

14          specialists in our system and we handle about

15          600 radiation cases a year, generally. So the

16          chance of an individual rating specialist

17          actually even seeing a radiation case is only

18          about one in every two years. There is -- I

19          think it is fair to say -- a problem in that

20          initial development of radiation cases because

21          people aren't familiar with it, it takes them a

22          long time to do that, and I think this Board

23          has been talking about how that can be

24          addressed. But the initial development of

25          radiation cases is a problem for VA.

1           The ultimate decision from a VBA perspective is  
2           not. Once the development is accomplished, if  
3           -- if it's a presumptive disability and  
4           participation can be demonstrated, the ratings  
5           are very, very straightforward. I am unaware  
6           of any case where we have denied a presumptive  
7           condition.

8           On the other hand, if they are ones that  
9           require dose estimates, the real decision --  
10          the decision about service connection -- is  
11          actually done by Veterans Health Administration  
12          in that they take the information that is  
13          provided by DTRA, use the IREP model to  
14          determine whether or not the probability of  
15          causation is such as to tip you to it's as  
16          likely as not, and based upon that letter it's  
17          either yes or no. And then we proceed to do  
18          the evaluation. For most radiation cases, what  
19          we're dealing with is active cancers, and  
20          active cancers are 100 percent. So it's --  
21          from a claims processing perspective, it's --  
22          it's fairly difficult to make a mistake in  
23          terms of the actual decision. Where it is  
24          possible and too -- too frequently common to  
25          make a mistake is in the initial development of

1           that case, which drags it on longer.  
2           The issues in radiogenic disease quality are a  
3           lack of volume at the local regional office  
4           level, improper referrals to DTRA, and  
5           extremely lengthy process. The ultimate  
6           decision, though, in radiation decisions are of  
7           high quality, in that while a number of them  
8           get appealed, they are not normally -- and  
9           sometimes they're remanded by the Board of  
10          Veterans Appeals -- they are rarely overturned.  
11          And our reviews, although our national reviews  
12          don't -- I said earlier do not -- cannot  
13          address specific disabilities, I did have  
14          people go through our STAR reviews in the last  
15          two years to see if we had had any radiogenic  
16          diseases, and we had no errors identified at  
17          all in that area.  
18          That basically is VBA's quality assurance  
19          program. It is one that is designed at the  
20          individual performance level for employees and  
21          at the national level. We are not satisfied  
22          with our quality levels at the present time.  
23          We believe our actual ultimate decision-making  
24          is correct, but that in the process of getting  
25          there, there is substantial room for

1 improvement.

2  
3 **BOARD MEMBERS QUESTIONS AND DISCUSSION**

4 **VICE ADMIRAL ZIMBLE:** Thank you very much, Tom.  
5 I appreciate the presentation and I applaud the  
6 VA for taking on the issue of quality assurance  
7 and quality control and quality management.  
8 And the fact that you're doing the measurement  
9 is certainly a terrific step in the right  
10 direction.

11 **MR. PAMPERIN:** I do have -- there were two  
12 questions from the field that -- up on the  
13 floor that were asked that I'd like to address.  
14 One of them is -- expresses a concern that we  
15 heard from a couple of people here about  
16 possible disabilities for dependents as a  
17 result of exposure to radiation. And the  
18 question was how does a dependent of an atomic  
19 veteran submit medical records for review. The  
20 short answer to that is, you don't.  
21 The -- under Title 38 there is only one -- or  
22 actually two groups of children -- of  
23 dependents for whom compensation can be paid  
24 based upon a theory of genetic transmission.  
25 For Vietnam in-country veterans who father or

1           conceive children after their service in  
2           Vietnam and those children develop spina  
3           bifida, there is a specific benefit program for  
4           those children. For the approximately 5,500  
5           women veterans of in-country Vietnam service,  
6           the conception of a child post-Vietnam service  
7           that has a number of other birth defects, those  
8           children can be compensated in a manner similar  
9           to the spina bifida.

10          We currently have -- I believe it is about 350  
11          children getting compensation for spina bifida.  
12          The female veteran population, because it is so  
13          small, they're -- I don't know the exact  
14          number, but the -- the number is less than 20  
15          children are getting benefits through that  
16          program.

17          So there is no capacity under current statute  
18          for VA to handle claims of potential disability  
19          due to exposure of the parent.

20          The second question that was raised was  
21          regarding updating of the IREP model, and Dr.  
22          Land had indicated that no one had asked to  
23          have it updated based upon BEIR VII, and Dr.  
24          Preston indicated that they were going to  
25          suggest that it was. And the question is will

1 the VA ask that it be updated.

2 I'm not in a position to make a comment on  
3 that. That would be a medical decision by our  
4 Veterans Health Administration. I will  
5 certainly bring that back and ask. I would  
6 again point out, however, that as was suggested  
7 earlier, enhancements of IREP based upon BEIR  
8 VII would probably work to the disadvantage of  
9 veterans because of greater experience.

10 **VICE ADMIRAL ZIMBLE:** Okay. Thank you very  
11 much. Wait -- first, Dr. Boice.

12 **DR. BOICE:** Tom, just a clarification on the  
13 benefits. If an atomic veteran died of a  
14 presumptive or -- disease, is it true then that  
15 the wife or the spouse would receive no  
16 compensation?

17 **MR. PAMPERIN:** No, no, I didn't mean to imply  
18 that.

19 **DR. BOICE:** I -- I was clarifying that, so --

20 **MR. PAMPERIN:** Yes, a -- a wife will -- if they  
21 die of a service-connected condition, or even  
22 if they don't, if the veteran was 100 percent  
23 disabled for ten years prior to death, or if  
24 they die within five years of separation from  
25 service and were rated 100 percent entirely



1           during that period of time, or if they were a  
2           POW and were rated for 100 percent for one year  
3           prior to death, their surviving spouse would  
4           get DIC.

5           I will point out that the -- the review that  
6           was mandated by Secretary Principi of about  
7           13,000 cases that result in about 1,200 going  
8           to DTRA did result in a number of both veterans  
9           and widows being awarded compensation or DIC.  
10          What happened in those -- without referral to  
11          DTRA.

12          What happened in those cases is that when the  
13          RECA statute was expanded there were five  
14          cancers that had been on the -- the non-  
15          presumptive list that RECA put on their list as  
16          being presumptive and warranting payment. And  
17          Secretary Principi had made a decision that  
18          veterans would not be disadvantaged compared to  
19          civilians, and therefore he directed that those  
20          particular disabilities be transferred based  
21          upon a recognition of RECA to the presumptive  
22          list.

23          And when we went back and looked at cases that  
24          had been previously denied because of DTRA dose  
25          assessments, we were able to grant service

1 connection, particularly for lung cancer, in  
2 several cases.

3 **MR. GROVES:** You had mentioned that there were  
4 about 600 radiation claims per year -- or is  
5 that the number of those related to the atomic  
6 veterans community or does that include the  
7 other claims for radiation-related injuries or  
8 diseases?

9 **MR. PAMPERIN:** When we talk about 600 a year,  
10 it's -- we're pretty much basically talking  
11 about those where we're -- there's potential  
12 DTRA involvement. Specifically -- now we don't  
13 refer every case to DTRA for participation. If  
14 there is a quality of evidence that clearly  
15 indicates that a person was a participant, we  
16 can proceed with a presumption without getting  
17 verification.

18 There are a small number -- we don't really  
19 track it that closely, but there are a small  
20 number of occupational cancer -- or claims  
21 every year. I saw a couple the other day  
22 dealing with people who were radiology  
23 technicians from World War II when the exposure  
24 rates were fairly high. But generally speaking  
25 we will get some from submariners and radiology

1           techs and other kinds of people, but the number  
2           is fairly small.

3           **MR. GROVES:** Thank you very much.

4           **VICE ADMIRAL ZIMBLE:** Dr. McCurdy.

5           **DR. MCCURDY:** Tom, you have this, quote,  
6           indicator of accuracy in decision.

7           **MR. PAMPERIN:** Uh-huh.

8           **DR. MCCURDY:** Now do you have any performance  
9           goals or indi-- performance goals related to  
10          timeliness or turnaround time of case --

11          **MR. PAMPERIN:** Yes --

12          **DR. MCCURDY:** -- (unintelligible) issues?

13          **MR. PAMPERIN:** -- in fact, in the annual budget  
14          -- matter of fact, the one that the President  
15          will discuss next week -- we have a number of  
16          performance indicators in the CMP\* business  
17          line, about five or six of which are what are  
18          characterized as critical. One of those is  
19          quality of decision-making. Another one is  
20          what we call average days to complete. Our  
21          current objective is to have an average days to  
22          complete for all rating-related actions of 145  
23          days. Our strategic goal is to get to 125  
24          days.

25          I'll tell you that the actual performance in FY

1 '05 was about 176 days for all cases. Now some  
2 cases go much, much faster than that. But it  
3 was -- it was, on average, about six months.

4 **VICE ADMIRAL ZIMBLE:** Okay. You have another  
5 question?

6 **DR. MCCURDY:** I'd like to follow up --

7 **VICE ADMIRAL ZIMBLE:** Follow-up?

8 **DR. MCCURDY:** -- one thing.

9 **VICE ADMIRAL ZIMBLE:** All right.

10 **DR. MCCURDY:** On the radiation dose cases for  
11 compensation, is this a -- is it a multiple  
12 process where you have to integrate -- when you  
13 do timeliness and quality, you have some people  
14 doing some record aspects of it and then you  
15 have someone doing the dose evaluation  
16 comparison to what the -- the compensatory  
17 limits are --

18 **MR. PAMPERIN:** Yes.

19 **DR. MCCURDY:** -- so you have to integrate all  
20 that?

21 **MR. PAMPERIN:** Yes.

22 **DR. MCCURDY:** And so that complicates the  
23 problem, and also with timeliness that would  
24 change that whole --

25 **MR. PAMPERIN:** Right.

1           **DR. MCCURDY:** -- formula, too. Right?

2           **MR. PAMPERIN:** Yes, it does. In fact the --  
3           the directors of our regional offices and the  
4           service center managers who are charged with  
5           delivering the program in each state repeatedly  
6           ask us if they can take radiation cases out of  
7           the equation because one of their performance  
8           measures is average days. Even though ours --  
9           our national goal is turnaround time, cycle  
10          time, at the operational level we are less  
11          concerned about turnaround time than average  
12          days pending because average days pending is a  
13          leading indicator. If you can get average days  
14          pending down, the cycle time will come with it.  
15          And the cases that -- we have resisted their  
16          request to have them removed, although we're  
17          very sympathetic to them. The age of the cases  
18          that involve ionizing radiation, they  
19          constitute about 95 percent of our oldest cases  
20          in our inventory. And you know, it adds a  
21          couple or three days to average days pending,  
22          and when you're -- when you're struggling to  
23          meet a mark, you know, people are interested in  
24          getting that out of there. But we -- we  
25          haven't taken it out.

1           **VICE ADMIRAL ZIMBLE:** Well, I would say that  
2           the Board is going to do everything it can to  
3           help expedite that -- that number down.  
4           Okay. Okay, we have one -- one question from  
5           the -- from the floor. Go ahead.

6           **MR. CONTRERAS:** Yes, sir. I would like to  
7           clarify something on RECA for the benefit of  
8           our veterans out in the field. Now it -- is it  
9           true that veterans receiving treatment at the  
10          VA hospital, and have received treatment and go  
11          to RECA for a claim and they award the claim --  
12          say \$40,000, \$20,000 or \$60,000 -- then RECA  
13          will assess them for their hospitalization  
14          expenses. And I've heard that some of these  
15          veterans get \$40,000, so they have to pay the  
16          VA the \$40,000 because they've been receiving  
17          treatment for so long. And being that we are  
18          veterans, and there's a lot of veterans that  
19          don't know if -- go to RECA or go to -- go to  
20          directly to the VA, so -- and that has  
21          happened, 'cause I've been told about it and  
22          it's -- it's -- in other words, I'd like to  
23          clarify that.

24          **MR. PAMPERIN:** That's not correct. Okay?  
25          Typically the RECA payments are \$75,000 and

1           it's either 100 or 150, something like that.  
2           At -- under no circumstance would a veteran be  
3           asked to pay back the cost of care. Until last  
4           year a RECA settlement was considered an  
5           absolute settlement of the government's  
6           obligation to any recipient under any program  
7           under the law. And what would happen, and what  
8           still happens today, is that we get FAXes on a  
9           daily basis from the Department of Justice  
10          indicating all the people who receive RECA  
11          payments. We run those against our system to  
12          see if the person is a veteran and if they're  
13          receiving compensation. If they're a veteran  
14          and not receiving compensation, we put that in  
15          their file. If they are getting compensation,  
16          until a year ago their benefit that was  
17          warranted based upon the condition for which  
18          they got the RECA payment was terminated.  
19          Okay?  
20          Now if they had other service-connected  
21          conditions they would continue to get  
22          compensation for those. If there was another  
23          basis -- for example, we have some veterans who  
24          are both radiation veterans and Vietnam in-  
25          country vets, and a couple of the cancers are

1           the same. So if -- if we granted it based upon  
2           Agent Orange exposure and they got the RECA  
3           payment based upon radiation, we don't touch  
4           those.

5           Now in Janu-- effective January of 2005 and  
6           going back about five or six years they  
7           retrospectively looked back and said okay, if  
8           you got one of these payments we will put it in  
9           our system as an overpayment and we will  
10          collect back that part that's attributable to  
11          that disability until it's recovered.

12          Now your basic question about should you go VA  
13          or should you go RECA, if you want my opinion,  
14          it depends upon how close you are to dying. If  
15          you've got a RECA-qualifying condition and  
16          you're terminal, I'd take it, because the --  
17          the collection is only against the person who  
18          received the benefit. So if you've got a  
19          qualifying condition for which you can be  
20          service connected and you can get a RECA and  
21          you die, okay, you got the \$75,000 or \$100,000,  
22          and your wife comes on and gets DIC without any  
23          offsets. So you know, the -- I think you have  
24          to kind of look at it in that kind of a cold-  
25          blooded approach of what's the payback since



1 the collection is only against the person who  
2 received the benefit.

3 **MR. CONTRERAS:** Very good, sir. Thank you very  
4 much. At least I can spread it to the veteran  
5 community and -- 'cause they're -- they're  
6 getting two different angles, so thank you very  
7 much.

8 **MR. PAMPERIN:** And the other thing I'd  
9 emphasize is even if we begin collection on --  
10 even in the past when we discontinued  
11 compensation for a RECA benefit, the veteran is  
12 still service-connected for that condition and  
13 therefore is still -- has always been entitled  
14 to treatment for the disability.

15 **MR. CONTRERAS:** Understandable. Thank you,  
16 sir.

17 **VICE ADMIRAL ZIMBLE:** Okay, thank you. That  
18 was an excellent question. Appreciate your  
19 bringing that to the floor at this time.  
20 Okay. Dr. Vaughan --

21 **DR. VAUGHAN:** Yeah.

22 **VICE ADMIRAL ZIMBLE:** -- we have -- we have  
23 completed our formal presentations -- wait,  
24 what? Oh, I'm sorry, Dr. Vaughan --

25 **DR. VAUGHAN:** Yes.

1           **VICE ADMIRAL ZIMBLE:** -- I want you to hold on,  
2           be patient just a moment longer. Dr. Reimann  
3           has a question.

4           **DR. REIMANN:** Tom, in order to work with you  
5           and -- and the -- you know, the customers of  
6           this Board, the atomic veterans, we would note  
7           that through the circumstance, the atomic  
8           veterans are such a small part of your total --  
9           your total constituency, that means that the  
10          things like the training of individuals and so  
11          on to operate within your stations would be a  
12          very difficult thing, and has been some  
13          discussion -- mostly informal -- of  
14          concentrating that within a smaller number of -  
15          - of VAROs. That's just an idea that's out on  
16          the table.

17          But quite aside from that, in looking at the --  
18          let's say the further evolution of the quality  
19          system which, by complication, means -- refers  
20          to your whole VA system, how does the station  
21          versus the individual play out in terms of the  
22          -- looking at the metrics information, the data  
23          coming in, and identifying the factors, let's  
24          say, in whether it be accuracy or in  
25          timeliness. The way in which the data are

1           mined, the way in which data are aggregated  
2           that feeds into the training system I think  
3           would be a very, very important issue. And I'm  
4           just wondering how that station versus  
5           individual played out because I think you made  
6           a specific point about that you're -- you're  
7           calculating really at the station level and  
8           it's very difficult to get at the individual  
9           level in any statistically valid way. So I'm  
10          wondering I guess, in terms of the further  
11          evolution of your system, how do you see that  
12          playing out so that the -- the goals could be  
13          backed by reliable information of where the  
14          bottlenecks really are? For example, if you  
15          have a long end-to-end -- clearly if you looked  
16          at the end-to-ends, if that were total work,  
17          you multiply the total number of cases you have  
18          times that length of time, it's probably three  
19          or four times your budget. So it means that  
20          things sit along the way, as they inevitably  
21          would in any organization. So how does that  
22          data get collected and rolled up so that the --  
23          it can be used then to train the next  
24          generation of -- of people?

25          **MR. PAMPERIN:** The -- until recently it's been

1           very difficult, if not impossible to roll up  
2           the -- the data.  What VA is currently  
3           operating with in terms of an information  
4           system -- I mean the Veterans Benefits  
5           Administration.  The Veterans Health  
6           Administration has a very, very sophisticated  
7           integrated computer system.  But right now the  
8           information system that we have was designed in  
9           the early '60s as a payment system when memory  
10          was very scarce.  So only essential information  
11          to justify payment was retained.  So it -- it  
12          was -- it's difficult to get much information  
13          out of the system about bottlenecks.  
14          That is changing.  We are in the process now of  
15          deploying a re-- a replacement computer system  
16          that is functioning, to a very large degree, in  
17          two regional offices, and every regional office  
18          has had one individual trained.  And our target  
19          is to be doing all compensation in the new  
20          computer system by the end of calendar year  
21          2006.  
22          That system gives us a lot of advantages.  For  
23          example, our current system that we're paying  
24          under can only retain six disabilities.  The  
25          new system will retain all of the disabili--

1           and does retain all of the disabilities. We do  
2           know that our corporate database, the part that  
3           does the disabilities itself, that's been fully  
4           functional now for about a year and a half. So  
5           we've got about a million and a half ratings in  
6           our corporate database where we know every  
7           specific disability that was claimed and how it  
8           was resolved and all these sorts of things.  
9           But the replacement system does track folder  
10          location, how long it sits at particular cases  
11          so that, for example, when it goes back to  
12          files that can be reasonably translated into  
13          wait time for responses to mail. And I would  
14          think that within -- within a year or so, with  
15          respect to compensation, we'll have the kind of  
16          data -- well, not -- a year after it's fully  
17          implemented -- that we can begin to really  
18          speak to that in specific detail.

19          In the past, what we have done is unique  
20          samples of 5,000 cases where we will just go in  
21          with a data sheet and collect when did we do  
22          this and all that kind of thing. The -- so  
23          it's difficult under the current system, but  
24          with the new computer system I think it's --  
25          it's easier.

1           And the other prob-- the new computer system as  
2           well will enable us to refer individual  
3           disabilities, for example. Right now -- when  
4           9/11 happened it was very frustrating for the  
5           organization that the New York regional office  
6           was closed down for about three weeks. And  
7           with Hurricane Katrina the New Orleans regional  
8           office just two weeks ago reopened in a suburb  
9           of New Orleans that those files were sitting  
10          four miles away and they sat there until --  
11          because it was all paper-based. Now, because  
12          you can get anything that's happened in  
13          Veterans Health Administration in the last five  
14          years on line at any regional office by just  
15          knowing where the person was treated, and even  
16          if you don't know where they're treated you can  
17          send out a query and say has this person been  
18          treated here, that's getting better. So I  
19          think we -- we have spent a lot of time and lot  
20          of money trying to upgrade our computer systems  
21          that will give us greater information with  
22          which to deal.

23          **VICE ADMIRAL ZIMBLE:** Okay. One more question  
24          from the floor.

25          **MR. CONTRERAS:** Yes, I think I'm getting your -

1 - getting on your nerves.

2 **VICE ADMIRAL ZIMBLE:** No, no, you're not  
3 getting on my nerves, but we're going to get  
4 the hook pretty soon. Go ahead.

5 **MR. CONTRERAS:** I understand, sir, but you  
6 know, there's questions to be answered, and  
7 especially if you like to work with veterans.

8 **VICE ADMIRAL ZIMBLE:** Right.

9 **MR. CONTRERAS:** One question that I -- and I'd  
10 like to know if this Board -- it come from you,  
11 a direct question to you, sir, Mr. Chairman,  
12 Admiral -- are -- is this -- is this Board  
13 going to be dealing with depleted uranium?

14 **VICE ADMIRAL ZIMBLE:** No, it -- depleted  
15 uranium is not within the charter of this Board  
16 --

17 **MR. CONTRERAS:** All right.

18 **VICE ADMIRAL ZIMBLE:** -- so we will not be  
19 doing that.

20 **MR. CONTRERAS:** All right.

21 **VICE ADMIRAL ZIMBLE:** Okay. Elaine --

22 **DR. VAUGHAN:** Yes.

23 **VICE ADMIRAL ZIMBLE:** -- Dr. Vaughan, I admire  
24 your patience. I certainly hope -- I certainly  
25 hope you have a speaker phone so that you don't

1           develop a decubitus on your -- on your ear, but  
2           --

3           **DR. VAUGHAN:** No.

4           **VICE ADMIRAL ZIMBLE:** -- I -- I'm going to let  
5           you make the very last word for this session  
6           today.

7           **DR. VAUGHAN:** Well, Admiral, I'm -- I had a  
8           couple of concerns and some general points to  
9           make. I think it will take longer than ten  
10          minutes, hopefully for the Board members to  
11          interact and discuss some of these issues.  
12          It's just stepping back and trying to identify  
13          and anticipate points of conflict. And I think  
14          it's too important to --

15          **VICE ADMIRAL ZIMBLE:** Okay.

16          **DR. VAUGHAN:** -- try and rush through the  
17          comments right now.

18          **VICE ADMIRAL ZIMBLE:** These comments that you  
19          have, are they related to subcommittee reports?

20          **DR. VAUGHAN:** We could relate them to that, but  
21          some are from presentations this morning. I  
22          took notes --

23          **VICE ADMIRAL ZIMBLE:** Okay.

24          **DR. VAUGHAN:** -- since this morning. And then  
25          others, I guess we could incorporate them into



1 a couple of the subcommittee reports tomorrow.

2 **VICE ADMIRAL ZIMBLE:** All right, I'd -- I will  
3 do this. You'll be first on tomorrow morning,  
4 right after the introductory remarks, before we  
5 get in subcommittee work.

6 **DR. VAUGHAN:** Okay.

7 **VICE ADMIRAL ZIMBLE:** We'll -- we'll entertain  
8 your comments and open that up for discussion.

9 **DR. VAUGHAN:** Okay.

10 **VICE ADMIRAL ZIMBLE:** Okay. And you have a --  
11 you have a good evening --

12 **DR. VAUGHAN:** Thank you.

13 **VICE ADMIRAL ZIMBLE:** -- and we'll -- we'll --  
14 we'll adjourn, unless anyone objects -- had  
15 enough fun for today? Okay. Let's adjourn  
16 until tomorrow morning at the same time.

17 **DR. VAUGHAN:** Okay. Have a good evening.

18 **VICE ADMIRAL ZIMBLE:** Right, good evening.

19 (Whereupon, the session adjourned at 5:50 p.m.)

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**C E R T I F I C A T E   O F   C O U R T   R E P O R T E R****STATE OF GEORGIA****COUNTY OF FULTON**

I, Steven Ray Green, Certified Merit Court Reporter, do hereby certify that I reported the above and foregoing on the day of January 12, 2006; and it is a true and accurate transcript of the testimony captioned herein.

I further certify that I am neither kin nor counsel to any of the parties herein, nor have any interest in the cause named herein.

WITNESS my hand and official seal this the 12th day of February, 2006.

*Steven R Green CCR*

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