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Department of Health and Human Services
Centers for Disease Control and Prevention (CDC)
National Institute for Occupational Safety and Health
(NIOSH)
Advisory Board on Radiation and Worker Health

VOLUME I

The verbatim transcript of the Meeting of
the Advisory Board on Radiation and Worker Health
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P R O C E E D I N G S

(12:30 p.m.)

1
2
3 **DR. ZIEMER:** Good afternoon, everyone. I'd
4 like to call the meeting to order. I'm Paul Ziemer,
5 Chairman of the Advisory Board on Radiation and
6 Worker Health. This is the sixth meeting of the
7 Board. It actually was -- we had a sort of prelude.
8 Our working group on dose reconstruction actually
9 met yesterday and this morning, and now the full
10 Board meets here this afternoon and all day
11 tomorrow.

12 The Board members are all present. If you
13 are an observer and wonder who the various people
14 are who, their placards are by their seats so you
15 can identify them. I'm not going to go around and
16 introduce all the Board members at this time, but I
17 would like to introduce two new Board members who
18 are not yet seated at the table. They were approved
19 just within the last couple of days by the White
20 House, but the government bureaucracy is such that
21 the White House approval is not enough to get them
22 at the table here for some reason. There actually
23 are some red tape issues that have to be taken care
24 of before they're formally seated, but they are here
25 today both as observers and they're certainly

1 welcome to speak at any time.

2 Let me introduce first Mike Gibson. Mike,
3 stand up so we can see you.

4 **MR. GIBSON:** (Stands)

5 **DR. ZIEMER:** Mike is president of the PACE
6 local union at the Mound facility. Mike's from
7 Franklin, Ohio. Welcome, Mike. We're glad to have
8 you here.

9 And then Leon Owens, who is in a similar
10 position with the PACE local, president of the PACE
11 local at the Paducah facility. And again, Leon, we
12 welcome you, and both of you are certainly welcome
13 to participate in the ongoing deliberations here
14 today and we look forward to having your full
15 participation once all that bureaucracy is taken
16 care of.

17 I wanted to remind everyone here, Board
18 members and observers, members of the public and
19 other staff to be sure to register your attendance.
20 There's a registration book at the table in the
21 rear. Please do that, if you haven't already,
22 sometime during the day.

23 And then also, members of the public who
24 wish to address the Board during the public comment
25 session, there is a notebook page for you to sign up

1 on so that we can have some idea of how many will be
2 planning to speak and we can adjust the timing
3 accordingly.

4 The agenda has been distributed. It's been
5 on the web site, but I believe there are also copies
6 of the agenda, as well as other handout materials,
7 on the table in the back so members of the public
8 and others who have not already done so, if you need
9 copies of those, please help yourself to those, as
10 well.

11 We're going to proceed with the agenda
12 items, the first of which is the approval of the
13 minutes of our last meeting, and I'm now going to
14 move back to my seat for this. Let me comment first
15 that the draft minutes are rather lengthy. They are
16 40-some pages in length. Some -- although they were
17 on the web site, some of the Board members were in
18 travel status and may not have gotten them before
19 they arrived. Some Board members just arrived this
20 morning and may not have had a chance to even look
21 at those, so I'm going to give the Board two
22 options. One would be a motion to approve, the
23 other option is a motion to defer action until
24 tomorrow, which means if you make such a motion,
25 you're committed to reading these tonight before we

1 return tomorrow, so no goofing off tonight. But I
2 do want to allow that option if you want to defer
3 action on these until tomorrow, if -- I don't know
4 how many have had a chance to read these or not.

5 Does anyone wish to defer action?

6 (No responses.)

7 **DR. ZIEMER:** No motion to defer action. If
8 not, I'm going to ask for corrections or additions.
9 Now let me preface that by saying I'm not going to
10 ask you for typographicals because -- and there are
11 some. We will simply feed those back to the staff
12 and they can make those. I'm looking for changes of
13 substance, either incorrect statements or comments
14 or things of that sort. So -- and -- okay, Mark
15 Griffon, you can start.

16 **MR. GRIFFON:** It's just a -- on page three,
17 kind of a technical point.

18 **DR. ZIEMER:** Is this three of the --

19 **MR. GRIFFON:** Three of the body --

20 **DR. ZIEMER:** Three of eight?

21 **MR. GRIFFON:** Three of eight --

22 **DR. ZIEMER:** Which is the executive summary.

23 **MR. GRIFFON:** Yeah. It's the third to last
24 paragraph, starts with any suggestions. The line
25 (reading) This could be the reasonable uncertainty.

1 Was actually -- it should be: This could be the
2 uncertainty combined with the central estimate that
3 is then cancer specific. That was my proposal
4 there. And that appears again on page 16 of the
5 main body of the report.

6 **DR. ZIEMER:** So your suggestion is that the
7 word "reasonable" be deleted and that it simply say:
8 This could be the uncertainty, combined with the --

9 **MR. GRIFFON:** And replace "mean" with
10 "central estimate". And that appears again in the
11 main body on page 16.

12 **DR. ZIEMER:** Also on page 16. Are there any
13 objections to this change? Let me move on and ask
14 for others, I'm not going to vote on these one by
15 one. Let's get them all before us and then we'll
16 take action.

17 Other comments or corrections? Wanda,
18 you're next.

19 **MS. MUNN:** A minor point, perhaps, on page
20 ten of the main body, the next to the last paragraph
21 when we're talking about the Board advising the
22 Department before it decides not to evaluate the
23 petition. I don't recall how much conversation we
24 had, but I think there were a couple of comments
25 about whether we needed to specify the basis for our

1 decision. And I don't know that we captured that.
2 I don't know whether it's of major importance,
3 but --

4 **DR. ZIEMER:** I believe the context here is
5 that this is Mr. Katz's explanation to us of how he
6 understood the wording or what he understood the
7 wording to mean.

8 **MS. MUNN:** Yes, and --

9 **DR. ZIEMER:** And in fact, some of that
10 includes things that -- where we had some
11 differences and I think would be taken care of by
12 our comments later, perhaps.

13 **MS. MUNN:** Okay, I didn't --

14 **DR. ZIEMER:** I believe this is Mr. Katz's
15 explanation.

16 **MS. MUNN:** It was, yes, but I didn't see
17 that we caught it elsewhere. That's -- as I said,
18 no major issue for me. I just felt when I read it
19 that it didn't quite --

20 **DR. ZIEMER:** This isn't necessarily what the
21 final rule will say --

22 **MS. MUNN:** Right.

23 **DR. ZIEMER:** -- is what I'm saying. This is
24 -- yes.

25 **MS. MUNN:** Yeah.

1 **DR. ZIEMER:** Okay. Thank you. Other
2 comments? I'd like to ask a question on the
3 footnote on page 4/8, that's the executive summary,
4 and I think this appears elsewhere, too. (Reading)
5 Two dose levels produced a 5.25 threshold.

6 And maybe I can ask one of the staff, is
7 that 5.25 -- is that intended to be rem? Do we --
8 what is that number, the threshold? Is that a dose
9 threshold?

10 **UNIDENTIFIED:** Yes, I believe it is.

11 **DR. ZIEMER:** Is it rem? Is that -- okay, if
12 we could add the word "rem" there then.

13 There was -- I have a question on page 5/8,
14 and this is part of a public comment. I think the
15 commenter's here, and perhaps the statement is
16 correct. It talks about a wish to reinstate DOE's
17 retention of historical records. I guess my
18 question was, have they -- is there an official
19 policy that they not retain historical records? I
20 guess perhaps I shouldn't ask for this to be
21 corrected. I think that probably was the statement.
22 I think it was your statement.

23 **UNIDENTIFIED:** What was it again? I was --

24 **DR. ZIEMER:** That -- the commenter wished to
25 reinstate the DOE's retention of historical records.

1 **UNIDENTIFIED:** Yes, I made that statement.

2 **DR. ZIEMER:** Okay, then that's fine. Okay.

3 On the top of page 7/8, the first paragraph --
4 again, I can ask -- maybe address this to staff.
5 The third line from the end of that paragraph says
6 (Reading) These assumed, except for breast and
7 thyroid cancer, a quadratic dose response.

8 Could that be a linear-quadratic?

9 **UNIDENTIFIED:** It should be linear --

10 **DR. ZIEMER:** So it would be linear-quadratic
11 dose response.

12 **UNIDENTIFIED:** What page was that?

13 **DR. ZIEMER:** It's the first paragraph on
14 7/8. It would be line -- line five. It should be
15 then linear-quadratic.

16 On page six, item two -- and this has to do,
17 Mark, with I think your report. And in the bullet
18 under item two, it talks about the need to do a
19 strategic sample. I'm wondering if that perhaps is
20 supposed to be a stratified sample.

21 **MR. GRIFFON:** A stratified sample, yes.

22 **DR. ZIEMER:** A stratified sample?

23 **MR. GRIFFON:** Yes.

24 **DR. ZIEMER:** Okay. Thank you. I think the
25 others that I have are mainly editorial and I'll

1 feed those back to the recorder.

2 Let me ask this question -- it's on page 32,
3 the very last line, we have the 5.25 threshold again
4 and so we'll insert the word "rem" there. And then
5 in that sentence it says (reading) The average of
6 1.5 and 9 produces a 5.25 threshold -- rem threshold
7 for health endangerment.

8 I'm wondering if -- I think this is Mr.
9 Katz's material. I don't want to necessarily put
10 words in his mouth. I think I'd be more comfortable
11 if we said health effects. I'm not sure we endanger
12 health.

13 **MR. ELLIOTT:** That comes from the language
14 of the statute.

15 **DR. ZIEMER:** Okay, so we'll have to leave
16 it. Okay.

17 **DR. MELIUS:** What about putting quotes
18 around health endangerment. That way we know it's a
19 term and it's not a statement of --

20 **DR. ZIEMER:** That would -- thanks, that
21 would help, right.

22 Are there any other additions, corrections,
23 modifications? If not, I'll ask for a motion to
24 accept the minutes with the changes that have been
25 noted.

1 **DR. MELIUS:** I so move.

2 **MS. MUNN:** Second.

3 **DR. ZIEMER:** Moved and seconded. All in
4 favor, aye?

5 (Affirmative responses)

6 **DR. ZIEMER:** Any opposed, no?

7 (No responses.)

8 **DR. ZIEMER:** The motion carries, the minutes
9 are adopted. Thank you very much.

10 Now we have an opportunity to review past
11 action items and Larry Elliott's going to take us
12 through that. There also is a -- in your booklet
13 there is a section called action items.

14 **MR. ELLIOTT:** Well, it's good to be here
15 with you all again on a very short turnaround.
16 Seems like just yesterday and only about 40,000 air
17 miles ago we were together, and hope that your visit
18 and stay here in Cincinnati is going to be very
19 enjoyable for you. And if it's not, let me know and
20 I'll get this right 'cause I'm trying to move us
21 along.

22 Certainly a lot of work the Board has
23 accomplished again in a short amount of time, and a
24 lot of work ahead of you. If you recall, I think it
25 was the third meeting in Washington where you all

1 suggested and we thought a good idea, and this has
2 also been practiced in other boards, as well, to
3 carry on a list of action items and show the status
4 of those items. As you can see, these -- we kind of
5 started providing lists of these efforts back in
6 February, so we wanted to touch base at this meeting
7 on where we're at with some of these things, show
8 what we consider to be the status among the staff
9 and make sure that you're in agreement with that
10 status or if there's remaining work to do or some
11 other spin-off that you feel needs to be added to
12 this list, we get that accounted for.

13 So as you see here -- I'm not going to go
14 through each one of these, but just to highlight --
15 you wanted to hear about the history of this
16 legislation so we brought Dr. Michaels in in May and
17 provided that to you.

18 We -- I think this first one here should say
19 clarified at 5/02 meeting commitment to provide
20 consultation to this body as you deem it necessary
21 and appropriate. We'll have to add some kind of
22 language to that 'cause I think that's an ongoing
23 effort. When you identify a expert that you want to
24 hear from, we'll bring them to you, as we did with
25 Dr. Lamb to discuss IREP issues.

1 We're going down through what list we
2 acquired in May and you're going to see a lot of
3 spaces there. You see the status as we see it, and
4 I would ask for your comment on that. But I'd also
5 ask you to help identify what the priority should be
6 for this Board, what priority of action you want to
7 take, recognizing that some of these items are not
8 timely to act upon, that there needs to be certain
9 things put in place before we can take some action
10 on them.

11 For example, let's go down to identifying
12 research gaps. I think that's something that we do
13 need to engage on and work on, but I'm not so sure
14 we're at a juncture right now where it makes a lot
15 of sense for us to pick that up ahead of let's say
16 explaining the records request process. So that's
17 the kind of thing I'm asking you to take a look at
18 and help identify for us what you want to hear
19 about.

20 We're going to talk briefly tomorrow about
21 our experience with the Town Hall meetings on the
22 SEC, but we lay claim here that we completed those
23 as of last week. We certainly don't have the last
24 two transcripts up on the web site. And Mr. Ray
25 Green, who went on the west coast trip, is somewhat

1 in a complicated situation trying to finish those up
2 and pull this one together, as well. Right, Ray?
3 So he's assured me we're going to get those soon and
4 I've given him a little bit of breathing time to do
5 so. We will give you the summary of what happened
6 in those meetings, however, tomorrow, so -- let me
7 see if I'm on the right track here.

8 You have this also in your books, the dose
9 reconstruction working group meeting, so you need to
10 take that into account. And I'll leave you with
11 this last one on the action items that we think are
12 the Board's action items specifically. So it's up
13 to you to --

14 **DR. ZIEMER:** Maybe there is some question --
15 one of the items up there is -- it says (Reading) If
16 no MOU -- this is a DOE MOU -- by next meeting --

17 Is that this meeting? -- then update
18 status. If now's the time, I can direct to that or
19 --

20 **MR. ELLIOTT:** I can't remember.

21 **DR. ZIEMER:** We didn't have that as a
22 separate item, did we, on the --

23 **MR. ELLIOTT:** It's not an agenda item on
24 this. There's no program status report on this
25 agenda for this meeting.

1 **DR. ZIEMER:** But maybe if you might comment
2 on the MOU.

3 **MR. ELLIOTT:** Surely. The MOU has now been
4 interchanged several times between -- at staff level
5 and is now at the Deputy Secretary's level being
6 negotiated.

7 **DR. MELIUS:** One other update, the dose
8 reconstruction status not detailed.

9 **MR. ELLIOTT:** Sure. That -- the award for
10 that dose reconstruction contract is at the best and
11 final stage of negotiation. We expect an award to
12 be made very shortly.

13 **DR. MELIUS:** Could you just --

14 **MR. ELLIOTT:** Follow up.

15 **DR. MELIUS:** -- government jargonese, but
16 best and final's changed since the last meeting and
17 hopefully --

18 **MR. ELLIOTT:** In the competitive process of
19 awarding a contract, there's been one proposer that
20 has been deemed ready to negotiate for a final award
21 out of all those proposers that competed.

22 **DR. MELIUS:** Thanks.

23 **MR. ELLIOTT:** So we're just going back and
24 forth on --

25 **DR. ZIEMER:** Sounds like a name has gone

1 forward up the channels, perhaps.

2 Other questions for Larry or comments on the
3 list right now?

4 (No responses.)

5 **DR. ZIEMER:** Thank you very much. Larry,
6 you're going to report on the visits to the public
7 meetings later. Right?

8 **MR. ELLIOTT:** Yes, we -- Ted Katz will be
9 giving you a summary presentation on that at the
10 start of your agenda item tomorrow morning,
11 discussion on the SEC NPRM.

12 **DR. ZIEMER:** Thank you.

13 **DR. MELIUS:** Can I just --

14 **DR. ZIEMER:** Jim?

15 **DR. MELIUS:** One procedural question. The
16 agenda that was on the web site I think listed Owen
17 Hoffman as being on the agenda for tomorrow. Is
18 that just a misprint or --

19 **DR. ZIEMER:** I don't think Owen -- Owen --

20 **MR. GRIFFON:** Yeah, I noticed that, too.

21 **DR. ZIEMER:** -- was on the August agenda?

22 **DR. MELIUS:** Yeah, on the one that was
23 posted on the web site.

24 **DR. ZIEMER:** I wonder if that's something
25 that didn't clear from the previous agenda or

1 something.

2 MR. ELLIOTT: Well, Owen was on last month's
3 -- or last meeting's agenda.

4 DR. MELIUS: It was a misprint.

5 MR. ELLIOTT: He's not on this agenda. He
6 had no plans to be here. I hadn't even -- I'm
7 sorry. I'll check that out.

8 DR. ZIEMER: Unless you were looking at last
9 month's.

10 DR. MELIUS: Mark and I -- Mark was on the
11 phone --

12 DR. ZIEMER: Oh.

13 DR. MELIUS: -- trying to figure out which
14 agenda we were looking at.

15 DR. ZIEMER: At the last meeting we approved
16 -- in fact, take a look at the very last page of
17 your minutes, which is addendum two or attachment
18 two, dose reconstruction review work group
19 recommendations. You recall at the last meeting we
20 actually approved these recommendations. They were,
21 in a sense, sort of the first step or first cut from
22 the working group as to what they felt should be our
23 direction, and basically we've adopted these. They
24 are broad and somewhat general. That working group
25 was tasked with visiting -- in fact, the reason

1 we're here in Cincinnati was to couple with the work
2 group's visit to the facilities to look at how the
3 paperwork is being handled, how the dose
4 reconstructions are being done and to get a kind of
5 a better first-hand knowledge of what it might
6 entail for us to oversee, in a sense, the dose
7 reconstruction processes. So Mark's working group
8 met all day yesterday and this morning, and Mark's
9 going to report to us.

10 Mark, if you would include in your report a
11 bit of a description on what all your folks did
12 while you were here and then you can give us at
13 least a preview of what your thinking is as we move
14 forward.

15 **MR. GRIFFON:** Yeah, I will do -- I can do
16 that and one thing I was going to ask, though, on
17 the schedule -- I don't see any time today for
18 Special Exposure Cohort and I was wondering if --
19 because this report back probably for me right now
20 probably is going to take 15 minutes, at most. I
21 was wondering if we might want to have -- or if we
22 can make room for a preliminary discussion and maybe
23 continue tomorrow for the SEC.

24 **DR. ZIEMER:** Without objection, we can
25 introduce the preliminary report of the exposure

1 cohort group, as well.

2 **MR. GRIFFON:** My name is Mark Griffon. We
3 -- yeah, the dose reconstruction review working
4 group met yesterday and today. We had agreed at the
5 last meeting that to get a better handle on the task
6 that the Board is responsible for in reviewing a
7 percentage of the dose reconstructions that are done
8 by NIOSH, we felt that we really needed to get a
9 handle on what was involved in doing a case. And
10 since NIOSH has initiated the process or actually
11 gone quite far with the data collection phase of it
12 and actually has completed a number of dose
13 reconstructions, we thought it was beneficial to
14 come out to Cincinnati a little early and get the
15 tour.

16 And we did that yesterday. We had a -- Jim
17 Neton and his staff took us through the whole
18 process from when a claim comes in -- or from when
19 they get a package from the Department of Labor,
20 walked us through the whole system, including the
21 database, and did some pretty extensive reviews on
22 some of the cases that they've completed. And it
23 was very instructive, and I should also note that
24 the few staff that Jim has have done a lion's share
25 of work in terms of getting all this data and

1 getting the system up and running. It's pretty
2 impressive to see how far they've gone in this short
3 time.

4 This morning -- that was mainly yesterday.
5 This morning we spent a couple of hours trying to
6 fine-tune, as Paul pointed out, the recommendation
7 from the last meeting where we had sort of begun to
8 construct what is this review going to involve. And
9 we had a review panel, how were we going to do case
10 selection and then sort of the scope of work are the
11 three areas. And this morning we continued that
12 discussion, mainly on those three items.

13 I'll review a little bit of what we
14 discussed. I'm also going to offer that I'm going
15 to try to construct some sort of a -- more of a
16 draft that we can circulate tomorrow so it'll have
17 more of the details in and would ask my working
18 group colleagues to maybe help me out on that one,
19 but we'll work on that tonight.

20 We discussed the panel makeup. We discussed
21 questions on the procurement process and how the
22 Board can be involved in -- in the selection
23 process, and we went over the ways that the Board
24 can construct criteria for the contract and to
25 assure that the expertise of these independent

1 reviewers is appropriate. And we're going to try to
2 draft some of that language tonight in terms of how
3 can this -- how can we construct the language for
4 the criteria for these experts that will do the
5 independent review.

6 We're also going to turn to NIOSH's RFP for
7 the dose reconstruction. We could probably look at
8 some of that language there for the RFP to do the
9 dose reconstruction to help us out in that language.

10 For case selection, we talked about how are
11 we going to select which cases the Board's going to
12 review. And we talked about possibly stratifying
13 along NIOSH's efficiency process, and this is the
14 process they're using when cases come in where they
15 can sort of -- they group them by sort of complexity
16 of cases. It's not quite that simply defined, but
17 when I type this all out you'll see it more
18 specifically. And that would create certain groups
19 of -- or categories that we'd be interested in. And
20 then we could do a selection within those
21 categories, keeping in mind certain strata that
22 we're interested in, such as geographic strata,
23 chronological strata and one was raised today,
24 gender. Certainly we should pay attention to that.

25 And then we also agreed that we have to,

1 sooner rather than later, get a pretty good handle
2 on the number of cases and the expectation on how
3 long it would take to review an individual case so
4 we can get a sense, not only for the independent
5 reviewers, but also each independent review panel
6 that's set up is going to be comprised of one
7 independent reviewer and two Board members, so
8 there's a burden on the Board members, as well. So
9 we wanted to get a handle on just how many we expect
10 to select and how long we expect the review process
11 to take.

12 We threw around some numbers. We may or may
13 not include that in -- you know, I don't know if
14 we're that far along, but we have a better sense
15 from yesterday in terms of just what the workload
16 will be for the review.

17 And then we spent a large majority of the
18 time this morning talking about the scope, and some
19 issues we discussed -- and I'm going to frame that
20 way right now and hopefully I can better flesh them
21 out for tomorrow -- included the depth of review.
22 One thing we are certainly -- we believe the Board
23 should certainly pay strong attention to is that the
24 claimants -- from the claimants' standpoint, we want
25 to make sure that we do the best job possible to

1 make sure that NIOSH had adequate data to do the
2 dose reconstruction and that they made every effort
3 to make sure that data they used in the dose
4 reconstruction was adequate to make a determination
5 for causation. And that's different from refining
6 the dose perfectly, as we know.

7 We talked about how we can review the
8 completeness of the data. That's a phrase that was
9 I think in our original scope, that we wanted to
10 make sure there was a completeness of data. And you
11 can see where that could put -- you know, there's
12 scenarios where that could be a never-ending -- you
13 know, data always pops up, so we had to sort of --
14 we're trying to grapple with how can we define an
15 end to this, but also make sure that we meet that
16 criteria of it's a complete record.

17 We discussed also looking at the
18 consistency. We thought consistency on many
19 different levels was something that this review
20 panel can have value added into the process. And by
21 that I mean that there's going to -- the
22 subcontractor's likely to do many of the dose
23 reconstructions. NIOSH is reviewing all those dose
24 reconstructions, from what I understand. By the
25 time it gets to this independent review panel,

1 errors in mathematics or errors in calculations are
2 unlike -- you know, less likely. Where we thought
3 more value will be added is to make sure that the
4 data used to calculate the dose is consistent across
5 many different levels. And when I say that, I mean
6 it's consistent with the interview -- interviews
7 conducted or the allegations made by the potential
8 claimant. It's also consistent with the site
9 profile which NIOSH is building for that site. For
10 example, if certain exposures occurred in certain
11 buildings according to the site profile, then
12 they're in some way reflected in the data that's
13 used in that case.

14 And also that there's some consistency or
15 fairness across co-workers. The way this was raised
16 I think was that certain individuals -- and we saw
17 this, looking through some of the records. Certain
18 individuals have done a heck of a lot of homework
19 and they've sent NIOSH a lot of very interesting
20 documents, which has helped NIOSH to track certain
21 things down. But that shouldn't work against those
22 that didn't have that information, so we want to
23 make sure that there's some fairness to co-workers,
24 is kind of how we framed it.

25 And I think that was the main focus of our

1 discussion. We're going to try to better draft
2 language around the scope of work -- and certainly
3 anybody from the working group can add if I'm
4 missing a big thing that we discussed. But I think
5 we're going to try to refine some of that language
6 around the scope of work particularly for tomorrow,
7 and I think -- all in all, I think the trip to
8 NIOSH's facilities was helpful for us to get a sense
9 of -- you know, from the time the Fed Ex package is
10 received with the data to the time they can put it
11 -- you know, what's happening in there, how much
12 data do they have, how long might we envision these
13 reviews to take and what -- you know, drawing some
14 end points to this review. And I guess that's it.

15 **DR. ZIEMER:** Thank you, Mark. And your
16 group actually looked at the dose reconstructions
17 for what, five cases that have been completed?

18 **DR. NETON:** Six cases.

19 **DR. ZIEMER:** Six cases?

20 **MR. GRIFFON:** Right.

21 **DR. ZIEMER:** That ran the gamut of sort of
22 doses and kinds of events and exposures?

23 **MR. GRIFFON:** Right, six cases, and actually
24 this efficiency process that NIOSH has is -- the
25 cases sort of went along the efficiency process that

1 they're using wherein they showed us some -- they
2 categorize them by low potential for external
3 exposure, low potential for internal exposure. And
4 at the other extreme, high potential and high
5 potential, and I guess generally those six cases
6 they tried to give us to show us some of the
7 different categories that way so that we'd have a
8 sense of what was involved on either side of the --
9 and actually one thing that they impressed upon us,
10 which I think surprised some of them even, was that
11 the low/low were some of the harder cases because
12 they wanted to make sure they looked at every
13 possible exposure. The high -- highly exposed, once
14 they had enough data to say that they tripped the
15 threshold, there was no reason to go -- you know, to
16 proceed with much more detail, so --

17 **DR. ZIEMER:** The low/lows are often cases
18 where people worked in areas where perhaps
19 monitoring wouldn't be required normally because
20 they are presumably not restricted areas, so it
21 makes it more difficult than -- 'cause there's
22 typically not monitoring data. Is that correct?

23 **MR. GRIFFON:** Yeah, that's the notion I --
24 generally, yes.

25 **DR. ZIEMER:** Now your review of these six

1 cases was more along the lines of an acquaintance
2 with the process. You didn't formally evaluate
3 these six reviews --

4 **MR. GRIFFON:** That's right.

5 **DR. ZIEMER:** -- so you're not saying yea or
6 nay on those, but was there a gut feeling amongst
7 the working group that the -- what you saw made
8 sense to you in terms of how the assumptions were
9 made and so on?

10 **MR. GRIFFON:** Well --

11 **DR. ZIEMER:** Maybe I'm putting you on the
12 spot. I'm just sort of --

13 **MR. GRIFFON:** Yeah, I mean --

14 **DR. ZIEMER:** -- getting an early reaction to
15 sort of the process, what they had available in
16 terms of data and so on.

17 **MR. GRIFFON:** Right. My personal reaction
18 was that they -- you know, it was the easier cases
19 and so there weren't many surprises.

20 **DR. ZIEMER:** It was pretty straightforward,
21 uh-huh.

22 **MR. GRIFFON:** I guess I'll leave it -- there
23 weren't many surprises. I think at least one of
24 them was a fairly well-publicized accident with very
25 high exposures and, to no one's surprise, that was a

1 compensable --

2 **DR. ZIEMER:** Right.

3 **MR. GRIFFON:** So I think what's going to be
4 the challenge will be those mid-level cases where
5 the data is incomplete and those high-level cases
6 where the personal monitoring record tripped the
7 threshold, then I think everything was fine. But I
8 did -- I guess I still have this question about
9 consistency, and I don't think that they had to do
10 much of this, but comparing the -- right now what
11 they're getting from DOE and what they're requesting
12 from DOE is personnel monitoring records. They're
13 also, on the other parallel track, they're building
14 these site profiles. But from the personnel
15 standpoint they're just requesting the personnel
16 records, and in these cases I think for the most
17 part they were good enough to make a decision. But
18 that may not be true in the future so I think that
19 might be one question.

20 **DR. ZIEMER:** I wonder if any of the other
21 working group members have any additional comments
22 or observations. Gen Roessler?

23 **DR. ROESSLER:** I was impressed with the case
24 where it was a low/low, because I think what the
25 group is finding out is that these, as Mark said,

1 might not be all that easy, that when there's a real
2 lack of data, then one has to try and come up with
3 what could be the upper limit. And that impressed
4 me with some of the -- I don't know if creative is
5 the right word, but the ways that they developed for
6 coming up with this upper limit. And I think
7 overall, those cases that we saw show how this
8 efficiency process can really be beneficial and I
9 think that's one of the developments they've made in
10 this whole process that I'm sure will be picked up
11 by other groups when they do this sort of thing.

12 **MR. PRESLEY:** Larry, I have one comment --
13 Bob Presley. I'd like to thank Jim and his group
14 again. They did an excellent job of hosting us.
15 But the thoroughness -- you know, a lot of us had a
16 question, what it took to do a dose reconstruction.
17 And the six cases that we went through, the
18 thoroughness of the case, what you all did to make
19 sure that you took the data that you were given and
20 left no stone unturned, and then also the fact that
21 we've heard a lot of comments in some of the town
22 meetings about people not caring about the people
23 and things like this. And this morning we had a
24 opportunity to hear one of the interviews, and the
25 gentleman that did that I want to say did an

1 excellent job. I was very much pleased with the way
2 he conducted hisself (sic) and the way he conducted
3 the interview. Your staff is to be commended.

4 **DR. DEHART:** To give those who weren't there
5 some kind of insight into what the datasets are that
6 we're looking at, one case, for example, had over
7 700 pages of historical data information,
8 interviews, letters and dose records. That one case
9 consumed, obviously, a bit of time. And in doing
10 the calculations, one individual spent nearly a week
11 or more actually working that case and fine-tuning
12 the dose calculations that were necessary. And in
13 fact in one case the final determinate does was
14 considerably higher than the dose of record because
15 of some of the factors related to the kind of
16 exposure that wasn't appropriately taken care of or
17 not well documented, perhaps, in the records that
18 were available. So a lot of work, a lot of time.
19 And for the members of the Board, it indicates that
20 we're going to be very busy trying to review these
21 cases, even with an external expert going through
22 because we're being -- we're proposing that there
23 would be two of us with each one of these experts,
24 going through literally hundreds of records as we
25 proceed through the perhaps 8,000 records that would

1 be reviewed the first year of the contract.

2 DR. ZIEMER: Jim?

3 DR. MELIUS: In your review did you have a
4 chance to get a feeling for how this process would
5 work as you would gear up to deal with hundreds of
6 cases and thousands of cases that are sort of
7 pending out there and how this would -- sort of what
8 would be the -- not necessarily the time frame
9 'cause that's hard to say, but how that process
10 would work. For example, I would think like with
11 the low/lowes that you're going to -- it's going to
12 take a -- where there's not much information, it's
13 going to take a while to build up an inventory of
14 site profiles that would be specific enough to
15 different work areas and so forth to be able to deal
16 with those cases. And at the same time, you have
17 others that -- with the 700 pages of monitoring
18 records which are just going to take a while to wade
19 through. And is there a sense of how that part of
20 it would work? And I'm thinking in terms of how we,
21 in doing the reviews, take the sample from that.
22 Maybe this will be clearer when you present
23 tomorrow, Mark, in terms of how we're going to
24 sample the cases, but --

25 MR. GRIFFON: Maybe. We did talk about some

1 possibilities for how to sample and maybe -- we
2 talked about quarterly, and then we talked about the
3 cases that we want to -- in that first quarter we
4 may have all high/highs, you know, I don't know.
5 And we may have all from one site. But maybe we
6 just go -- proceed and sample those cases and then
7 continue to track to make sure -- and establish sort
8 of a matrix to make sure that we still complete our
9 sort of geographic and chronological requirements as
10 we proceed so that we cover all the sites and all
11 the time periods of interest. They may not come up,
12 like you said. We may have an even number of
13 low/lows and high/highs in the first quarter, so we
14 may have to adopt to that just to keep the process
15 moving. If anybody else can add to that, I --

16 **DR. ZIEMER:** Let me add to that and then
17 we've got Henry and Gen. I did sit in and observe
18 the working group and learned a little bit of some
19 of their thinking. And it's pretty clear, since
20 they'll be looking at dose reconstructions that are,
21 in essence, already completed that -- and this
22 becomes a kind of audit -- that they need to develop
23 a standard operating procedure as to what the audit
24 is and perhaps say okay, are the assumptions that
25 the staff made reasonable and appropriate. You

1 know, a list of issues that you -- every time you
2 look at a reconstruction, you ask certain questions
3 which have to do perhaps with completeness of
4 information, validity. And I think the group is
5 working toward developing this 'cause that will also
6 tell us a little about how much time will be needed
7 both by the Board members and outside consultants to
8 do a proper audit job. And part of this has to do
9 with what percent of the total reconstructions will
10 we look at.

11 **DR. MELIUS:** Just to follow up on that
12 point, seems to me that with a 700-page one, then
13 it's a question of calculations and different types
14 of exposures and so forth is going to be the focus
15 of any review. With a low/low, the real question's
16 not going to be how the calculations were done as
17 much as the completeness of the records and how do
18 you avoid a false negative and miss a significant
19 exposure, which may be a -- you know.

20 **MR. GRIFFON:** And I would just add to that
21 that I hope that with that -- while I'm impressed by
22 the amount of data that NIOSH has collected, I've
23 also got stacks of data, and I hope that we don't
24 fall into that trap where we just say there's a lot
25 of data so this will be the focus of our review and

1 it must be just some calculations we have to look
2 at. We do want to look at consistency across those
3 other factors.

4 **DR. ANDERSON:** Yeah, I kikitized this
5 morning, as well, but I -- and I looked through some
6 of the records and it's a numbing exercise to go
7 through some of the scanned documents which are
8 difficult to read. I think it was very helpful for
9 the group to look at that so you know what the dose
10 reconstructor's doing, not just on a one-afternoon
11 basis, but on a day-to-day and day out for a long
12 time. And you can kind of get a sense of well,
13 where's that system likely to break down. And I
14 think we talked about there being maybe different
15 levels of review, one which would be actually going
16 through and looking at all of the documents. What's
17 good in the system is up on the top of the report.
18 They list which of the exposure information they
19 actually used out of the whole document. So one can
20 then, as a review, go through the documents, see if
21 they missed something or omitted something that
22 might be valuable.

23 I think the other issue we talked about is
24 having, despite the attempt to make it very
25 objective, there are subjective decisions and

1 choices that are made and that would be one thing
2 that we want to keep track of, as well. So one of
3 the points we thought that would be a good -- at
4 least one level of activity would be there's some
5 detailed information in the interview and being sure
6 that in fact the issues raised by the interviewee in
7 fact is addressed or if they indicate well, I had
8 this kind of an exposure and then you look and
9 there's no data on that, well, how was that issue
10 resolved. Those I think are sort of qualitative
11 issues that I think'll be important because they're
12 going to be addressed systematically. And if
13 they're not applied in a uniform manner, we then
14 thought there may well be the same people working
15 next to each other that different assessors go
16 through their records and they could come out with a
17 different result, causing again consternation. So
18 those are the kind of issues that we thought may
19 well be a focus of some types of reviews, but not do
20 every one overly comprehensive. And so I think
21 there's work yet to be done, but I think the
22 framework, it sounded to me, was starting to flesh
23 out. We still have a little time left.

24 **DR. ROESSLER:** I just want to pick up on
25 Jim's comment about developing site profiles because

1 I think that's something that I became aware of when
2 the low/low dose one was brought up. And I think
3 that's really going to work and will save time is
4 once you develop a site profile, at least in this
5 kind of a general case, then it's something that
6 they can go back on. And so I think it's important
7 for us -- and I'm sure they've realized it -- to
8 emphasize just what you said, the importance of
9 having those site profiles.

10 **DR. ZIEMER:** Further comments then?

11 (No responses.)

12 **DR. ZIEMER:** Mark, your group then is going
13 to do some refining this evening and perhaps have --
14 well --

15 **MR. GRIFFON:** Yeah. Yeah.

16 **DR. ZIEMER:** This is an ongoing thing. I
17 think nobody is feeling like we know everything we
18 need to know, now we can just draft up some kind of
19 a document saying what's going to be done. But at
20 least you're ready to take the next step and start
21 to flesh out a little bit and define perhaps what it
22 is we're looking for in the way of professional
23 consultants to work with the Board and so on. So we
24 have on our agenda tomorrow some time to get some
25 additional feedback then from the working group.

1 it would be useful to have this to look at overnight
2 before tomorrow morning's discussion. So the
3 primary comments were dealing with sections 83.1,
4 83.5, 10, 13 and 15. And then on the last two
5 pages, which are feedback from Tony, Tony's
6 suggesting I think I comment under 83.7, so that
7 would also need to be inserted and some other
8 massaging on mine and then Wanda, I haven't even
9 looked at yours, but we'll take it home tonight and
10 see how we can nail these all --

11 Now the ultimate document that would go to
12 the Secretary of Health and Human Services would be
13 in the form of a letter that would point out the
14 activities of this Board since our last
15 communication. So we've had -- this would have been
16 our third meeting since we last communicated, so I
17 think the cover letter would point out how hard
18 we've been working since the last communication, and
19 then would point out that we are commenting on this
20 rule-making and then the actual detailed comments
21 would be in the attachment to the letter. That's
22 what I would propose.

23 **DR. ANDERSON:** I just wanted to -- since I'm
24 not going to be here tomorrow, unfortunately, I
25 think it's good to have these out, but I know a

1 number of us have gotten calls subsequent to the
2 public meetings by individuals raising issues. And
3 I guess what would seem to me to be very helpful is
4 if those that got those or have some new thoughts
5 get them down in writing and maybe get them
6 exchanged today so people can think about it so that
7 we're not -- those of you here tomorrow are not kind
8 of thinking off the cuff on the comments it would be
9 helpful 'cause I think there's a number of people
10 that I've heard from that had some suggestions that
11 we need to get into this. And the sooner we get
12 some language so we're not crafting tomorrow, unless
13 there's going to be some possibility that NIOSH
14 would extend the comment period that would give us
15 more time. I know I just got some of the minutes
16 from the meetings and not all of them are on the
17 internet yet, so other than the people who called, I
18 don't really know what was actually said there. So
19 it could be a one-sided conversation. So I don't
20 know if -- is there a thought on the basis of the
21 turnouts, and I think some groups wanted to have a
22 meeting in their area and things like that, is what
23 I've heard, and it would be too late if you're
24 thinking of going to one of the other sites if -- is
25 there any possibility of getting an extension on the

1 comment period, to keep it open a little longer?

2 **MR. ELLIOTT:** Well, at this time the comment
3 period closes August the 26th and that's -- as of
4 today, that's still the Secretary's desire, to see
5 this put in place as soon as possible. So -- but
6 that's certainly -- we've not had in our input in
7 the Town Hall meetings requests for extension of the
8 public comment period.

9 **DR. ANDERSON:** Okay.

10 **MR. ELLIOTT:** So -- and the last two
11 transcripts will be on the web site very soon.

12 **DR. ANDERSON:** Okay.

13 **MR. ELLIOTT:** We just couldn't get them
14 turned around, since we were there last Thursday.

15 **DR. ANDERSON:** I know.

16 **MR. ELLIOTT:** But tomorrow you -- you'll
17 miss it tomorrow if you're not here, Dr. Anderson.
18 Ted Katz will give a short summary of what we
19 benefitted from in our experience.

20 **DR. ZIEMER:** And keep in mind, we don't
21 necessarily have to be able to incorporate those
22 things into our comments because they are comments
23 that they will have to respond to anyway. So --
24 unless there's something that are so pertinent that
25 we think we need to include it or add to it.

1 **MR. ELLIOTT:** Absolutely. Transcripts are
2 going to be added to the regulatory docket and each
3 of the Town Hall meetings -- everyone was encouraged
4 multiple times to provide their written comments to
5 the docket before the expiration of the public
6 comment period, so we hope to see them there.

7 **DR. ZIEMER:** Rich?

8 **MR. ESPINOSA:** Yes. Has there been input in
9 from other sites that didn't get a Town Hall
10 meeting, like Oak Ridge or anything like that
11 requesting for a Town Hall meeting?

12 **MR. ELLIOTT:** Yes. I have taken a couple of
13 phone calls and one of those phone calls was from
14 Oak Ridge requesting a Town Hall meeting. There was
15 just no way that we could work it into the tight
16 schedule that we had, and I'm sure that those sites
17 are -- and in fact, Denver was the other call that I
18 took and I explained that we had just been there
19 with the full Advisory Board and talked about this
20 and they had missed an opportunity. But I think it
21 also speaks to the Board's interests to go around
22 and hold these meetings at different sites and the
23 benefit to doing that.

24 **MR. GRIFFON:** I just -- I'm just scanning
25 the e-mails back and forth so maybe I'm not seeing

1 everything, but -- and looking at this for the first
2 time, but I recall in the last meeting in our
3 discussions that we had sort of turned over some
4 issues that we wanted the working group to discuss.
5 And I wonder if -- maybe it's not reflected in the
6 e-mail or it didn't make it to the comments or
7 whatever, but did you all have a chance -- I know
8 you didn't have a conference call or anything, but
9 did you have a chance to discuss -- some that come
10 to the top of my mind are some of those definitional
11 issue that I was focused on like sufficient accuracy
12 or how the endangered health was defined. Did the
13 working group discuss those or --

14 **DR. ZIEMER:** No, and we -- we may not have
15 had -- "we", me, I guess, may not have had complete
16 enough notes so that if there are some of those that
17 simply fell through the cracks, I'd be very pleased
18 to have those. Maybe you can remind me. I'll get
19 my notes back out, but maybe you can remind me of
20 those sometime before evening and try to incorporate
21 that.

22 I knew when I sent this out I hadn't really
23 -- I know I hadn't captured all of Tony's ideas,
24 either, and probably missed some other folks's
25 ideas, so --

1 **MR. GRIFFON:** I mean I think there's even
2 some ones that just -- just glancing at the New York
3 minutes, I mean I think there's some that are sort
4 of potential gaps in the current regulation that
5 really need to be addressed. The particular one I'm
6 thinking of is that someone, if they're put in a
7 class and they are not eligible for non-SEC cancers
8 and they cannot apply, and it -- you know, I guess
9 my question along those lines would be if they had
10 exposure, say -- say a certain class is defined for
11 a certain building over a ten-year span and they
12 have reconstructible dose before and after, you
13 know, in that kind of situation it seems to me that
14 they would still be eligible to go forward and
15 submit for a non-SEC cancer. And I was trying to
16 understand the interpretation, but I didn't see it
17 that way and -- in the New York meeting.

18 **MR. ELLIOTT:** I may be confused by your
19 comment, Mark, but they wouldn't be excluded. They
20 would be certainly eligible to file and proceed
21 through dose reconstruction. I think the issue
22 would be if at the end of the completed dose
23 reconstruction the PC came out to -- in that upper
24 mid-range right below compensability, what do you do
25 then? How do you react to the particular situation

1 in that case? You see where I'm --

2 **MR. GRIFFON:** Uh-huh.

3 **MR. ELLIOTT:** -- leading this to? So maybe
4 what we need is to have some clarification in
5 language to assure that if you have monitoring or
6 records that would support dose reconstruction for
7 other periods of your employment and your work
8 history, that doesn't exclude you from filing a
9 claim and going through dose reconstruction.

10 **MR. GRIFFON:** And then I guess --

11 **MR. ELLIOTT:** Nor should it exclude you as a
12 member of that class --

13 **MR. GRIFFON:** Right. Right, and then the
14 question on either side of that is in making a
15 decision on defining the class, you know, this
16 hypothetical scenario comes to mind where you're
17 defining -- you're defining this potential class.
18 It's not a certified class yet, and you come up with
19 your worst case dose estimates and you come up to 48
20 percent and therefore it's not an authorized class,
21 a certified class.

22 **MR. ELLIOTT:** That's a different -- yeah,
23 that's a different issue.

24 **MR. GRIFFON:** However, they've worked ten
25 years before that and had exposures, some of them --

1 maybe not all of them, you know -- they've worked
2 ten years after and then --

3 **MR. ELLIOTT:** So what do you do with that --

4 **MR. GRIFFON:** -- reverse -- reverse that and
5 say they've got exposure on either side, for ten
6 years in the middle they're in this class. They
7 don't have that type of cancer.

8 **MR. ELLIOTT:** Right.

9 **MR. GRIFFON:** If we only use the dose from
10 either side, they don't trigger the threshold, but
11 we can't assign the dose from the class 'cause
12 that's not an individual dose.

13 **MR. ELLIOTT:** Both points --

14 **MR. GRIFFON:** So that's the --

15 **MR. ELLIOTT:** Both points made lead us to
16 the same dilemma, and I think that dilemma would be
17 evaluated and the research and recommendation on how
18 to handle that would be accomplished within what we
19 would do in evaluating the petition. That's the
20 research that we would examine, part of the research
21 effort that would go into evaluating the petition.

22 **MR. GRIFFON:** Okay, well --

23 **DR. ZIEMER:** Mark, I'm looking at my notes
24 here and then get to Jim. Let's see, one of the --
25 last time when we had some general questions raised,

1 one of them -- there was questions on definitions,
2 one of which I jotted down as ill effects. I guess
3 that's what you were referring to then, what the
4 definition of --

5 **MR. GRIFFON:** And I have some of these
6 thoughts written out which I can provide to the
7 working -- but just the question of endangered
8 health, whether -- you know, just this whole notion
9 of trying to -- I mean we discussed this at the last
10 meeting, the question -- you can't do an individual
11 dose reconstruction, but somehow we're saying we
12 have enough information to do a worst case estimate
13 and then plug it into IREP and make an -- you know,
14 make a sort of quantitative judgment on endangerment
15 of health. And I just wonder if that's -- you know,
16 I just wondered if the group had discussed that and
17 whether there are other options that might be more
18 appropriate.

19 **DR. ZIEMER:** Okay. And I'm not sure how
20 we'll address that here, but if you have some ideas
21 on wording, that would be helpful. Jim.

22 **DR. MELIUS:** Yeah, thanks. One is to follow
23 up on that point. I do think it comes back to this
24 issue of the criteria for when you can't do a dose
25 reconstruction with sufficient accuracy, and we

1 talked about that last time. Some of the points I
2 think Tony had made last time, also, and we've got
3 to act. We've got this endangerment issue and now
4 we've got sort of a third situation where this --
5 we've run into this, if we have someone with a
6 cancer that doesn't qualify for SEC, has some
7 history outside of the Special Exposure Cohort
8 period, how do we deal with their dose. Is there a
9 situation where we would take -- somehow take some
10 of the information on their exposures during the SEC
11 period and apply it to their individual other
12 information. I mean it just -- I'm just
13 uncomfortable just doing it always on a case-by-case
14 basis 'cause I think we're going to end up with
15 arbitrary and basically unfair decisions.

16 I've written up some comments which I think
17 are being copied and will be circulated and I think
18 we can talk about them tomorrow. I also believe
19 that in the minutes for this meeting I captured
20 particularly some of Tony's comments that -- from
21 the last meeting that we can probably incorporate
22 some of that language, also.

23 **MR. GRIFFON:** And just to pick up on Henry's
24 point, you know, the transcripts did -- and I'd be
25 very interested in the Hanford and Los Alamos

1 meeting 'cause you said that was -- both were very
2 telling, very instructive, and I think one place
3 this was picked up on was NIOSH staff response to
4 these questions, so I think that would help the
5 Board in wrestling with some of these issues.

6 **DR. ZIEMER:** Any other comments right now on
7 Special Exposure Cohort?

8 (No responses.)

9 **DR. ZIEMER:** Let me ask the members of that
10 group if they're available for a while this evening
11 to look at the input. Tony? Gen, you're involved.

12 **DR. ROESSLER:** Wanda is.

13 **DR. ZIEMER:** Wanda was. Sally, were you?

14 **MS. GADOLA:** The working group?

15 **DR. ZIEMER:** The working group.

16 **MS. GADOLA:** You're talking the working
17 group on the --

18 **DR. ZIEMER:** The SEC working group -- Tony,
19 Wanda -- who else was involved? Sally. Robert,
20 were you in there?

21 **MR. PRESLEY:** No.

22 **MS. MUNN:** As long as I'm well-fed.

23 **DR. ZIEMER:** As long as you're well-fed.
24 Perhaps we'll go ahead and take our break right now
25 so that the speakers will have their --

1 **MR. GRIFFON:** Paul --

2 **DR. ZIEMER:** A question first?

3 **MR. GRIFFON:** Paul, can I ask -- is -- if
4 you -- I'm sorry.

5 **DR. ZIEMER:** Oh, I'm sorry, Mark.

6 **MR. GRIFFON:** If you can maybe let us know
7 when the working group might be meeting or where you
8 might be meeting 'cause if I have some written up
9 stuff I can drop it with you.

10 **DR. ZIEMER:** Sure.

11 **MR. GRIFFON:** Okay.

12 **DR. ZIEMER:** Okay, let's take a 15-minute
13 break and then we'll reconvene.

14 (Whereupon, a recess was taken.)

15 **DR. ZIEMER:** We're going back to order.
16 We're going to switch the agenda slightly, simply
17 because we have some problems loading one of the
18 slide sets onto the projector, so we're going to
19 start the paper by Michael Schaeffer and then we'll
20 back up and pick up the presentation by Jerry
21 Steele.

22 Mike Schaeffer is a senior health physicist.
23 He's had -- at the Department of the Navy -- well,
24 Department of Defense. He's had 22 years of
25 experience at the Department of Navy in designing

1 and deploying and maintaining dosimetry and
2 radiological instrument systems and programs. For
3 the last 11 years he's been at the Defense Threat
4 Reduction Agency. That was formerly the Defense
5 Nuclear -- well, Defense Nuclear Agency and Defense
6 Special Weapons Agency, I guess.

7 He's been involved in reviewing a lot of the
8 nuclear test personnel information in the registry
9 for atmospheric nuclear test veterans, also manager
10 of DoD reclamation and experiments command center.
11 Is that the right title?

12 **MR. SCHAEFFER:** Radiation.

13 **DR. ZIEMER:** Yeah, I'm trying to read
14 somebody's handwritten notes and they're -- it's not
15 my writing. Is it radiation experiments command
16 center?

17 **MR. SCHAEFFER:** That's correct.

18 **DR. ZIEMER:** I guess I could read that as
19 radiation. It's -- but Michael is going to talk to
20 us about the dose reconstruction work that relates
21 to the atomic veterans program. We're all
22 interested in sort of how they're doing that insofar
23 as it might give us some ideas in terms of how we
24 review some of the records that we'll be facing
25 ourselves. So Michael, we're pleased to have you

1 here and please, if you would, take the podium.

2 **MR. SCHAEFFER:** I appreciate the opportunity
3 to come here today and discuss the dose
4 reconstruction program of the atomic veterans.
5 Atomic veterans is a term that applies to those
6 folks that were exposed during atmospheric nuclear
7 testing, mainly from the period of 1945 to 1962.

8 What I'd like to do for the short period
9 today is explore a unique opportunity to understand
10 dose reconstruction within the context of our
11 nuclear test personnel review program. Before dose
12 reconstruction, we need to of course set the stage
13 for some other things.

14 For whom was this program started and what
15 are the influencing factors of the program that have
16 affected the conduct of business over the last
17 number of years? And of course how does the program
18 operate? And I think that's of great interest to
19 this panel because there's a lot of comparison and a
20 lot of contrast between what you're engaged in
21 starting to do and what we've been doing for over 20
22 years. And of course, how does dose reconstruction
23 fit and what are the significant issues of dose
24 reconstruction that have risen over the particular
25 years? I think those items you're going to find

1 quite fascinating in that you're probably going to
2 have to grapple, as a advisory committee and also
3 the other factors, the other agencies in the program
4 are going to have to grapple with some of these
5 very, very similar issues somewhere along the lines.
6 And of course then there'll be a brief summary at
7 the end.

8 Program serves almost exclusively veterans,
9 maybe less than 1,000 civilians. The gender of the
10 population is almost exclusively make, perhaps a few
11 hundred females in this particular population. The
12 U.S. atmospheric testing from '45 to '62 encompasses
13 20 test series and in total approximately 235
14 individual nuclear tests. The particular
15 operational period for these tests extend through
16 somewhere between as short as three months over nine
17 months, and then of course it covers a period of
18 participation six months thereafter, because there
19 are activities engaged with the testing.

20 We also -- later on the population of post-
21 war occupation troops at Hiroshima and Nagasaki were
22 covered. Basically these are people who were within
23 a ten-mile radius of Hiroshima and Nagasaki, and
24 also were there a six-month post period from the
25 actual occupation period. Also covers certain POW's

1 that were around during the time when the
2 detonations occurred.

3 We also use the Department of Veterans
4 Affairs definitions to decide who the test
5 participants are and who they aren't, and Jerry
6 Steele and Neil Otchin will talk more about those
7 particular definitions in their presentation.

8 There's 13 public laws in all that govern
9 the program. The one important one is Public Law
10 98-542, enacted in October, 1984, important from two
11 aspects. As you'll see when Jerry Steele gives his
12 presentation, there are a number of things that came
13 about during that period of time establishing
14 specific compensation programs for veterans exposed
15 to radiation, not only nuclear tests, but other
16 radiation risk activities within the DoD. Also the
17 very important thing that it did for our program is
18 it established a requirement for our coming up with
19 standards for dose reconstructions for atomic
20 veterans. It will become clear to you in a short
21 while as to why dose reconstructions are important
22 for this group of veterans.

23 Other programs that are covered, Department
24 of Justice over on the right-hand side, that
25 reflects the Radiation Exposure Compensation Act,

1 which I believe you are familiar with. And also
2 another mention of the dose reconstruction
3 standards. We went through extensive *Federal*
4 *Register* comments, much like you did with 42 CFR
5 part 82. We also, in addition to that, we vetted
6 those reviews with the National Academy of Sciences
7 before we actually published the final document for
8 dose reconstruction standards.

9 The program as we know it today started in
10 1978. Vice Admiral Monroe, who was the Director of
11 Defense Nuclear Agency at the time. There was a lot
12 of Congressional interest in radiation exposures to
13 people in general, namely the military and people in
14 DoD. It was right during the era that was just on
15 the heels of Three Mile Island, so there was a lot
16 of public focus on radiation issues. And basically
17 Vice Admiral Monroe promised Congress that he would
18 start a program that would establish a registry for
19 atomic veterans and try to establish the maximal
20 dose as to which this cohort of people was exposed
21 to. And basically our program has the Veterans
22 Outreach Program as a result of that where we have
23 people who could call in to us through an 800 hot
24 line number. The basic information we provide is --
25 can be summarized in two questions. Was I there?

1 And what was my radiation -- what radiation dose did
2 I receive by being there?

3 Of course as we've gone along the program we
4 have supported Congressionally-mandated scientific
5 studies conducted by the National Academy of
6 Sciences. Two that have been most important in the
7 program have been the study of crossroads
8 participants. That was the Navy participants,
9 Operation Crossroads, in 1946, a cohort of about
10 40,000 Navy participants. Also we did later on two
11 studies, a basic and a follow-on study of what we
12 call the Five Series Participants. Those were
13 participants that were at [Greenhouse Castle,
14 Upshot, Knothole, Plumb-bob and Redwing]*, so those
15 are the five series. That's why it has the name
16 Five Series.

17 Right now we don't have any work under way
18 with the National Academies looking at mortality
19 studies of atomic veterans.

20 There's four ways veterans can make contact
21 with the NTPR program. One is by filing a VA claim,
22 another by filing a claim with the Department of
23 Justice. They can also reach us through their
24 Congressman, and most of them of course reach us
25 individually since early on in the program we

1 publicized widely in many newspapers, veterans'
2 magazines, what-have-you, the 800 hot line number,
3 so they know where to get ahold of us. And I'd have
4 to say the traffic today, about 60 percent of the
5 traffic comes by way of veterans affairs claims.
6 The bulk of the rest of the business is from
7 individuals who call in to the program or write in
8 to the program. We also receive Congressionals on
9 the order of two Congressional inquiries a month at
10 this particular point in time. Traffic into the
11 program is about 100 -- or 80 to 120 transactions
12 per month, to give you an idea of the traffic we
13 have.

14 As far as transitting through the process,
15 it takes anywhere from 90 to 120 days for a request
16 to transit the process. The metric that we use
17 that we know that we get the best customer
18 satisfaction is if we can turn around answers -- 75
19 percent of the transactions in 90 days, we generally
20 have a good customer satisfaction rate, and we're
21 running above that at this particular point in time.

22 The difficult cases take longer. I heard
23 some of you talk about difficult cases where you can
24 get stacks and stacks of information. We have
25 those. Some of those can take longer than the 90

1 days, some of them can go up to six months,
2 depending upon the complexity. Most of that
3 complexity is driven by the fact that we can't put
4 the person there behind some kind of record, and we
5 just keep digging and digging and digging for the
6 eventual record. If we can't find it in their
7 personnel record, we know what military unit they
8 went to. The fortunate part about our cohort is we
9 can track people by military records, which are
10 very, very robust. You have the name of a military
11 unit a person says they were in. If we can't track
12 that personal record, we can get the report from the
13 military unit and track them through alternate
14 means. So we go through a rather exhaustive means
15 of trying to put the person at the -- connect the
16 person with the particular event.

17 The research that we do is answering the
18 basic question of who, what, when, where and why in
19 terms of trying to put together the information to
20 back up before we do the dose reconstruction.

21 That goes next to the dose reconstruction
22 process, and I'll point out to you that the archival
23 search and the dosary* search is actually done by
24 two separate contractors. We do have them united by
25 a teaming arrangement, but basically there's some

1 objectivity and distance in bridging the process
2 between archival search and dosary search.

3 That all culminates together in a package of
4 the outgoing letter, which comes to me. I'm the
5 final review authority that checks off to see if
6 there's an adequate research done, adequate time
7 spent in drawing the conclusions. Did we draw on
8 all the references that we have in the program for
9 doing the dose reconstruction. Once that's done and
10 I sign off the package, then it's mailed to the
11 veteran or mailed to the Congressman or mailed to
12 the VA.

13 Then of course we database all the
14 information we gathered during the process. And
15 it's very, very important later on because when we
16 see a veteran that performed common activities to
17 the veteran we just processed, it's good to have
18 that history of the research that we're not re-
19 inventing the wheel again, and also from the
20 standpoint that the next veteran may give us
21 something that adds to the experience of the first.

22 This gives you an idea of the traffic coming
23 in to the program over the last ten years.
24 Basically the demands on the program are driven by
25 events outside the program -- new laws, new

1 Executive Department initiatives. There are also
2 some unpredictable trends, just what our veterans
3 feel about the program. For instance, in 1994 we
4 had the emergence of the President's Openness
5 Initiative on Human Radiation Experiments. And even
6 though atomic veterans didn't, by definition, fall
7 into the program, you can see it caused a lot of
8 awareness and a lot of writing in to our particular
9 program, even through the Radiation Experiments
10 program, so you see traffic was very high in that
11 one year. And you can see the peripheral years
12 around it, as well.

13 We go down further to 1998, that was driven
14 by our publishing the availability of a very limited
15 bioassay program, and this caused a lot of veterans
16 to write in to the program to queue in the line to
17 make themselves available for urine bioassay.

18 And now we go to 2002 and you can see that
19 that's almost twice the number that we received
20 during calendar year 2001. The driver for that is
21 the Department of Veterans Affairs Secretary
22 established a program and a tiger* team in
23 Cleveland, Ohio to process some of the older
24 veterans' claims more efficiently and kind of took
25 the one bite out of the elephant of looking at that

1 factor of claims of veterans older, dying for some
2 reason whose claim has been laying in the queue for
3 a long period of time. So the folks of that team --
4 we've gotten much more traffic from the tiger team.

5 Basically historical information document
6 collection is very crucial before you can do a dose
7 reconstruction. And basically when a veteran writes
8 in to us, we want to focus on what are the questions
9 that the veteran has, what are the issues the
10 veteran wants treated. Basically when we go back
11 and answer the veteran, we try to keep the
12 information brief, to the point, answer the
13 questions, only augment to understand. We find that
14 over the years if you get into a long and involved
15 discussion of the underlying science, you basically
16 confuse them and perhaps lose their confidence in
17 what you're trying to do in concentrating on the
18 basic questions.

19 The main records sources we use are the
20 Personnel Records Center in St. Louis and also the
21 Coordination and Information Center in Las Vegas,
22 Nevada, and that's the biggest collection --
23 hundreds of thousands of pages of documents
24 chronicling what happened during the nuclear test
25 era, all stored in a repository in Las Vegas which

1 DOE and Department of Defense jointly funds.
2 Basically this culminates in all the document
3 research that was done early on in the program, for
4 the first ten years of the program, since 1978.

5 Now again, as I was saying before, we look
6 for special orders for people if we can't find
7 information, personal records. Again, we collect it
8 anyway. We want to collect as much as we can on the
9 person. We also conduct extensive interviews with
10 the person if the person's still alive, and in the
11 case of the person being deceased, we will talk to
12 the family member who wants to correspond with us.
13 Of course that information is a bit sketchy, but
14 it's part of the information-gathering process. And
15 this all culminates again in establishing
16 participation, and once we know what the person did
17 -- basic who, where, when and why questions -- we
18 construct a dose if needed. In some cases, as Jerry
19 Steele will explain, there's presumptive
20 compensation, very closely akin to your special
21 cohort group, that can receive compensation
22 presumptively without needing a dose reconstruction.

23 So we pull all this together for the
24 veterans. We provide the fact sheet for the
25 program, any of the personnel records and other

1 source records that actually zero in on the person's
2 participation. We make this available to the
3 veteran and to the VA if the VA wants it.

4 This kind of gives you an idea of the
5 technical data that we also collect during the
6 exhaustive search. I believe our job is a bit
7 easier than the job that you have before you in that
8 we're just worried about nuclear test participation.
9 We're not looking at multiple sites. We're only
10 looking at tests done in the Pacific, tests done at
11 Nevada test site, so basically our job is easier.
12 We only have two sites versus -- with a large
13 population versus the job that you've undertaken
14 with your smaller groups of people having done many
15 tasks at many sites.

16 But some of the basic information we want to
17 collect in establishing participation is where was
18 the person? You know, what did the person exactly
19 do when they were on the test site? Where did they
20 go when they went from point A to point B? What
21 were the -- what was the weather? Was it raining?
22 Was it blistering hot? Did it rain later on? Were
23 there winds -- wind directions and so forth, so all
24 this information is very key, as you'll find out
25 later on when we get to the dose reconstruction

1 process.

2 Also lots of information on fallout
3 intensity and duration, lots of survey information
4 that exists in historical records. One of the most
5 important pieces of information we have is shot-
6 specific radiochemical data. We had cloud samplers
7 who went up and actually took samples of the
8 radioisotopes that were in the debris of the nuclear
9 tests that provide some very, very key health
10 physics information in determining the abundance of
11 the up to a few hundred isotopes that can be in the
12 debris, you know, both fission elements as well as
13 transuranics.

14 And again personal exposure data, there's an
15 abundance of film badge data -- not in the early
16 days of the program, but later on as time goes on,
17 we'll talk about that issue. And of course lots of
18 after-action reports that were written that
19 chronicled the various different things that
20 happened at the test site.

21 This block diagram summarizes everything
22 that's in our *Federal Register* description of the
23 procedures and methodology for dose reconstruction.
24 We actually start with trying to gather film badge
25 data. And if we find the film badge data are not

1 complete, we look at other people in the same
2 cohort. These are people doing the same common jobs
3 as the person under question, and we look at the
4 film badges and radiological data for the other
5 people. And again, we ask ourselves the question,
6 especially in the early days of the program, do the
7 film badge doses account for all of the potential
8 for radiation exposures. In a lot of cases we find
9 that it does. So again we have to go and gather the
10 radiological data for the environment in which these
11 people worked and relate it to the particular duties
12 that they did.

13 One of the particular features in putting
14 dose reconstruction together is how to validate
15 those dose reconstruction. Early days, what we did
16 is wherever we had robust film badge data on
17 personnel, we went ahead and reconstructed the doses
18 anyway, just from a priori radiological data, and
19 compared those two results and that allowed us some
20 means of calibrating film badges -- actual film
21 badge dosimetry that was known to be good in the
22 later periods of the program with actual
23 reconstructions from other radiological data. And
24 this gave us the means of calibrating the dose, and
25 of course in all this data that you're collecting

1 during the time, there's scientific uncertainties
2 that were reported with these results, even by
3 contemporaneously, including the instruments used
4 and so forth and the military fare very good. We
5 can go back and actually dig up older technical
6 manuals and calibration procedures to know how
7 accurate instruments were or how inaccurate they
8 were back at that particular period of time. So
9 this is what allows us to actually put together the
10 external dose for people engaged in the testing when
11 film badge data is either robust or in some cases
12 completely lacking.

13 This is a very, very important slide in that
14 it tells you the one radiation environment that we
15 are concerned with for all of our nuclear test
16 participants. On the right-hand (sic) side is
17 immediate -- is at the time of detonation. If you
18 were at a test at the time of detonation, you can be
19 exposed to prompt gamma and neutrons. The time to
20 the right side of the chart is delayed. This is
21 some time after the detonation goes up or weeks,
22 months, hours -- actually hours, weeks and months
23 later. And these are people who, at least on the
24 other side, are exposed to activation products.
25 This is where if you were close enough in, the

1 neutrons could actually activate the soil. We also
2 have descending fallout. If the test of course were
3 close to the ground, ground shots brought up a lot
4 of dust and debris in the fallout cloud.

5 We also have tests that were done in close
6 proximity to one another and also close proximity in
7 time, so you could have troops exposed to fallout
8 that's on the ground from a previous test. And also
9 you can have fallout that is deposited on the ground
10 from all of these sources of course that get lofted
11 into the air and resuspended, so there's another
12 opportunity for exposure.

13 To give you an idea in the immediate range,
14 that's -- you're talking about being 5,000 feet or
15 closer at the time of detonation. And I can say, at
16 least from our population, is no one was closer than
17 2,000 feet. We have about 1,000 out of the few
18 hundred thousand that were between 2,000 and 10,000
19 feet. About one-quarter of the population, 50,000,
20 were up to six miles away, and then the rest of the
21 population were further away and exposed basically
22 to delayed sources of radiation.

23 We have two types of dose reconstructions in
24 the program, the generic dose reconstructions.
25 These were done early in the program when we defined

1 cohorts of people engaged in common military
2 activities. We performed dose reconstructions based
3 on a unit engaged in common activities, what was the
4 worst case dose that these people could have
5 received if they were engaged full-time in the
6 activity from start to finish of an operation. And
7 again, it provides a maximal upper-bound dose for
8 any military unit that was engaged in a particular
9 operation. And this was the goal of the program in
10 the early days as envisioned by Vice Admiral Monroe
11 was let's determine the worst case doses people were
12 exposed to, and I think that was a worthwhile goal
13 during that period. This is before any movement
14 came along to say that we were going to be engaged
15 in compensation programs. And as you can see, later
16 on that provides a little bit of a tension that's
17 been created in the program over the years.

18 As time went on, with the emergency of
19 Public Law 98-542, we shifted from group
20 reconstructions into individualized dose
21 reconstructions. These are uniquely constructed
22 based on the actual activities of the people. We
23 perform them only upon receipt of the inquiry on a
24 person. It's based on the actual activities and the
25 anecdotal information they give us in terms of

1 trying to resolve the inconsistencies. You talked a
2 little bit about that in your process, and I can't
3 add any more to it except that we struggled in the
4 same way that you do in terms of trying to reconcile
5 the information. It's very difficult for these
6 folks 50 years hence to remember all of the details
7 they were involved in.

8 What we generally do, if they say they were
9 -- we say they were engaged in activity A and we
10 know they went to activity B and they say well,
11 along the way I did this, if it consistent with the
12 movement where they went in moving from one point to
13 another, we're going to give them the benefit of the
14 doubt and include that activity. Furthermore, if we
15 have any kind of military history that says well,
16 they did another event along the way that they
17 didn't remember, we're going to credit them with
18 this information, as well. And they may come back
19 to us and say well, I don't remember ever having
20 done that, I don't know why you're putting this in
21 the dose reconstruction. I guess comically
22 sometimes they fight about this, say why are you
23 adding this to me? Actually, we say, we're trying
24 to give you some more dose that is consistent with
25 the military records, so that happens in the

1 process.

2 And sometimes we have to use the first type
3 of group dose reconstructions to fill in those
4 activities. If we don't have the specific details,
5 we'll give them the maximal dose for something that
6 they plausibly could have been involved in and they
7 didn't remember.

8 Building the participation scenario, very,
9 very important to dose reconstruction because it
10 establishes time and place in a radiological
11 environment. And very much like your process, we
12 construct the tentative scenario based on
13 information we have from the military records. And
14 again, there's some incompleteness there and what we
15 do is do a careful triage between the two
16 contractors in terms of what do we know from the
17 records versus what we don't know from the records.
18 What are other plausible activities that could have
19 resulted in exposure to sources of radiation.
20 Again, we work in the experience of the veteran, if
21 the veteran is alive. If the veteran is not alive,
22 this is where it really gets sketchy. And I haven't
23 heard that during some of the discussions of your
24 Board meetings here is what do you do for folks that
25 are not living? I'm presuming that they can still

1 file a claim and you'll still have to do a dose
2 reconstruction, but how do you work around the fact
3 that you may not have a prime source of anecdotal
4 evidence?

5 Again, after this is all done, we construct
6 the final activity scenario. We identify the
7 sources on certainty from the historical records and
8 we provide this to the dose reconstruction team as a
9 result of the triage of activity and the compilation
10 of the records.

11 These are some crucial technical data that
12 we must gather for each -- device output spectrum is
13 very, very important. It tells you the
14 radioisotopes in the cloud and it tells you the
15 relative abundance of them. Very, very important
16 for constructing internal doses, and we'll have some
17 -- we'll talk more about that.

18 Also if we have the folks who were exposed
19 to prompt neutrons. Again, during the time, we
20 didn't have neutron dosimetry to measure this
21 important component of radiation exposure, and if
22 they were close enough, they're certainly there.
23 And we use our conventional transport codes to come
24 up with neutron doses.

25 We have to normalize field measurement data

1 because it's taken at different points in time. If
2 you read a lot of our text, you have terms like H
3 plus 1, D plus 1. That's hour plus one. Day plus
4 one, that's talking about time elapsed since the
5 actual shot. We want to normalize to something like
6 the first hour after the shot. We want to bring all
7 the data back to that normalized position.

8 Next we look at free-air exposures occupied
9 at shot time, the troops that were -- the few troops
10 that received neutron exposures that were in
11 trenches. So then of course we use time, distance
12 and shielding in terms of what would have been the
13 neutron dose if they were partially shielded, chest-
14 high out of the trench, so that's also added in
15 there.

16 Then again all of the associated
17 uncertainties with the scientific techniques we use
18 of course are overlaid onto the process.

19 So that's the initial environment. Now we
20 shift to the residual radiation environment, and
21 again there's a wealth of radiological data that's
22 been collected at the time. There've been contours
23 drawn and basically it's take all this data and
24 normalize it to one particular time component so we
25 have a standard frame of reference. And again,

1 we're trying to overlay the participant walking
2 through these contours of radiation -- varying
3 radiation levels to integrate the external gamma
4 dose. And at this particular time we look at
5 environmental data to say what were the potentials
6 for internal exposure, either through ingestion,
7 inhalation or absorption through the skin, although
8 that becomes a very small component.

9 So again this particular point, once we
10 understand the external exposure for the residual
11 environment -- residual dose environment, then we
12 start to think about how we're going to do an
13 internal dose.

14 Now for each shot, in order to conduct this
15 calculation, we have to look at the decay rate, and
16 that's been empirically determined for many of our
17 particular tests. If you look at the -- again, the
18 radiochemical mix, there's been plots of how the
19 radiation measurements decay over time. Most of
20 them decay by T to the minus 1.2. In some
21 environments it's minus 1.3 and then some -- if the
22 -- you've got weathering involved, it could be minus
23 1.4, but all of these are well-established from
24 empirical measurements. So we have to apply that
25 factor to a particular situation.

1 Again we have to normalize it back to a time
2 base, an hour after the shot, then we draw maps of
3 whatever the isopleths of radiation that were at
4 hour plus one. And then of course we identify the
5 uncertainties associated with applying these
6 factors.

7 Of course what we have is you had some
8 troops involved in a couple of days of the
9 operation. You have multiple surveys done in space
10 and time. You have troops marching in where the
11 radiation is not only varying by contour, but it's
12 varying by decay. We do linear regression on the
13 [level wealth of this data]* to decide what's
14 happening in terms of walking out from ground zero,
15 what type of radiation levels you could expect.
16 Then we characterize that field in surface and time,
17 just what's going to happen with it, and we overlay
18 on that the actual marching of the troops, going
19 through some defined maneuver that you can find in
20 the military records across this varying radiation
21 field in space and time. And again, using computer
22 models and so forth, we can come up with an
23 integrated dose for a troop activity, marching
24 through a couple of days of varying radiation
25 fields.

1 This is a very, very key chart for dose
2 reconstruction of internal doses. The block in the
3 middle, activity concentration, is the main quantity
4 that one must have in order to honestly do a
5 internal dose reconstruction. And if it weren't for
6 the radiochemistry and film badge data, it would
7 probably not be possible to do an internal dose
8 reconstruction. And what we do there in mating
9 those two pieces of data together to make this
10 possible is if you know the relative abundance of
11 the isotopes in the cloud, you know the gamma
12 emitters from all of those isotopes, you have a film
13 badge on a person who is being exposed to the gamma
14 component of these isotopes in space and time, you
15 can go back and actually calibrate what the
16 radiochemistry should give as far as some kind of
17 absolute output.

18 Once we do that particular calculation, then
19 we go back and we can derive an actual activity
20 concentration corresponding to that particular time,
21 like going back again to the relative abundance of
22 all the other elements of the alpha, the beta, the
23 gamma and all the radioactive constituents and
24 construct an activity concentration. After we've
25 done that, then we enter it into all of the internal

1 dose models that we're accustomed to using. In our
2 particular program we originally started with ICRP-
3 30 and we still, for the most part, use ICRP-30, and
4 I'll explain why we're not using more modern models
5 today. I'll just give you a reference point. We
6 use organ dose factors that -- also from ICRP-30 to
7 move from the activity to the dose for the
8 particular model, and also we check this through
9 consistency with other radiological measurements to
10 make sure again that we have some reference
11 calibration to film badge data. And this is, in
12 short, how we do the internal dose estimate.

13 Again, before I showed you the radiochemical
14 analysis, very crucial to this. Also the
15 conditions, what kind of winds did you have ongoing?
16 What kind of surface level measurements did you
17 have? What kind of resuspension did you have at the
18 particular time? This is where we get into the
19 realm of making some assumptions.

20 As you know, resuspension is a factor that
21 is very, very hard to tie down, even from all of the
22 literature data. The best you can tie resuspension
23 down is perhaps by order of magnitude by a factor of
24 ten. Most of the resuspension factors we use are
25 ten to the minus six, ten to the minus five, ten to

1 the minus four. We do have some special situations
2 where it could be minus three or minus two. But for
3 the most part, if we're going to err on the side of
4 the veteran here, if we have a choice of picking say
5 ten to the minus five or ten to the minus four,
6 we're going to pick ten to the minus four, just for
7 making sure that we're not underestimating the
8 radiological condition.

9 Again, we have external doses to calibrate
10 everything back to. I think that's a very, very
11 crucial point here. If you have a situation where
12 you have good dosimetry at some point in your
13 program, that allows you to do that.

14 Urine bioassays, early on in the program
15 there were small cohorts of people had urine
16 bioassays. We haven't found them to be of too great
17 a help because they are gross measurements. They're
18 also -- did not have the accuracy in those days. We
19 find a very difficult time correlating bioassay
20 measurements back to doses. I guess the factor that
21 works best for us here is the bioassay data usually
22 complements the film badge data, so really they were
23 not of any necessity -- it doesn't help us very much
24 in doing a dose reconstruction. I think they were
25 taken at the time to provide, at the time, high

1 exposure cohorts to see what kind of internal
2 exposures they might have had.

3 But we've also done some modern-day
4 bioassays, plutonium bioassays, and I can say from
5 the limited experience we had in doing a pilot study
6 is it's really not given us any kind of data that we
7 can rely on for a dose reconstruction. In fact,
8 most of the uncertainties in the process are such
9 that it just doesn't give us the degree of
10 sensitivity in looking at internal doses by some
11 alternative means, although we've tried very hardly
12 (sic) to try to get that to work.

13 But again we take a conservative selection
14 of some of our assumptions. We talked about
15 resuspension. Breathing rates, if the troops were
16 marching at a kind of fast rate, we're going to use
17 a breathing rate out of ICRP-26. Now I think it's
18 been updated to ICRP-123. That is conservative with
19 respect to the stress of the activities that they
20 were undertaking as a marching troop into a fallout
21 -- or a deposit fallout field.

22 Also the duration of the exposure, if we
23 can't tie down precisely how long the person or
24 troops were in a fallout field, we're going to
25 assume that they were there for the longer period of

1 time.

2 Activity fraction of each isotope, we're
3 going to make the most conservative of the estimates
4 there if we don't know. Particle size kind of comes
5 into that equation. One is if we can't determine
6 what the particle size is, we're going to assume
7 that it's a ten micron particle size with the
8 following exception that if we know that there's a
9 larger particle size that would promote a larger
10 dose to a specific organ, we're going to use that.
11 In case of lung, we're going to use a 20 micron
12 particle size because that maximizes the dose to the
13 lung for the particular veteran who needs a lung
14 dose. So again, we're always working on the maximal
15 side.

16 What we try to get out of the internal dose
17 is a 50-year dose commitment to a specific organ.
18 That will become clear to you why we picked that as
19 the dose.

20 Once we've done the dose reconstruction, now
21 it's the reporting requirement. Under 32 CFR 218 we
22 have to come up with an external dose that's based
23 on the alpha, beta, gamma. We also have to come up
24 with external neutron and we have to report the
25 range of uncertainties for the doses. And of course

1 if you look at the standard, it's not very specific
2 on what type of internal dose that you're supposed
3 to report. It doesn't say whether you're supposed
4 to report a total effect dose equivalent, an
5 effective dose equivalent or dose equivalent just is
6 very, very open.

7 And what do we do in that case? Well, we go
8 to our customer, the VA, and say well, what is it
9 that we must provide to the VA in order to fulfill
10 the requirements of a claim submitted by a veteran?
11 And in doing so we provide a total external dose
12 with a 95 percent upper bound in rems. We also
13 provide an internal dose to a specific organ and --
14 that corresponds to the VA-claimed disease. The
15 internal dose we do not provide a range of
16 uncertainty on. It's inherently high-sided for some
17 of the reasons I mentioned before. If we're going
18 to pick resuspension factor, it's going to be on the
19 high side. If we're going to pick a breathing rate,
20 it's going to be on the high side. So every
21 internal dose that we provide because the
22 assumptions is inherently high-sided.

23 Of course if there's an eye and skin dose
24 needed for a particular VA claim, we provide that
25 when there's a related disease for the eye or the

1 skin, such as your basal cell carcinoma.

2 The veteran-provided doses we do something a
3 little bit different. We give them the total
4 external dose with the upper bound. Internal organ
5 doses, we don't provide it, and the reason we don't
6 provide is that particular time when a veteran
7 corresponds with us, it's unclear to us whether
8 there's a specific disease process involved yet at
9 that point, or the veteran may just want some
10 baseline information, trying to make up his mind as
11 to whether he wants to submit a claim to the VA or
12 Department of Justice. And if we provide of course
13 a total effective dose equivalent internal dose,
14 that's going to clash and be confusing with
15 transmitting the dose to the VA later on. As you'll
16 see, an organ dose is not going to correspond to a
17 total effective dose equivalent internal dose, so we
18 don't report that for the mere fact that we don't
19 want to promote some confusion in passing out
20 radiation information. Lord knows from the myriads
21 of letters we receive from veterans, it's very
22 confusing just to explain basic radiation units and
23 principles to them, so we try to keep this at a
24 simple level.

25 And of course we very, very much stress to

1 the veteran that even though we're providing them
2 some basic dose information, he doesn't need to have
3 this information in order to file a claim, and that
4 will become evident to you when Jerry Steele and
5 Neil Otchin talk about the VA regulations. One of
6 the common myths is the veteran believes that he has
7 to have a delineation of radiation dose in order to
8 file a VA claim. In fact in some cases I think they
9 have to have proven participation information. And
10 again, none of these of course would prevent a
11 veteran from filing a claim. If they don't have
12 participation and dose information, they can still
13 file a claim. VA, by their regulations, of course
14 are bound to come to us and get that same
15 information all over again, so again, you can see
16 this process is doubled up somewhat in the minds of
17 the veteran.

18 Next course of slides I'm going to get into
19 some of the special issues in the program that have
20 arisen over the years, and I think you want to pay
21 particular attention to these in terms of some of
22 the things that have caused us heartburn over the
23 years.

24 First is reporting film badge doses. We
25 believe that the film badge doses you report have to

1 mirror what's in the record. And in our particular
2 program, film badges weren't widely worn by folks.
3 When I say widely worn, in '56 there was a policy
4 that said we'll put a film badge on every person
5 that goes into the test area. Of course the reason
6 for that is through the 1940's and 1950's, film
7 badge dosimetry was still an emerging dosimetric
8 technology. Not all the bugs were ironed out in it.
9 Of course there were manufacturing problems and
10 because you couldn't mass-produce film dosimetry at
11 that time, there were a lot of people who were
12 engaged in radiation risk activities that didn't
13 have badges, and those were kind of operational
14 decisions made at the time. But as we get later on
15 into '56, the technology was not much better.
16 Again, the drawback is it only measures the external
17 gamma component. And also the benefit of film is
18 many of the films that atomic veterans wore, we can
19 actually go back to our repository at Los Vegas,
20 recover them and actually look at the image on the
21 badge.

22 We found for a few of our test series -- in
23 1956, for instance, Redwing; in 1962, Dominick* --
24 that some of the badges suffered environmental
25 damage -- heat, humidity, light leakage. Again, we

1 were just learning how to mass package dosimetry and
2 put it on people in a very, very damp and oceanic
3 environment in the Pacific, and so we had to learn
4 the hard way that film badge dosimetry en masse was
5 not that simple. And again, you can go back to the
6 records and pull these out.

7 In terms of doing uncertainty analysis on
8 film badges, because we -- Crossroads, perhaps only
9 ten percent of the total dose commitment was done by
10 film badges, the rest was done by dose
11 reconstructions, and we had various different
12 productions of film over the years, we engaged the
13 National Academy in a study to characterize film
14 badge uncertainties. And it's done specifically by
15 series in terms of bias, processing errors and what
16 have you. It doesn't depend on whether you were in
17 the Pacific or whether you were in Nevada test site.
18 It depends on whether you were doing dosimetry for a
19 few months or for nine months.

20 And what we found out in the study --
21 scientific study is it provided us a very, very good
22 basis for doing statistical uncertainty. In fact,
23 we use it quite extensively in our program, and if
24 you haven't seen this particular monograph, you
25 ought to get a copy of it because it's invaluable in

1 terms of the sources of error.

2 But one of the factors that came out in
3 this, it said if you want to get true deep dose
4 equivalents, we're going to have to divide our doses
5 by a factor of -- or multiply our doses on our film
6 badges by a factor of .7, and that was a little bit
7 troubling in the program, as even though that's a
8 good scientific answer, has a lot of good backup as
9 to why the recorded image should be lowered by .7 --
10 again, when we dealt with the public in trying to
11 put that information out, we got lots of information
12 back that you're lowering my dose. It doesn't match
13 what I have in the record. How can you take good
14 science, I don't care if it is the National Academy,
15 you're lowering my dose. That's the dose that's
16 been in my record for the last 30 years. How dare
17 you come along and change the particular dose in the
18 record.

19 We also ran into a discussion of what do you
20 do with damaged film badges. As you know, when a
21 film badge is damaged by heat and humidity, you get
22 a darkening of the image, which relates to perhaps a
23 higher radiation exposure. That I could explain
24 away a little bit better in the program in that when
25 we employed dosimetry you had people side by side

1 who had good dosimetry next to people who had bad
2 dosimetry, so again you could establish some parity
3 in terms of knowing that a darkened image from
4 humidity actually did erase what your radiation dose
5 was.

6 So those are kind of the factors that we had
7 to deal with in communicating film badge information
8 to veterans, and we finally abandoned using the
9 factor of .7 and we used the actual dose of record
10 that's on the film badge, unless of course health
11 physicist in examining the badge says we have a
12 compromised image and a dose reconstruction would be
13 in order. So again the public perception in trying
14 to apply good science on film badges is we're
15 lowering their doses, and it's not a good position
16 to be in so I just want to pass it on to you as you
17 engage yourself in looking at lots of film badge
18 records and I'm sure you're going to run into in the
19 energy cohort.

20 As film badge dosimetry technology emerged
21 through its development, we also had changes over
22 time in terms of radiation limits. Back in
23 Crossroads the radiation limit in '46 was a tenth of
24 an R per day. As time went on, say to the era where
25 we had lots of film badges in the late fifties and

1 mid fifties, it was 3.9 R in 15 weeks, and some of
2 you who have been around the radiation trade can
3 relate to that if you take -- that's a quarterly
4 dose, which if you take times four gives you 15 rem
5 per year limit that we had as our national radiation
6 occupational exposure limit.

7 And of course during the times where we had
8 high accidental exposures, there were special
9 physical exams done on folks, bioassays taken. And
10 we also know from 1956 when we tried to put film out
11 there en masse that it's just -- you just can't put
12 it in a holder and hang it on somebody and go out in
13 a wet environment. It doesn't work that way. So
14 we've had to learn through other lessons learned.
15 But we do have a supplement with a wealth of other
16 extensive monitoring data to back us up.

17 And of course a lot of the things you're
18 going to come across in a business that's done over
19 a number of years where the radiation standards get
20 stricter and your practices get better as you learn
21 more about lessons learned is the information-
22 gathering process, the public's going to want you,
23 along the line somewhere, to admit that the
24 government did them wrong. And of course that puts
25 us in a very precarious position in the NTPR program

1 in that we're only the fact-gathering people in
2 terms of, again, was I there and what dose did I
3 get. And again, we do that by seeing what the
4 records chronicle, without any judgment as to
5 whether there were less strict practices, let's say,
6 in the forties versus the fifties versus the
7 sixties. Certainly you can see how things evolved
8 over the years, and it's quite amazing that despite
9 the changes and practice that, again, the wealth of
10 data helps us go back and chronicle what really
11 happened in terms of what exposures these people
12 received.

13 So again, we report doses based on the
14 facts. You know, the facts and nothing but the
15 facts. Again, we place no judgments over
16 radiological practices, but that's something that
17 you're going to be faced with in terms of people
18 submitting claims is they want the government to
19 admit fault to the radiation dose that they
20 received.

21 What you'll probably run into, does better
22 science always help us in terms of working
23 compensation claims? No, it hasn't helped us at
24 all. It's gotten us into some really heavy
25 quandaries.

1 If you go back to 1985 when we established
2 the program, we used the best ICRP NCRP standards at
3 the time and, again, we used ICRP-30, ICRP-26. Now
4 as dose conversion factors have changed over the
5 years and we looked at better biokinetic models,
6 have we put them into the programs? No, we haven't.
7 We looked at them very carefully and said if it's
8 going to lower the dose to any degree, we're going
9 to leave the old science intact. By the same token,
10 if any of these case-by-case situations raise the
11 dose to the person by applying the modern science,
12 the newer, up-to-date science in dosimetry, we will
13 put it in on a case-by-case basis.

14 So basically our tightrope that we walk is
15 reviewing the new science. If it's going to lower
16 the dose, we make that acknowledgement and then
17 don't put it into effect. If it is going to
18 appreciably raise the dose, we will put it into
19 effect on a case-by-case basis.

20 Again this all kind of contributes to the
21 public perception that science is not helping them.
22 In our cases, if you -- in putting science into
23 effect that lowers people's doses over time as the
24 program matures, people are going to become less and
25 less sanguine with the science, even though we know

1 it's best science, as some of us who are scientists
2 in the room know. And the public perception is
3 you're lowering my dose again and you're helping
4 produce an answer that is not going to help or get
5 me compensated. So you're going to be of course
6 paying attention to that time and time again as your
7 program matures over the years.

8 What I believe is what that's led to the
9 very last bullet on the chart is as the public
10 perceives less and less science helping them with
11 compensation, more and more there's socio-economic
12 solutions such as presumptive compensation that
13 Congress feels the need to come along and award
14 compensation benefits through other means. So you
15 can see how this evolved over the number of years.

16 Here's one that I think really threw the
17 credibility out the window on the NTPR program.
18 We've been engaged since 1978 in coming up with the
19 maximal doses to cohorts of people. Again, Congress
20 came along and said we're going to do individualized
21 dose reconstructions, so when you move from maximal
22 doses to units to individuals doing specific things
23 over specific periods of time versus an entire
24 operation, doses are going to go down. Even though
25 we know an individualized dose is going to be a

1 better dose for that person, in the minds of the
2 person who say wrote in to the program in the era
3 between 1978 and 1984 now submits a claim because
4 there's a VA program, the dose is going to go down.
5 And this happened -- this happens time and time
6 again in our program. We see people writing in
7 accusing us of lowering their doses.

8 Of course if you really look at all factors
9 considered, when we went to individualized doses we
10 also were required to account for periods of
11 exposure that weren't covered by film badges. So
12 actually doses kind of go in both directions as
13 doses not only go down from the generic dose, but if
14 there have been specific instances that are not
15 covered by any of the information we have, the dose
16 can climb back up. Again that leads the public to
17 believe when they write in as we have gained more
18 and more historical information over the years that
19 we really don't have a handle on what the dose is.
20 And as time has gone on when we've gotten better and
21 better information both from historical records and
22 for other veterans engaged in the other activities
23 and their buddies write in, we get a better
24 definition of what they did. And when you get a
25 better definition of what you were engaged in, the

1 doses generally are going to go down. So it's one
2 of these perceptions that the veteran feels that
3 there's no net gain here at all in learning more
4 about the process as time has gone on.

5 And of course this has redoubled over the
6 years, despite the fact that we've had NAS look at
7 our dose reconstructions. Again, the public regards
8 dose reconstruction in our program with very, very
9 high suspicion, and this is the area of our program
10 that carries, still to this day, the highest
11 controversy with any group -- Congress, the general
12 public, veterans at large.

13 Another misconception is accuracy of doses.
14 You have to really view accuracy in terms of what
15 the program's intended to do. We started these
16 programs with the idea in mind -- at least we knew
17 from the direction of Congress that we're going to
18 support compensation programs. The need for
19 accurate doses can be very, very highly
20 misunderstood. If you're supporting a compensation
21 program, are you really interested in taking a
22 yardstick that's 36 inches long and precisely trying
23 to come up with a limit around 36 inches. Or do you
24 find measuring 40 inches on the yardstick's good
25 enough and you move on. Again, in terms of working

1 with the VA programs, we're trying to give benefit
2 of the doubt to the veteran. We view accuracy not
3 in terms of how accurately can you measure 36 inches
4 in the yard, but if we, through the information, can
5 only get 40, 42 inches of the yard, that's good
6 enough for the veteran, provides some margin of
7 error and benefit of the doubt.

8 In 1985 and 1995 the National Academy of
9 Sciences took a hard look at our dose reconstruction
10 program, '85 when we first started it, '95 when we
11 were doing the mortality studies, and they
12 recognizes (sic) that high-bounded doses are good
13 for compensation program, but any -- anything that
14 we're doing in terms of central tendency valued
15 doses, we really aren't a program that's doing that
16 to any degree of accuracy, so one can get the
17 misconception here that NTPR doses are not accurate.
18 Scientifically they're not accurate. Are they high-
19 ended in terms of serving the compensation program?
20 Surely they are, and that was the intent for our
21 performing dose reconstructions.

22 Independent oversight, that's a very, very
23 important issue. The Energy Workers Employee
24 Compensation Act started off with this advisory
25 panel. This is a very, very good thing. We didn't

1 have this in the NTPR program in the early days, or
2 we had it in some kind of fragmented fashion. In
3 1985 and '95 the NAS of course looked at our doses.
4 They said they're not accurate enough for
5 epidemiologic study, and certainly I would not take
6 our doses and our database and submit them to any
7 review for epidemiologic purposes because they're
8 high-sided. And I think you all know high-sided
9 doses are going to produce low-sided risk estimates.
10 For the fact that we have a gamut of doses that
11 could be accurate to high-bounded, you're going to
12 have risk estimates that are off to the same degree.
13 But they are adequate for supporting compensation
14 programs, and I think one of the early-on comments
15 to your program is how do you wed the two together.
16 Can you wed compensation with the goals of doing
17 scientific epidemiology later on.

18 I don't think you can. I think if you're
19 going to pick one goal versus the other, you're
20 going to get there from here. If you pick
21 epidemiology as your goal, you're probably going to
22 get very, very expensive dose reconstructions.
23 They're going to be highly accurate. They're going
24 to serve the purposes, but again, are we going to
25 serve the public by sparing that expense. If you go

1 to supporting a compensation program, which some of
2 you I see in reading your *Federal Register* is you've
3 got some connection that if your dose in the worst
4 case is never going to get you to a good probability
5 of causation number, finish the work and walk away
6 from it. Or by the same token, if the dose is very,
7 very high and already gets you there to the answer,
8 are you going to go the extra yard to get the rest
9 of the radiation dose. If that's your main content
10 of your program, I don't think you would be able to
11 really look at doing epidemiology, so it's something
12 that you all need to consider, that you're probably
13 going to have to sacrifice one for the other.

14 GAO of course came in and looked at our
15 program in January, 2000. They confirmed the
16 previous NAS finding that we're doing high-sided
17 dose estimates. They also said there's no better
18 alternatives to dose reconstruction. This was even
19 taking a look at our preliminary results on our
20 plutonium bioassay. But they did note that we did
21 not have an independent review process, that
22 apparently the Academy, in looking at the program
23 twice in ten years and the GAO later on, five years
24 hence, is this is not considered an oversight
25 process, and said when the finding -- the big

1 finding -- the only finding they had in the GAO
2 report is that the NTPR program lacks an oversight
3 process. It lacks an independent review process for
4 dose reconstruction. And of course the action item
5 was, DoD establish such a thing. And of course that
6 got us into a Congressionally-directed NAS study
7 that's ongoing at present to look at this very, very
8 important question.

9 The major issues that we have, and some of
10 you have read the statement of work for the NAS
11 study we're talking about -- accuracy and so forth.
12 To put this in the words of John Till*, the
13 Chairman, the major issues here are the doses right.
14 Again, we're not using the word accuracy. Are they
15 right, are they serving the compensation program.
16 And are they fair, and that's sort of the same
17 questions I'm hearing you ask here today. And we'll
18 see that report in the spring of next year.

19 Again, Congress asked them to recommend what
20 kind of permanent system of review should be put in
21 place, if any. So that's another public policy
22 question that's going to get answered during the
23 course of the study. And what they're doing in our
24 study -- and Mark, you'll find this of particular
25 interest -- they are basing their review on a sample

1 of 99 dose reconstructions that have been stratified
2 by series, by numbers of people involved in specific
3 series, also whether they had internal doses,
4 whether they had high doses and there's some other
5 discriminators there that figured into their
6 stratification of these 99 dose reconstructions.
7 They also run the gamut of the program from the
8 early days before we were supporting compensation
9 programs and well into the era of today where we are
10 supporting heavily VA claims. And of course you'll
11 see this process or these results released in April,
12 2003.

13 Interfaces with the Department of Veterans
14 Affairs. We provide the participation in dose
15 information to the VA. We don't interact with the
16 process. Again, we provide in accordance with our
17 *Federal Register* requirements. We don't receive any
18 feedback as to what the VA does with the doses. We
19 don't get involved in benefits review decisions that
20 Jerry Steele will talk about or the medical review
21 that Neil Otchin will talk about, or the final
22 decision as to whether there are merits for grant of
23 an award. And also we don't receive any feedback on
24 the process on individual veterans as to whether
25 they successfully worked through the process or not.

1 So this is a complete unknown to us.

2 What I can point out is, as far as oversight
3 is concerned, is the VA, by Public Law 98-542, has
4 an oversight process. We don't have it in our
5 program, but the VA has it through the VA Advisory
6 Committee on Environmental Hazards, and they oversee
7 the process of the VA review of radiogenic diseases,
8 probability of causation, all those particular
9 issues. But again, that doesn't factor back to
10 DTRA's program.

11 As far as our relationship's concerned,
12 we're very much engaged in managing the process.
13 And what I mean by that is making sure that when we
14 get information from the VA that we have a proper
15 citation of a disease so that we can gather the
16 information and go forward. We have the veteran's
17 claim and specific statement of claim that we get
18 all of the information the veteran has provided to
19 the VA, so this helps us put together our package,
20 and making sure that all the boxes are checked up
21 front as to having all the information that one
22 could get from the VA in order to move forward in
23 our process. So we do most of the time managing to
24 make sure this happens. We're one place in DTRA.
25 The VA of course has 57 regional offices across the

1 country and, again, we need to make sure that that
2 process is monitored, that we get the information
3 uniformly.

4 The one important thing that Jerry Steele is
5 going to concentrate on, the very last thing, is VA
6 can grant benefit of the doubt. One of the
7 questions you'd asked is once they get through our
8 process, the veteran gets the dose, he doesn't get
9 the grant of the award, is it the end of the line.
10 No, the veteran can come back and contest the dose
11 to us. We go through a very extensive question and
12 answering process in trying to satisfy the veteran's
13 issues over the dose. And oftentimes we're not able
14 to and, you know, when does the process end. And I
15 think if you looked at your *Federal Register*
16 process, it's kind of open-ended and at some point,
17 you know, you have to say that the answer is the
18 answer. But through the VA, if we had issued a
19 decision to say that we could not put them at a
20 particular event, the VA can look at the
21 preponderance of evidence -- we look at the records
22 only -- and say as a result of other evidence, if
23 the person was at a particular test, they can
24 concede the person's presence at the test, come back
25 to us with a hypothetical scenario for

1 reconstructing the dose and we reconstruct the dose.
2 So again, the veteran does have a benefit of the
3 doubt process.

4 Another means of benefit of the doubt
5 concerning the dose reconstruction is the veteran
6 can bring a second opinion dose into the process.
7 And if that dose disagrees with our dose by more
8 than a factor of two, the VA by law must go out and
9 contract with a third party to provide some
10 reconciliation of the two dose estimates, and
11 whatever final result comes out of the independent
12 dose estimate is finally what results in the dose
13 assigned to the veteran.

14 In summary, our dose reconstruction supports
15 high-sided doses, thus we support compensation
16 programs. We try to support benefit of the doubt to
17 the veteran. Over the years we've had to compromise
18 the science in order to interface with
19 administrative and public policy issues and we
20 talked about some of those at length at the end of
21 the brief.

22 The PC process is totally independent of
23 ours. Basically it's an interface with the VA
24 without interaction. And again, independent
25 oversight has been sporadic with the program and

1 some remedial action I'm sure will be recommended
2 with the issuance of the National Academy report in
3 April, 2003.

4 Questions and discussion.

5 **DR. ZIEMER:** Thank you very much, Michael.
6 Yes, the floor is open for questions and discussion.

7 Mike -- or Mark.

8 **MR. GRIFFON:** I think -- I was just
9 wondering and I think I've seen this -- I either
10 talked to you or some of your staff at various times
11 and got some of this information off the web site,
12 but I was wondering if the scope of work for the NAS
13 review is available. I think what's on the web site
14 is probably the full scope. And then also if the
15 NAS panel has developed protocols or procedures for
16 review in the cases and if those are available.

17 **MR. SCHAEFFER:** The first question
18 concerning the statement of work, they actually
19 condensed it down to the two basic issues with the
20 concurrence of the Veterans Affairs staff who they
21 worked with in terms of are they right, are they
22 fair.

23 As far as the other question of the actual
24 protocol developed to review, again, due to the
25 nature of the National Academy of Sciences in doing

1 an independent investigation, they have not shared
2 the development of this protocol with us or actual
3 procedure they're using to conduct the review. And
4 I would be quite certain -- I don't think I'm making
5 any presumptions here -- if you were to ask them
6 today, they probably would say that they can't make
7 them available to you or to anybody. But it might
8 be a question you want to ask after April, 2003 when
9 the ink is dry on their report.

10 **DR. ZIEMER:** Doesn't the Academy now have to
11 operate under a process that very much looks like
12 the FACA process where their deliberations of their
13 committees open and so on? Wouldn't that --

14 **MR. SCHAEFFER:** It's certainly true they're
15 under FACA, just as you are here. However, the
16 actual work products that take place outside the
17 public forum, they can tell the public what the
18 bottom line is in terms of what they're doing as a
19 result of the development of the protocol, but they
20 can't tell you exactly what they're doing as far as
21 looking at the dose reconstructions. For instance,
22 we know they're looking at 99 doses, and why they're
23 looking at 99.

24 **DR. ZIEMER:** And I think that's the kind of
25 information we're talking about here. We're

1 interested in the methodology, not the details of
2 the doses and so on. You know, is there some logic
3 -- is it -- yeah, the rationale for -- how many
4 total dose -- 99 --

5 **MR. SCHAEFFER:** They looked at 99 doses.

6 **DR. ZIEMER:** Out of how many? What's --

7 **MR. SCHAEFFER:** Individualized dose
8 reconstructions out of 4,000 or 5,000.

9 **DR. ZIEMER:** 'Cause we were thinking about a
10 two to three percent.

11 **MR. GRIFFON:** That's the same.

12 **DR. ZIEMER:** Is that where the number came
13 from?

14 **MR. GRIFFON:** That's where that number came
15 from.

16 **DR. ZIEMER:** Yeah.

17 **MR. GRIFFON:** Yeah.

18 **DR. ZIEMER:** Okay.

19 **MR. SCHAEFFER:** And what they're doing in
20 terms of the internal review, they've not shared
21 that in public with anyone. We do know that from
22 time to time they come and gather records from us.
23 We have to provide redacted records to them. What
24 they're actually going and what content they're
25 drawing from those records, I don't think anybody

1 knows. But we know from the statement of work that
2 the -- whatever has been done in the process, such
3 as what you're talking about, Congress has asked
4 that they report exactly how they conducted this
5 process, so that will become a matter of the public
6 record when the report's issued.

7 **DR. ZIEMER:** Whose decision was it to use
8 old science when it benefitted the claimant and new
9 science when it benefitted the claimant? In other
10 words --

11 **MR. SCHAEFFER:** It's been in the process --

12 **DR. ZIEMER:** -- there's almost an issue of
13 fairness here. You could say well, I'll use
14 whatever, old and older and new and newer. I
15 mean --

16 **MR. SCHAEFFER:** If newer results in a dose
17 that's --

18 **DR. ZIEMER:** Yeah, I understand what you're
19 saying, but who -- is that a policy decision or --

20 **MR. SCHAEFFER:** It's been a policy decision
21 throughout our program from the time even before I
22 joined the program, and I've not changed that policy
23 in any degree. It does work against the science, of
24 course. And you know, it begs the question again is
25 if you were to put that into place and what do you

1 do about compensation to folks that perhaps would
2 not have been given compensation years ago. Also
3 begs the question on the other side is what do you
4 do if it -- there's often a more favorable award
5 today, how do you go back and back-check that in the
6 system. Again, since the VA process is not married
7 to our system, it's hard for me to conjecture on
8 that one.

9 **DR. NETON:** If I might -- this is Jim Neton.
10 I'd like to ask a question, Mike, on that issue.
11 Maybe some clarification on what you were saying.
12 My understanding is that you based the program
13 initially on the current science, the best science
14 at the time.

15 **MR. SCHAEFFER:** That's correct.

16 **DR. NETON:** But then you were just reluctant
17 to change to a more current model if it would --

18 **MR. SCHAEFFER:** Lowered --

19 **DR. NETON:** -- be detrimental to the
20 claimant. So an instance, in 1985 ICRP-2 was the
21 standard in effect for regulatory purposes, but you
22 nonetheless chose to use the ICRP-30 models.

23 **MR. SCHAEFFER:** Uh-huh.

24 **DR. NETON:** So they were the best models
25 available at the time of the program inception.

1 **MR. SCHAEFFER:** That's correct.

2 **DR. NETON:** Okay, so I think that's an
3 important point.

4 **MR. SCHAEFFER:** And that's going to loom
5 heavy on anyone who runs this -- you know, looking
6 back at the program 20, 30 years hence, what you do
7 about that issue. I don't know the answer to it.
8 The fact that you all are starting a program afresh,
9 you might have a better idea on how to handle that
10 so we can learn from you.

11 **MR. GRIFFON:** Just one more thing. Are
12 there any provisions for this whole Special Exposure
13 Cohort -- I know you have presumed causation for
14 certain subclasses. Are there provisions when you
15 can't estimate a dose -- I'm going to use the words
16 from our regulations -- with reasonable certainty
17 where you would consider -- have you had that
18 situation, first of all, where you can't estimate
19 the dose -- a reasonable estimate of the dose. And
20 secondly, are there provisions for adding those
21 individuals or classes to the presumed causation
22 group.

23 **MR. SCHAEFFER:** The answer to that question
24 -- the first question is what do we do if we can't
25 perform a dose reconstruction. I don't think we've

1 ever faced a situation where we couldn't assign some
2 dose value. And basically gets us back to the chart
3 where it's fairly well-defined, the activities for
4 atmospheric nuclear testing and post-war occupation
5 of Hiroshima and Nagasaki. By the same token, we
6 are blessed with military records. The military
7 kept very, very robust records of what people did
8 and where they went, except in the cases of we do
9 run into some frustrations with Hiroshima and
10 Nagasaki where people went on excursion trips apart
11 from their regular duties and they never got
12 recorded. That's not to say if we can't get the
13 record and VA concedes that they were there, again,
14 we're still able to assign a dose to that particular
15 process. Whether they were at the ten-mile limit of
16 the two cities or whether they were inside the city
17 or even just traveling around 20, 30 miles away, we
18 can still assign some maximal dose value.

19 Now you had a second question, special
20 cohorts.

21 **MR. GRIFFON:** Right.

22 **MR. SCHAEFFER:** The special cohorts in our
23 program have been the Congressionally-mandated
24 decisions to grant individuals in the same
25 population -- atomic testing, Hiroshima, Nagasaki --

1 presumptive compensation just for being present.
2 And it's been done for certain classes of diseases,
3 other special categories which Jerry Steele will
4 talk about in terms of the complexities. But it is
5 possible in the course of the VA program where a
6 veteran can file under both programs. And are there
7 any advantages -- lots of pros and cons on that that
8 it's too complex to answer.

9 **DR. ZIEMER:** Okay. No further questions?
10 Then I thank you again, Michael --

11 **MR. GRIFFON:** I just want to add on that the
12 pros and cons that are difficult to answer might be
13 of interest for our Special Exposure Cohort working
14 group because I think that's a similar issue with
15 the pros and cons of petitioning to get in the
16 Special Exposure Cohort.

17 **DR. ZIEMER:** Thank you very much. Next
18 we'll have a presentation dealing with adjudication
19 of claims through the atomic veterans. The
20 presenter is Jerry Steele, who's with the Department
21 of Veterans Affairs. Jerry began his work with VA
22 regional office in Montgomery, Alabama several
23 decades ago and then transferred to the VA central
24 office in the mid-eighties. Jerry did his
25 undergraduate studies at the University of

1 Mississippi, his graduate work at Troy State
2 University in Montgomery, and currently Jerry is a
3 consultant and advisory -- I'm trying to read this
4 writing -- consultant for the advisory review staff,
5 compensation and pension services. Is that the
6 correct title?

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

8 **DR. ZIEMER:** Good, I want to get it
9 correctly in the record, even if I get it wrong
10 here. Thank you. Jerry, if you would, please.

11 **MR. STEELE:** I know the schedule had me on
12 before Mike today, but as it turns out, Mike pretty
13 well taught my presentation. Are there any
14 questions?

15 (Laughter)

16 **MR. STEELE:** No questions? We will address
17 exposure, the regulations under which the Department
18 of Veterans Affairs can compensate a veteran or a
19 survivor of a deceased veteran for a radiogenic
20 disease, a disease due to radiation exposure. As
21 one veteran pointed out in a claim, he says hey, I
22 was 19, I was -- nothing could harm me. He said
23 Hell, I could eat it and it would not hurt me. But
24 we're finding out ten and 20 and 30 years later that
25 that is not the case.

1 We'll look at Public Law 98-542 which was
2 enacted by Congress, the Veterans Dioxin and
3 Radiation Exposure Compensation Standards Act of
4 1984. Now I gather that is where you are at this
5 point, standards or evaluating standards. My job is
6 easy because the standards are set by Mike
7 Schaeffer's group at DTRA for the atomic veterans
8 and by Dr. Otchin for the other types of radiation
9 exposure cases. Anyway, my job's a no-brainer. I
10 process papers and get the radiation dose assessment
11 from DTRA, from Mike's group, and then I -- we
12 transfer -- we write it up and send that over to Dr.
13 Otchin for an opinion as to whether it is likely,
14 unlikely, or at least as likely as not that the
15 veteran's now diagnosed prostate cancer is due to
16 exposure to whatever dosage of radiation that DTRA
17 established.

18 This is landmark legislation, actually,
19 establishing standards. I hope I don't get in your
20 way here, I sort of move around. This established
21 not only radiation, which is kind of the focus of
22 your interest now, but also dioxin. What is dioxin?
23 Dioxin is a part of certain herbicides used in the
24 Republic of Viet Nam.

25 So I was talking in the hallway on break.

1 The issue was prostate cancer and how that would
2 impact the NIOSH realm. Well, with prostate cancer
3 and the veteran who is diagnosed with that having
4 served in-country in Viet Nam during the Viet Nam
5 era, it is presumed -- it's a no-brainer. You have
6 service in Viet Nam in-country, you're presumed to
7 have been exposed to herbicides containing dioxin.
8 Prostate cancer is one of the presumptive
9 disabilities.

10 With Public Law 98-542 we're getting way
11 down the road, though. When it was initially
12 established, the only disability that was service-
13 connectable was coracne*. I gather that's a skin
14 condition. I defer to the medical experts. But I
15 personally, in 30-something years of VA, have not
16 seen an allowed case of coracne. That's not to say
17 they don't exist.

18 So Public Law 98-542 -- and in your handout
19 I think I had that listed as 3.311(a). It's in the
20 definitive handout, not the slides -- 3.311(a). You
21 can kind of skip over the (a) part because that's
22 not the subject of my address today. But if you
23 would go to 3.311(b), which is the radiation issue,
24 radiation standard that was established September
25 25, 1985. The Standards Act of 1984 gave VA lead

1 time of what, 300 days to publish regulations
2 establishing standards for dioxin and radiation
3 cases. We almost made that deadline, because the
4 effective date of our regulations is September --
5 well, we may have made it -- September 25, 1985.
6 Maybe we missed it by about 30 days. But at any
7 rate, we probably had published in the *Federal*
8 *Register* proposed regulations. The final -- final
9 effective date or the effective date of the final
10 regulation was certainly under a year from the date
11 of enactment of Public Law 98-542.

12 Our other law under which we consider
13 radiation -- well, this is it, isn't it? This is
14 the (a) and (b). The (a), dioxin, for the (b) is
15 radiation. In 1994 Congress took the 311(a) and
16 codified that at 38 USC 116 -- 111 -- whatever,
17 1016, so they renumbered 311 -- it used to be weird.
18 If you're familiar with the way statutes are listed,
19 we have a 311(a),(a) for subdivision (a) under
20 dioxin. Then we had a 311(b),(a), so it was
21 strange.

22 At any rate, in 1994 the Congress took the
23 herbicides and placed them under 38 USC 1116.
24 That's -- we caught that in the regulations, 38 CFR
25 3.313, so anything under 3.311 now is radiation.

1 The Public Law 100-321 took -- well, what
2 did it do? It established a series of disabilities
3 for which all we needed to know was that the person
4 participated in a radiation-risk activity.
5 Radiation-risk activity was defined as atmospheric
6 testing of nuclear weapons, or the occupation of
7 Hiroshima or Nagasaki before July 1, 1946. So if
8 the veteran served on the American Occupation Forces
9 in Hiroshima or Nagasaki prior to July 1, 1946, then
10 that veteran met the definition of having
11 participated in a radiation-risk activity. That
12 meant the veteran was a radiation-exposed veteran.

13 And for the -- how many was it, 13
14 disabilities, 13 diseases, if any of those diseases
15 were diagnosed, then we simply had to have from Mike
16 Schaeffer's group confirmation that the veteran
17 participated -- review of historical records confirm
18 the veteran's presence in VA-defined Nagasaki area.
19 That was good enough.

20 You might ask what is a VA-defined Hiroshima
21 or Nagasaki area. By definition under statute, that
22 is within a ten-mile radius of ground zero, Nagasaki
23 or Hiroshima. Within ten miles. And that's
24 important. We get letters of -- letters from DTRA
25 that say the veteran is shown to have been assigned

1 to whatever unit at Kobe, Honshu, Japan, 125 miles
2 from Nagasaki. So that veteran is not radiation --
3 does not meet the definition of a radiation-exposed
4 veteran. That veteran does not meet the definition
5 of participating in a radiation-risk activity,
6 meaning the veteran -- official military records do
7 not place the veteran within the VA-defined -- in
8 this case, Nagasaki -- area.

9 So we're faced with -- this is a particular
10 case I have on my desk now, someone writing to the
11 Undersecretary for Benefits, to Admiral Cooper,
12 asking for his personal attention and to the case.
13 Since the veteran cannot be established by official
14 military records as being in a VA-defined Nagasaki
15 area, we will have to go back to DTRA, Defense
16 Threat Reduction Agency, and say that since official
17 military records do not establish the veteran's
18 presence at or absence from Nagasaki, a site at
19 which radiation exposure is claimed, then VA
20 concedes that the veteran was there. So Mike will
21 have his folks at DTRA come up with a radiation dose
22 assessment on this particular case, which we will
23 then -- doesn't fit under the presumed, does it,
24 under 100-321 because the veteran is not a
25 radiation-exposed veteran. Right? Did not

1 participate in a radiation-risk activity. So -- but
2 he does fit under the 3.311 criteria, so we'll have
3 to refer the case over to Dr. Otchin for an opinion
4 as to whether the veteran's exposure to whatever
5 dose -- it will probably be less than one rem --
6 whether the veteran's exposure to that one rem is
7 likely, unlikely, or at least as likely as not to
8 have resulted in the now-diagnosed prostate cancer.
9 Okay?

10 We've been talking about 3.309. That's the
11 regulatory -- the VA regulation for Public Law 100-
12 321. Okay? That's the presumed -- actually, 3.309
13 -- you know what that is? It's the chronic
14 diseases, chronic diseases for which service
15 connection will be presumed if diagnosed within a
16 certain period of time; 309(d) addresses the
17 radiation diseases -- the diseases for which service
18 connection is presumed if diagnosed at any time
19 after service in a radiation-exposed veteran. We
20 have a handout, probably is page 9 of the definitive
21 handout that compares the diseases listed under
22 3.311 and those listed under 3.309. We'll get to
23 that later.

24 How can a veteran be exposed to radiation?
25 Could be exposed through participation in American

1 Occupation Forces in the VA-defined Hiroshima or
2 Nagasaki area. Right? Can be exposed from
3 participation in atmospheric nuclear testing,
4 nuclear weapons testing. Occupational exposure, on
5 the job exposure. What types of military
6 occupations would result in occupational exposure?
7 X-ray technician, perhaps?

8 **UNIDENTIFIED:** Nuclear weapons.

9 **MR. STEELE:** Nuclear -- occupational
10 exposure? Right, nuclear weapon --

11 **UNIDENTIFIED:** Technician.

12 **MR. STEELE:** -- technician, changing out
13 warheads and so forth, that would get it. What
14 would be another one?

15 **UNIDENTIFIED:** Nuclear subs.

16 **MR. STEELE:** Nuclear -- nuclear -- let's
17 call it nuclear propulsion, which would include subs
18 -- we have some surface vessels, don't we, that are
19 -- okay. These cases we -- the regional office
20 might accidentally send an inquiry to Mike, but
21 someone there screens them there pretty fast and
22 lets the regional office know that that's -- that's
23 not the proper agency to request radiation dose
24 assessment for occupational exposure.

25 For a nuclear propulsion -- for a Navy

1 nuclear propulsion person or a claim involving Navy
2 nuclear propulsion, the source would be the Naval
3 Dosimetry Center at Bethesda, Maryland. Captain
4 Paul Blake would look at his database. The Navy
5 Dosimetry Center maintains a database for Navy and
6 Marine personnel occupationally exposed to ionizing
7 radiation and then would send us or send the
8 regional office a statement showing periods of
9 exposure, perhaps ships to which assigned when
10 exposed, and then the -- they do it -- they show a
11 CDE -- they list neutron, gamma, gamma and X-ray
12 combined, and I think they show a beta. But at any
13 rate, those beta columns and neutron columns are
14 typically zeroes. Practically everything we get
15 would be under the X-ray and gamma.

16 We would take Captain Blake's statement of
17 exposure, and he would typically tell us that all
18 exposures are whole-body -- probably means something
19 to -- but so that's what we -- when we refer it over
20 to Dr. Otchin for an opinion, we say -- you know, we
21 just repeat what Captain Blake may have said, that
22 all exposures are whole-body, for example.

23 There's another -- our manual is -- I didn't
24 write this particular part, but it says on
25 occupational exposure if the service records contain

1 DD form 1141, record of occupational exposure to
2 ionizing radiation, if -- no, it -- how is it
3 worded? If it does not contain that, then go to the
4 Naval Dosimetry Center if it's Navy or to the
5 address -- the Redstone Arsenal if it's Army,
6 Bowling* Air Force Base if it's Air Force. Anyway,
7 the different service addresses are listed. If I
8 had written that I would say in addition to, you
9 know, any documentation of exposure on DD form 1141,
10 go to the Naval Dosimetry Center and ask for any
11 other records, so that we would have a complete --
12 everything that any database might have as far as
13 radiation exposure, and then send that over to Dr.
14 Otchin for an opinion.

15 I think what our slides -- what this series
16 of slides is addressing is the 311 case, the one
17 that we're not going to presume, we're going to get
18 a dose estimate. The first factor to be done is to
19 determine that a specific disability is claimed.
20 And this is weird, 3.303 just addresses service
21 connection, so if it's not a presumptive disability
22 under 3.309 and it's not listed under 3.311(b),
23 notwithstanding the regional office should consider
24 service connection -- well, that just means going
25 through all the service medical records and ensuring

1 that no early manifestation of the disease was
2 diagnosed in service because if it were, then that's
3 service-connected on a direct basis. That's
4 service-incurred. Okay? That's what 3.30... Okay.

5 Okay, here's what we're going to do if it's
6 not listed. Wait a minute, am I getting ahead of
7 myself?

8 **UNIDENTIFIED:** I think you skipped a bullet.

9 **MR. STEELE:** Did I skip one?

10 (Pause to reset)

11 **MR. STEELE:** If the disability is listed,
12 okay, all right, there we go. If it's actually a
13 listed disability, then we do the following. And
14 here's where we're -- we ask that the regional
15 office, before they go to DTRA -- because that's 90
16 days that we don't know that need to be expended.
17 We need medical evidence establishing the claimed
18 condition in fact exists. Okay? If it is a
19 radiogenic disease or a presumptive disability that
20 can be service-connected based on radiation
21 exposure, then we go to the Defense Threat Reduction
22 Agency. Why do I have a (b) on that? I should have
23 eliminated the (b). It's just 3.311. Okay? (b) is
24 a part of that, but it's -- okay.

25 Now what's the difference between the one

1 that I did before -- what's the difference between
2 the 3.309 and the 3.311? 3.309 is the presumed
3 list. Right? The 3.311 is the one that we have to
4 get a radiation dose assessment from Mike
5 Schaeffer's group, Defense Threat Reduction Agency.
6 Or if it's -- if it's other occupational exposure,
7 then we have to go to the appropriate service
8 department -- Naval Dosimetry Center for a nuclear
9 propulsion person, Army for a warhead -- nuclear
10 warhead technician, Air Force for whatever Air Force
11 is exposed to. X-ray technicians, dental
12 technicians would have to go to whichever branch of
13 service that person worked. Okay?

14 Once the regional office has done the three
15 items here, then they contact my section and --
16 Compensation and Pension Service. I guess they do
17 that to ensure that everything's been done, all the
18 T's crossed -- crossed and -- I's dotted and T's
19 crossed. We then -- we continue to log the cases
20 and ask the questions to make sure that everything's
21 been done before they send the case in to us. Maybe
22 that lessens the cases we have to send back before
23 they -- you know, for them to -- the regional
24 offices to finish their development of the case.
25 And if their development was correct up to the time

1 that it's called in, we ask them at that point to go
2 to DTRA. I don't know if that lessens the number of
3 requests that Mike gets or what, but...

4 Overall, for the -- these figures were
5 correct the first of the year, or as correct as
6 figures could -- you know. They were reported to
7 Congress as accurate, probably couched in this is
8 the best we can do right now -- 21,135 total
9 radiation compensation claims; 2,582 grants of
10 service connection. Of those -- of this number, 500
11 or 515 are grants under the presumptive -- the
12 presumed disabilities under Public Law 100-321 under
13 38 CFR 3.309, and of those 515 what, almost two-
14 thirds are based on atomic testing and then one-
15 third on occupation of Japan.

16 **UNIDENTIFIED:** That's all you've got.

17 **MR. STEELE:** That's all I have.

18 **DR. ZIEMER:** Of all of those claims -- let's
19 see, the 2,582, do those require dose
20 reconstruction, the service connection -- those
21 must. Right?

22 **MR. STEELE:** No, 515 did not require a dose
23 reconstruction, but they required a letter from --

24 **DR. ZIEMER:** No, the 515, I understand that
25 --

1 **MR. STEELE:** The 515 --

2 **DR. ZIEMER:** -- but what about the 2,582?

3 **MR. STEELE:** This number is included in
4 here, so we would be looking at --

5 **DR. ZIEMER:** Oh, I see, okay.

6 **MR. STEELE:** -- 2,000 -- somebody that's
7 good with math --

8 **DR. ZIEMER:** Okay, about 2,000. Now --

9 **MR. GRIFFON:** But how -- I think -- my
10 question -- maybe Paul's going to ask the same
11 question, is I thought I heard a number of 4,000 to
12 5,000 dose reconstructions done, but there's 21,000.
13 Is that 2,500 a subset of the 21,000 --

14 **MR. STEELE:** Yes.

15 **MR. GRIFFON:** -- claims, and then there were
16 only 4,000 or 5,000 that had dose reconstructions
17 done, is that correct? I'm trying to connect the
18 numbers from the previous presentation.

19 **MR. STEELE:** My presumption would be that
20 the majority of the 21,000 would have had -- well --

21 **DR. ZIEMER:** Seems like most of those would
22 have had dose --

23 **MR. STEELE:** Most of those --

24 **DR. ZIEMER:** -- reconstruction because you
25 pull out the --

1 **MR. STEELE:** Yeah, right.

2 **DR. ZIEMER:** -- presumptive ones right off
3 the top. It seems like everything else would have
4 to have a reconstruction then. Am I understanding
5 that correctly?

6 **MR. STEELE:** Yes.

7 **MR. GRIFFON:** But the -- previously we heard
8 4,000 or 5,000 dose --

9 **MR. STEELE:** Right, right, but --

10 **MR. GRIFFON:** -- reconstructions.

11 **MR. ELLIOTT:** Mike Schaeffer's not in the
12 room right now -- maybe we can get him back in --
13 but I think you've got to remember that they do dose
14 reconstructions for veterans not with a claim.
15 Sometimes a request for dose reconstruction comes to
16 them from the veteran without the veteran filing a
17 claim and they go ahead and do it to respond to the
18 veteran's need.

19 **MR. STEELE:** Also Mike's group is only going
20 to do the, quote, atomic veteran. Is that true?
21 The atomic veteran. Now what -- how did Mike define
22 those? Occupation of Hiroshima and Nagasaki or
23 atmospheric nuclear tests. We have other exposure
24 claims, although I would not have thought 17,000
25 from that, so there's some disconnect there, yet.

1 **DR. DEHART:** Are those numbers in total with
2 the law for the last what, ten years?

3 **MR. STEELE:** Yes, sir. They're cumulative
4 as of the spring of this year. Okay? Any
5 questions?

6 (No responses.)

7 **MR. STEELE:** Thank you.

8 **DR. ZIEMER:** Thank you very much. Then
9 we're ready to hear from Dr. Otchin, and he's going
10 to talk about probability of causation determination
11 for the atomic veterans. Dr. Otchin is an MD,
12 studied at Duke Medical School. He's Board-
13 certified in internal medicine. He's program chief
14 for clinical matters in the Office of Public Health
15 and Environmental Hazards in the VA's central office
16 in Washington, D.C. So Dr. Otchin, we're pleased to
17 have you here with us this afternoon. Thank you.

18 **DR. OTCHIN:** Certainly. I should also
19 mention I did my undergraduate work at the
20 University of Florida since we have a professor
21 emeritus from the University of Florida here.

22 (Laughter)

23 **DR. OTCHIN:** While we're getting ready, I
24 might mention that essentially the whole text of my
25 presentation is in your handout. The draft has been

1 revised very slightly, but those that don't want to
2 listen certainly can read the presentation at your
3 leisure. Also the overhead transparencies are also
4 included in the handout, so if I can't get the
5 overhead transparency working properly, you'll have
6 a copy of that, also.

7 Can you hear me all right?

8 (Affirmative responses)

9 **DR. ZIEMER:** Are you going to move back and
10 forth?

11 **DR. OTCHIN:** No, I'm just going to stay
12 here.

13 As mentioned, I'm a physician with the
14 Veterans Health Administration, which is the part of
15 the Department of Veterans Affairs that provides
16 health care and operates the VA hospitals and
17 clinics. Our office, the Office of Public Health
18 and Environmental Hazards, is responsible for
19 providing medical opinions to assist in the
20 adjudication of some compensation claims to veterans
21 exposed to ionizing radiation when requested by the
22 Veterans Benefits Administration, VBA, the component
23 of the VA that is responsible for disability
24 compensation and various other benefits programs.

25 Basically I'm on the part of the VA on the

1 left-hand side, which is primarily the hospital and
2 clinic system of the VA, and Jerry Steele is part of
3 the VA on the dotted side of the table of
4 organization, so basically then send the cases over
5 to our side and we send the medical opinions back.

6 I would like to stress that while our office
7 provides medical opinions, it does not make the
8 actual compensation decisions, which is the
9 responsibility of the VBA. Also there is an
10 extensive process through which a veteran may appeal
11 an unfavorable compensation decision.

12 And if there are any technical questions
13 regarding the adjudication process, I would defer
14 them to Jerry Steele because his office actually is
15 involved in the detailed adjudication process.

16 I'd like to now go into the issue of so-
17 called radiation-risk activities. Participation in
18 radiation-risk activities for VA purposes includes
19 approximately 195,000 veterans who were involved in
20 the occupation of Hiroshima and Nagasaki, as was
21 mentioned; some former POW's with similar likelihood
22 of exposure to radiation in Japan; and approximately
23 210,000 veterans who participated in atmospheric
24 nuclear weapons tests. Also recently some veterans
25 stationed at nuclear weapons facilities now

1 controlled by the Department of Energy and some
2 veterans who participated in underground tests in
3 Alaska were included in the definition of radiation-
4 risk activities, effective March 26th, 2002, to
5 ensure equity for veterans in light of the DOE/DOL
6 compensation program.

7 Veterans who were exposed in a so-called
8 risk -- radiation-risk activity have enhanced
9 eligibility for VA health care -- including free VA
10 health care for any malignancy or other condition
11 that the VA recognizes as potentially due to
12 radiation, as well as compensation -- compared to
13 veterans who were exposed to radiation in other
14 circumstances. For instance, nuclear submariners or
15 dental techs in the military or X-ray techs or
16 whatever.

17 As was alluded to, there are really two
18 separate compensation programs available for
19 radiation-exposed veterans. The presumptive program
20 is limited to veterans who were in the -- in a
21 defined radiation-risk activity who develop one of
22 the diseases on the VA's presumptive list, which
23 includes 21 different forms of malignancy. And
24 hopefully the next transparency will point out this.
25 This is the same as one of Jerry Steele's.

1 So in order to be eligible for a presumptive
2 compensation, essentially a veteran would have to be
3 -- have been exposed in a, quote, radiation-risk
4 activity and have one of the diseases on the
5 presumptive list. And five of the conditions on the
6 presumptive list, those with asterisks, were just
7 added effective March 26, 2002 -- again to ensure
8 equity for veterans compared to civilians eligible
9 for compensation in civilian programs, both the RECA
10 amendments and the DOE/DOL program.

11 For presumptive cases, medical opinions are
12 not needed and so ideally or theoretically the cases
13 would never come to me.

14 The other program is the non-presumptive
15 program, and the types of cases that are included in
16 the non-presumptive program would be a veteran or
17 veterans who were exposed in a radiation-risk
18 activity who develops a disease on the non-
19 presumptive list; or veterans who were not in a
20 radiation-risk activity but were exposed to
21 radiation in some other circumstance like a nuclear
22 submariner or a dental tech or X-ray tech who are
23 not eligible for the presumptions; or veterans who
24 have another disease and for whom a expert opinion
25 is provided by their physician or somebody else

1 supporting the fact that those diseases might be due
2 to radiation, even though they're not on the formal
3 list of diseases that the VA officially recognizes
4 as related to radiation. And these cases, all the
5 three cases I just described, are compensated under
6 the non-presumptive process and they do require a
7 medical opinion by our office.

8 And then the last of my transparencies --
9 this is sort of a flow diagram that shows the
10 sequence of adjudicating a non-presumptive radiation
11 claim that would come to our office for a medical
12 opinion. Now this particular flow diagram is
13 specific for an atomic veteran, the type of case
14 that would go to Mike Schaeffer's group for a dose.
15 If it's an occupational dose, rather than sending it
16 to DTRA, it would go to the service dosimetry office
17 or some other source of information for a dose, but
18 the general process of how the claim is managed and
19 how a medical opinion is requested by our office,
20 the Office of Public Health and Environmental
21 Hazards, is obtained and then the opinion goes back
22 to the Compensation and Pension Service and an
23 advisory opinion is then sent to the VA regional
24 office. And it's really the VA regional office that
25 makes the final compensation decision. And our

1 office does get about 200 to 250 medical opinion
2 cases per year relating to radiation.

3 For a case adjudicated under the non-
4 presumptive program, the veteran's estimated dose is
5 considered in formulating a medical opinion on the
6 likelihood that the radiation was responsible for
7 the veteran's illness. VA regulations specify that
8 when a range of doses is reported, the highest level
9 of the dose range is to be utilized. And as Mike
10 Schaeffer said, for instance, they'd give us an
11 upper bound dose and so it would be the upper bound
12 dose, not any of the more detailed doses cited in
13 their letter, that is ultimately used by the VA.

14 For veterans involved in the occupation of
15 Hiroshima or Nagasaki or those who participated in
16 atmospheric nuclear weapons tests, the DTRA is
17 mandated to provide the radiation doses, and the VA
18 does not review or vet or analyze the DTRA doses
19 independently. Essentially DTRA is mandated by law
20 to provide the doses and the VA accepts them at face
21 value.

22 But as was said earlier, a veteran who
23 disagrees with an official military dose may submit
24 an alternate dose from a so-called credible source,
25 and this would include a person certified in the

1 field of health physics, nuclear medicine or
2 radiology. And if one dose is at least twice the
3 other dose, then a independent expert can be -- or
4 is utilized to provide an independent dose estimate
5 to resolve the disagreement.

6 Now for an occupational dose, in lieu of
7 using the DTRA dose, we would get information from
8 the file, such as the DD 1141 form which is the form
9 that most veterans had that were an occupational
10 exposure, report essentially incremental exposure
11 throughout their military career. Also as was
12 alluded to, each service has a dosimetry office that
13 maintains a dosimetry database, and those are
14 ordinarily queried to see if they have additional
15 dose information available on the veterans. And in
16 some cases, if there seems to be a disagreement
17 between what the veteran says he did in the service
18 and in the absence of a recorded dose or the dose
19 seems inconsistent with what the veteran says he
20 did, sometimes our office actually contacts the
21 military dosimetry offices and asks them to research
22 the case further. In some cases, as most of you
23 probably already know, the VA does have probably the
24 country's largest health care system, and we do have
25 our own health physics program in the VA and

1 sometimes we actually send cases to the VA's
2 national health physics program to try to come up
3 with a dose estimate in the absence of any recorded
4 doses or if there appears to be inconsistency
5 between what's recorded and what the veteran's
6 statement describes in terms of his activities.

7 Currently the VA compares the veteran's
8 doses to screening doses developed by the Committee
9 on Interagency Radiation Research and Policy
10 Coordination, or CIRRPC, to assist in formulating
11 medical opinions when applicable. These screening
12 doses are based on the 1985 NIH radioepidemiological
13 tables and were intended to satisfy VA criteria of
14 "no reasonable possibility" and "at least as likely
15 as not" and to be consistent with the VA's
16 "reasonable doubt" policy.

17 The screening doses were determined so that
18 they correspond to the upper-bound credibility or
19 confidence value for the probability of causation of
20 50 percent. The VA utilizes the most lenient of the
21 CIRRPC screening dose tables, which is based on the
22 upper 99 percent credibility or confidence limits.

23 For non-presumptive cases, VA regulations
24 also require that other factors besides dose be
25 considered. These include the sensitivity of the

1 tissue and specific pathology to radiation, the
2 gender and family history, age at exposure, time
3 lapsed between exposure and onset of the disease,
4 and exposure to radiation and other carcinogens
5 outside of military service. Some of these factors
6 are incorporated into the CIRRPC screening doses.
7 For instance, specific pathology of some conditions,
8 the age at exposure and the latency period.

9 In 1994 our office requested that CIRRPC
10 update and expand its screening doses to reflect
11 more current scientific information and to address
12 additional diseases that the VA recognizes as
13 potentially radiogenic. We were informed by CIRRPC
14 that new screening doses could not be provided until
15 the radioepidemiological tables themselves were
16 updated. A request therefor was submitted to the
17 Director of NIH referencing the requirement in the
18 Orphan Drug Act for updating of the tables.

19 In 1995 the presidential Advisory Committee
20 on Human Radiation Experiments recommended that
21 serious consideration be given to "reviewing and
22 updating radioepidemiological tables that are relied
23 upon to determine whether relief is appropriate for
24 veterans who participated in atomic testing..."

25 Subsequently the VA and HHS have co-

1 sponsored a project to update and expand the
2 radioepidemiological tables and provide the results
3 in the form of a computer software designated as the
4 Interactive Radioepidemiological Program, or IREP.
5 As with the CIRRPC screening doses the IREP software
6 incorporates some of the factors to be considered by
7 VA in addition to dose. A committee of the National
8 Research Council has provided oversight review for
9 this project.

10 At present our office is using the IREP in a
11 test and comparison mode since it has not yet been
12 formally approved and issued by HHS. the NIOSH
13 version of the IREP is used in the same way for
14 cases not addressed by the NIH IREP. Based on my
15 discussion with Dr. Charles Land at the National
16 Cancer Institute, it is my understanding that the
17 current NIH and NIOSH versions of the IREP are
18 identical except for bone cancer and malignant
19 melanoma.

20 The VA's Veterans Advisory Committee on
21 Environmental Hazards has advised us to defer use of
22 the new system for actual formulation of medical
23 opinions until it reviews the IREP further and
24 recommends its use. We also plan to ask their
25 advice regarding use of the NIOSH version of the

1 IREP for cases not addressed by the NIH IREP.

2 I will be happy to try to answer your
3 questions. Thank you.

4 **DR. ZIEMER:** Thank you very much.

5 Questions?

6 (No responses.)

7 **DR. ZIEMER:** I might ask -- I'm curious
8 about the possibility of outside consultants coming
9 in and challenging the established dose records. On
10 what basis do they do that? Are they given
11 information from the site that would allow them to
12 say well, the --

13 **DR. OTCHIN:** Well, it's a difficult issue
14 and I'm not sure I can address it, but some of the
15 people that have done it have been experts that have
16 been familiar with the DTRA program by virtue of
17 having been on some of the NAS advisory committees
18 that have reviewed some of the work in the past.
19 Part of the problem -- you know, maybe Mike can
20 comment on this further -- is the issue of
21 classified information. I'm not sure how much
22 access a person coming in totally unknown to the DoD
23 would have access to the information upon which to
24 generate an alternate dose. But basically this is
25 -- and the other issue of course is cost. The

1 feeling is that the average veteran might not know
2 whom to turn to or might not have the money to pay
3 for an independent dose estimate, so there are some
4 uncertainty of whether this is a meaningful
5 alternative, but it is contained in the VA
6 regulations and recently I did discuss -- not with
7 Jerry Steele but with some other members of the
8 staff in his office -- about sending a letter to NIH
9 to seek additional names of people that could be
10 contacted about providing at least a tie-breaker
11 third dose, so there must be some -- you know, some
12 veterans that do take advantage of this option.
13 That's as much as I can say.

14 **DR. ZIEMER:** I could understand if there
15 were some old records where there was a question
16 about say the quality factors or radiation weighting
17 factors for neutrons and something like that. Maybe
18 that's the basis of it. It just seemed a little
19 strange.

20 **MR. ELLIOTT:** Neil, I thank you for being
21 here, as well as Mike and Jerry. My question -- I
22 must have lost the point or didn't understand the
23 point you made about using the VA's health physics
24 staff. Could you go over that again for me, just so
25 I understand when you engage them and why you would

1 and why you engage them versus sending it over to
2 DTRA.

3 **DR. OTCHIN:** Well, these are not DTRA-
4 mandated cases. To give you an example, we had a
5 case recently of a Navy veteran that was stationed
6 in the Puget Sound area where he claimed that he was
7 involved in -- he was stationed where he'd had --
8 involved duties on a super-fund away site that
9 involved radioactivity, as well as various chemical
10 carcinogens. And there was no record, as I recall,
11 or a very low dose on his DD 1141. The military
12 service had no record of any doses in their
13 dosimetry systems. But because the person claimed
14 it, I sort of felt we should see whether the VA's
15 own health physics program could contribute
16 anything, and it turned out that the VA's health
17 physics program is based in Little Rock and sort of
18 the second in command of that is a former Navy --
19 nuclear Navy veteran himself. And by virtue of sort
20 of knowing about this particular circumstances and
21 that particular site and so forth, using sort of
22 worst-case estimates, was able to actually come up
23 with a dose. And in lieu of any other dose, we then
24 used that dose. So this is an unusual -- this is
25 not routinely done.

1 But another example, sometimes a veteran
2 will claim that -- these again are not Mike
3 Schaeffer's types of cases, but a veteran will claim
4 that he was in a chemical -- the NBC* corps and they
5 had to go out and do field tests to see if they
6 could detect radioactive sources and so there would
7 be radioactive sources hidden in the field and they
8 would have to try to spot them. And because the
9 military felt this was a low-risk activity, they
10 weren't badged and so there was no doses and so
11 forth, so --

12 But again, based on assumptions of distance
13 and time and shielding and other health physics type
14 concepts, actually in some cases we have managed to
15 get a dose estimate. So the bottom line I think,
16 without wanting to be too -- to sound too much like
17 a Pollyanna, I think we do make a bona fide effort
18 to get doses. If we can't get recorded doses, we do
19 at least make an effort to try to get estimated
20 doses. But those are unusual cases. They're not
21 frequent.

22 Another problem at the moment, which I
23 mentioned to you over the telephone, is veterans who
24 were stationed at Hanford or Los Alamos or other
25 places where they weren't badged, and it's been very

1 difficult to get dose estimates for those kind of
2 veterans. And so again our health physics people in
3 Little Rock have worked with me to try to -- using
4 things like CDC draft report on on-site exposure
5 information at Hanford, to try to use that as the
6 basis for estimating doses so we have something to
7 plug in so we can give a medical opinion. If we
8 don't have a dose, we can't give a medical opinion.
9 So that's sort of in a -- more than a nutshell.

10 **DR. ZIEMER:** Thank you. And it also
11 appeared that outside doctors can sort of declare
12 cancers to be radiogenic if they're not on the list
13 --

14 **DR. OTCHIN:** Well, the way that came about
15 -- and Jerry Steele may want to correct me -- is
16 that for a long time the VA used these two lists,
17 which is not up there right now, as an exclusive
18 list. And then the court system declared that these
19 lists were an added mechanism for veterans to get
20 their cases compensated, but they didn't negate the
21 ordinary mechanism for veterans to have any claim
22 that they wanted adjudicated. And as I understand
23 it -- maybe Jerry can amplify it -- this led to
24 additional diseases being accepted, but only if some
25 credible medical source issues a statement that they

1 think that that condition was related to the
2 radiation. Jerry?

3 **MR. STEELE:** You're exactly right. You're
4 right, Dr. Otchin. Congress enacted the -- after
5 *Combee v. Brown*, which held that the 311 list wasn't
6 an exclusive list. The VA position prior to *Combee*
7 *v. Brown* was that the diseases listed under 3.311
8 were exclusive and therefore if one had a disease
9 not listed, then it was denied at the regional
10 office level as not being a radiogenic disease.
11 3.311 was amended to say that -- or to read, provide
12 that VA will nevertheless consider a disease not on
13 the list if the veteran has submitted competent
14 medical authority -- competent medical evidence to
15 establish a relationship.

16 Now we have historically used liberality
17 there. We go with say a chief pulmonologist stating
18 that this pulmonary condition is as likely as not
19 due to radiation. So then we will accept that,
20 although it's not a cancer, and we'll send it over
21 to Dr. Otchin for an opinion as to whether the
22 exposure to radiation at whatever level was -- is
23 likely, unlikely or at least as likely as not to
24 have resulted in this interstitial whatever
25 fibrosis. Thank you.

1 **MR. GRIFFON:** Yeah. I just wanted to ask a
2 question along the lines of the presentation from
3 DTRA on the notion of not moving to more current
4 models in cases where it wasn't going to benefit the
5 claim. And I wondered and I've talked to you before
6 about this on the phone. You said you were now
7 reviewing or considering the IREP model and it -- in
8 the recent report we got from NCI they did a
9 comparison of this CIRRPC 99 percentile causation
10 values versus the IREP model and it seems that that
11 -- it will lower the amount that will be
12 compensated, and I wonder if you're considering a
13 policy rule there and --

14 **DR. OTCHIN:** Well, as I mentioned in my
15 presentation, Dr. Land has made several
16 presentations to the Veterans Advisory Committee on
17 Environmental Hazards which was alluded to several
18 times and I actually gave them at one point a table
19 showing cases without names on them but ones that
20 would pass muster with the CIRRPC versus pass muster
21 with the IREP versus pass muster with both. The
22 ones that weren't addressed by either I didn't put
23 on the table. And it does look like the CIRRPC is
24 an easier barrier to jump over or whatever you want
25 to call it. And actually I've discussed it with the

1 General Accounting Office when they were doing a
2 review of some of the dose issues and they felt this
3 was not surprising given the fact that we -- the
4 science is more robust, if you will, now than it was
5 in 1985 and so the uncertainty intervals have shrunk
6 down. But the outgoing chairman of the Veterans
7 Advisory Committee on Environmental Hazards, Dr.
8 Yanders*, and Dr. Warren Sinclair*, who's one of the
9 eminent radiobiologists with -- who is on the
10 committee both advised me not to utilize the IREP
11 until the committee has had greater opportunity to
12 consider it. And unfortunately, the committee is
13 somewhat in an interregnum period because they're in
14 the process of appointing replacement members, but
15 my intention would be to present the official NIH
16 IREP package and radioepi tables package when it's
17 officially released by NIH as an official, endorsed
18 publication. And they already know the implications
19 in terms of how this is going to affect compensation
20 claims. And I think obviously I'll await with
21 interest what their recommendations will be. I
22 think one doesn't have to be a rocket scientist to
23 think of what various possibilities might come to
24 mind. But at this point the committee is not
25 meeting and the IREP is not released, so we've got

1 these two things that have to happen before it will
2 be discussed.

3 **DR. ZIEMER:** Thank you again for sharing
4 with us today.

5 We have opportunity for public comment now
6 on our agenda. I have requests from two individuals
7 to speak. First, Richard Miller. Richard, if you
8 want, you can use the podium.

9 **MR. MILLER:** Good afternoon. My name is
10 Richard Miller, Government Accountability Project.
11 I feel like we all meet each other in hotel lobbies
12 and hotel rooms like this regularly. It's our fifth
13 opportunity to meet in a hotel. We should stop
14 meeting like this.

15 I'd like to touch on at least today three
16 different topics, the first of which is I was very
17 encouraged to hear from Larry about -- in his
18 presentation today that soon we will have a
19 contract. Obviously some unfortunate circumstances
20 have led to this delay. But one of the issues that
21 we have raised in earlier advisory committee
22 meetings was this concern about the population set
23 of contractors that are going to be bidding on this
24 work and the potential for conflict of interest.
25 And now that you're in the BAFO stage, or maybe

1 you're in the give-us-your-real-BAFO stage, it seems
2 to me it would be very helpful for the advisory
3 committee to provide some guidance. Maybe, you
4 know, it's inappropriate, but I don't think it is.
5 You know, you're not getting involved in
6 procurement-sensitive issues to make recommendations
7 any more than you were when you reviewed requests
8 for proposal and could have commented on it. I mean
9 the RFP does discuss the conflict of interest and
10 invites a plan from the bidders.

11 The degree and extent to which the potential
12 for conflict arises is so broad in terms of the
13 potential for companies, for example, who are
14 bidding or who get awarded the contract actually
15 would be reviewing their own company's work product
16 elsewhere, or professionals who work for one company
17 may be reviewing their former colleagues or even
18 their own work product at other locations. Or they
19 may have current contracts or expect future
20 contracts that they're bidding on involving sites
21 where they could be reviewing dose reconstruction.
22 And so, you know, for claimants to have some sense
23 of transparency that knowing that the individual --
24 not necessarily the company is 'cause you've got
25 this problem. I mean you're in a box. It's a

1 shallow pool. There's a limited number of bidders,
2 you know. You can -- you know, people are going to
3 drink from the stream if they want to. But if
4 there's some possible way to try to have a dialogue
5 about what constitutes an appropriate level of
6 disclosure to the claimant so that they know at the
7 end of the day that the individual or group of
8 individuals working on their claims do not have a
9 potential for conflict of interest, given all of the
10 -- shall we say subjective and judgment-specific
11 calls that have to get made along the way by these
12 individuals. I think that would be very, very
13 helpful. And this is in no way a comment on the
14 integrity of people that NIOSH itself has on staff,
15 but I worry about who these contractors might be.

16 Which sort of brings me to the next point,
17 which I suspect is going to get raised again, but
18 just -- by others, but just we're pleased to see
19 that the Senate Appropriations Committee took it
20 upon themselves to put some nice language in
21 commending NIOSH for their fine work on this
22 program, particularly encouraging the Centers for
23 Disease Control to think about allocating some more
24 Federal staff so that Jim Neton has a little bit
25 more help over there over than four health

1 physicists reviewing this sea of paper. I would not
2 sleep well at night if I had to think about how much
3 paper four people have to review, and I think it'll
4 create a huge logjam and maybe the committee can
5 address that in some way.

6 And then the last is really specific to a
7 policy question regarding the special cohort rule
8 and which I would really like to see the committee
9 take up. And I just want to read you a statement
10 that was made at one of the meetings -- field
11 meetings. It was made on the special cohort, you
12 know, four -- one of the four field meetings. And
13 one of the NIOSH officials stated -- and I'm just
14 going to quote from the transcript here, if that's
15 okay. (Reading) And the last point I just want to
16 make is that the decisions to add a class to the
17 cohort are really in a sense grave decisions, and we
18 view them as grave decisions. They are important
19 consequences because if you add a class to the
20 cohort, the members of that class can then only be
21 compensated for the 22 cancers that are specified
22 cancers, as allowed by the energy employees act --
23 allowed by law. And if you have a different cancer,
24 you cannot be compensated under this program. For
25 example, if you have prostate cancer or skin cancer.

1 So when we make decisions to add a class to the
2 cohort, it's a grave decision. It's an important
3 decision that has real implications for some members
4 of that class, in all likelihood, because some
5 members of a class are likely to have skin cancer or
6 prostate cancer.

7 So the question is, what do you do about the
8 non-SEC cancers. Mark Griffon I guess and others
9 maybe raised this a little bit earlier, and I want
10 to just sort of walk through what I think are the
11 outlines of the problem or the contours of the
12 problem and whether to suggest perhaps this needs to
13 be addressed in the rule in some way, shape or form,
14 perhaps. And so let me just lay out what I think
15 the policy questions are and then perhaps a remedy.

16 The policy question, it seems to me -- and
17 again, this is not laid out in the rule -- blocks
18 anybody in a Special Exposure Cohort class from
19 seeking -- in effect, if that statement as it was
20 made is accurate -- for non-SEC cases, non-SEC
21 cancers in all circumstances.

22 Now classes, as -- in the rule are defined
23 by time and exposure. And you can imagine
24 circumstances where individuals -- by definition if
25 you can't reconstruct their dose and they have a

1 non-SEC cancer, they're out of luck. And it's by
2 definition that's the case. The question is, what
3 happens to doses -- as Mark was mentioning perhaps
4 earlier -- that bookend. So say you worked in --
5 and one of my favorite facilities recently has been
6 Numec* and Apollo*, Pennsylvania, in which, you
7 know, there were clearly periods of time where there
8 were very hazardous conditions and it looks like
9 pretty shoddy exposure assessment work. Might be a
10 candidate potentially for special cohort, say
11 between 1960 and 1980, but in 1980 to 1985 there
12 might be adequate dose records.

13 So then the two policy questions that arise
14 are this. One, will people who have non-SEC cancers
15 be able to apply for the '80 to '85 time period.
16 And the second question is, and more difficult in
17 the rule, is can any of the dose that was received
18 between 1960 and 1980, which by admission you can't
19 estimate except that you come up with a potential
20 dose to go into your endangerment algorithm into
21 IREP. Can any portion of that dose be applied to
22 that non-SEC cancer, or even an SEC cancer --
23 doesn't matter which cancer it is, really -- between
24 the periods 1980 and 1985. In other words, is -- is
25 by virtue of having declared that you can't estimate

1 the dose between 1960 and 1980 in this example mean
2 that therefore none of that potential dose can be
3 added to the '80 to '85 period. That's one
4 question.

5 And if you can, then the second related
6 question is what would it be? Would it be that
7 potential dose that you use to plug into the IREP
8 models or do the worst-case or worst possible
9 potential case or -- I don't want to characterize it
10 'cause it's not what the rule says, but sort of the
11 potential dose estimate. Then you have a corollary
12 problem 'cause it's already sort of clear on that
13 one example, sort of -- kind of that puzzle that has
14 to -- and then the question is can the -- and can
15 the rule deal with that. And I think there may be
16 practical solutions to this.

17 This one's a little harder, but it's the
18 corollary to this if you turn this one upside down,
19 and that's if you accept the endangerment criteria
20 that's been established and proposed at least in
21 this rule, which is the -- come up with a potential
22 dose estimate and then you try to somehow fathom
23 what cancers might be caused by that. I mean I
24 don't know where all the biokinetic models are going
25 to come from that are going to assign particular

1 isotopes to particular organs because they don't all
2 exist, but somehow that's going to happen. And then
3 you'll figure out whether the most radiosensitive
4 solid tumor is going to make you eligible or if it's
5 leukemia then you split the difference. I mean it's
6 this sort of algorithm you have there.

7 But let's think about this. What happens if
8 you go through that endangerment algorithm and you
9 only come up with a 40 percent probability of
10 causation for the class. You've concluded you can't
11 estimate the dose, but when you get to the
12 endangerment question and you've only got 40 percent
13 -- you don't get over that 50 percent or 51 percent
14 threshold in the IREP model -- can you account for
15 dose those individuals, say in the same case, might
16 have received between '80 and '85 to push them over
17 that 40 percent, or can you only consider the dose
18 within that cohort time frame.

19 Now this gets tricky because then you're
20 going to say well, wait a minute. Between that 1980
21 and '85 period, some people may have been working.
22 Some people may have been new into the work force.
23 Some people may have not been in hazardous working
24 environments. Some people may have been very well-
25 protected and some may not. And so the definition

1 of the cohort between '60 and '80 may be different
2 than the difference between '80 and '85. But
3 nevertheless, what you've got is this puzzle.
4 You've got this sort of interesting question about
5 can you include any dose received outside the time
6 and space of the Special Exposure Cohort, 1960 to
7 '80 in this case, that you could then supplement --
8 it's sort of the inverse of the puzzle.

9 Now how to deal with this. Maybe there's an
10 easy answer to all of this and -- and I'm wasting my
11 breath, but I didn't see it in the rule. And the
12 more I thought about the comments that were made at
13 the public hearings, the more provocative this got
14 because it gets messy. And I think what would be
15 helpful is if NIOSH staff could come up with sort of
16 an options paper on how to deal with this. That's
17 one idea. And let the Board look at the options
18 paper and then make a recommendation on which one to
19 incorporate in the rule or as modified. Right?
20 However y'all want to deliberate, it's your
21 challenge. But -- but that's one.

22 Another is that your working group, your SEC
23 working group come up with a solution to this, in
24 which case you all deserve a pay raise, and -- or
25 maybe it just ought to be debated out here. But I

1 don't think this rule is ready for prime time until
2 you grapple with this because I think you'll deal
3 with this whenever you have an SEC that doesn't
4 cover the entire history of a facility. Or at least
5 a huge period of time.

6 And then the question becomes, if you have a
7 non-SEC cancer at a gas diffusion plant, how do you
8 deal and can you impute any of the time periods
9 between when the plants opened in 1992 when it's
10 presumed the dose can't be reconstructed or are you
11 just going to go ahead and reconstruct those. And
12 what I think I've heard from NIOSH on that is
13 they're just going to go try and reconstruct them.

14 But where you've actually made a physical
15 determination through examination of records and
16 your best analysis that you can't reconstruct that
17 dose, and you're going to then posit some potential
18 dose for inclusion in the IREP model, is that going
19 to be a useful estimation process for helping and
20 can any portion of that dose then be applied to
21 other claims that fall outside that time period. So
22 that's sort of the policy question that I see.

23 I think that sort of summarizes it 'cause I
24 think --

25 **DR. ZIEMER:** Thank you, Richard. Let me ask

1 if any of the Board members have questions for
2 Richard on the comments he just made.

3 **DR. MELIUS:** I just have a follow-up. I
4 believe we've talked about this conflict of interest
5 issue before and I think Larry deferred it because
6 of the contractual situation, but if the contract is
7 awarded by our next meeting, I really think we
8 should have a presentation, some discussion of the
9 -- of that issue. And I think Larry will be -- then
10 be free to talk to us about it. So I'd like that on
11 the agenda for the next meeting, or whenever the
12 meeting is following the awarding of the contract.

13 **MR. MILLER:** Does that -- let me just ask a
14 rhetorical question. Isn't that closing the door
15 after the horse has left the stable?

16 **DR. ZIEMER:** Since that's a rhetorical
17 question, it doesn't call for an answer, but we're
18 all pondering it heavily here. Henry?

19 **MR. MILLER:** Just may the record reflect a
20 pause.

21 **DR. ANDERSON:** A quick question, Larry. Do
22 you see the dose reconstructions kind of being
23 anonymous or will whoever did it have their name
24 attached to it so that the claimant could see that
25 this is the person that did it and here's their

1 credentials and have some sense that they know that
2 they could do the -- their concern about any
3 conflict of interest, or is it going to be
4 anonymous?

5 **MR. ELLIOTT:** As I've said before, completed
6 dose reconstructions are NIOSH work. They will come
7 across to the claimant as a NIOSH product, using
8 NIOSH letterhead and a NIOSH report to transmit that
9 information.

10 I didn't answer your question. I hear
11 somebody saying that. I did answer the question.
12 No, you will not see the name of the individual dose
13 reconstructionist from the contractor on the
14 transmittal of the report. Whether we have it -- I
15 think we will have it on the individual draft dose
16 reconstruction report and on the final. Am I
17 correct, Jim? That's the way the current reports
18 are set up so we know who conducted -- who was the
19 dose reconstructionist. We know who was the
20 reviewer. We know who reviewed the reviewer's work.

21 **DR. NETON:** That's correct.

22 **MR. ELLIOTT:** But again, it's a NIOSH
23 product. We take -- we are the ones held
24 accountable for that.

25 **MR. MILLER:** So does that mean the claimant

1 will never have access to that information?

2 **MR. ELLIOTT:** Again, the claimant will get a
3 NIOSH letterhead transmitting the dose
4 reconstruction report that will indicate who the
5 dose reconstructionist was.

6 **MR. MILLER:** Okay.

7 **MR. ELLIOTT:** Who the reviewer of the dose
8 reconstruction was and who reviewed that reviewer's
9 work.

10 **MR. MILLER:** Okay. So they will get --

11 **MR. ELLIOTT:** They're going to see all
12 three, but they're not going to have access, per se,
13 to that individual dose reconstructionist, if that's
14 what you're seeking.

15 **MR. MILLER:** Well, I guess the question is
16 will the resumés of those individuals be available
17 to claimants.

18 **MR. ELLIOTT:** I'd have to defer and -- I
19 don't have an answer for that question at this time.

20 **DR. NETON:** I think we're getting into
21 issues that are related to our contract
22 negotiations, really.

23 **MR. MILLER:** Oh, so that's great, so you're
24 dealing with this. Okay. Thank you.

25 **DR. ZIEMER:** Thank you, Richard.

1 **MR. ELLIOTT:** I can't let that go. Yes, we
2 are dealing with this. We're very serious about
3 this conflict of interest and certainly your
4 comments are well-taken and they have from the very
5 start, Richard. And once the contract is awarded,
6 the conflict of interest plan that's been negotiated
7 and put in place will be available, and I think
8 that's a key document. That's more of a key
9 document to your understanding of how we're
10 addressing this than the individual dose
11 reconstructionist's name and resumé.

12 **DR. ZIEMER:** We have another public comment
13 from Joseph Carson. If I read this right, Joseph is
14 Department of Energy. Is that correct?

15 **MR. CARSON:** Correct.

16 **DR. ZIEMER:** Thank you.

17 **MR. CARSON:** Well, good day, Dr. Ziemer. I
18 think it's about ten years since we've last spoken.

19 Anybody know who I am? Joe Carson, DOE
20 whistle-blower, prevailed eight times? I don't want
21 to belabor points.

22 I'm a safety inspector in DOE nuclear worker
23 safety. My background, Navy scholarship to college,
24 six years an officer on submarines, worked at
25 commercial nuclear power plants in the eighties,

1 joined DOE in 1990, so I didn't grow up in DOE. I
2 was hired to be an OSHA NRC inspector.

3 Following the Chernobyl reactor accident the
4 National Academy of Sciences did a review -- I'm
5 from New York, as you can probably tell, and I want
6 to talk quick so you can get out. Okay? -- review
7 of safety of DOE reactors. One of the
8 recommendations was DOE should mimic the NRC, which
9 following Three Mile Island has placed resident
10 inspectors at all commercial nuclear power plants so
11 that the NRC and headquarters would have another way
12 of getting safety -- as opposed to getting it from
13 the utility, could also have their people providing
14 another insight into the safety conditions at the
15 plant.

16 So at that point in time, you know, DOE is
17 still self-regulating in both worker safety and
18 nuclear safety. I was hired to be a headquarters
19 safety inspector, primarily in Oak Ridge, but I
20 reported back to headquarters. Dr. Ziemer was the
21 Assistant Secretary. Not initially, I think he
22 became Assistant Secretary sometime in '90 through
23 the Bush administration, so he was my first
24 Assistant Secretary.

25 At the time DOE was very -- and still is

1 very dependent upon support service contractors.
2 You're talking about your contractors here. I was
3 working alongside primarily support service
4 contractors, and I found that it was kind of like a
5 Persian court where the viewing manager would be the
6 caliph, the support service contractors would make
7 about \$200 an hour, would be kind of fawning down
8 because the manager had complete control of how much
9 work they would get, and the DOE employees were at
10 the back of the bus.

11 I voiced concerns about the use of support
12 service contractors and basically, to make an
13 example out of me, they started throwing my safety
14 findings away so they could fire me for cause. And
15 I said -- you know, not only -- this -- and this
16 happened about the time when Dr. Ziemer was still
17 there. I said not only -- you know, you're going to
18 go after me, but what about all the people you're
19 putting at risk? And this is DOE self-regulating
20 safety and you're the regulators willing to roll
21 dice with people's lives to go after me, so I dug in
22 my heels and here we are ten years later. DOE has
23 now paid over \$400,000 in my legal bills.

24 The sickest thing about the whole entire
25 process is when you prevail as a whistle-blower,

1 nothing ties it back to where the safety concerns
2 get addressed. It's kind of like when you're a
3 victim in a crime, you know, the victim gets kind of
4 ignored sometimes. The safety issues that motivate
5 a whistle-blower, at least in DOE, they're often --
6 I could win 100 times, they could pay millions of
7 dollars, but DOE will actually turn around and say
8 we were not ordered to address your safety issues,
9 so we won't.

10 Well, MSPB is there to fix -- you tried to
11 fire him, you can't fire him. You tried to reassign
12 him, you can't reassign him. What is MSPB going to
13 say about safety issues? All they have to do to
14 prevail as a whistle-blower is show they're
15 reasonable, so MSPB doesn't order DOE to address the
16 safety issues. DOE turns and says we weren't
17 ordered to, so we won't. So I'm -- it's like
18 Groundhog Day. I go back and say well, I'm a
19 licensed P.E. My options are resign, blow the
20 whistle or both. Well, here we go again, yeah, and
21 it's been going on for ten years.

22 So what does that mean to you? A couple of
23 things. One of my initial findings that was
24 suppressed by EH -- off course EH had a
25 responsibility for it -- by Peter Brush*, who was

1 the principal deputy to Dr. Ziemer -- and this is
2 all in writing -- was that DOE's accident
3 investigation program was totally broken -- in Oak
4 Ridge, at least. I identified that approximately 80
5 accident investigations -- serious accident
6 investigation fatality, a serious injury, a serious
7 workplace exposure, a release to the environment.
8 There'd been approximately 80 -- of course Oak Ridge
9 didn't exactly know how many, but in the eighties
10 and early nineties, not once for any accident
11 investigation was there any verification of any
12 corrective action. Not once. So what'd happen is,
13 people who knew this, when they would go out to do
14 an accident investigation, they would basically
15 phone it in. Nothing's going to get fixed anyway.
16 And when I tried to document that because EH had a
17 responsibility for the follow-up or the tracking of
18 the accident investigations, because I was
19 embarrassing my own management, they suppressed it.

20 I said what about safety? As a licensed
21 P.E. I have a legal obligation to hold paramount the
22 health, safety and welfare of the public and the
23 workers in the performance of my professional duty.
24 So I said to DOE you knew I was a P.E. when you
25 hired me. I'm just being a P.E. and I'm required

1 legally to blow the whistle when necessary. I'm
2 just doing my lawful duty.

3 I'm named after a New York City fireman.
4 I'm wearing my grandfather's ring. I guess came to
5 view the wrong set of values.

6 All right, so let's talk about the sick
7 workers. My contention is DOE treated these workers
8 as expendable, and what I handed out to you today is
9 DOE in a microcosm. In 1994 I was involved in
10 investigating a fire at a reactor at Brookhaven
11 National Lab. During the fire there was a
12 measurable release of radiation to the environment.
13 A number of the first responders were contaminated.
14 The interior of the reactor building was
15 contaminated. DOE later claimed that no safety
16 violations had occurred at the fire, which I knew to
17 be a complete lie, so I told my -- I did point --
18 Dr. Ziemer had moved on. I told my supervision.
19 They tacitly agreed with me, but when the report
20 came out, no mention of the safety violations. When
21 you have a fire and you have people risking their
22 lives as first responders to put the fire out, and
23 there are safety violations that cause the fire and
24 there's a cover-up of the safety violations, you're
25 treating those first responders as if they were

1 expendable, and that's what DOE did.

2 And that -- in this case, here we are eight
3 years later. I have gone all the way to the
4 President with this issue and DOE's representation
5 is it wasn't a nuclear facility because the uranium
6 that was used in this experiment, before it was
7 irradiated with neutrons or exposed to neutron
8 flux*, wasn't that hazardous.

9 Well, that's true, just like new nuclear
10 fuel is not that hazardous. If you have it in your
11 garage, you're not going to have a problem with it.
12 But if you put a spent nuclear fuel rod in your
13 garage, you're going to be dead pretty quick. And
14 this experiment would take neutrons from the reactor
15 and irradiate a fissile target of uranium, creating
16 basically fissions in that uranium. So this
17 experiment was surrounded by heavy shielding walls.
18 When the experiment was done, the target was treated
19 as high level nuclear waste, and now DOE has
20 represented to the President it wasn't a nuclear
21 facility because before the target was exposed to
22 the flux it wasn't that dangerous.

23 So but my issue is, DOE, why don't you just
24 tell the President we don't need Yucca Mountain
25 because the new nuclear fuel's not that dangerous,

1 either. So that's the kind of rigmarole I've
2 experienced from DOE.

3 So what does this mean to you? I would have
4 to question -- okay, additionally, the sick workers.
5 Here now you -- you're the advisory committee. I'm
6 going to make a contention, making this as a P.E.
7 If you don't think it's accurate, please, file an
8 ethics complaint against me. Please, because DOE
9 will not address my issues. I want them addressed
10 somewhere in some form. These sick workers are a
11 workplace health and safety disaster of national
12 scale. Just like Enron, WorldCom, Global Crossing,
13 CPA and lawyer disasters, so to speak, which is
14 financial, who has said where were the safety
15 professionals when all these people were being
16 exposed? Where were the people who had legal duties
17 to hold paramount the health, safety and welfare,
18 risking their jobs, risking their careers if
19 necessary to do their duty by the health and safety
20 of the workers? That's what all these Codes of
21 Ethics say. That's what the law says. It didn't
22 happen and no one is saying it. We're tacitly part
23 of a cover-up and then we're turning around, saying
24 to the same safety professionals, tell us what
25 happened, without even saying you did wrong.

1 If you think I'm wrong, where are all the
2 safety professionals now? I have won and won and
3 won. You think they would be insulted. Oh, no,
4 it's my personal problem. My personal problem. So
5 they can go home, get their fat paychecks, get their
6 pretty easy jobs and say well, it's just Joe's
7 personal problem, just like the DOE will say he's
8 emotionally unstable. He's a threat of workplace
9 violence. Because it's like the politics of
10 personal destruction at a retail level. If I could
11 be discredited personally, you don't have to deal
12 with the technical issues, do you?

13 Okay. I'm squeaky clean. I have a Q
14 clearance. DOE has dirt on me. Where is it? It's
15 going on for ten years. My life's an open book. My
16 wife is the president of PTA. I teach Sunday
17 School. Okay? I'm involved in leadership positions
18 in a number of leading professional societies.
19 Where's the dirt, DOE? When are you going to deal
20 with the technical issues? I'm really right now at
21 the point that one or more Senators going to put a
22 hole in as DOE Deputy Secretary to persuade DOE it's
23 not going to get away with it anymore. Just last
24 week DOE said a settlement of my case is not,
25 quote/unquote, legally warranted. Well, when is a

1 settlement ever legally warranted. Try to persuade
2 DOE that doing the right thing is going to be
3 politically warranted, or hopefully someone in the
4 Senate will.

5 I'm saying that you can't trust any of those
6 safety records. You can't trust the safety
7 professional providing it to you. You may say I'm
8 wrong. Well, let's address what -- are the sick
9 workers a health and safety -- workplace health and
10 safety disaster? If so, where was the breakdown in
11 the Code of Ethics? Where was the breakdown by the
12 professionals by their professionals, and let's try
13 to get to the bottom of that aspect of it 'cause I
14 think that will give some answers to how much
15 reliability can be placed on the safety records by
16 which you're going to be -- or you'll be advising
17 the people who'll be making the determinations about
18 claims for people.

19 So some suggestions. Acknowledge the
20 possibility that the DOE workers are a workplace
21 health and safety disaster and ask the appropriate
22 safety professions and professionals to evaluate was
23 there a breakdown in the Code of Ethics in their
24 professional duty, individually and collectively.
25 What should be done about it?

1 The handout I gave about this HFBR fire. I
2 would request this advisory committee request the
3 DOE do in fact a differing professional opinion as
4 to whether I was right or wrong about that facility
5 being a nuclear facility because if I'm right, it
6 has EH implicated, the Office of Science implicated,
7 the DOE IG implicated in a cover-up, right up to the
8 Secretary -- or I should say the Assistant
9 Secretary.

10 Discretionary function. One reason we're
11 here is because discretionary functions have been
12 used over the years by the courts to prevent workers
13 from getting claims. I'm not an attorney, but I
14 have to ask the question, does discretionary
15 function allow DOE to suppress, as in my case, a
16 licensed safety professional from doing their duty
17 and then to punish them for it? Does the government
18 have the discretion to do that, too? I don't think
19 so, but I think that's a question the court should
20 address.

21 Conflict of interest. I'm speaking about
22 what Richard Miller said. I think one way to
23 address conflict of interest is what things -- what
24 do your -- and the dose reconstruction people, if
25 they're certified as something or other, what are

1 their professional ethics? How are they relevant to
2 conflicts of interest? What -- where's that
3 professional accountability that might -- you know,
4 if there's a conflict (inaudible) on one side, but
5 on the other side, you know, this is where we rely
6 upon professional ethics to try to bring things back
7 to an even keel. What is the applicability of that?

8 Okay. Those -- that's my comments. I'd
9 appreciate any questions you may have.

10 **DR. ZIEMER:** Okay. Are there any questions
11 for Joe? Joe, you particularly expressed concern
12 about the reliability of those records that we'll be
13 depending upon. Are you suggesting that they may be
14 altered or we're just not going to be able to get
15 what we need or -- can you give us -- what's -- from
16 where you sit, what does that look like? We've had
17 some concern, number one, about getting full
18 records. I don't think we've been so concerned that
19 there's folks sitting there trying to doctor them,
20 per se. But can you flesh out a little bit about
21 your concern about those records or -- flesh that
22 out a little bit 'cause I think we want to be sure
23 we get full records.

24 **MR. CARSON:** Well, I'm going to speak first
25 personally and I'll try to expand on it. As an EH

1 safety we had databases that we would keep our
2 safety findings, and they were erased twice and we
3 basically start all over. So my first question
4 would be how complete they are.

5 My next question would be --

6 **DR. ZIEMER:** Now when those things occurred,
7 was there a record made of the loss of information
8 to --

9 **MR. CARSON:** No, that was one of the things
10 I blew the whistle about and suffered the punishment
11 for. No, there was not.

12 And these type A and B accident
13 investigations, there is still records that these
14 investigations occurred, but there's no record that
15 corrective action was ever completed and they
16 basically just kind of waved their hands over them I
17 guess in the late nineties.

18 I would also have -- suspect if you're a
19 industrial hygienist, a health physicist, and you
20 were told don't find positive readings, that you may
21 have readings there but they were not accurate
22 readings in some -- to what people were exposed to.
23 And I guess the phrase that came up three years ago
24 at Paducah was midnight negatives, when they would
25 vent the cascades to the atmosphere at night so no

1 one would see it and they would call it midnight
2 negatives, you know, 'cause they wouldn't be keeping
3 track of what was going up the stack.

4 It's some very stark realities in DOE. You
5 know, DOE had security clearance, and I would not be
6 here at this point had the Cold War not ended
7 because they tried to pull my clearance. There is
8 no due process for pulling a clearance. They can
9 just pull it for any reason, and if your job
10 requires you to have a clearance, that's grounds to
11 terminate you 'cause basically for DOE or a DOE
12 contractor, triple play. One, you know, you're
13 fired; two, you're personally discredited; three,
14 you're black-listed in the industry the rest of your
15 career -- 'cause if you ever lose a clearance at one
16 place, you can never work, at least in nuclear
17 power, again. So it's pretty -- you know, pretty
18 high odds, pretty -- you know, I'm -- be honest,
19 that's -- you know. I served on submarines for six
20 years. I was willing, if so ordered, to play an
21 active part in the deaths of millions of people. It
22 wasn't so I could just look the other way at what I
23 saw wrong in DOE. But to --

24 So in trying to address your question, Dr.
25 Ziemer, I would question the completeness, I would

1 question the accuracy, I would question -- you know,
2 the -- again -- and this is the -- and another
3 aspect of the bigger issue, how much -- you know,
4 who are you going to trust? How much could those
5 technicians -- you know, they -- were they in fact
6 to some degree subject to biases, they make -- write
7 them less than what they really are? And that's
8 what I'm asking because some of the things in my
9 case, it's talking by extract -- interpolation, but
10 that's -- that's my -- that's my point.

11 **DR. ZIEMER:** Yeah. Okay, thank you.
12 Additional questions? Yes, Sally.

13 **MS. GADOLA:** I was wondering just which
14 facilities you were particularly talking about in
15 Oak Ridge, if you could make that clearer, please.

16 **MR. CARSON:** Well, at Oak Ridge I was a
17 headquarters resident so I went to all the sites at
18 Oak Ridge -- K-25, X-10, Y-12 -- and I saw some
19 similar issues in each. Like I would be looking at
20 hoisting and rigging -- well, the accident
21 investigation was cross-cutting. You know, there
22 would be -- Oak Ridge, that would even be looking at
23 reports from Paducah and Portsmouth, which at the
24 time were reporting back to Oak Ridge, the Oak Ridge
25 operations office. But in my field inspections, I

1 would be at all three sites. Am I answering your
2 question? I'm not sure I fully understand your
3 question.

4 **MS. GADOLA:** Yeah, you are answering. That
5 was what my specific question was, and Dr. Ziemer
6 also asked the other question that I had and that
7 was changing safety records and reporting, which is
8 something that I've expressed concerns about that
9 I've seen happen in private industry and it's
10 something that I've been questioning that -- that
11 has this also happened in DOE facilities. So I
12 appreciate your addressing that.

13 **MR. CARSON:** You know, there are two ways of
14 -- you know, one lie is not write anything.
15 Another lie is to say -- write something -- you
16 know, sample where you think you're going to --
17 you're going to get what you want to find and not
18 what you don't want to find. You follow me?
19 There's a scale of gray, so to speak, as the poets
20 would say. Someone actually went in and read A and
21 wrote B, well, that's one thing that may have
22 happened. But it's more -- I would think more
23 likely either someone decided not to go in and read
24 or someone didn't go there, they read somewhere else
25 and said I think I was close enough. You know,

1 there's any number of ways to kind of nick it, you
2 know.

3 **MS. GADOLA:** Right, and sometimes people
4 have good intentions, but sometimes genuine mistakes
5 are made, too, especially if people are not as
6 careful as they should be.

7 **MR. CARSON:** Well, let me -- DOE, as you may
8 know, pays the highest salaries in the Federal
9 government. And when I say that, you're going to
10 say how can that be, isn't everything by grade and
11 whatever, whatever? Yes. And if you go to DOE,
12 you're a grade or two above what you would be just
13 about anywhere else. So you might think DOE gets
14 the best and the brightest. My perception is no,
15 you get people who put up with it because they get a
16 little more money, and that's why they don't want to
17 voice a concern because they can't get paid that
18 much anywhere else. And they're saying that there's
19 -- there's a greed and a fear that was at -- that
20 was -- still -- still is today very much present at
21 DOE. What you would think -- you would think, you
22 know, 20 -- DOE I mentioned is self-regulating. Why
23 are not all the engineers in DOE licensed
24 professional engineers, at least to give some
25 individual professional accountability. I would not

1 have experienced what I've experienced in the last
2 ten years if these engineers were P.E.'s 'cause I
3 would go after them through the state boards. DOE
4 may reward them, but the state boards might take a
5 different view of things. So just to -- I'm just
6 trying to -- there's just up and down.

7 You know, and I'll point the finger at the
8 safety professionals. In that handout you have a
9 bunch of letters written in the last couple of
10 months, AAAS has written letters about my behalf,
11 NSPE -- and again, I don't want to be self-
12 aggrandizing, but these are firsts because the
13 bullets are still flying, legally. And these -- and
14 the profession actually showing some cohesiveness --
15 Code of Ethics? Unheard of. So you know, you're
16 seeing the pioneer at the frontier of engineering
17 ethics. But you see DOE, I think, as the wasteland
18 that happened with these sick workers because too
19 many other people just basically said I don't want
20 you to get sick. I'm not going to put it in
21 people's heads, but push to shove, my economic well-
22 being takes precedence over your physical well-
23 being.

24 **MS. GADOLA:** Well, I'm sure we appreciate
25 your comments and different people have different

1 opinions about what actually happened, but I think
2 the more light that's shed on the whole picture, the
3 sooner we can get more actual truthful information.

4 **MR. CARSON:** Yeah, I don't want to -- and
5 it's not so black and white. It's a tapestry. It's
6 complex. That's why I'm saying let's look at it
7 from the perspective of was there -- was the Code of
8 Ethics inadequate? Was the implementation
9 inadequate? Was it both? Because if it was, what
10 has changed to make it better now? If it's not --
11 you know, if you're going to trust the
12 prescriptions, you have to trust the diagnosis. I'm
13 saying that's part of the diagnosis that has not
14 been evaluated.

15 **MS. GADOLA:** Right. Sometimes you need to
16 re-evaluate the whole big picture again, and I think
17 that's what you're getting at. Thank you.

18 **MR. CARSON:** Okay.

19 **DR. ZIEMER:** Okay, additional comments or
20 questions for Joe? Okay, Joe, thank you very much
21 for being with us today.

22 **MR. CARSON:** Thank you.

23 **DR. ZIEMER:** Were there any other public
24 comments? I only have the two signed up, but --
25 that's it? Thank you.

1 There will be opportunity tomorrow again for
2 public comments, if additional individuals wish to
3 make such.

4 Tomorrow morning the schedule is as shown,
5 beginning at -- 8:00 to 8:30 is really your chance
6 to get here, grab a snack and chat a little bit.
7 The actual gavel will hit the table at 8:30. The
8 main things on our agenda tomorrow are discussions
9 on Special Exposure Cohort and on the dose
10 reconstruction work group's recommendations.

11 Let me see if there's any administrative
12 things we have to take care of today. Any -- okay,
13 the room will be locked, so you can leave materials
14 here if you need to overnight. Anyone have any
15 other -- oh, those that -- the working groups --
16 Mark, your working group is going to get together?

17 **MR. GRIFFON:** Yeah, I was just discussing --
18 I mean I'll offer to -- I'll talk with them after
19 this, but I was going to offer to draft something
20 tonight and then maybe meet a half an hour before
21 the meeting. Is that okay?

22 **DR. ZIEMER:** Meet here?

23 **MR. GRIFFON:** Yeah, meet here, and I was
24 going to ask the same, Paul, for your -- is your
25 group going to get -- 'cause I was going to get some

1 -- the reason I don't want to meet right now is I
2 have some written comments for the SEC that I'd like
3 to get to your group and --

4 **DR. ZIEMER:** Right.

5 **MR. GRIFFON:** -- how can -- how can people
6 do that if they wish to get written stuff to you?

7 **DR. ZIEMER:** Well, I'm -- again, I can
8 compile it tonight if -- unless the group wants to
9 meet briefly. But would you want me to compile it
10 and then meet in the morning? We could meet at
11 8:00, go over it. Is that okay?

12 **MS. MUNN:** Okay.

13 **DR. ZIEMER:** You'd rather meet tonight, huh,
14 Wanda?

15 Well, yeah, the thing is, 8:00 o'clock is
16 what, 5:00 and --

17 **MS. MUNN:** Yes, it's 5:00 a.m., but that's
18 all right. You don't expect much of me. Right?

19 **DR. ZIEMER:** Well, okay. We'll work it out.
20 So we'll recess now and reconvene tomorrow morning
21 at 8:00 -- 8:00 o'clock.

22 (Meeting adjourned at 5:35 p.m.)

23

24

C E R T I F I C A T E

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 14th and 15th day of August, 2002; and it is a true and accurate transcript of the proceedings 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 14th day of September, 2002.

STEVEN RAY GREEN,
CERTIFIED MERIT COURT REPORTER
CERTIFICATE NUMBER: A-2102

Presidential Advisory Committee
Department of Health and Human Services
Centers for Disease Control and Prevention (CDC)
National Institute for Occupational Safety and Health
(NIOSH)
Advisory Board on Radiation and Worker Health

VOLUME II

The verbatim transcript of the Meeting of the Advisory Board on Radiation and Worker Health held at the Hyatt Regency Cincinnati, 151 West Fifth Street, Cincinnati, Ohio, on August 14 and 15, 2002.

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In the following transcript "uh-huh" represents an affirmative response, and "uh-uh" represents a negative response.

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

2 (8:30 a.m.)

3 DR. ZIEMER: Good morning, everyone. I'm
4 going to call the group back into session for our
5 second day on this sixth meeting of the Advisory
6 Board on Radiation and Worker Health. The record
7 will show that all the members are present, although
8 they're not all at the table.

9 DR. MELIUS: Except Henry.

10 DR. ZIEMER: Oh, Henry left. I'm sorry,
11 Henry had to leave, so all members except for Henry
12 Anderson, who was not able to be here for this
13 second day.

14 Before we get to the agenda items, I'd like
15 to make a couple of announcements. Number one, to
16 remind everyone, including the Board members, to
17 register again today your attendance here. They
18 actually register for both days separately so
19 everyone -- observers, staff and Board members --
20 please register your attendance in the book on the
21 table in the rear.

22 Those who -- members of the public who wish
23 to address the Board, please sign up there at the
24 table, as well.

25 Board members, sometime before you leave

1 today, if you have preparation time hours that you
2 need to turn in, turn those in to Larry Elliott.

3 Later on in the meeting we'll have some
4 brief time for any additional administrative
5 housekeeping items, but let's now move on to the
6 agenda items. The first item is discussion on
7 Special Exposure Cohort. This is in relation to the
8 comments that we wish to develop and submit --
9 actually to submit to Secretary Thompson which will
10 become our comments on the rule-making.

11 You need to have before you, as we discuss
12 this item, three pieces of paper. The first -- or
13 three items, there's more than three pages. The
14 first item is the packet that was handed out
15 yesterday called -- it says at the top Advisory
16 Board on Radiation and Worker Health, comments on
17 proposed rule 42 CFR part 83. That packet has five
18 pages, the first two pages of which have some
19 comments on specific sections -- draft comments,
20 really; the third page of which has some comments by
21 Wanda; and then the last two pages are some comments
22 from Tony, so have that handy.

23 The second item which we will utilize as we
24 go into discussion on this is a two-pager that says
25 ta the top General Comments. You should have found

1 it by your seat there yesterday. It's not
2 identified. It's a highly secret document.
3 Actually it's authored by Jim Melius and so you can
4 make a note of that and you can even date it 8/15,
5 but it has five items on it and in a moment I will
6 ask Jim to lead us in a little discussion of these
7 items, which are some thought-provoking items which
8 will mostly relate to this rule-making.

9 And then the third item is being distributed
10 right now, and these are some comments that Mark
11 Griffon has proposed that we consider, as well. And
12 these are hot off the press so I've not had a chance
13 to look at them, but Mark has prepared these
14 comments as an outcome of our discussion at the last
15 meeting, so there's some statements here regarding
16 the issue of accuracy or what is sufficient
17 accuracy, some information on clarifying the issue
18 relating to non-SEC-listed cancers, and thirdly,
19 definition of endangered health. So we'll take a
20 look at those comments, as well, as we proceed here.

21 Now just to get us underway, on the first
22 packet, the statements there are suggested comments
23 to be made section-by-section. If we take Wanda's
24 comment, which is mainly on one of the words, the
25 word being, in section 83.1, "proactive" -- Wanda

1 felt that that word had certain connotations that
2 might be undesirable and she's suggesting an
3 alternate word. I think the word was "diligent".

4 And then Tony's comments were mainly to
5 restructure 83.1 to provide an actual suggesting
6 wording. It's a slight modification of the wording
7 that was there, and we can come back to that, and
8 then to add some comments for section 83.2. So
9 those, all taken together, result in rather modest
10 modifications to the first two pages that you have.

11 Now let me ask you to just put those aside
12 for a minute because I think before we get into any
13 details on wording anything, I'd like us to consider
14 some of the related issues that have been raised.

15 First of all, let's take a look at Jim's
16 document -- and Jim's agreed to lead us through
17 this, and I've spent a little time myself and I
18 think some of the others have in thinking about
19 these questions and how they might possibly be
20 addressed in some suitable way in the rule-making.
21 But Jim, if you would lead us through your concerns
22 there and then let me ask, as we proceed, that
23 people respond to Jim's questions and give us input
24 so we can get a feel for what others are thinking on
25 these issues.

1 **DR. MELIUS:** The first comment concerns the
2 relative balance between the two approaches to
3 developing Special Exposure -- new Special Exposure
4 Cohorts. And I think as we discussed at the last
5 meeting and the NIOSH staff, in response to some of
6 our questions, is that the emphasis in the current
7 approach is -- a rule is on developing Special
8 Exposure Cohorts after an individual has gone
9 through the process and NIOSH has been unable to
10 complete the dose reconstruction. And NIOSH
11 envisions that as the major way of people entering
12 new Special Exposure Cohorts being developed.

13 And my concern about that is that that's
14 going to delay the process because a person has to
15 go all through that process. It's going to be a
16 difficult dose reconstruction 'cause you eventually
17 get to the point where you can't do it, so -- but
18 that's going to take some time and effort to
19 determine that you can't do it. Then you have to go
20 through the whole process of developing the Special
21 Exposure Cohort, which is the petitioning process,
22 the report and so forth. And that's just going to
23 take a longer period of time.

24 Secondly, it's going to be sort of a
25 difficult process from the claimant's point of view

1 'cause meanwhile one person's going to have
2 submitted a claim, other people, maybe from the same
3 work site or same area, are going to be submitting
4 claims. They're not going to know what's going on
5 and it's going to take a longer significant period
6 of time to pull all that together. And I also don't
7 think it's a very efficient approach to doing this.
8 And given the large number of claims that are
9 pending or that we believe to be in the pipeline
10 coming down here, that I think a more -- I won't use
11 Wanda's unfavorable word there, proactive, but an
12 approach that relied more on the petitioning process
13 would be more efficient 'cause it would allow up
14 front the designation of some Special Exposure
15 Cohorts, an active process to determine who would
16 qualify, whether there was adequate dose information
17 available to be able to do individual dose
18 reconstructions on those in that group. And
19 eventually, as those cohorts got designated, it
20 would be a much more efficient process because there
21 would be a larger number of Special Exposure Cohorts
22 or you'd get there quicker, I guess is the -- is my
23 feeling on that.

24 I think it's also much more understandable
25 and easier for the claimants to interact with that

1 process, rather than waiting for the individual and
2 not understanding very easily, it's not a very
3 transparent process figuring out what's happening
4 with your individual claim and whether you qualify
5 and how much information is needed and so forth,
6 that more emphasis on the petitioning approach I
7 think would be a -- I think it's just a better
8 overall approach and a more efficient approach and a
9 better use of the available resources for this --
10 for the designation of Special Exposure Cohorts.

11 So I guess what I would be recommending is
12 that they put more emphasis and make the petitioning
13 process a little bit easier in terms of providing
14 better guidelines and making that a little bit more
15 direct for encouraging people to apply through that
16 process than -- rather than waiting on all the
17 individual claims to have gone through that process.
18 I think we had some discussion of this last time, so
19 that's not a new idea. It's something we did talk
20 about at the last meeting.

21 Okay, do you want to discuss that?

22 **DR. ZIEMER:** Yeah, let's discuss them as you
23 present them, while they're -- okay. Roy?

24 **DR. DEHART:** I don't recall that there was
25 anything in the rule itself that prevents

1 petitioning and that worker representatives can
2 prepare a petition for a group of workers, probably
3 workers independently could prepare a petition. And
4 would the fact that an individual in that petition
5 have applied as a single individual for dose
6 reconstruction in any way inhibit the process from
7 going forward as a petitioned group?

8 **DR. MELIUS:** NIOSH would have -- I don't
9 know of anybody's even thought through with it.
10 There's a lot of complications to this process with
11 this mix of individual claims and group claims going
12 on at the same time. And we talked about yesterday
13 with the non-SEC cancers, there's some situations
14 out there with -- over different time periods of
15 work within the SEC period, outside the SEC period.
16 How do you define the course? That everybody in the
17 cohort has to not be able to do dose reconstruction?
18 You may not know that until you've done some
19 individual cases. It may be that one person in that
20 work group had great monitoring and nobody else did,
21 and we know that the exposures were variable enough
22 that one can't extrapolate from that one individual
23 to everybody else very well.

24 I think if you look at the second and third
25 comments here, particularly the third comment, I

1 think I just -- there seems to be more of a barrier
2 set up in terms of the petitioning process and I
3 think I would like to see it made a little
4 friendlier process, and more emphasis put on that in
5 terms of the outreach and the activities going on to
6 encourage people to go through that process. And if
7 I remember correctly from last meeting, NIOSH was
8 saying they were emphasizing the opposite approach,
9 through the individual one, so I think it's just a
10 question of emphasis rather than a question of
11 either/or.

12 **MR. ELLIOTT:** Ted had stood. I don't know
13 if he has a comment.

14 **DR. ZIEMER:** Ted? Or do any of the staff
15 have comments on Roy's question about simultaneous
16 petitioning?

17 **MR. KATZ:** Sure. I didn't stand, I just sat
18 upright.

19 **DR. ZIEMER:** Well, once you do that, you're
20 in trouble.

21 **MR. KATZ:** I'm just teasing. Yes. I mean
22 in either case, whether simultaneously someone's
23 petitioning for a class and someone else has in a
24 claim seeking a dose reconstruction who would be
25 part of that class, in either case, however that

1 works, one of the first things we're going to have
2 to figure out is whether we can do dose
3 reconstructions for these individuals. And in that
4 respect, I mean there's no delay incurred because
5 we're going to have to figure out whether we can do
6 dose reconstructions. If a class -- if you petition
7 for a class to be added, we still have to answer
8 that question. We still have to go through the work
9 that we'd have to do with an individual dose
10 reconstruction if it comes to us that way to
11 determine whether we can do a dose reconstruction.
12 And I don't want to belabor the point, just -- but
13 there's no inherent delay here whatsoever because we
14 have to determine that -- answer that question first
15 anyhow.

16 **DR. ZIEMER:** Okay, thank you.

17 **MR. ELLIOTT:** I would like to add, also,
18 that I truly don't believe we emphasized one
19 approach over the other. We're offering an
20 opportunity of two approaches. We weren't
21 emphasizing that the individual claim and dose
22 reconstruction being able to be conducted was the
23 primary approach. What we emphasized was that an
24 individual, once diagnosed, needs to file a claim
25 immediately so that their medical benefits would

1 start at the time of filing.

2 DR. ZIEMER: Other comments? I suspect that
3 part of the concern is more the appearance -- and
4 maybe it's the wording that seems to put the burden
5 on the individual petitioner, even though the intent
6 may be to have it go either way. That was a concern
7 that arose last time, that perhaps it appears that
8 the petitioner must go through a certain process
9 first before they can even think about this
10 alternative.

11 Let's have some other comments. Yes, Tony.
12 Tony and then -- oh, okay.

13 DR. ANDRADE: Well, I tend to agree with
14 Jim. It's pretty clear that in 83.7(a) that groups
15 of employees, one or more employees, can petition.
16 However, there doesn't seem to be enough, as Jim
17 states, emphasis that group petitioning could also
18 -- that group petitioning might be the desirable way
19 to get into the system. And it's only that it's a
20 matter of emphasis, and it's not to emphasize one
21 approach versus the other. It's just to bring out
22 some clarity, some clarification. And I wouldn't
23 mind suggesting a simple language addition that
24 would say that, for example, a group of petitioners
25 who believe they have collectively been subjected to

1 a special situation or something to that effect.
2 And it could very well be pointed out in one simple
3 phrase, I think, in 83.7.

4 **DR. ZIEMER:** Robert?

5 **MR. PRESLEY:** I also agree -- Bob Presley.
6 But I have one comment. A lot of these people are
7 deceased. They don't know that they're in a group,
8 and I think it behooves us to be able to go back in
9 and look at that and maybe have some input to be
10 able to put those people in a group. And you know,
11 we're working with people that don't have a clue of
12 what their spouse did or their father did, and so I
13 think it -- we need to look at that a little bit
14 broader.

15 **DR. MELIUS:** Can I just comment? I think
16 that's a very good point and I think if you wait
17 until individuals apply, they're going to be ill and
18 probably older. And getting the information from
19 them, the burden on the families to try to provide
20 some of the necessary information will be that much
21 more. If the cohort's designated up front, then you
22 don't have to go through that process and so forth
23 to do that.

24 I think and agree with what Tony's
25 suggestion was, too. And I think if you go to

1 number three suggestion down here, which is just one
2 of the follow-ups to this, is that the way the
3 rule's written now for the petitioning process,
4 there has to be -- I forget the wording used -- a
5 positive affirmation that the records don't --
6 exposure records don't exist, and that's a -- I
7 think that's a question of wording, but that's a
8 burden.

9 And then there's this thing, or. It's an
10 or. It's not an absolute requirement. Or a health
11 physicist or other dose reconstruction expert has to
12 review the information and submit a report with it.
13 And it's not an absolute requirement, but I think it
14 certainly implies a heavier burden for the
15 petitioning process. I think that could be taken
16 care of in the rule by putting in a third "or" into
17 that. That, one, yes, you ought to find out if dose
18 information's available to the extent that that's
19 possible to do, but also providing some sort of
20 guidance for what other information. It may be it's
21 some sort of internal report that's available or an
22 outside review that's pointed out that this group
23 was not monitored for a period of time and there was
24 a potential for significant exposure, so forth. But
25 not implying that someone has to go out and get an

1 expert to come in and help them do the job that I
2 think people are expecting NIOSH to be doing as part
3 of this process. I mean I can see the reason for
4 the petitioning including some rationale for why it
5 should be a special cohort, but I don't think one
6 can expect the petitioner to do all the proving, so
7 to speak, 'cause that's difficult. And I don't
8 think this is what NIOSH intended when they wrote
9 this, based on our discussions at the last meeting.
10 But it certainly is implied in the language there
11 and I think that's something we can fix with some
12 other suggested phrasing in there.

13 **DR. ZIEMER:** Other comments? Yes, Tony.

14 **DR. ANDRADE:** Tony Andrade again. What I
15 see here, Jim, is two issues that we're trying to
16 work at the same time. And one is to try to
17 emphasize to the public that, in a very balanced
18 way, they can apply -- they can petition as a group
19 or they can apply individually. And when they do
20 apply either way, one of the comments that we have
21 not yet discussed actually gives NIOSH some
22 responsibility to help along that process, either
23 for the individual or for the group that's doing the
24 petitioning. And I think that that was the first
25 comment that I had suggested but that it hasn't --

1 we haven't yet talked about it.

2 **DR. ZIEMER:** Okay. Any other comments now
3 on the first item? I think we've -- pro or con.

4 (No responses.)

5 **DR. ZIEMER:** Okay. Then let's go ahead with
6 the second one, Jim.

7 **DR. MELIUS:** Second one? Okay. And I
8 should add that this comment ties somewhat to I
9 think one of Tony's comments at least that was from
10 the last meeting, and also one of Mark's comments
11 this time, and certainly my major concern about this
12 regulation is the fact that NIOSH has not provided
13 any guidance or guidelines for how they will make
14 the determination that there is not adequate
15 information to do a -- so that it's not feasible to
16 do a dose reconstruction with sufficient accuracy.
17 And I think that's a major deficiency of the
18 approach that's being proposed here, on several
19 fronts.

20 One is the one hand they are doing the --
21 saying that a dose -- it is not possible to do the
22 dose reconstruction, appropriate dose
23 reconstruction. At the same time implying that in
24 order to meet the health endangerment criterion that
25 there is enough information in order to be able to

1 make that calculation.

2 Secondly is that one has these -- I mean
3 there's different situations here and for people on
4 the outside looking at this process, either as their
5 own claims are being handled or as they are
6 approaching the petitioning process as a group, they
7 really do not have an understanding of what -- what
8 do they have -- what information do they have to
9 provide or what -- how will their information be
10 evaluated to determine whether they qualify for a
11 Special Exposure Cohort. How will NIOSH make the
12 determination that there is not adequate data
13 available to do -- I think as it says in the law --
14 to do a dose reconstruction with sufficient
15 accuracy, it's not feasible to do that. And I
16 really think that's a significant problem and I
17 think the whole program would be better over the
18 long term if NIOSH would wrestle with that question
19 and come up with a set of guidelines. And I
20 recognize it's not easy to do 'cause there's lots of
21 different ways of doing a dose reconstruction and
22 lots of different sources of information that one's
23 pulling together. But it's so critical to this --
24 the way this rule is constructed that I think that
25 there needs to be some guidelines provided. And my

1 preference would be those guidelines go for public
2 comment because it is going to be such an important
3 determination made on the part of NIOSH.

4 **DR. ZIEMER:** Tony?

5 **MR. GRIFFON:** Just a point --

6 **DR. ZIEMER:** Oh, Mark, I'm --

7 **MR. GRIFFON:** No, I just wanted to mention
8 that my point number one on my comments is almost
9 the same so we could probably discuss it at the same
10 time.

11 **DR. ZIEMER:** Good, okay. Yeah. Just pull
12 Mark's thing there and kind of put them side-by-
13 side.

14 **MR. GRIFFON:** They're the same point.

15 **DR. ZIEMER:** Determination by NIOSH that it
16 cannot complete a dose reconstruction for claimant.
17 Thank you.

18 **MR. GRIFFON:** Okay, sorry.

19 **DR. ANDRADE:** I would like to point out that
20 section 83.9 does indeed list guidelines that point
21 out when a dose reconstruction might be found
22 inadequate. And I would defer to the experts -- to
23 Ted and to Jim -- to comment if they wish to on that
24 particular section because it does list out general
25 guidelines as to when dose reconstructions are

1 inadequate. So maybe they can help answer that. I
2 felt that in general it did a fairly good job.

3 Now the specific question as to whether data
4 are accurate to a certain degree, I believe falls
5 into this as a subset -- as a question that would be
6 one of the parameters that is looked at in
7 determining whether a dose reconstruction is
8 adequate or not. So I think we need to answer
9 Mark's question -- and it's your question, as well,
10 Jim -- but I think we would need to do so in terms
11 of what's in 83.9.

12 **DR. ZIEMER:** Further comment? Okay. Mark,
13 are you --

14 **MR. GRIFFON:** Can -- I'm just -- it's table
15 one in 83.9, is that what you're looking at, Tony?

16 **DR. ANDRADE:** Correct.

17 **MR. GRIFFON:** Yeah. I don't think -- I mean
18 from my standpoint, I don't think that answers my
19 question. That is sort of what the petitioner would
20 be -- would have to provide to get in the gate, so
21 to speak. But I mean for sufficient accuracy, what
22 I was -- and in my comments, and I've had dialogue
23 on the side with NIOSH staff on this. I mean the
24 question of is there a quantitative way to define
25 this, I think that's difficult, to say the least.

1 Jim's shaking his head. Anyway -- but there may
2 also be qualitative, and I can't say I've explored
3 or exhausted options on this, but there may be
4 qualitative metrics that would -- and for instance,
5 and this is just a for-instance, you might consider
6 whether all or a percentage of the TLD or film data
7 was available for -- I'm thinking of it as -- for
8 the class, all or a percentage, I'm not -- and
9 bioassay data was available for all relevant
10 radionuclides and -- let's see, and the data was
11 consistent with the knowledge of site processes and
12 NIOSH could complete -- I mean those are very sort
13 of qualita-- and I'm not saying those are the ones,
14 but that's the idea of you could lay out some
15 qualitative metrics that gave a sense of the
16 threshold that it's going to take to reconstruct
17 sufficiently accurate. And I think I know the
18 response I'm going to get, but Jim's standing up.

19 **DR. ZIEMER:** Yeah, and I think we want to
20 hear from staff on this. I guess we've all kind of
21 felt intuitively that one of the issues is that we
22 don't really know fully what the parameters are.
23 That sort of begs the question because if we don't
24 know what those parameters are, then certainly the
25 claimants won't and so what are the rules of

1 engagement is sort of what it gets down to.

2 DR. MELIUS: Or how do we review those.

3 DR. ZIEMER: Yeah. Jim.

4 DR. NETON: Thank you. Jim Neton. I
5 actually agree with Mark to a certain extent --
6 surprise. I think we have to get away from the
7 concept -- and I agree with the qualitative nature
8 of this. The term "accuracy" means a lot of
9 different things to a lot -- many people, but we
10 have to couch this in terms of sufficient accuracy
11 to be able to make, in terms of our efficiency
12 process, a determination whether the person falls on
13 the left side or the right side of the compensation
14 bar. That's -- and so if we cannot determine
15 something with sufficient accuracy, in my mind, all
16 that really means is that we could not make a
17 definitive determination using the efficiency
18 process that it fell either to the left or to the
19 right of the 50th percentile at the 99th percentile,
20 of course. So you allow the efficiency process to
21 work. You start with your low/low, low/high -- you
22 know, what we were talking about yesterday -- and
23 you keep working your dose reconstruction till you
24 run out of facts, of factual evidence.

25 Once you run out and you realize, just like

1 Mark was saying, I'm still missing chunks that I
2 can't fit into this puzzle, I have no idea what this
3 person's dose was for 15 years; I can't find it and
4 he's still on the low side of compensation. The
5 only choice is either say the claim is denied or we
6 just can't complete it. We just do not have enough
7 information to make this claim complete. So it
8 really -- it's a qualitative issue, but I don't
9 think -- you know, you just know when you've
10 exhausted all possibilities and a claimant still is
11 not in -- possibly over the 50th percentile, you
12 just have to say we can't complete it. It sounds
13 squishy, but that's really the way it's got to work
14 in practice, I think, unless someone else can come
15 up with a better approach.

16 **DR. MELIUS:** Can I -- but that is the
17 problem with this approach. I think you've wrestled
18 well with this issue of do you make the 50 percent,
19 and that is what complicates this issue. But at the
20 other end, if you're looking at a group of people,
21 they may have -- their dose may accumulate up with
22 what information you have to different points, like
23 ten percent, 40 percent, all over the place. Well,
24 at what point do you then say there's not sufficient
25 information for that group? Or are you going to

1 deny half the group? I mean how are we going to
2 form a group out of this --

3 **DR. NETON:** Well, that speaks to setting --
4 determining the class. I mean if there's a class
5 that you can really -- we need to do our job very
6 well in defining that class down to its narrowest
7 common denominator. Who falls in that class that we
8 really don't have the information for. If we
9 clearly have information for half of that class that
10 we can do and -- they just won't be in the class.

11 **DR. MELIUS:** I just think you have to
12 operationalize that into guidelines in some ways to
13 have some consistency in the program, some
14 transparency, some knowledge so the claimants
15 understand they're being treated fairly in that
16 process, and so we can review it. And I think that
17 has to be written out in some way operationally how
18 you're going to handle that particular issue. And I
19 think that effort is really absolutely necessary to
20 making this process fair.

21 **DR. ZIEMER:** Roy.

22 **DR. DEHART:** I think there's one other step,
23 too, to consider here, which reinforces the idea of
24 being as precise as one can in guidelines, and that
25 is the appeal. As this stands now, it is so soft, I

1 wonder how a judge would assess this. And I would
2 think that it's going to be harder to sustain a
3 position under appeal with these kinds of
4 guidelines, as soft as they are.

5 **MR. KATZ:** Can I just --

6 **DR. ZIEMER:** Yeah.

7 **MR. KATZ:** Can I just speak to that point?
8 I really -- as is explained in the dose
9 reconstruction rule, where we can't do a dose
10 reconstruction, we have to lay out the wherewithal
11 -- why it is we can't do that dose reconstruction
12 very clearly in that report. So I mean that's what
13 would come before a judge, that kind of information.
14 What is the information lacking that prevents us
15 from doing a dose reconstruction that the judge
16 would evaluate. So they will get very clear
17 information at that point in time when we make a
18 determination that you can't do a dose
19 reconstruction.

20 And I just wanted to address then the second
21 point, Dr. Ziemer, that you raised -- that Jim
22 raises that it's unfair to the petitioners if we
23 can't tell them with more crystalline clarity when
24 we can't do a dose reconstruction because then they
25 won't know whether they're going to make it yet or

1 not, whether they're going to make it into the
2 class. But we're not burdening the petitioner with
3 actually proving that we can't do a dose
4 reconstruction at all. I mean that's our burden.
5 And they're free to petition and start the process,
6 press the button for it to go, without making --
7 they don't have to make that case. So it is a
8 problem in the sense that they won't know at the
9 front end what the outcome of their petition's going
10 to be because they won't be able to answer the
11 question, well, can they in fact do a dose
12 reconstruction or not. But they can get the process
13 going. They can get us set to work on doing the
14 work to evaluate that question. Thank you.

15 **DR. MELIUS:** Let me --

16 **DR. ZIEMER:** Sally and then Jim.

17 **MS. GADOLA:** I just had a question for Ted.
18 Could you give us some examples as what you would
19 actually write in that report as to why you couldn't
20 do the dose reconstruction?

21 **DR. NETON:** Ted just tapped me on the
22 shoulder, so I guess I'll come up with an example.
23 I think it's sort of -- to complete what I was
24 saying earlier, is if we did the dose reconstruction
25 and we move so far and found maybe 75 percent of the

1 available information, found bioassay results, air
2 monitoring results, all that sort of thing, but
3 maybe the external dosimetry component was missing
4 and we had no co-worker data, really no good source
5 term to hang our hat on, we would say that this
6 person's dose record is incomplete; it cannot be
7 completed; we've searched high and low, there is no
8 component that we can use to estimate his external
9 dose and therefore we can't complete it.

10 Now that being said, it's possible -- and
11 you know our efficiency process. We don't always
12 have to have complete information. If a person --
13 based on the merit of just their internal results --
14 is over 50, we won't bother to even search for the
15 rest of that information. But in those cases where
16 the components that we do have do not put the person
17 over the bar, we'll have to identify which pieces of
18 those information are missing that we feel could add
19 dose to their claim, to their case. So I mean I
20 can't -- I could go on.

21 **MS. GADOLA:** I think that helps clarify a
22 little bit, at least in our own minds, and maybe
23 that's where some of this questioning comes from
24 because that's still sort of vague.

25 **DR. NETON:** Right. But it really ties in

1 with our efficiency process again. We just keep
2 going and pulling the thread as far as we can go
3 until we run out of possibilities. But if we can't
4 find all the possible sources of exposure and
5 identify them, then that's when we pull the plug and
6 say we can't go any further.

7 The other option's to deny the claim or send
8 the claim to Labor with an incomplete dose
9 reconstruction and unjustly have them deny the claim
10 because we don't have all the information. But
11 there's no very really good quantitative -- I mean
12 we could describe this qualitatively is sort of what
13 I'm sketching out here, and maybe that would help.
14 I don't know.

15 **MS. GADOLA:** Thank you.

16 **MR. KATZ:** Can I just add to that, Jim,
17 because something that I think I've already heard,
18 and Jim will correct me if this isn't right, but
19 this is sort of a simpler example to your question,
20 what might be in that report. Well, say there's an
21 incident -- a circumstance where a number of workers
22 were around a pile of -- a pile, a swamp or whatever
23 of radioactive materials, no one's certain what
24 those radioactive materials were and in what
25 quantities and so on, and that's all the

1 information. There's no dosimetry information, no
2 personal dosimetry information, there's no area
3 dosimetry information. I mean that may be a
4 circumstance where again you say we don't have the
5 wherewithal to estimate doses there because all we
6 have is some possibilities for what sort of
7 radioactive materials were in that swamp, and we
8 don't know their quantities, either. I mean that's
9 just another example, maybe simpler.

10 **DR. ZIEMER:** Jim?

11 **DR. MELIUS:** Two comments, one to one of
12 Ted's earlier comments. I mean I don't think just
13 because a person can apply for it doesn't mean there
14 isn't some burden to let them know what they're
15 applying for or what -- how they qualify. I can
16 apply for Social Security disability. I don't -- or
17 VA disability. I don't think I make it on a lots of
18 grounds, but it doesn't stop me from applying for
19 it. Fortunately there are guidelines on the
20 application that sort of tell me whether I qualify,
21 what's my military history, so -- I mean I think you
22 have to provide some guidance out there.

23 The other corollary of this is -- the other
24 part of when we're looking at this is that are the
25 doses that you are reconstructing being done with

1 sufficient accuracy? I mean because when you say
2 you can't do the dose reconstruction, well, are you
3 -- which side are you erring on, so to speak? Are
4 you erring on the side of doing a bad dose
5 reconstruction, not sufficient accuracy? Or are you
6 erring on the side of saying you can do a dose
7 reconstruction, even -- you can't do a dose
8 reconstruction and therefore a person's qual-- I
9 mean it cuts both ways, and without some sort of
10 guidance at that lower level, that level where you
11 can't do it or you can't achieve sufficient
12 accuracy, I think -- to me it's just very
13 problematic. I think, Jim, you're articulating it
14 better than you have when I've asked this question
15 before 'cause I think there's more experience and
16 that we've talked about it some more and so forth,
17 but I really think that needs to get into a set of
18 guidelines or something for us as a committee, for
19 you as a program, to be able to do this with some
20 kind of consistency and for people on the outside to
21 be able to understand the process. And I agree it's
22 not easy and it's going to take some time and
23 effort, and it's not like you don't have other
24 things to do, but in the long term it seems to me it
25 would really be very -- very helpful and I think

1 it's necessary.

2 **DR. ZIEMER:** Incidentally, on this accuracy
3 issue now, the way the thing is being bounded, it's
4 not an accurate process. By favoring the client by
5 assuming worst-case, you are actually being more
6 inaccurate but more favorable to the claimant.
7 Accuracy does not necessarily help the claimant. I
8 mean if you -- if you tried to pin everything down
9 -- I mean the cases we looked at, for example, the
10 low/low case, they gave every benefit of the highest
11 possible exposure, not -- I would say it was
12 probably very inaccurate, because accuracy has to do
13 with how close you are to the real number. All of
14 these were over-estimates. You know, you say what's
15 the highest possible dose the person could possibly
16 have gotten under these circumstances, so accuracy
17 doesn't necessarily help the client. So I'm not
18 sure that that's what's being looked for on some of
19 these cases. That's just a comment.

20 Jim Neton.

21 **DR. NETON:** I was just going to -- you spoke
22 to the issue I was going to bring up, which is these
23 are not accurate. As Mike Schaeffer pointed out
24 from DTRA yesterday, they're not epidemiologic
25 studies. They're -- the idea is to over-estimate

1 the dose, to quickly process it and if it still
2 accurately falls on the correct side. I mean this
3 is not mathematical accuracy. This is compensation
4 decision accuracy that I think that we're speaking
5 to here. And if we can over-estimate someone's dose
6 by an order of magnitude or just be extremely
7 generous and the probability of causation falls at
8 15 percent, then we've made an accurate dose
9 reconstruction. We've accurately determined that
10 that person falls on one side or the other. We
11 haven't determined, we've actually decided that the
12 dose is not going to be high enough to get over the
13 bar.

14 So it may be instructive to go over a few
15 dose reconstructions generically with the Board at
16 some point to demonstrate that process. I know the
17 working group has looked at them and has a sense
18 now, but maybe in a future meeting we could do a few
19 de-identified, very generic cases that would maybe
20 shed some light on this issue.

21 **DR. ZIEMER:** Let me point out that in 83.9,
22 as a starting point, the criteria for the Special
23 Exposure Cohort -- there's two criteria, starting
24 point, insufficient records and insufficient
25 information leading to inability to do a dose

1 reconstruction.

2 Now in a practical sense -- and I'm just
3 trying to now push the envelope a little bit -- it
4 seems to me, Jim, that you're saying all right, what
5 about the claimant, what do we tell him when -- if
6 he's applying. Question one, do you have reason to
7 believe that your dosimetry records are incomplete
8 or insufficient -- or something like that. You're
9 saying what are the series of questions you would
10 ask that would serve as the parameters for somebody
11 to even know whether they're in such a cohort.

12 DR. MELIUS: Correct.

13 DR. ZIEMER: What kind of questions would
14 you ask?

15 DR. MELIUS: Uh-huh.

16 DR. ZIEMER: Is -- I mean just as a starting
17 point.

18 DR. MELIUS: Correct, and how do you -- is
19 defining insufficient and incomplete.

20 DR. ZIEMER: And what does that mean? What
21 is -- incomplete, does that mean a film badge is
22 missing? Not necessarily.

23 DR. MELIUS: Right.

24 DR. ZIEMER: Okay. Wanda --

25 DR. MELIUS: Could we just go back to --

1 'cause I think Jim Neton just sort of -- has been
2 talking about what is sufficient accuracy for this
3 process, and I think you articulate that well. But
4 sort of going back to the opposite and what is
5 insufficient, it's such that you cannot do the dose
6 reconstruction for a group that they qualify as a
7 Special Exposure Cohort. And I think that's what we
8 have to wrestle with, when you reject that
9 individual because there's insufficient or
10 incomplete records or insufficient information like
11 that. I think that's the crux of it and it's
12 getting some explanation now. And it's not just for
13 the claimant. I think it's for the program to have
14 some consistency and for us to be able to review
15 that program. I mean we're going to be taking a
16 sample. We're not going to review every one, so
17 looking at that consistency is by what rules you --
18 guidelines you follow in doing this on that.

19 **DR. ZIEMER:** Okay. Wanda.

20 **MS. MUNN:** It sounds as though the question
21 is how do you prove a negative. If anyone here
22 knows how to prove a negative, I would like them to
23 step forward now because it's a question that's
24 bothered me for a long, long time, and I suspect
25 most of the rest of us.

1 When someone says that's all there is, there
2 ain't no mo', how can I prove that there ain't no
3 mo'? And I don't believe I can do that. I don't
4 believe that I can contrive language that would make
5 it appear that I'm doing that. It is, I think,
6 incumbent upon us to try to see that the language is
7 as reasonable as it can be. And this current
8 language appears to be quite reasonable, unless you
9 can somehow prove a negative.

10 If there are ways that we can define what
11 constitutes the arrival at that negative point, then
12 perhaps we can belabor this until we identify what
13 that language is. I personally don't see that
14 there's language that will suffice to do that. When
15 we no longer, when the Agency no longer, when the
16 individual can no longer provide further
17 information, then that's all there is. So what
18 language do we put into a rule-making that says when
19 we've found everything that we can find, we can't
20 find any more?

21 I guess I am at a loss to know how we can be
22 more flexible, because really you do have to be
23 flexible for each and every case. The amount of
24 information that you're going to get is, in my
25 experience, never perfect. We will have to work

1 with imperfect information. The decision's already
2 been made. We will make every effort to see that
3 the imperfection lies in the benefit of the
4 claimant. I see no further step that we can take
5 unless someone has magic language.

6 **DR. ZIEMER:** Thank you. Other comments?
7 Wanda, let me just ask you. The question then, as I
8 understand what you're saying, you actually then
9 feel that the language that's in here now is
10 sufficient to provide what is needed for both the
11 petitioning process or is it just this issue of the
12 guideline part -- that more detailed guidelines are
13 not necessary, as you see it?

14 **MS. MUNN:** I do not believe that we can
15 structure language which will provide adequate
16 guidelines without unduly burdening the Agency and
17 the petitioner to the point where we're asking for
18 the impossible.

19 **DR. ZIEMER:** Other comments? Mark.

20 **MR. GRIFFON:** Yeah, I guess the other area
21 -- and we're going to come up to this in one of the
22 other comments, also, but the other area where sort
23 of Jim's comment on insufficient butts up on this
24 process, and a concern that I would have from the
25 claimant's standpoint is you pull all the strings,

1 as Jim said. You do the most conservative possible
2 estimate process for the dose reconstruction, and
3 you determine that you can't do a dose
4 reconstruction. And then -- but then the Agency is
5 still able to do or calculate for that class a -- or
6 for that potential class a potential dose to compare
7 it to -- compare to the level of endangerment. And
8 I think that is also going to be a -- that's why I'm
9 trying to look for that line of where -- a point
10 where you say you don't have data -- you've looked
11 at everything and tried everything and you just
12 don't have data to do an individual dose
13 reconstruction, and yet you turn around and you can
14 still do a class --

15 DR. ZIEMER: Which implies that you do know
16 --

17 MR. GRIFFON: Huh?

18 DR. ZIEMER: Which implies that you do know
19 enough to make that --

20 MR. GRIFFON: Right.

21 DR. ZIEMER: -- determination.

22 MR. GRIFFON: Right. And -- well, that's
23 the question. And I know that they're
24 distinguishing that by saying the class would be a
25 potential sort of a worst-case dose, but it still --

1 you know, I guess that line's not anywhere described
2 or there's no guidelines on how -- where that line
3 is, even. And I guess that's what we're wrestling
4 with.

5 **MR. KATZ:** Dr. Ziemer, can I -- can I just
6 explain that a little further? 'Cause this is a
7 concept that's gotten misunderstood a couple of
8 times now, but that was closer to it there. So
9 we're -- I mean the first thing we're doing is
10 coming up with that benchmark, what dose would be
11 health endangerment. The only question then that's
12 put to the health physicist, the technical staff at
13 that point is could radiation doses have reached
14 that level or higher? They're not estimating what
15 those radiation doses were, just asking the question
16 could they have reached or exceeded that benchmark.
17 And that is, I think, an exceedingly lower sort of
18 burden in terms of what they have to do --

19 **MR. GRIFFON:** Than being able to --

20 **MR. KATZ:** Than being able to estimate --

21 **MR. GRIFFON:** -- complete the dose
22 reconstruction. Than being able to complete a dose
23 reconstruction --

24 **MR. KATZ:** Right --

25 **MR. GRIFFON:** -- that's how your defining

1 sufficient accuracy.

2 **MR. KATZ:** -- than being able to actually
3 estimate what that dose was to those individuals. I
4 mean there they can then draw on experience as --
5 throughout the DOE program as to what sort of doses
6 can be associated with what little they know about
7 the radiation source term in those instances, they
8 can draw on all that experience to make a judgment
9 as to whether doses could rise to that level. And
10 just to make a -- and you know, analogies are always
11 a little bit ham-fisted, but just to make an
12 analogy, I mean if we're going to talk about the
13 weather for a second here, and if we have the
14 meteorologic records on a century of the weather,
15 but in 1945 those were wiped out throughout the
16 country, we have no records on the weather in 1945,
17 say, you could reasonably have all that other data
18 for 1945 for Atlanta in December, you could make a
19 judgment as to whether it could have been 65 degrees
20 in December or on a day in December, whether it
21 could have been that high or higher. That wouldn't
22 be estimating -- making a judgment that the weather
23 was 65 degrees in December, which is what you're
24 doing when you're doing a dose reconstruction.
25 You're making a judgment as to what the dose

1 actually was. You're just saying could it have
2 reached that level, and that's what the hump those
3 assessors are doing and I think the -- there's a
4 whole lot of information in this world about what
5 sort of doses are associated with source term and so
6 on, and to be able to make those rough judgments is
7 well within their ability.

8 Then once they make that judgment, just to
9 remind you, that judgment then comes before the
10 Board and is open to public scrutiny. And if anyone
11 else in the world can say then well, you know, I
12 know of an instance somewhere where dose
13 approximated that level associated with this sort of
14 circumstance or whatever, that gets brought into the
15 equation then. So it doesn't stop with our
16 technical staff making that judgment, although
17 they'll have a lot of information to draw on there.
18 But it goes on to the public and others. So I just
19 thought it'd be helpful to sort of clarify that for
20 you because it has a bearing on this.

21 **DR. ZIEMER:** Is everybody clear on what the
22 differential here? Yeah, Jim.

23 **DR. NETON:** I just have one more thing, and
24 maybe there's another way to look at this. I've
25 heard some -- Mark say a little earlier about we're

1 going to come up with this incremental dose, even
2 though we say we can't estimate it. And one way to
3 look at this is the way it's specified, is we're
4 really trying to determine is the probability of
5 causation able to get to 50 percent or greater,
6 given that circumstance. We take that -- we could
7 actually run IREP, for example, and determine --
8 it's an extra three rem of dose given that would be
9 required in that cohort to exceed the 50 percent.
10 All it would require NIOSH to do is to say is that
11 plausible, given where the person was working, that
12 cohort was working, that there was a potential for
13 that additional three rem of exposure. We don't
14 know what it was. All we're saying is is it even
15 possible.

16 **MR. GRIFFON:** I'm not sure I understand what
17 you mean by an additional three rem of exposure.

18 **DR. NETON:** Well, or -- let's say we did --
19 we pulled the thread, as we said, and we looked at
20 every possible avenue except the internal side. And
21 the probability of causation for that dose
22 reconstruction arrived at 25 percent, given the
23 partial information that we had. We could actually
24 back-run IREP and say what -- how much more dose is
25 that person going to need to get over 50 percent,

1 and given the exposure scenario and circumstances
2 surrounding that cohort, is it plausible at all that
3 that exposure could have -- that exposure
4 environment could have existed? I mean it's sort of
5 a different way of looking at it, but we're not
6 actually calculating a dose. We're trying to
7 estimate what -- was there sufficient dose in that
8 environment to endanger health.

9 **MR. GRIFFON:** But I guess you go back to the
10 concern of if you didn't have sufficient information
11 up front to do the dose estimate, then I guess the
12 concern from the potential claimant's standpoint
13 might be how can I be sure that they, even in the --
14 even in their worst-case scenario, sort of in trying
15 to estimate whether there's enough dose there to
16 push me over, whether they have the information --
17 enough information to even -- for example, you know,
18 what if you assume that -- you know, based on all
19 the process records you have, all the site profile
20 information you have on a certain facility, they
21 always handled the depleted uranium and actually the
22 truth was that they had recycled uranium with hefty
23 levels of transuranics that were accumulating in
24 certain processes where some of these individuals
25 were working, even on your worst-case scenarios

1 you're going to miss the boat drastically for your
2 internal dose estimates if you only assumed uranium
3 as opposed to neptunium, plutonium, other potential
4 exposures --

5 **DR. NETON:** That's correct.

6 **MR. GRIFFON:** So the question is, you know
7 -- I guess the question is, you know, how do you --
8 you know.

9 **DR. NETON:** That's a different issue, I
10 think. I mean you're assuming we've done a bad job
11 doing our homework there at that point, we've made a
12 mistake. We have not identified all the possible
13 source terms. I mean I think we have to start
14 saying, with the SEC, that we've identified all
15 possible source terms. I'm not saying we always
16 will, but that's our job. And given that, is that
17 transuranic contamination that was unmonitored
18 sufficient to move that over into --

19 **MR. GRIFFON:** But I guess the premise for
20 petitioners is that you don't have information. You
21 know, that's one of the basic premises is that --
22 you know, for this group, this class, they already
23 went over that hurdle where you couldn't reconstruct
24 individual doses, so you already know you're looking
25 at a class that you're lacking information on.

1 **DR. NETON:** Right, but hopefully by that
2 point, though, we would know the potential source
3 terms that were in the environment that were not
4 monitored. I mean that's part of the dose
5 reconstruction. It's like go out and identify all
6 those source terms and then make the decision -- you
7 know, a missing neutron dose is a good example of
8 that, as well. I mean did they monitor neutrons
9 properly? No. Okay, can we go back and reconstruct
10 this neutron dose properly? If not, was there
11 sufficient neutron exposure in this reactor
12 environment to put that population over 50 percent?
13 And we're not saying every claimant in that
14 population was over, but it's not possible to assign
15 a dose to any individual, so they would just all be
16 over automatically.

17 **MR. GRIFFON:** Yeah, I guess I understand
18 what you're saying.

19 **DR. ZIEMER:** Actually as you discuss it, you
20 realize that the staff in fact has a scheme, and I
21 think, Jim, you're saying that the scheme doesn't
22 show up here.

23 **DR. MELIUS:** Scheme doesn't show up here,
24 and I think the scheme has been articulated well for
25 this issue of when there's not sufficient

1 information or the records are incomplete. I think
2 it's a different -- maybe it's done by a series of
3 scenarios or whatever as to how those will be
4 handled. I think they're articulating it better
5 than when I've asked the same question at earlier
6 meetings, and better -- as well as I think they've
7 given some thought to this issue with the
8 endangerment criteria. And again, the endangerment
9 determination is going to come to us for review, so
10 there's a peer review system or a outside advisory
11 review system built into that process. On these
12 individual determinations, there's not. We have a
13 sampling that's going on and I think that's where --
14 you know, with thousands of claims, we need some
15 sort of -- a set of guidance for how you're going to
16 handle those. And I think it can be done. I
17 disagree with Wanda. I don't think we're trying to
18 prove a negative, we're just trying to determine --
19 have some guidelines on how we will put things into
20 different categories, given the basis of the
21 information that we have, or don't have. And I
22 think that ought to be written out in some way.

23 **DR. ZIEMER:** And somehow in the rule-making
24 I think, taking both of those into consideration,
25 one would not want the rule-making to be so

1 proscriptive that you lose the flexibility and
2 therefore cut out some folks in the process. So
3 somewhere between no guidelines and minimal -- or
4 very proscriptive, there's a point where the
5 guidelines perhaps are such that everybody sort of
6 understands how things are going to proceed, but
7 there's sufficient flexibility to handle those
8 things that you didn't think about in advance.

9 **DR. MELIUS:** In my -- what I wrote up here,
10 I recommended they go out for further rule-making on
11 this 'cause I think it needs some public comment if
12 it's something that -- I mean an alternative is to
13 change -- clarify some of the language in here so
14 it's better understood. And then develop an
15 internal guidance document that comes back to the
16 committee for review and discussion and that would
17 be sort of the operational guidance for what they're
18 doing that, which is how we've done this in other --
19 some of the other situations, dose reconstruction
20 rule. Really the IREP is mostly in the background.
21 It's not in the regulation other than its use, and
22 so that may be another way of handling this
23 situation. But I just -- I feel very strongly it
24 needs to be in writing and it needs to be something
25 that's gotten some input.

1 **DR. ZIEMER:** Well, as I've looked at 83.9 --
2 section 83.9, it appears to me that, at least
3 conceptually, a lot of the information is there. It
4 may need to be articulated in a somewhat different
5 structure so that it takes the form of what might be
6 more appropriately labeled as guidelines that would
7 help both the petitioner and maybe even the Board
8 understand the process. I have a feeling that part
9 of this has to do with the clarity with which we
10 think this is spelling out to people exactly what
11 the rules are on this.

12 **DR. MELIUS:** Correct, and then how will the
13 decisions be made? As I said, talking about
14 thousands of claims, so it's not -- we're not going
15 to be -- individually discuss these or -- and so I
16 don't think the instances are going to be so rare
17 that a case-by-case approach is going to be
18 adequate.

19 **DR. ZIEMER:** Shall we go ahead and look at
20 your number three?

21 **DR. MELIUS:** Number three we've really
22 discussed already and --

23 **DR. ZIEMER:** Yeah, it's --

24 **DR. MELIUS:** I'm going to move to number
25 four and five together and just -- let me do five

1 first 'cause then I think it backs into number four.

2 This was written before Larry updated us
3 yesterday and DOE, but I mean it's clearly critical
4 to this process that there be complete records made
5 available, and particularly this issue of making a
6 determination that there's not sufficient
7 information available. And so access to the records
8 and complete records are going to be really I think
9 very necessary because if not, then it's going to be
10 a very chaotic process if a set of records suddenly
11 shows up three years later or whatever or delayed
12 for whatever reason, and we've already determined a
13 Special Exposure Cohort based on those records not
14 -- thinking those records weren't available. I mean
15 it's -- I don't know what the -- what exactly we'd
16 do in that case. And I really think we need to go
17 on record as a Board stating that this is critical
18 and that this MOU with DOE has to be in place. I
19 mean it's been a long time and I understand how hard
20 it is. I don't want to put Larry on the spot with
21 this. But I think we really need to say -- we've
22 talked about it at other meetings, but I think we
23 need to go on record with these -- with our comments
24 on these rules that it's critical that this MOU be
25 in place for this process to be workable.

1 **DR. ZIEMER:** I suspect in this case that
2 such a comment perhaps would be apart from the
3 comments on the rule-making, could be a separate
4 comment of some sort to encourage the completion of
5 the MOU, or at least to identify to the Secretary
6 that the Board feels that MOU is a very important
7 step that needs to come to completion. We recognize
8 that -- at least from the NIOSH side -- they are
9 working very hard for this to be brought about, and
10 I don't think any of us thinks that the problem is
11 on the NIOSH side in coming to completion on this
12 thing. And we also -- I think there's some level of
13 angst amongst us as to, even with the MOU, will all
14 the records needed appear. And that's something
15 that we'll have to work with very diligently.

16 One thing that perhaps is -- that sort of
17 helps is as records are obtained, we see
18 inconsistencies, that tells you that something's
19 missing. So there will be opportunity to begin to
20 compare records from groups and so on to see whether
21 there is a consistent picture. There's been hints
22 and -- maybe not just hints, allegations of adjusted
23 records. But you know, you can't do that completely
24 and have it go undetected. It's like juggling the
25 books. You know, the threads go out and at some

1 point things don't match up and the bottom lines
2 don't balance. So some of that could come to light,
3 we just have to be diligent.

4 But the MOU is the starting point and
5 certainly worth emphasizing the need for closure on
6 that.

7 **DR. MELIUS:** Possibly in the cover letter
8 with the comments, I don't know, or a separate
9 letter.

10 But comment number four is -- may be
11 premature, but I'm concerned about how long this
12 process is taking and could take. And it may be
13 that the rate-limiting step is going to be getting
14 the records, and not knowing what's in the MOU is --
15 and how they've worked out time frames is difficult.
16 But there ought to be some consideration to how do
17 you do a time -- when do you -- when is it no --
18 when have you waited too long or is it taking too
19 long to complete this process, because then it
20 becomes I think very unfair to the claimants if this
21 process drags on for years and years with that. And
22 there ought to be some time frame involved -- and
23 maybe this is tied in to the guidelines on
24 determining when the information isn't available.
25 If you're just not going to be able to do this and

1 complete this in a timely fashion, then I think
2 there needs to be some determination made that this
3 is complete and that the -- I think the claimant
4 ought to be awarded if there's going to be
5 inordinate delays in completing the process, doing
6 that. And yeah, there are resource issues involved
7 and so forth, but unless sort of a time line is --
8 frame and expectations developed in terms of how
9 quickly claims can be going through this process,
10 then I think it's going to become more and more
11 problematic. And so we ought to be starting to pay
12 attention to the time frame. I mean Larry has to
13 get this contract awarded and get geared up. It may
14 not be appropriate now, given this initial surge of
15 requests and so forth, but there ought to be some
16 expectation out there for -- that people will go
17 through this process in a reasonable length of time
18 on the NIOSH end and that we as a committee ought to
19 be monitoring that in some way.

20 **MS. MUNN:** This issue of the MOU is of such
21 magnitude, and I think should not be mixed in with
22 our comments on the specific rule-making. In any
23 case, the implementation of that MOU would fall into
24 different hands than the individuals who would be
25 working with the rule-making. I'd like to suggest

1 that we move forward with all due haste to prepare a
2 letter suggesting that this Board urge the
3 Department of Energy to work diligently at preparing
4 and negotiating an MOU with our agencies to make
5 that exchange of information possible quickly.

6 **DR. ZIEMER:** Wanda, I don't know if you were
7 just making that as a comment or a formal motion,
8 but --

9 **MS. MUNN:** I was making it as a motion.

10 **DR. ZIEMER:** Okay, a motion that the
11 transmittal to the Secretary this time include a
12 statement urging completion of the MOU as soon as
13 possible.

14 **MS. MUNN:** A separate letter.

15 **DR. ZIEMER:** A separate letter. Okay, the
16 motion is that there be a separate letter, separate
17 from the comments -- or separate from the cover
18 letter with the comments.

19 **MS. MUNN:** Right.

20 **DR. ZIEMER:** And that's a formal motion. Is
21 there a second?

22 **DR. DEHART:** I second.

23 **DR. ZIEMER:** Second. Discussion? Tony.

24 **DR. ANDRADE:** Paul, I would like to propose
25 that that letter indeed -- first of all, I'd like to

1 say that I wholeheartedly support that motion.
2 However, I would also like to suggest that some of
3 the words that Jim has used here, including those
4 that allude to the timely availability of complete
5 exposure records, should become part of what we are
6 urging the Secretary to do. I think that is -- I
7 think that is all-important. That forms really the
8 crux of what we want and what is needed from that
9 MOU.

10 **DR. ZIEMER:** The sentence that the MOU must
11 provide an adequate assurance that complete records
12 will be made available in a timely fashion. Is that
13 the phrase you're --

14 **DR. ANDRADE:** That's correct.

15 **DR. ZIEMER:** And Wanda, do I understand your
16 motion to include that?

17 **MS. MUNN:** Correct.

18 **DR. ZIEMER:** Yes. I knew she included that.
19 Yes, Roy.

20 **DR. DEHART:** I simply would ask NIOSH if
21 such a letter is -- would be deemed helpful, 'cause
22 sometimes there are political ramifications of this
23 sort.

24 **MR. ELLIOTT:** I appreciate that question,
25 and I do believe that in this instance it would be

1 well-received by the Secretary as to what this
2 Board's concerns are in this regard and kind of what
3 your thoughts are about timely submission of
4 information to us to help process the claim.

5 **DR. DEHART:** Okay.

6 **DR. ZIEMER:** Further discussion?

7 **MR. PRESLEY:** Bob Presley.

8 **DR. ZIEMER:** Bob?

9 **MR. PRESLEY:** Would that specify DOE as one
10 of the -- or --

11 **DR. ZIEMER:** This would specifically speak
12 to the MOU between NIOSH and DOE.

13 **MR. PRESLEY:** You might look into NNSA then
14 because a lot of your records or stuff's going to
15 have to come from NNSA.

16 **DR. ZIEMER:** But is not -- the DOE is the
17 agency mandated under the law here to make the
18 records available, I think even from their
19 contractors. Maybe Larry, you can clarify that.

20 **MR. ELLIOTT:** You're both right.

21 **DR. ZIEMER:** Is there going to be an MOU --

22 **MR. ELLIOTT:** No, there's only going to be
23 one MOU between the Department of Health and Human
24 Services and the Department of Energy. But when it
25 comes to classified information, the NNSA has some

1 purview. And the -- I can -- I'm not speaking out
2 of school. The current draft that we have fronted
3 speaks to that and includes NNSA. And at this point
4 in this juncture, the DOE has in fact agreed to that
5 and offered some additional language to that
6 particular section that would -- that NNSA has to
7 buy into and support 'cause they'll have a
8 commitment under the MOU. So if that actually goes
9 forward and goes through to signature, that will be
10 existent in the document.

11 **DR. ZIEMER:** Further discussion? Mark.

12 **MR. GRIFFON:** Yeah, just along those lines,
13 I think we might consider also asking a timely
14 release of DOE records, but also the atomic weapons
15 facility records. I'm not sure if that would be
16 useful in this letter to actually -- because I know
17 that's been a problem currently getting that --

18 **DR. ZIEMER:** Are you talking about the
19 contractors?

20 **MR. GRIFFON:** Well, the MOU with DOE -- DOE
21 to provide some of those atomic weapons facility
22 records, as well -- the timely release of those
23 records.

24 **MR. ELLIOTT:** Well, they're -- that's
25 covered. That's covered. DOE's umbrella

1 responsibility covers not only the DOE-recognized
2 weapons complex sites, but also those older AEC, AWE
3 contractors. And whatever they can do to afford us
4 entree and access and provision of information from
5 AWE's, that has to be covered in this agreement.

6 **MR. GRIFFON:** I just got the impression that
7 that was a particular issue in terms of what the
8 role of DOE was as opposed to the role of NIOSH, you
9 know, and I think that we might strongly recommend
10 that DOE take on that task of getting those records
11 and getting them to you. That's all I was...

12 **MR. ELLIOTT:** Certainly would welcome that
13 assistance, yes.

14 **DR. ZIEMER:** Other comments? Before we
15 vote, if this motion passes, I'd like to ask which
16 two of you will volunteer to draft the language of
17 the -- this will be just one paragraph to be
18 inserted in a separate letter. Wanda, do you want
19 to work on --

20 **MS. MUNN:** Oh, sure, I'd love to do that.

21 (Laughter)

22 **DR. ZIEMER:** Well --

23 **MS. MUNN:** That's fine, yeah.

24 **DR. ZIEMER:** Wanda, who made the motion --
25 and who seconded that motion?

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(Laughter)

DR. ZIEMER: I don't want to penalize people for making motions. Actually, maybe Jim, you would be willing to work with Wanda to -- I think you can incorporate some of Jim's words, and it's just a few sentences.

MS. MUNN: Yes. Yes, it's brief.

DR. ZIEMER: And touch base with staff to make sure we've covered the bases.

MR. ELLIOTT: And we would gladly help you as much as we possibly can, without crossing the line. But I would suggest that you refer to the Act, and there's some specific language that you might want to incorporate to augment your argument.

DR. ZIEMER: Okay. Are we ready to vote on the motion? Okay, all those who favor the motion, say aye.

(Positive responses)

DR. ZIEMER: All those opposed, say no.

(No responses.)

DR. ZIEMER: Motion carries with -- any abstentions?

(No responses.)

DR. ZIEMER: No abstentions. Okay, thank you. So that takes care of that one.

1 Okay. Now Jim, I think we've completed the
2 discussion on your items. I want to move to Mark's
3 items. Mark, if you would lead us through your
4 items.

5 **MR. GRIFFON:** Well, we've discussed number
6 one, so I think we can just skip that. And I would
7 recommend maybe just talking about number three
8 first and then maybe -- maybe I would call on Ted to
9 answer number two for the entire Board. We
10 discussed this at breakfast, so he can answer pretty
11 much every question. I think it would be useful for
12 the Board to hear his response.

13 First -- number three is the definition of
14 endangered health, and I guess the -- you know, this
15 does tie in to what we were -- a little bit what we
16 were just discussing. I guess I feel more
17 comfortable on the sufficient accuracy definition if
18 the endangered health definition were more like the
19 original SEC. In other words, it was based on
20 duration of employment of a class within a certain
21 area along with monitored or should-have-been
22 monitored -- and the reason I say that is just the
23 discussion we're having back and forth with Jim
24 Neton, you know, that -- I wasn't suggesting that
25 NIOSH wouldn't have done their homework so much as

1 that if they had done their homework and had all the
2 source term information and a number of these
3 factors, even in the absence of personal records,
4 TLD's or urinalysis, it seems to me they may be able
5 to -- with the conservative assumptions that they've
6 talked about -- make an estimate of individual
7 doses. And you know, so the question is if you
8 can't -- you know, if you've exhausted -- as Jim
9 says, pulled every string and you reach a point
10 where you say we cannot, for this class, define with
11 sufficient accuracy their doses, their individual
12 doses, I think that that next step to some I think
13 is going to -- and even -- you know, I'm wrestling
14 with it and I think -- I agree with Jim Melius that
15 the explanations are clearer and the logic is
16 clearer, but I'm still wrestling with this -- you
17 know, it's a little bit counter-intuitive, but --
18 you know, even though you didn't -- you exhausted
19 everything and you couldn't determine individual
20 doses, but then you're going to come up with a
21 number -- or -- well, back-calculate a number from
22 IREP, a ceiling at which -- you know, and they try
23 to see if there's any way they could have reached
24 that ceiling, so to speak. And that's where I get a
25 little concerned because if you've exhausted -- if

1 you've pulled all the strings and have all the data,
2 I wonder where that line is between there when --
3 you know, that you couldn't do the individual dose
4 reconstructions but you have enough to kind of
5 generate a number, a worst-case number to get this
6 sort of quantitative measure of health endangerment.
7 And I wonder if it would just be more useful to go
8 back to a more qualitative measure of health
9 endangerment, and that's the issue, so...

10 **DR. ZIEMER:** Okay. I think it's very easy
11 to articulate scenarios where you could have this
12 situation. Let me give you one. I've got a group
13 of workers who work with 15 microcuries of carbon
14 14. They are not badged, 'cause you're not going to
15 be able to pick up the C-14 beta on a badge. They
16 are not bioassayed because they don't reach the
17 threshold for which it's required. So if you come
18 back ten years from now or 20 or 30, you will find
19 no records of dose for any of these individuals.
20 You could not do a dose reconstruction. There's no
21 information, except that they worked with 50
22 microcuries of carbon. So what would you do as a
23 worst-case scenario?

24 You'd say well, okay, let's suppose they
25 somehow had their beaker filled with their carbon

1 labeled something-or-other and they drank it and
2 ingested the full amount, and you'd calculate a --
3 an internal dose and come up with a number. Say
4 okay -- and it's below some value. That's really
5 worst case. Now --

6 **MR. GRIFFON:** Well, let me -- this is great
7 example, 'cause let me ask Jim Neton, in that
8 situation do you think there's sufficient
9 information to estimate individual doses with
10 sufficient accuracy? Can you complete a dose
11 reconstruction?

12 **DR. NETON:** You've got to go back to the
13 efficiency process.

14 **DR. ZIEMER:** Upper limit.

15 **DR. NETON:** We could upper limit that and
16 say the highest dose in that entire population was
17 -- let's pick a number, 500 millirem, and therefore
18 you're done. I mean the efficiency process --

19 **DR. ZIEMER:** You assume everyone did that,
20 which they couldn't because they couldn't all
21 consume --

22 **DR. NETON:** Right.

23 **MR. GRIFFON:** But those are individual dose
24 reconstructions.

25 **DR. NETON:** But that is.

1 **MR. GRIFFON:** So you could do it, huh?

2 **DR. ZIEMER:** I don't know if that is.

3 **DR. NETON:** That would -- I would call that
4 a dose reconstruction under the efficiency process
5 that we applied --

6 **MR. GRIFFON:** People weren't required to be
7 badged --

8 **DR. NETON:** -- in the worst-case scenario --

9 **MR. GRIFFON:** -- so if it was worst-case,
10 they didn't trigger it.

11 **DR. ZIEMER:** Is that a dose reconstruction?

12 **DR. NETON:** Yes, that would be a completed
13 dose reconstruction.

14 **DR. ZIEMER:** All right.

15 **MS. MURRAY:** Overlapping conversations, he
16 can't take it.

17 **DR. NETON:** Maybe we could take that one
18 step further, though, and it was five curies of
19 carbon 14. There were 100 workers in the lab. We
20 have no idea which worker did what in that
21 laboratory and they all had access to the carbon 14.
22 And a dose reconstruction -- a quick and dirty
23 calculation would indicate that yes, it's possible
24 that one person could have gotten sufficient dose to
25 -- got a POC greater than 50 percent. A dose

1 reconstruction is not possible at that point. We
2 don't know which worker was there, but yet there was
3 sufficient magnitude of dose in that laboratory to
4 have possibly endangered the health of that cohort.
5 That, by definition, then would be -- a dose
6 reconstruction can't be done. We don't know, and
7 it's endangered their health, possibly. Not
8 necessarily every worker. Maybe one out of 100, but
9 we have no idea of -- we have no ability to assign
10 any individual dose to any of those people.

11 **MR. GRIFFON:** Yeah, it's difficult to play
12 these what-ifs on the fly, but I mean I would also
13 -- you know, you might think of -- with a more hot
14 lab like that, you might question -- you might have
15 badged workers, to so -- these are what-ifs, but
16 anyway --

17 **DR. ZIEMER:** Right, or you might have
18 bioassays.

19 **MR. GRIFFON:** Right, right.

20 **DR. NETON:** Yeah, maybe that's not a great
21 example, but let's go back in the DOE environment
22 where we've had workers who have been exposed to
23 large quantities of gamma out in the field that were
24 contractors that we're aware of in some of our cases
25 that were never badged. In fact, they were never

1 even registered as having been at the site, although
2 they certainly, by affidavit and what-not, have been
3 demonstrated to have been there. So similar
4 circumstances, you have curies of radioactive
5 material. A person is in that environment working
6 there for four or five years. In that situation
7 there's certainly potential, and we know they're not
8 badged. We have examples of this already.

9 **MR. GRIFFON:** I guess for this I just turn
10 back to the intent of the statute and I -- I do --
11 you know, I get the impression that a lot of these
12 dose reconstructions are going to be completable,
13 you know.

14 **DR. NETON:** I think so.

15 **MR. GRIFFON:** So --

16 **DR. NETON:** I felt that from the beginning.

17 **MR. GRIFFON:** So given that, I guess, you
18 know, the intent -- going back to the intent of the
19 statute, you know, that -- there's sort of an
20 admission that we don't have the data to reconstruct
21 your dose, a certain claimant's dose or a certain
22 class's dose, I'm sorry. Then to go that next step
23 and try to quantify the health endangerment, I guess
24 that's where I'm a little concerned that okay, we
25 already say we don't have adequate -- this is an

1 individual program. We're trying to come up with
2 worker compensation decisions for individuals and if
3 we -- if there's an admission that the records were
4 not complete enough to allow us to an individual
5 dose reconstruction, then why not just look at it --
6 okay, let's not -- you know, I think then you're
7 taking the next step and saying we don't have enough
8 to do the individual dose reconstruction -- here's
9 where I get a little uncomfortable. We don't have
10 enough to do the individual dose reconstruction, but
11 we think that this -- somehow we're pretty sure that
12 this source term and the information about the
13 processes on the site is complete enough that we can
14 do a worst-case estimate, and that's where I lose a
15 little bit of faith, maybe, that --

16 **DR. NETON:** But also on top of that, we have
17 no idea which workers were in those situations which
18 would have received the larger exposures. You can
19 imagine 100 workers in a facility where a large
20 cesium source is not monitored, you don't know which
21 ones were sitting maybe out in the hallway,
22 somewhere else -- this is 50 years later. It's
23 just not possible to reconstruct that. So your
24 alternative is to just be extremely claimant-
25 friendly and everyone that comes through just say

1 well, you were in a situation that would potential
2 endanger your health and make -- do a dose
3 reconstruction very favorable and pass them all
4 through the process.

5 **MR. GRIFFON:** Yeah, I --

6 **DR. NETON:** I mean that's sort of the
7 equivalent of having an SEC, in my mind.

8 **MR. GRIFFON:** Well, I'm not saying it
9 shouldn't be a rigorous process to determine -- to
10 narrow -- I mean I'm not arguing for broadening the
11 class infinitely. I'm just saying that, you know,
12 the examples of -- for examples, you know, with
13 processes where you were working with recycled fuel,
14 you know, process information shows that
15 transuranics will be isolated or concentrated in
16 certain sub -- you know, certain processes, certain
17 buildings, and I think you can do a reasonable
18 effort to determine what subset of workers were in
19 those areas, and that's a work duration thing. You
20 might say anyone who worked in that process area
21 where the -- you know, that process was going on for
22 over a year and should have been monitored for this
23 stuff but was not, that is good -- you know, we
24 couldn't calculate your individual dose. That's the
25 precursor to all this is we couldn't calculate your

1 individual dose.

2 DR. NETON: Right.

3 MR. GRIFFON: And then the next thing is --

4 DR. ZIEMER: But we can get a bound then.

5 MR. GRIFFON: Right, let's make sure that --
6 you know, the check for endangerment of health would
7 be just that you worked in those processes where --
8 you know.

9 DR. NETON: Well, you're suggesting that we
10 wouldn't look at endangered health based on --

11 MR. GRIFFON: That's the --

12 DR. NETON: -- probability of causation.

13 MR. GRIFFON: That's the question, and I
14 know it's a fundamental question.

15 DR. NETON: Well, I think the Act says that
16 we have to determine if their health was endangered.
17 That's a criteria. I mean that's one of the
18 conditions that we're tasked with looking at. And
19 endangered health is the fact that there was an
20 unmonitored material -- that doesn't pass that test,
21 I don't think. Unmonitored material doesn't
22 necessarily endanger health to the definition which
23 we've adopted which is to have caused cancer as
24 likely as not.

25 MR. GRIFFON: Yeah, I don't have the Act

1 right here with me, but I'm not sure the Act
2 specifies how you would define endangered health.

3 **DR. NETON:** No, it doesn't.

4 **MR. GRIFFON:** Or interpret endangered
5 health. Right?

6 **DR. NETON:** No, but the rule does. I mean
7 we've taken that approach, endangered health --

8 **MR. GRIFFON:** Yes, the rule does now, yes.
9 But that's what I'm commenting on.

10 **DR. NETON:** If you believe in a linear, no
11 threshold hypothesis, then any atom that wasn't
12 monitored potentially endangered their health. You
13 have to have some objective criteria to quantify
14 that. I mean you just can't say because there was
15 an unmonitored small amount of material, that that
16 endangered health. There may be a one in 100,000
17 chance of endangering the health, but is that really
18 what we're tasked with doing? I don't think so.

19 **MR. GRIFFON:** I see your point.

20 **DR. MELIUS:** I think what's bothering us
21 with this is we've got this IREP model which is a
22 very elegant model for taking into account
23 uncertainty and given (inaudible) based on whatever
24 is available in terms of epidemiological and other
25 health information. And then we wed it up with this

1 situation that Mark is just describing -- I've gone
2 through some examples with him -- and we do this
3 very convoluted calculation -- leukemia and two
4 different tumor types -- somehow imply a certain
5 amount of accuracy to that process, I think more
6 accuracy than it may deserve. And you worry that it
7 would become sort of an arbitrary decision as to how
8 you would make that determination. Then how do you
9 then calculate how -- what's -- who is the cohort?
10 What's the duration of people -- you know, how -- is
11 it anybody that would have been in that laboratory
12 over that period of time or is it they have to be
13 there for 30 days, how do you make that calculation.
14 And in a situation where we've already said there's
15 insufficient data to do individual dose
16 reconstruction and -- it just seems to be a very
17 convoluted way of making this determination. I
18 think it sort of implies that there's a stronger
19 basis for the determination than we really have. I
20 think -- use Ted Katz's analogy, it's like having
21 him go outside and look at the weather one day and
22 run in to this supercomputer that then will
23 calculate what the average temperature's going to be
24 in Atlanta that day, and you're sort of making --
25 you know, you ask Ted to come up with well, is it

1 going to rain or not and Ted runs in and presses the
2 button and does all these calculations. But Ted's
3 guess is -- sort of bothers me a little bit as how
4 we're going to rely on that versus somebody else's
5 guess as to what the weather will be that day. And
6 then we do a calculation that somehow implies that
7 that's a good guess. You know, I don't know.

8 **MR. GRIFFON:** I also -- I do understand and
9 I appreciate Jim's response that -- and I don't
10 think -- you know, when I go back to the statute, I
11 certainly don't think the intent was to try to
12 include people in the Special Exposure Cohort like
13 vendors that were on the site once a week -- just an
14 example, but just a vendor coming in once a week,
15 wasn't badged, wasn't monitored, we didn't know
16 anything about his dose and -- you know, but the
17 chances are very small that he had any significant
18 exposure. That's not the intent and so I appreciate
19 your response that way, but -- you know, and I'm not
20 sure how to -- I'm not sure how to put that other
21 trigger on there, but I have a concern of just this
22 notion that you can -- that you've exhausted all
23 your possibilities for individual dose
24 reconstruction and yet you're going to try to in
25 some way quantify this endangered health aspect. So

1 I'm still wrestling with it myself, but that's --
2 that's the concern.

3 **DR. ZIEMER:** But it appears that the
4 methodology is not one like the weather case where
5 you're trying to predict the weather. It's more
6 like what's the worst possible -- what's the hottest
7 day you can have in December, and use that as the
8 upper limit. So you can say well, it's unlikely,
9 statistically, that some level which you have
10 decided is out here somewhere -- that the weather
11 will be hotter than some value in Atlanta in
12 December. So we're working way out at the extreme
13 of the prediction. Remember that these are
14 prediction models. There still is a chance for
15 error in any of these. There still is a chance that
16 someone who has a cancer caused by radiation will
17 not be compensated, but the chance is very small --
18 but not zero. Okay?

19 And I think in the way they're approaching
20 this, it says basically we're trying to find worst
21 case. We can't reconstruct dose, but we can bound
22 it in a reasonable way that is fair to anyone --
23 it's not the Coke machine guy who comes in for a
24 minute, but it's the worker who's in there. And
25 usually on these cohorts you're specifying when they

1 worked there. And some may have been there a month
2 and some may have been there a year, but they still
3 qualify if they were there when certain things were
4 there, which is set within the boundary of the
5 cohort.

6 **MR. GRIFFON:** Well -- go ahead, Jim.

7 **DR. MELIUS:** I think there's two things,
8 though, that are still a concern. One is that
9 there's going to be situations where the
10 information's going to be very weak. And that
11 initial number that Jim and his staff is going to
12 come up with is going to be -- have a very flimsy
13 basis. Not their fault. I mean good judgment and
14 everything, but just there's so little information.
15 And then we're sort of plugging that number into
16 this very fancy calculation. I mean it's --

17 And the second thing is why are we doing
18 this, given -- knowing the fact that this is going
19 to be, in many cases, a very weak number, based on
20 judgment and so forth, all -- given that. Then
21 we're doing this averaging between leukemia and some
22 other cancer. I mean it just -- that calculation --
23 the two calculations and so forth just seem to me
24 not appropriate, given the nature of the number
25 we're doing. It seems to me it implies more

1 accuracy than -- the number than is probably
2 warranted by the situation that this process is
3 meant to handle, and I just think it's sort of an
4 unnecessary step to take and tends to be arbitrary
5 and why do that. But again, we're going to -- we,
6 as a committee reviewing these -- the NIOSH report,
7 we're going to be looking at the basis for that
8 number. Now I mean that's really what we're going
9 to be looking at and providing some input to that
10 and so forth, so that may take care of this issue.
11 But it's still -- I worry about the situations where
12 there's just so little information and we're trying
13 to make that information fit into this calculation.

14 **DR. ZIEMER:** Rich.

15 **MR. ESPINOSA:** Well, I also see a
16 possibility to where there's going to be a lot of
17 information provided, but the information might not
18 be sufficient to do a dose reconstruction or
19 possibly put these members on a cohort. For
20 example, there's electricians at CMR in Los Alamos
21 pulling wire. They're pulling wire through three or
22 four different lab rooms a day to where they're
23 exposed to four or five different isotopes, but
24 they're not on a bioassay program, but they are
25 badged with the TLD that's biased to one or the

1 other.

2 **DR. ZIEMER:** Roy?

3 **DR. DEHART:** Jim, I understand your concern.
4 What is your consideration for the alternative? How
5 would you do it, other than just taking the whole
6 cohort and awarding?

7 **DR. MELIUS:** Well, you could either come up
8 with, first of all, some duration type of
9 calculations. It's not clear to me yet how they're
10 going to consider duration and exposure. And I
11 would certainly simplify this process of doing the
12 two cancers and so forth. I just don't think that
13 -- I just don't think it makes sense, given how weak
14 this data is going to be. So I would get rid of
15 that doubling -- that consideration of two different
16 types of cancers and so forth.

17 **MR. GRIFFON:** And along those lines, Roy,
18 the -- I mean I think where -- to get to this point,
19 we've also seen that you've got to go over that
20 first hurdle, that they couldn't calculate an
21 individual dose with sufficient accuracy. And I
22 think from what we've seen in -- I think they're
23 going to -- even for the low/low cases where they --
24 you know, they're going to use worst-case data,
25 worst-case estimates if they're nowhere near 50

1 percentile, they're not even going to reach that
2 next hurdle of okay, we can't -- you know, they're
3 going to give them the best, most -- you know,
4 benefit of the doubt and try to do an individual
5 calculation if they don't reach that hurdle. So I
6 think that throws away that concern of are we going
7 to be putting people in this class that really had
8 no chance of any -- I mean that would -- that's my
9 notion, anyway, is that you're going to lose those
10 in that process. You know, those that had no
11 significant chance of any significant exposure.
12 Then once you've reached that, you say okay, but for
13 -- you know, we can't define this dose. Then I
14 think -- you know, I think that step of just a
15 duration-based approach and -- you know, should have
16 been monitored or were monitored approach might be
17 adequate. That's my opinion, because I think those
18 other ones are going to fall off before you get --
19 before you meet the first set of criteria, which is
20 can you estimate with sufficient accuracy. And you
21 know, sufficient accuracy is defined is complete the
22 dose reconstruction for purposes of compensation.
23 It doesn't have to be -- as we've said before, it
24 doesn't have to be an accurate dose, it just has to
25 be accurate enough to make a determination for

1 causation. So that, I think, could get -- you know,
2 I hear the concern about well, we don't want to just
3 be adding people to this class that really had no
4 potential of any significant exposure at all. I
5 think that's part of the reluctance to go to a
6 qualitative measure for endangered health. But that
7 would be my rebuttal is that I think that's -- those
8 are going to fall off in that way.

9 **DR. ZIEMER:** Mark, where are we on your --
10 we did number three. Sufficient accuracy, we sort
11 of covered that before, and do you want to -- we
12 need to take a break.

13 **MR. GRIFFON:** We should take a break 'cause
14 number two is very complicated and maybe Ted can
15 look at number two during the break and step through
16 those responses because --

17 **DR. ZIEMER:** Yeah. Let's take our break and
18 recognize we also have to discuss the dose
19 reconstruction recommendations yet, too. Fifteen
20 minutes, folks.

21 (Whereupon, a recess was taken.)

22 **DR. ZIEMER:** We'll return to our business.
23 I have one housekeeping item, and that concerns the
24 minutes of the meeting which we approved, but I
25 pointed out that I would like you to individually

1 provide your editorial changes or -- the mis-
2 spellings or anything like that. I have a master
3 copy -- this is Cori's master copy -- and anyone who
4 has editorial changes we'd like you to mark them in
5 the master copy.

6 How many of you have such changes? Let me
7 see. Okay, I'm going to start this around with
8 Wanda. Mark yours in and then pass it on to the
9 next person, just as we go here. Just mark yours in
10 there so that they're all in that one copy. This is
11 in addition -- this does not include the actual
12 substantive changes that we made yesterday. We
13 already have those on the record, so these are just
14 the editorial changes, any grammatical or spelling
15 or whatever, that kind of thing.

16 Now let's return to Mark's document and the
17 clarification of issue regarding SEC class applying
18 for non-SEC-listed cancers. And Mark, before you
19 get into this, I want to ask a question which I
20 think is part of this and also I think relates to
21 Richard Miller's question yesterday, the question
22 about combining of the special cohort upper boundary
23 dose values with other doses. And maybe Jim, you
24 can help us answer this.

25 Under the guidelines and procedures, could a

1 person who has a period of work -- let's say they
2 were Special Exposure Cohort period -- or
3 potentially Special Exposure Cohort period, but
4 perhaps didn't meet that criteria. Let's say that
5 it was determined that their dose could have been no
6 more than let us say ten rem. And then the
7 calculations showed that it was not sufficient to
8 meet the probability of causation for that
9 situation. But in addition to that, at some other
10 location perhaps, they had monitored doses and dose
11 reconstructions could be done, and suppose it was
12 found that they had another ten at one location and
13 five at another. The question is, can they add in
14 the hypothetical dose from the period for which dose
15 reconstruction was not done, and add that as an
16 upper bound to the other doses that could be
17 reconstructed? I think that -- that's sort of the
18 nature of what Richard Miller was asking about
19 the --

20 **MR. GRIFFON:** And that's my question 2(c)
21 here is exactly that.

22 **DR. ZIEMER:** Right.

23 **MR. GRIFFON:** Yeah.

24 **MR. KATZ:** Well, actually I think 2(c)'s
25 different.

1 **MR. GRIFFON:** Is it?

2 **MR. KATZ:** But -- yeah, because that's
3 asking for the class, would the class determination
4 I think you're getting at there, can --

5 **MR. GRIFFON:** I think that's what he said.

6 **MR. KATZ:** -- dose is up.

7 **DR. ZIEMER:** But if they're in a class
8 that's been approved, they're getting compensated
9 already, so that's a moot point. Right?

10 **MR. GRIFFON:** No, potential -- go ahead,
11 answer his question.

12 **MR. KATZ:** Potential class, they're not
13 really in a class. Let me --

14 **MR. GRIFFON:** Answer his question.

15 **MR. KATZ:** Well, let me -- I'm going to go
16 through all of these really -- why don't I just go
17 through all of these, instead of starting at the end
18 there.

19 An individual's in an SEC class but has
20 exposures outside of that time period, location, et
21 cetera that defines the class, and the question is
22 can that individual apply for compensation outside
23 of the procedures of the Special Exposure Cohort to
24 the DOL. And that's already answered. That's
25 actually not a policy issue at all. Right now and

1 always -- the Department of Labor, when they get a
2 claim for a cancer that is not an SEC cancer, that
3 claim will come to us for dose reconstruction. So
4 there's no barrier for an individual who doesn't
5 have an SEC cancer, a specified cancer, coming to us
6 for dose reconstruction. There's no even decision
7 or appeal they have to make.

8 **MR. GRIFFON:** And that question was put in
9 there more as a clarification. I --

10 **MR. KATZ:** Right, so I'm clari--

11 **MR. GRIFFON:** -- was a little concerned
12 about the statement that Richard Miller read
13 yesterday from the transcripts in New York seemed to
14 interpret things differently and that's --

15 **MR. KATZ:** Right, let me -- and that's --
16 you know, he said some Federal official -- it's me.
17 I'm the responsible party. I'm speaking very
18 narrowly in that case because I think people, for
19 the most part, were understanding that with the
20 atomic weapons employers that their whole facility
21 and work experience would be -- comprise the class.
22 But anyway, that's my -- if I had to do it over
23 again, I wouldn't make a narrow expression like
24 that. I did -- I did it. So --

25 **MR. GRIFFON:** That was just for

1 clarification.

2 **MR. KATZ:** So send me back to Buffalo.

3 (Laughter)

4 **MR. KATZ:** Please don't. So if so, can the
5 dose assigned to the class be added to the
6 individual -- that's, I think, the question Dr.
7 Ziemer's raising just now. Can you take -- so say
8 you don't -- say you don't -- I guess there are two
9 scenarios here, really. Say the situation were you
10 don't add a class. There's a petition for a class
11 and you determine the dose wouldn't make that
12 minimum threshold of possibly causing a specified
13 cancer. And the question would be then so that
14 you'd come up with some -- how high could it have
15 been, the dose. You'd come up with some number
16 there. Would you add that into the individual dose
17 reconstructions. And we haven't crossed that bridge
18 to -- we didn't think down this lane to answer that
19 question. I mean it's certainly a question that's
20 germane for our dose reconstruction procedures and
21 we're going to have to answer it, but we haven't.
22 So I can't stand up here now and tell you what -- we
23 would take that dose or half that dose or not take
24 that dose or what, but I agree, that's an issue. It
25 belongs here with the Board as an issue, too, and

1 we'll have to resolve it.

2 But let's then take the other situation
3 where you have added a class -- I'm sorry.

4 **DR. ZIEMER:** Let me interrupt, but
5 nonetheless, if that person then -- if you were
6 doing a dose reconstruction, that would be a period
7 of time in their history for which you would have to
8 do something.

9 **MR. KATZ:** Thanks.

10 **DR. ZIEMER:** Right?

11 **MR. KATZ:** Thanks, that's --

12 **DR. ZIEMER:** And the logical thing to do
13 would be to do the upper-bound calculation that you
14 would have done anyway for the class.

15 **MR. KATZ:** So that's an option, right. And
16 that's something that has to be --

17 **DR. ZIEMER:** It's a kind of dose
18 reconstruction.

19 **MR. KATZ:** Exactly right. That's an option.
20 That's something that's going to have to be decided,
21 but we haven't -- we never -- we didn't get to that
22 question yet. Okay?

23 Then we have the situation -- the different
24 situation of we've added a class. Okay? And that
25 window -- some individuals -- in the same situation,

1 some individuals have exposures from other periods,
2 and then they also have their experience during that
3 period in place covered by the class.

4 **MR. GRIFFON:** Okay, I'm not sure your
5 example's -- I think you're reviewing a potential
6 class here. Right? And then you're considering --

7 **MR. KATZ:** Well, I mean --

8 **MR. GRIFFON:** -- exposures outside the
9 window? Okay, go ahead. Go ahead.

10 **MR. KATZ:** If it's a potential -- I mean it
11 really -- there are two -- if it's a potential
12 class, we're going to have to resolve the issues of
13 whether we can do a dose reconstruction and so on.
14 I don't think that helps clarify -- I mean really
15 there are two scenarios at the end of the day is
16 whether the class is added or not. And the reason
17 those are distinct --

18 **DR. ZIEMER:** If they are, the other doses
19 don't matter then 'cause they're compensated.

20 **MR. KATZ:** If they are, for the other
21 cancers --

22 **MR. GRIFFON:** And if they're not --

23 **MR. KATZ:** -- they're compensated.

24 **MR. GRIFFON:** That's the question, if
25 they're not.

1 **MR. KATZ:** We've addressed the situation of
2 if they're not --

3 **MR. GRIFFON:** No, no, no, no --

4 **MR. KATZ:** -- if the class is not added.

5 **MR. GRIFFON:** -- if the class is not
6 added --

7 **MR. KATZ:** Then that's what I just
8 explained, if the --

9 **MR. GRIFFON:** No, then for class
10 determination, can you add previous exposures?

11 **MR. KATZ:** That's the third -- let me go to
12 that last. Okay? That's the last of your questions
13 and I promise I'll get to that.

14 **MR. GRIFFON:** I thought you were there. I'm
15 sorry.

16 **MR. KATZ:** I'm sorry. Again, so we've
17 answered the question of what happens if the class
18 is not ultimately added. Then we have a decision to
19 make, and the Board has a role here, too, I suppose,
20 advising us on this.

21 But here's the other scenario. We add a
22 class, and we just went through how we would do
23 that, right, how we would make that determination.
24 In that case, we don't actually have an upper-bound
25 estimate radiation dose 'cause we didn't do a dose

1 estimate. All we answered was the question, could
2 the dose have exceeded some benchmark, but we didn't
3 put a cap on that. And in many cases, the cap may
4 be -- you know, the sky's the limit, almost. Right?
5 It could be exceedingly high.

6 So in that case we don't have the same
7 material to work with in terms of what we would do
8 for the individual who has a different cancer and
9 has doses outside of the class. Right? What we
10 will do there, again, I think -- I think we're going
11 to need to consider that situation and the advice of
12 the Board, but it's -- again, we did not imagine our
13 way down that path, so that's why we don't have a
14 procedure. But anyway, it's an issue for the dose
15 reconstruction process.

16 So then the final question which Richard
17 raised yesterday and you have raised again here,
18 which is what about -- I think I have this right.
19 What about considering the individual's doses
20 outside of the class period as an element -- as
21 facts to contribute to whether you add that class or
22 not. Right? Do I have that right?

23 **MR. GRIFFON:** Yeah.

24 **MR. KATZ:** Right.

25 **MR. GRIFFON:** And this is kind of the -- you

1 know, this is -- and I don't know how often the
2 situation might even arise, but it's the borderline
3 case where you're reviewing a class -- a potential
4 class --

5 **MR. KATZ:** Right.

6 **MR. GRIFFON:** -- and they don't meet that
7 hurdle.

8 **MR. KATZ:** Right.

9 **MR. GRIFFON:** But maybe they've all had
10 previous exposures or some of them have had previous
11 exposures, significant exposures --

12 **MR. KATZ:** That were recorded.

13 **MR. GRIFFON:** -- do you take those into
14 account when you're considering that class or not,
15 and that's --

16 **DR. ZIEMER:** Or how does that differ from
17 the first case?

18 **MR. GRIFFON:** That were reconstructable.
19 Right, that were -- the earlier exposures were
20 reconstructable.

21 **DR. ZIEMER:** That's similar to the case we
22 talked about before then.

23 **MR. GRIFFON:** But --

24 **DR. ZIEMER:** You've got one part
25 reconstructable, one part not.

1 **MR. GRIFFON:** Except in this case you're
2 making a decision on the class instead of on the
3 individual dose reconstruction. Right?

4 **MR. KATZ:** Right. The first case --

5 **MR. GRIFFON:** So you're adding the dose to
6 one instead of the other -- you know.

7 **MR. KATZ:** Right. The first case is really
8 simple because we're just completing the dose
9 reconstruction. The second case, you're saying how
10 do we -- and again, we did not think there, either.
11 And I believe -- and I'll just have to say that
12 vaguely because I'm not certain -- the way the
13 regulation's written now, I don't think you could
14 take the exposures outside of the time period and
15 bring them into consideration of the class.

16 Now the problem -- I mean there may be
17 circumstances like that where everyone had the same
18 exposures outside that were monitored but then hence
19 also had exposures within -- the issue that
20 certainly has to be satisfied is that they all have
21 to have a common exposure experience to be
22 considered as a class, so we're going to have to
23 satisfy that criterion.

24 **DR. MELIUS:** Could you define the class
25 based on their -- in a way that would include a

1 criteria for additional individual exposure? That
2 would be one way of approaching it.

3 **MR. KATZ:** I think the way you define -- I
4 think you would -- I mean to get at this, I think
5 you would simply define the class beyond the period
6 when the records were inadequate, but including the
7 period when records were adequate as well as the
8 period when records were inadequate to come up with
9 -- do you understand what I'm saying?

10 **DR. MELIUS:** Yeah, that's another --

11 **MR. KATZ:** And then -- but everyone would --
12 in the class would have to meet both of those -- in
13 other words, elements. They would have to be during
14 the period when records were adequate, as well as
15 the period when records were inadequate. Do you
16 understand? Does that make sense?

17 **DR. MELIUS:** That would be another option.
18 I mean --

19 **MR. KATZ:** Right. That's the one I can
20 imagine.

21 **DR. MELIUS:** I think there are a couple of
22 options for doing this and it may depend on the --
23 probably on the particular situation. Pardon me if
24 this is very convoluted, but...

25 **DR. ZIEMER:** Have we completed yours, Mark?

1 **MR. GRIFFON:** Yes.

2 **DR. ZIEMER:** Okay. Now I want to add one
3 more thing into the mix here for Special Exposure
4 Cohort, and that is to input into our sort of
5 knowledge base the outcomes of the Town Hall meeting
6 -- meetings, because they may be pertinent to know
7 what the public comments were. So Ted, this would
8 be a good time I think for us to hear your summary
9 on some Town Hall comments. Is Ted still here?

10 **DR. MELIUS:** While Ted's returning to earth
11 here, can I just make one comment on that --

12 **DR. ZIEMER:** Sure.

13 **DR. MELIUS:** -- last section?

14 **DR. ZIEMER:** Sure.

15 **DR. MELIUS:** I think one of our
16 recommendations might be, as a Board, is that NIOSH
17 review these regs to make sure that they don't
18 preclude any of these options for dealing with some
19 of these situations. I don't think we can ask them
20 at this time to develop every possible scenario, but
21 make -- try to go through this and make sure they
22 haven't precluded some of the options for the future
23 in terms of --

24 **DR. ZIEMER:** And that argues for
25 flexibility, which was one of the issues that I was

1 concerned about if we became too proscriptive.

2 **DR. MELIUS:** Right.

3 **DR. ZIEMER:** Okay. Ted, are you set?

4 **MR. ELLIOTT:** While he's getting -- cutting
5 the lights and all of that to present, I would just
6 inform the Board that the transcripts from the last
7 two Town Hall meetings should be up on our web site
8 and available for anybody who wants a hard copy upon
9 request the first of next week -- early -- perhaps
10 Tuesday of next week.

11 **UNIDENTIFIED:** That'll be fun to read.

12 **MR. ELLIOTT:** I'm sorry?

13 **UNIDENTIFIED:** I said that should be fun to
14 read.

15 **MR. KATZ:** Okay. So I'm just going -- I'm
16 just going to give you a flavor for the comments we
17 received, both on the rule and on other matters,
18 too, because in fact we received a lot of comments
19 and questions and so on on matters outside really
20 the parameters of this rule. But it was very useful
21 I think for us to be out there explaining things for
22 lots of people who don't understand much related to
23 dose reconstruction, and other issues, as well.

24 So one of the first questions we received
25 everywhere -- almost everywhere, I'm sure -- was why

1 didn't Congress include us in the cohort. Why is
2 the burden of proof higher for us? And sort of
3 following along these lines, couldn't Congress have
4 included us, for example, because we worked with the
5 same radioactive materials that they used at the
6 gaseous diffusion plants. Those came to us
7 afterwards, so why aren't we there? Or because
8 maybe our exposures are likely to be higher than
9 they were there? But we heard this first.

10 **DR. ZIEMER:** What did you tell them?

11 **MR. KATZ:** Well, we explained that we don't
12 have reporting really from Congress to be able to
13 give them a clear answer as to how Congress decided
14 on the locations that would be included originally
15 in the cohort.

16 So -- and similarly, why aren't our
17 illnesses covered? Why is cancer the only health
18 outcome covered among illnesses related to radiation
19 or radioactive materials?

20 Why aren't all toxic exposures covered? We
21 had questions in Los Alamos about what about non-
22 ionizing radiation, and we had questions I think at
23 all locations about chemical exposures.

24 Why aren't employees of the AWE's covered
25 who worked during periods when there was residual

1 contamination? We had a lot of questions about
2 that, about the defined periods currently of the
3 AWE's, and we explained to them what's going --
4 ongoing with our radiation -- residual contamination
5 study that we're doing and what the status of that
6 is.

7 And then lots of questions along Jim's
8 continuing concern about how long it will take to do
9 a dose reconstruction or determine that we can't; to
10 obtain contractor support for the dose
11 reconstructions; to decide the outcome of a
12 petition. And there was concern about delay arising
13 from the Congressional review period. I think
14 everywhere that sort of raised consternation, sort
15 of visible consternation. And you know, we
16 experienced a lot of anger about the duration that's
17 already -- the water under the bridge, how much time
18 has gone by on all of this and their claims awaiting
19 adjudication.

20 And questions about what's a class, how it's
21 defined, how large or small it can be. Can it be a
22 whole facility, so on. And we had recommendations
23 at some of these meetings that their -- they
24 believed their facility should be added as a class.

25 This is a question that we've actually dealt

1 with at length in this Board meeting already, so I
2 won't go into it at length, but this is my
3 statement, sort of drew this out. Can members of a
4 class opt out of a class that's been added? And as
5 I explained, they wouldn't need to opt out. They
6 would automatically come to us -- this relates to
7 situations where people have cancers that are not
8 covered -- not a covered -- under the Special
9 Exposure Cohort procedures and they would come to us
10 for a dose reconstruction in any event
11 automatically.

12 Can a claimant withdraw a claim before
13 adjudication is final and submit a petition? I mean
14 this -- presumably their concerned well, if they
15 find out down the road that their dose is likely to
16 be low, can they instead take another route and
17 submit a petition for a class.

18 And just to answer that -- but I mean
19 there's nothing -- there is nothing in the
20 procedures that preclude them from doing that. They
21 can, at any point, submit a petition. We don't
22 limit them based on that.

23 Why does a claimant have to petition if
24 NIOSH cannot do a dose reconstruction? This was
25 sort of the question of why do we have to petition

1 at all in that case? Why don't you just simply go
2 on about evaluating a class?

3 **DR. ZIEMER:** What was your answer?

4 **MR. KATZ:** And I'm sorry, the answer --
5 we've talked about that here, too, is as we read the
6 law, the law requires a petition to start the
7 process.

8 Why are the SEC procedures so complicated?
9 And then we had we had a whole --

10 I mean -- there's a great quote from John
11 Adams I could give here, but maybe I'll pass. Why
12 are the -- do you want me to give that?

13 John Adams was asked -- this could not be
14 recorded, but John Adams was asked by a Frenchwoman
15 once why the American form of government was so
16 complicated, and his response was well, you could
17 take all the wheels out of a watch, but it wouldn't
18 necessarily tell time.

19 And lastly, how will NIOSH reconstruct
20 doses? There were lots of questions about how would
21 you reconstruct a dose given this situation or that
22 situation, given that records may not be complete,
23 and so on.

24 But that -- I mean I think that's a decent
25 flavor of what we heard on the road.

1 **DR. ZIEMER:** Okay, let's see if there's any
2 questions for Ted on the issues discussed at these
3 Town Hall meetings.

4 **DR. MELIUS:** Could you give us some idea of
5 what the turnout was at the different meetings?

6 **MR. KATZ:** Yeah -- oh, yeah, I'm happy to.
7 So the first two meetings, Buffalo was under 20 and
8 Ohio -- just outside of Cincinnati -- was again
9 under 20. And I think that is in part a product of
10 the very little lead time we had between announcing
11 the meetings and the meetings being convened, and
12 the fact that newspapers hadn't gotten out a story
13 in advance of the meeting and so on.

14 So -- and then out west we had really much
15 better turnout. At Hanford we had about 350 -- I
16 haven't actually seen the numbers, but I've heard
17 that a number of times and it looked like that. We
18 had to open up another room to fit all these people.
19 They were going right out the hotel lobby and into
20 the street. So there was about 350 at Hanford and
21 then at -- near Los Alamos in Espanola there were
22 approximately 50 to 60, I think.

23 **DR. MELIUS:** And in the Buffalo meeting,
24 which is some of the older atomic weapons plants or
25 -- was the flavor of the questions or the nature of

1 the questions different or did you get -- we really
2 haven't talked a lot about dealing with those
3 employers in this committee and I'm just curious as
4 to are there -- given time periods involved and some
5 of their eligibility issues, were there any
6 particular things that came up that the Board should
7 be cognizant of in terms of working with those
8 employers?

9 **MR. KATZ:** Jim's standing up, I'll have him
10 give --

11 **DR. NETON:** I think the key issue in my
12 mind, we had a number of questions related to
13 residual contamination and period of covered
14 employment. I mean that was a good theme for a
15 large part of the meeting, why they had to work in a
16 certain defined time period to be eligible to apply
17 and who set those time periods and are they going to
18 be changed and that sort of thing. A lot of
19 frustration from the people in that area.

20 **MR. KATZ:** Then the other sort of
21 distinctive thing at Buffalo was -- I mean it was
22 clear this would -- this makes sense probably to
23 everybody, is that they had even less information
24 than at the other sites about everything in general,
25 and a lot of pent-up frustration related to that.

1 Go ahead, Mark.

2 **MR. GRIFFON:** I was just going to ask if Jim
3 or Ted can expand on the residual contamination
4 report -- from what I understand, their report was
5 -- a study was required, is ongoing. I'm not sure
6 where that stands now.

7 **MR. ELLIOTT:** I'll speak to that. The six-
8 month progress report which was due to Congress at
9 the end of June is going through inter-department
10 clearance right now and OMB approval so that it can
11 be sent over to the Hill.

12 **DR. ZIEMER:** Okay. Are there further
13 questions?

14 (No responses.)

15 **DR. ZIEMER:** It appears that there are not.
16 Thank you, Ted, for that report.

17 **MR. KATZ:** Thank you.

18 **DR. ZIEMER:** Now we're going to return to
19 this topic of the Special Exposure Cohort after
20 lunch. I will ask the working group if they would
21 mind maybe sitting around the lunch table together
22 and discussing the form of the document that we
23 prepare. We want to get sort of on the table for us
24 yet this morning the report of the dose
25 reconstruction working group so that we have that

1 before us, as well. And Mark, if you could lead us
2 through now your current -- I think there's a
3 handout. Did everybody get it?

4 **MR. GRIFFON:** Did it circulate to everyone?
5 I'm not sure.

6 **DR. ZIEMER:** We have a --

7 **MR. ELLIOTT:** It has been placed at each
8 person's --

9 **DR. ZIEMER:** -- version 2.0 of the working
10 group --

11 **DR. NETON:** No, we -- that was a draft that
12 we distributed early for review by just the working
13 group.

14 **MR. GRIFFON:** Yeah, we were planning on
15 meeting at the break to go -- 'cause I --

16 **DR. ZIEMER:** Okay, so you don't want to sort
17 of --

18 **MR. GRIFFON:** Well, that would be the
19 question from me to the working group since I did a
20 lot of this last night and they didn't have a chance
21 to look at it.

22 **DR. ZIEMER:** I gotcha.

23 **MR. GRIFFON:** I don't know if they're ready
24 to give it to the entire Board or if they have
25 comments for me and changes that we want to make

1 first. I didn't have a chance to --

2 DR. ZIEMER: I'll leave it up to the working
3 group. Do you want to have any input on this before
4 -- are you --

5 MR. GRIFFON: They've had input, don't get
6 me wrong. We discussed all this --

7 DR. ZIEMER: No, no, I know you have.

8 MR. GRIFFON: Yeah, yeah.

9 DR. ZIEMER: Go ahead, that would be my --

10 MR. GRIFFON: You think it's okay?

11 DR. ZIEMER: Yeah, I would --

12 MR. GRIFFON: I think we can distribute this
13 then to the entire Board and I can go quickly
14 through it. It's not that -- it shouldn't take that
15 long.

16 (Pause)

17 MS. MURRAY: Dr. Ziemer, may I ask a
18 question while he's distributing this?

19 DR. ZIEMER: Uh-huh.

20 MS. MURRAY: This afternoon when you go over
21 the SEC rule, will that be the clarification of the
22 answers to all these questions? Because frankly,
23 from the discussion this morning and my notes, I'm
24 not sure that I'm clear on what the answers were to
25 all of them.

1 **DR. ZIEMER:** Right, I'm not sure that we're
2 clear on what the answers are, either, but to the
3 extent that we're able to address those and come up
4 with some language, I think we're hopeful that many
5 of those will be at least addressed in some way.

6 **MS. MURRAY:** Great. I just wanted to make
7 sure I hadn't missed anything.

8 **DR. ZIEMER:** No, if your notes are
9 confusing, they're very much reflecting the meeting,
10 I think.

11 **DR. MELIUS:** The answers are yes, yes, no,
12 maybe.

13 **MR. GRIFFON:** Should I give -- I mean people
14 haven't looked at this. Do you want to --

15 **DR. ZIEMER:** Maybe you could lead us through
16 it, huh?

17 **MR. GRIFFON:** Okay. It's not that --

18 **DR. ZIEMER:** Yeah, it's not that extreme.

19 **MR. GRIFFON:** -- different. It's version
20 two of the last -- which we approved by vote of --
21 sort of an original scope of work for the dose
22 reconstruction --

23 **DR. ZIEMER:** And remember, if you want to
24 have the early version, it's the attachment two on
25 the minutes --

1 **MR. GRIFFON:** Right.

2 **DR. ZIEMER:** -- so if you need that --

3 **MR. GRIFFON:** And for the most part, this is
4 a redline strike-out type version --

5 **DR. ZIEMER:** Of that.

6 **MR. GRIFFON:** -- except for the -- it
7 doesn't completely hold true 'cause of my edit. I
8 didn't start doing that till mid-way through, but
9 anyway, I'll point out where the differences are.

10 I tried to expand a -- based on what we were
11 discussing yesterday and what we went over the last
12 couple of days, we tried to refine, at least a
13 little bit further, some of this initial scope for
14 the dose reconstruction review. The independent
15 panel section, we -- yesterday we did talk about
16 establishing a criteria, sort of a professional
17 criteria that we would look at or that we would
18 draft for NIOSH then to do the -- go through the
19 procurement process and hire these independent
20 experts. We haven't -- we didn't have NIOSH's RFP
21 and we wanted to look at that language, so we didn't
22 really include that in there, but we're still
23 planning on adding that to the independent panel
24 section.

25 **DR. ZIEMER:** Mark, could I interrupt and --

1 **MR. GRIFFON:** Uh-huh.

2 **DR. ZIEMER:** -- maybe we can get some
3 comments on each section as we go here.

4 **MR. GRIFFON:** Sure.

5 **DR. ZIEMER:** On independent panel, could you
6 clarify the working group's -- how you envision --
7 when you talk about the two Board members and one
8 expert, is my understanding you're envisioning this
9 as not necessarily being the same two people for
10 each review, but that this workload would be
11 distributed in some way amongst the total Board
12 members, including the newer people coming aboard,
13 so we --

14 **MR. GRIFFON:** Yeah, that is correct and we
15 need to -- we didn't -- we didn't know how to
16 describe that, I guess. A rotating basis or
17 something like that, but the intent is that the two
18 Board members participating in the panel would
19 rotate and hit everybody so we can spread the
20 workload.

21 **MR. PRESLEY:** The panel will meet prior to
22 the meeting so it won't be a separate meeting. It
23 might be the day before.

24 **MR. GRIFFON:** Yeah, that was just another
25 consideration that we had just to reduce the travel

1 burden on everyone and everything to try to -- for
2 the most part, we see the independent expert doing
3 the bulk of the work on these reviews, then pulling
4 that in with the two Board members and giving the
5 two Board members an overview and sort of a
6 preliminary read on it, and then the next step would
7 be to present to the entire Board. So that's kind
8 of the sequence there. But we'll refine that
9 language to reflect that it'd be a rotating -- two
10 Board members would be on a rotating basis.

11 **DR. ZIEMER:** Another question here, Mark.

12 **MR. GRIFFON:** To be assigned by the working
13 group. Maybe I'll add that in, too -- no.

14 **MR. ELLIOTT:** I'd like to understand this as
15 best I can. So let's say if you had 30 dose
16 reconstructions that you were going to review in --
17 from one quarter, the first quarter.

18 **MR. GRIFFON:** Uh-huh.

19 **MR. ELLIOTT:** As I understand this, you
20 would identify two experts, let's say, and identify
21 in that sample of dose reconstructions those which
22 would require certain members of this committee to
23 recuse themselves from, so you'd match up with that
24 individual expert two members who were not
25 conflicted.

1 **MR. GRIFFON:** Right.

2 **MR. ELLIOTT:** And you'd come in a day before
3 -- everybody that's engaged in this, identified to
4 be engaged in this would come in the day before a
5 Board meeting, per se, and run through all the dose
6 reconstructions with the individual Board members
7 who were responsible for assisting or working with
8 the consultant, and so you're going to have people I
9 guess floating in and out of that. Is that the way
10 you see it kind of working?

11 **MR. GRIFFON:** Yes, except that I think for
12 any set of cases, the team will stay the same. I'm
13 not sure if I --

14 **MR. ELLIOTT:** Oh, okay.

15 **MR. GRIFFON:** -- exactly understood your
16 question, but I think that for -- say once you have
17 -- once we select cases and they're assigned to an
18 expert --

19 **MR. ELLIOTT:** So the three might have --

20 **MR. GRIFFON:** I think the intent --

21 **MR. ELLIOTT:** -- five of the 30 to look at.

22 **MR. GRIFFON:** Right, right, right.

23 **DR. ZIEMER:** And if I could insert again
24 here, this current wording makes it appear that
25 there are only two groups, two sets of two, but in

1 essence there could be three or four groups. It's
2 even conceivable to me, depending on the workload,
3 that you might have three or four subgroups meeting
4 with --

5 **MR. GRIFFON:** That's correct, and --

6 **DR. ZIEMER:** -- the expert to handle -- you
7 know, this group has five or six or ten dose
8 reconstructions and another group and another group
9 could even be meeting the same day and the same
10 place.

11 **MR. GRIFFON:** That's correct, and that's a
12 reflection of our last couple days -- I missed that
13 on editing, but -- at 11:00 o'clock last night. Is
14 that all on the independent panel section?

15 **DR. DEHART:** Let's carry it the one step
16 further. The next day then, what we're envisioning
17 currently is that the panel would present to the
18 Board their recommendations. Let's say that the
19 recommendations for 20 of the reviews are benign and
20 they would be presented to the Board for approval by
21 exception. That is, if Board members want to pull
22 one out for more detailed review, that certainly
23 could happen, but we would present a list of cases
24 that we would -- hopefully would pass through the
25 Board, but the Board would approve every one. And

1 then there would be a set, as well, that the group
2 -- the panel felt needed the Board's review.

3 **DR. ZIEMER:** Full Board.

4 **MR. GRIFFON:** Right. Right, and we --
5 yeah, we discussed that a little. I didn't put that
6 -- you know, I didn't get that far in our language
7 there, but that's a reflection of our discussions.

8 I think also -- you know, I'm just thinking
9 now, this is a personal opinion that comes to mind,
10 is that the two Board members meet with the expert,
11 you may look at ten cases. You may say -- the two
12 Board members may feel that eight of those are ready
13 to go to the entire Board and these other two --
14 they may have questions for the expert to go back
15 and, you know, review -- so there may be a triage
16 there before -- you know?

17 **MR. ELLIOTT:** That's great, it informs the
18 question I was about to ask 'cause I'm trying to get
19 an understanding of the realm of recommendations
20 that might be coming forward from these panels. And
21 it certainly could be without exception we recommend
22 the Board approve. And here's another one with --
23 we have some exceptions or concerns about it and we
24 want the full Board to review. And here's another
25 category where the panel has looked at it and

1 advised the consultant that they need to go back and
2 do some more work, some more research or some more
3 evaluation of the dose reconstruction. Is that
4 pretty much the realm of --

5 **DR. ZIEMER:** But let me insert here. Let's
6 keep in mind that the Board is not approving every
7 dose reconstruction. This is an audit sort of
8 thing.

9 **MR. ELLIOTT:** That's correct.

10 **DR. ZIEMER:** I don't know if that's the
11 right term, but it's a quality control step.

12 **MR. GRIFFON:** Right.

13 **DR. ZIEMER:** We we're not talking about the
14 Board having to approve things before the -- in
15 fact, in many cases the decision will have been made
16 and perhaps the compensation paid. This is an
17 after-the-fact quality control step.

18 **MR. GRIFFON:** Uh-huh.

19 **DR. ZIEMER:** It's like a tax audit that said
20 did you do it right last year; if not, you've got to
21 change something. So bringing these to the Board
22 for approval should only have the connotation that
23 we're bringing to the Board the fact that the
24 procedure -- the audit procedure is -- on these has
25 been done and we've -- the staff -- the quality is

1 sufficient. So it's only -- I think, only approval
2 in that sense, not that it's okay now to pay this
3 claim. Okay?

4 **MR. ELLIOTT:** Absolutely, and I appreciate
5 that clarification.

6 **DR. ZIEMER:** Is that the right
7 understanding?

8 **MR. ELLIOTT:** Yeah, because these would be
9 completed dose reconstructions they're going to see
10 and the decisions may or may not have been made at
11 that point in time to DOL, but DOL has it in their
12 adjudication effort.

13 **DR. MELIUS:** But I think we have to
14 recognize that -- hopefully it will be rare; it may
15 not happen at all -- that there could be a
16 circumstance where there would be a systemic -- an
17 issue with dose reconstruction that the Board would
18 --

19 **DR. ZIEMER:** Right.

20 **DR. MELIUS:** -- disagree, would recommend
21 that NIOSH change, and then there'd have to be a
22 decision -- I think probably with NIOSH and DOL
23 people involved -- do you need to go back and re-
24 look at some of these.

25 **DR. ZIEMER:** Right, exactly.

1 **MR. GRIFFON:** Absolutely.

2 **DR. MELIUS:** I mean I don't think we can --

3 **DR. ZIEMER:** That's the intent.

4 **DR. MELIUS:** Right, but we're not -- yeah,
5 okay.

6 **MR. GRIFFON:** Right, okay. Case selection
7 -- ready to move on? Okay. In the case selection
8 we just -- really just modified some wording. Most
9 of this we've discussed already. The strata we
10 modified a little to reflect NIOSH's own internal
11 process, the NIOSH efficiency process which Jim has
12 described, which sort of involves the way they're
13 going to handle cases when they come in, whether
14 they're very low potentials or very high potentials
15 and in between, and we're going to sample along
16 those strata. A simple explanation, Jim, I think
17 that's fair.

18 And along with the site, time period and
19 diversity were the other strata that we would look
20 at. The other clause we added in there -- the
21 second paragraph says that we're -- feel the
22 appropriate sample size is approximately two to
23 three percent. And this, as we've discussed before,
24 is consistent with the DTRA approach. That's sort
25 of where we got that number from with -- and we also

1 discussed of -- cases will be selected on a
2 quarterly basis by the working group, so our working
3 group will stay in existence with a small role, but
4 we will stay in existence for the case of selecting
5 cases on a quarterly basis, and the working group
6 will continue to track those cases that are
7 selected. And the tracking piece is important
8 because we discussed the situation where the hopper
9 of cases that are ready may all be from Hanford, and
10 we want to get our reviews going so we randomly
11 select, but the only cases available are from a
12 limited number of sites, but we want to keep in mind
13 that we want to cover all our strata of all the
14 sites and time periods or a percentage of the sites
15 and time periods. So we thought we could achieve
16 that by this ongoing tracking, details of which I
17 cannot answer right now, but that's the nature of --
18 the flavor of what we're trying to achieve there.

19 Questions on that part?

20 **MS. MUNN:** You stumbled across another one
21 of my favorite buzzwords, diversity. What diversity
22 are we diverting here? Are we talking about types
23 of work? Are we talking about types of people?
24 What diversity? I just -- the word is so confusing
25 to me.

1 **MR. GRIFFON:** I'm going to defer this to a
2 team member that came up with that.

3 **DR. DEHART:** Obviously we're going to look
4 at gender, because gender plays a role. So you know
5 what I'm going toward. It'll be race, ethnic kinds
6 of issues so that it's a balance. We have reviewed
7 some of a variety of backgrounds of individuals.

8 **MS. MUNN:** Well, it may surprise you to know
9 that I think the type of work and the level of
10 involvement in certain kinds of work is probably a
11 more important diversity issue than either of those.

12 **DR. DEHART:** We're hoping that the site
13 selections will pretty well take care of that. If
14 we find that it isn't, we certainly will adjust
15 that. But the diversity as used here is in terms of
16 the personnel issue.

17 **MS. MUNN:** Okay.

18 **DR. ZIEMER:** Comment?

19 **DR. MELIUS:** Now you have me a little
20 confused. But are -- what about the words you
21 struck out, which were -- I was thinking of a
22 diversity of claim decisions, which were awarded,
23 claims denied, claims --

24 **MS. MUNN:** Uh-huh.

25 **DR. MELIUS:** -- non-reconstructed. Are you

1 going to look at that diversity, also, or stratify
2 in that in some way in terms of doing your sampling,
3 or is that what you're calling the NIOSH efficiency
4 process?

5 **MR. GRIFFON:** We thought that was -- at
6 least the intent is that the NIOSH efficiency
7 strata, the categories, are going to achieve that
8 same end.

9 **DR. MELIUS:** I think I agree with you --

10 **MR. GRIFFON:** Yeah.

11 **DR. MELIUS:** -- though I would prefer some
12 language that's a little clearer 'cause I'm not sure
13 that anybody outside of this table and the NIOSH
14 staff understands what the NIOSH efficiency
15 categories are.

16 **MS. MUNN:** I guess I might feel NIOSH
17 decision categories might better identify, in my
18 mind, what I think we're after.

19 **MR. GRIFFON:** Yeah, I -- that's actually the
20 term that NIOSH -- I was trying to be consistent
21 with their internal language on that, and they are
22 calling it the NIOSH efficiency process. Yeah, I'm
23 open for changes on that or if we can better clarify
24 it --

25 **MR. ELLIOTT:** I would ask that we avoid

1 that, Wanda, because we don't make the decision. I
2 don't want to confuse the claimant with that, that
3 there's a decision being made by NIOSH. I'm sorry.

4 **MR. GRIFFON:** We're certainly open for --
5 you know, we --

6 **DR. ZIEMER:** I think the point is, as far as
7 Jim's question is concerned, your intent is not to
8 exclude those -- that spread of awards versus
9 denials and so on, so that'll be included.

10 **MR. GRIFFON:** I mean we may --

11 **DR. ZIEMER:** And actually this is really --
12 presumably it's a statistical random sample. The
13 random sample, by itself, to some extent should do
14 the stratification except that claims may not come
15 in randomly in the sense that they may -- some sites
16 might be over-represented, so that's why they're
17 trying to stratify, I think. Otherwise, a random
18 sampling would cover the types -- the various types
19 of claims, the -- all the things you're talking
20 about --

21 **MR. GRIFFON:** Another possibility --

22 **DR. ZIEMER:** -- that's your random --

23 **MR. GRIFFON:** -- that might address Jim's
24 issue is that the struck-out language, we might be
25 able to leave that in and then parenthetically say

1 based on the NIOSH efficiency process -- you know,
2 through the NIOSH efficiency process, 'cause I think
3 we do get those categories, yeah.

4 **DR. MELIUS:** No, I'm comfortable with what
5 you're doing, I'm just concerned --

6 **MR. GRIFFON:** I know.

7 **DR. MELIUS:** -- some of this is for -- is
8 the credibility of the program --

9 **MR. GRIFFON:** Oh, yeah, sure.

10 **DR. MELIUS:** -- and we have to communicate
11 -- you know, one of these drafts when we were -- got
12 a document together -- communicate and I want to
13 make sure that the claimants and people out there
14 understand what we're doing, that's all.

15 **MR. ELLIOTT:** I'd like to make a couple of
16 comments for your consideration. Maybe you
17 discussed this in your working group. Did you
18 discuss weighting? The only weighting you show here
19 is weighting based upon number per site. What about
20 weighting on this category of denial or --
21 compensability or non-compensability and weighting
22 -- I'm thinking of -- if I were making this decision
23 for you, I'd say the heaviest weight should be on
24 that middle category that the most work is going to
25 be expended upon, so that's one question or comment.

1 And the other comment that I would offer you
2 for consideration is that to work in here a sentence
3 on -- with language that says you reserve the right
4 or you have the ability to change these -- the
5 selection -- case selection criteria as claims come
6 forward and time progresses. You may see a
7 different mix that you want to achieve.

8 **MR. GRIFFON:** The first one we did discuss,
9 and maybe I can massage some words there to have
10 weighted into -- the intent was to weight on those
11 NIOSH efficiency strata --

12 **DR. ZIEMER:** And you could --

13 **MR. GRIFFON:** -- just as you said. That
14 makes sense to us, too.

15 **DR. ZIEMER:** Mark, possibly you could simply
16 add "and other criteria that arise in the course of
17 your evaluations" or -- you need a sort of a catch-
18 all that would allow you the flexibility of
19 considering other criteria that may not be obvious
20 right now. I think that's what probably you're
21 saying.

22 **MR. GRIFFON:** Is it? Yeah, okay. We'll try
23 to do that. I also -- you know, I am mindful when
24 we're doing this of having concrete guideline -- not
25 too much -- you know, too much flexibility so that

1 we're vague in what we're doing, you know.

2 Any more on the case selection?

3 **DR. ZIEMER:** Go ahead.

4 **MR. GRIFFON:** The scope and protocol, the
5 first paragraph there was in the last -- for the
6 most part, in the last report. We modified one
7 bullet there, in number one, slightly. And then the
8 next page, on the top of page two, this was entirely
9 new draft of sort of a protocol, so this is sort of
10 -- the first piece being the broad scope and then
11 this sort of a protocol on how the panel would
12 conduct the dose reconstruction reviews. And we
13 talked about the type of review, and this is just
14 what we've considered.

15 Mainly in our discussions the last two days
16 we talked about sort of a basic level and then
17 advanced level, or a more comprehensive level I
18 guess might be a better word, actually. And then in
19 previous meetings -- and I added this in, going
20 through my notes last night -- we did discuss
21 possible blind reviews. And I should note that when
22 I said -- so we have these three categories, basic,
23 advanced and blind. And I would think that the
24 blind -- we haven't put numbers or percentages on
25 these, but I would expect that the blind reviews

1 would be a small percentage of the overall cases
2 that the panels review. But we think -- yeah.

3 **MR. ELLIOTT:** I'm lost on blind. What do
4 you mean by blind in this context?

5 **MR. GRIFFON:** Blind means -- no, don't put
6 that in there. Blind means -- I -- just a blind
7 review where NIOSH would provide -- and let me make
8 sure I get this right -- the administrative record,
9 everything NIOSH used to calculate an individual's
10 dose and then the panel would themselves come up
11 with the -- or generate the form that would feed
12 into IREP, rather than be provided that up front.

13 **MR. ELLIOTT:** So you're saying blind to the
14 inputs.

15 **MR. GRIFFON:** Right.

16 **MR. ELLIOTT:** I understand now. You would
17 not see what the determination would be from the
18 dose reconstruction.

19 **MR. GRIFFON:** Right.

20 **MR. ELLIOTT:** That's what you'd be blind to.

21 **MR. GRIFFON:** That's right.

22 **MR. ELLIOTT:** I understand now. Thank you.

23 **MR. GRIFFON:** Okay. So if you -- I'll just
24 -- if I can go through this sort of broadly, a basic
25 review -- A, B, C and D are in both the basic and

1 the advanced review and sort of broke it up into
2 categories. Review data gathering. B is review
3 interview and documentation provided by the
4 claimant. C is the review of the internal dose
5 estimates. D is review of the external dose
6 estimates. And let's see, the main difference -- I
7 guess people can read through -- I don't want to go
8 through every line on this, but the main difference
9 between the basic and the advanced is if you look at
10 A, there's a number three that was added which says
11 review the entire administrative record to determine
12 if relevant information exists which was not
13 considered by NIOSH. Whereas in the basic review,
14 we would just look at what NIOSH used in doing the
15 dose reconstruction. And as we learned in the last
16 couple of days, Jim Neton said that on the database
17 system, those records which NIOSH uses for the
18 actual reconstruction will be at the top of the
19 hyper-linked file so you'll have all the -- and
20 they'll be distinct from the rest of the
21 administrative record. So it'd be a less compre--
22 the basic would just entail looking at that as
23 opposed to looking at the entire administrative
24 record. The entire administrative record already
25 for some of these cases is upwards of 300, 400, 500

1 pages of various records, so that's much more
2 comprehensive review.

3 Also in C and D you'll see the expanded --
4 numbers four and five in both C and D are the same,
5 but they're -- in the advanced version they're
6 looking at the -- determine whether dose estimate is
7 consistent with relevant radiological information
8 within the NIOSH site profiles. And NIOSH is
9 establishing site profiles for all the sites, and
10 this is -- this is actually something we discussed
11 at length in the last day or so, that this is a real
12 place where this review panel can have value-added
13 to make sure that -- 'cause this is one of the
14 things that we hear in public meetings, et cetera,
15 that -- you know, we want to make sure that this
16 panel double-checks and make sure that dose
17 reconstructions are not just being conducted based
18 on personnel records, or at least those -- if they
19 are done on those personnel records, they're checked
20 to some extent against site profile data so that
21 there's not major inconsistencies, that something's
22 missing.

23 And five is similar along those lines,
24 compare case information and assumptions with
25 relevant co-worker case information and assumptions

1 for consistency. And that's the idea of having --
2 you know, of five or six operators from the Hanford
3 300 area, if you're looking at one with -- in
4 isolation in the basic review and in the expanded
5 review we might do cross-checks and make sure that
6 similar assumptions were made -- were appropriate,
7 et cetera. That sort of thing. And that's --

8 And then the blind, the last thing on the
9 bottom after all my deleted things, is the blind
10 dose reconstruction, which we just, to some extent,
11 described there with Larry. And then -- you know,
12 and then on the next page, which is sort of that the
13 -- that would be the report -- reports results to
14 the Board.

15 **DR. ZIEMER:** And so, Mark, you envision that
16 every one of the reviews, the panel would have some
17 sort of a documentation that said, for example,
18 determine whether all assumptions used in dose
19 determination are appropriate. Yes.

20 **MR. GRIFFON:** Yeah, this was sort of --

21 **DR. ZIEMER:** You would have a --

22 **MR. GRIFFON:** Along the lines of what --

23 **DR. ZIEMER:** -- written report and you'd
24 report that to the Board, we determined that all
25 assumptions are appropriate, that the data are

1 consistent, et cetera, down the list. Or if there's
2 questionable ones, you would raise that and --

3 **MR. GRIFFON:** I think -- I expect that the
4 expert would be going into this protocol and then
5 the two Board member -- the panel would agree on
6 that, you know, those conclusions. And then they
7 would --

8 **DR. ZIEMER:** And there actually -- there
9 would be documentation that --

10 **MR. GRIFFON:** Right.

11 **DR. ZIEMER:** -- of such an agreement and --

12 **MR. GRIFFON:** Right. This was -- this draft
13 here of the protocol was done in the spirit of your
14 idea of -- or several people's ideas of a checklist
15 sort of concept, yeah.

16 **DR. ZIEMER:** Okay, any comments or
17 questions?

18 **DR. MELIUS:** Yeah.

19 **DR. ZIEMER:** Jim.

20 **DR. MELIUS:** I think the working group did a
21 very good job with this. I think it -- I have one
22 question as to whether -- I guess this would be for
23 the advanced reviews. One of the I think major
24 concerns in terms of credibility of the process is
25 the issue of what information is available that

1 wasn't -- was not made available or was not included
2 or not considered in your review. And that you seem
3 to be approaching that purely from a records review
4 point of view. You're looking at the site profile.
5 You're looking at the administrative record and so
6 forth. Did you give any consideration, as part of
7 the review, of going back to people at the site and
8 asking some of the site experts -- and we can talk
9 how to define that -- about should other information
10 be considered for a person working in that area?
11 And I think that -- I know that -- my understanding
12 from NIOSH for their site profile are going to have
13 that process, but I'm not sure that that -- when
14 NIOSH does that that we're -- have a way of
15 ascertaining whether or not -- how complete that
16 site profile is. And would it be sort of value-
17 added enough to make it worth the -- is the effort
18 worthwhile to go back and talk to some people from
19 the site and -- just to make sure that all relevant
20 information is included, has been considered. I do
21 think that could help the process some.

22 **DR. ZIEMER:** Let me respond as a -- first
23 and -- it sounds on the surface like a good idea.
24 I'm wondering about the practicality. That's a
25 separate kind of audit. That's not an audit of the

1 dose reconstruction. That's an audit of the data-
2 gathering thing, which may be a good thing to do.
3 I'm not sure that's a burden we want to put on the
4 dose reconstruction subgroup, so we may want to
5 think about that as a separate question. How do we
6 have assurance that, number one, it's not --
7 probably not a simple task for this Board to go on
8 to sites and do that, but aside from the logistical
9 thing, perhaps we need to think about is there a way
10 to develop some level of comfort with the
11 information that's used in the site reconstruction
12 -- or the site profiles.

13 **MR. GRIFFON:** Yeah. I mean, you know, we
14 certainly -- and this is my biggest issue since I've
15 been on this -- but I guess what we were trying to
16 do was to -- and I certainly have concerns about the
17 site profiles and the -- NIOSH's staff power. You
18 know, do they have the resources and are they
19 getting the data to build these site profiles to be
20 what we would like them to be. We tried to bound
21 this dose reconstruction review to look at -- to tag
22 into those site profiles, but also my feeling is
23 that our Board needs to also push and make sure
24 NIOSH has the resources to make sure those site
25 profiles -- and a thought that I've been considering

1 is the idea of having some sort of site-specific
2 boards or panels of professionals, workers that
3 assist NIOSH in developing those site profiles. But
4 that's a whole 'nother set of work --

5 DR. ZIEMER: That's my point. I don't
6 think --

7 MR. GRIFFON: Yeah.

8 DR. ZIEMER: -- the dose reconstruction --

9 MR. GRIFFON: I think --

10 DR. ZIEMER: -- groups can do that.

11 MR. GRIFFON: Well, I think we -- in our
12 scope we did say that we would review the quality of
13 the data used for the dose reconstruction, and I
14 guess I was trying to push that as far as I could
15 and then -- but I -- and that's why I'm saying that
16 that -- maybe to push this from two sides makes
17 sense to make sure that these site profiles are
18 beefed up as best as possible, and then actually the
19 dose reconstruction review -- reviewers, the panels,
20 will be reviewing those site profiles and they will
21 have a lot of that substantial data that Jim might
22 be talking about, but I don't know. Yeah.

23 DR. MELIUS: Well, it seems to me, though,
24 that this is one of the opportunities to check on
25 that. We're hiring a consultant. We've had the

1 site profile -- site profiles will have sort of
2 developed a list of some of the experts, people that
3 are familiar with the site and could be helpful and
4 that some process for that consultant to go back and
5 just check with those people for this particular
6 work area where this person worked or case, was
7 there some other information that should be
8 considered in some way. And we're not talking about
9 doing it on everybody. We're just doing on the ones
10 -- you know, the second tier here.

11 **MR. GRIFFON:** Yeah.

12 **DR. MELIUS:** And I think it would provide
13 one check on that process. I agree that the site
14 profiles themselves may need some sort of review
15 process, also, and we don't want to get this whole
16 process bogged down in that. But to me, if we're
17 going to look at dose reconstruction and the
18 information -- I think it might be able -- possible
19 to do that. I share concerns about the logistics
20 and so forth and how complete that can be, but this
21 seems to be the opportunity. We're drawing a
22 sample. We're -- I don't know if that frightened
23 you and you fell off the -- but it seems to me that
24 if we beef this part of it up, it might be able to
25 take care of that at the same time now.

1 **MR. PRESLEY:** I don't think you want to put
2 that on an industrial hygienist or -- not an
3 industrial -- but an HP's back, do you, because he
4 doesn't know -- the people that we're going to be
5 hiring to do this, the majority of them have had no
6 experience into what the workers have done. You're
7 going to have to have somebody go back with a little
8 bit of experience to see that in the areas. I think
9 you're going to -- that's why -- I'm like Larry. I
10 think it's going to have to be a separate portion of
11 this.

12 **MR. GRIFFON:** I think that's almost an
13 argument for it.

14 **MR. PRESLEY:** Yeah, I agree. I'm arguing
15 for it, but I think it's going to have to be a
16 separate --

17 **DR. ZIEMER:** You're asking who should really
18 do that. Right?

19 **MR. PRESLEY:** That's exactly right.

20 **DR. ZIEMER:** Well, certainly the quality of
21 the information is still a part of this, and it may
22 be that in the process that certain kinds of
23 questions could be identified that might form the
24 basis for developing a process for going back and
25 doing what you're talking about. I think it could

1 be a fairly substantial task. To just ask the
2 question on any particular site or any subset of a
3 site, do we have the site profile for this operation
4 at Hanford.

5 **DR. MELIUS:** Yeah. No, I understand that
6 part. I just worry for the credibility of the
7 process if we haven't done that and claimants are
8 there concerned about well, they just didn't take
9 into account -- they didn't consider the fact --
10 this happened or that happened or there was this
11 exposure and -- that didn't come up and no one seems
12 to be paying attention to that. And I think that
13 could occur.

14 **DR. ZIEMER:** One thing we might think about,
15 and this would probably be the subject of perhaps
16 the next meeting, would be to say okay -- NIOSH is
17 developing the site profiles and they've gathered
18 information from various sources -- to say okay,
19 let's look at that in some way. Let's start with an
20 audit of what we got and how we got it, and then
21 think about what strings do you pull or what the
22 next -- I don't know that we can solve that here,
23 but I think that might be an issue that we want to
24 put on the issue board for future consideration.

25 **DR. MELIUS:** But can I just add -- if we can

1 have some way of going back and testing that site
2 profile versus --

3 **MR. GRIFFON:** Right.

4 **DR. MELIUS:** -- these actual cases, is it --
5 are they helpful enough?

6 **MR. GRIFFON:** That's -- I just made a note
7 to that effect, Jim. I think that might be
8 something we can add in to test, even on a
9 percentage of the advanced, maybe even, you know.
10 Maybe it's not all of the advanced ones, right.

11 **DR. ZIEMER:** Larry has a comment and then I
12 think Tony and then Roy.

13 **MR. ELLIOTT:** Just to make sure that we're
14 all working with the same understanding, the site
15 profiles are -- they're going to be developed, and
16 right now I'd say they're fairly sketchy, and
17 certainly you could spend your time looking at what
18 a site profile might look like at this point in
19 time. But I think you'd be better benefitted in
20 spending your time, as we get to a point where it
21 may make more sense, to expend the effort and the
22 time to look at what the site profile speaks to.

23 Certainly I think it does make a lot of
24 sense for the comprehensive review stage to take a
25 sample or where you think it's appropriate to have

1 the consultant make contact with whoever is
2 appropriate at a given site, ask that question.
3 This is the information I've seen and used; is there
4 anything else we didn't have that wasn't used, that
5 should have been -- that you are aware of. And
6 maybe we can -- we can make that happen, I think.

7 In the examples of the dose reconstructions
8 you all witnessed this week, I think you also saw
9 some instances where information was provided that
10 was not used. And I would ask how do you account
11 for the -- in the quality of a dose reconstruction,
12 how that's been handled. I don't see that addressed
13 here. You know, where in instances the claimant
14 said I've got this information. I'm searching here
15 to see how you handled -- in your review, in a
16 quality of the dose reconstruction process -- that
17 the claimant understood why it was not used or why
18 it didn't make sense to use it. I think that is
19 just as important -- you know, when a claimant comes
20 forward with information that they've spent time,
21 money and their own energy in collecting and
22 assembling, and then they don't see it used, we're
23 going to hear as many complaints on that side of the
24 fence as we are on the other side of the fence, I
25 think.

1 **MR. GRIFFON:** Yeah, I think we --

2 **MR. ELLIOTT:** And I don't see that addressed
3 here.

4 **MR. GRIFFON:** (Inaudible) maybe not
5 extensively enough -- and I'll remind that -- was
6 drafted at 11:00 last night. I thought we tried to
7 capture that in the review of the interview and
8 documentation provided by claimant, determine
9 whether NIOSH appropriately addressed all
10 allegations made by the claimant and assure that the
11 interview information is consistent with the data
12 used in the dose estimate. And then in the first --
13 number three on the -- or A-3 on the advanced, the
14 distinction between the basic and the advanced was
15 that we're reviewing the entire administrative
16 record, which from my understanding of how NIOSH is
17 -- you know, the administrative record includes all
18 the data they got. They may not have used some of
19 that data and the independent expert and panel would
20 be able to then -- then they have to go through all
21 that administrative record, and if they found
22 certain things that they thought were relevant to
23 the dose reconstruction but were not considered by
24 NIOSH, then they've have a -- they'd question it.

25 **MR. ELLIOTT:** Thank you.

1 **MR. GRIFFON:** So I think that's where we got
2 it.

3 **MR. ELLIOTT:** I think it's covered then.

4 **DR. ZIEMER:** Tony?

5 **DR. ANDRADE:** I just wanted to comment that
6 it's not entirely clear in my mind yet what
7 comprises a site profile, but as the discussion has
8 evolved I think I've got a couple of ideas and I
9 think that eventually we're going to see that a,
10 quote, site profile is going to come about and maybe
11 -- how shall I say it -- even a technical area
12 within a site profile will come about from many
13 different avenues, one being the dose reconstruction
14 process itself and the interviews that are done for
15 that process; number two, well-known accidents that
16 have been documented; and number three -- and this
17 is true probably more so in recent years than in the
18 early years -- the development of databases of
19 incidents in which we know there have been updates
20 or intakes of radioactive material.

21 And for example, at our plutonium facility
22 we have developed a site profile that goes back
23 fairly -- a fairly long ways that we use as a prior
24 distribution for Bayesian* analysis or for looking
25 at the possibility that a real intake has occurred.

1 So if we're going to choose to develop these things,
2 I think we're going to have to develop -- we're
3 going to have to realize the diversity of sources of
4 data that we're going to have to use to build these
5 as we go along.

6 Did Jim want to respond to that?

7 **DR. NETON:** I was just going to amplify on
8 what Dr. Andrade said. It's true, a site profile is
9 that and more. All of those things go in there.
10 What I would like to say, though, is a site profile
11 is a dynamic thing. And Larry's right, right now we
12 don't have a volume of information in there, but
13 they are growing as we do dose reconstructions.

14 In many cases, some of the simpler ones that
15 the working group saw, we needed very little site
16 profile information to construct a dose. We needed
17 to know very limited things, like frequency of badge
18 exchange and maybe the detection limit of a badge
19 and what the badge consisted of and we could be
20 finished.

21 In the more complicated cases, as we get
22 into those middle ground cases where we need to pull
23 out all stops, that's where the site profile's going
24 to grow dramatically, where we have four classes of
25 information in site profiles -- characterization of

1 the internal monitoring program, the external
2 monitoring program, the medical radiation monitoring
3 program, and the environmental monitoring program.
4 There are four key areas that we're expanding on,
5 and only in those cases typically where we go to a
6 full-blown dose reconstruction would all four of
7 those areas be exercised or utilized. So it is
8 possible to have limited site profile information
9 yet have dose reconstructions move forward, and I
10 think that's what the Board would see now if they
11 actually took a snapshot. But down the line I think
12 it might make some sense where we start doing cases
13 where we have no monitoring and we're going to rely
14 on air sampling data and that sort of things that
15 are -- that may be in there, environmental area
16 surveys, that sort of thing. It might be better to
17 -- down the line to look at those profiles.

18 **MR. GRIFFON:** I guess also in some way I'm
19 not sure if this falls into internal and external,
20 but I think some sort of process --

21 **DR. NETON:** Right, source-term knowledge,
22 that sort of thing. I think you saw a good example
23 of that on an AWE where we went out and really tried
24 to pull all the stuff that was in there.

25 **MR. GRIFFON:** Right. But as everybody's

1 realizing -- I mean this is not a small task, and
2 from what we could gather in our tour of the
3 facility, the site profiles are, as Larry said,
4 sketchy at this point. They're -- and there is a
5 massive undertaking, I would say, to get those up to
6 speed. And another concern I would have is that I
7 know that dose reconstructions are going to feed
8 into that process to help you fill out that, but I'd
9 hate to have the cart before the horse -- is that
10 the expression? I mean I hate to be -- you know, if
11 we don't have a full picture and then we have to go
12 back and redo dose reconstructions again for a lot
13 of people because we missed something --

14 **MR. ELLIOTT:** We don't want to do that. And
15 please understand that as soon as this contract's
16 awarded, there's going to be a group in the
17 contractor that we're going to sit down with and
18 that's their primary responsibility.

19 **MR. GRIFFON:** Right.

20 **MR. ELLIOTT:** Start the research effort, put
21 the site profiles on the table --

22 **MR. GRIFFON:** I understand.

23 **MR. ELLIOTT:** -- figure out what information
24 gaps exist in those profiles and let's get them
25 filled.

1 **MR. GRIFFON:** Right.

2 **MR. ELLIOTT:** Okay?

3 **MR. GRIFFON:** Right.

4 **MR. ELLIOTT:** Move on that, because it's
5 going to aid the individual dose reconstructions as
6 the individual dose reconstructions aid the
7 profiles, and we need both -- we need to track these
8 at the same time and put as much emphasis on both
9 tracks as we can.

10 **DR. ZIEMER:** Roy and then --

11 **DR. DEHART:** I would caution the Board on
12 expanding this audit activity. This is an
13 administrative paper audit, if you will. And to
14 make it an investigative audit, to go into the work
15 site -- by phone, in person, whatever -- is going to
16 complicate, delay -- and I'm not speaking in
17 opposition of doing that, but don't do it with this
18 process.

19 **DR. ZIEMER:** Thank you. Jim?

20 **DR. MELIUS:** No, Wanda had her --

21 **DR. ZIEMER:** Oh, were you up first, Wanda?
22 Go ahead.

23 **MS. MUNN:** I almost hesitate to broach this
24 because I recognize how involved it might become.
25 But in the process of doing site profiles, would

1 there be a value to having that material, as it
2 develops, be available on the web site for other
3 individuals to provide data that perhaps might not
4 be in the official record, which would be helpful?
5 And I recognize, as I ask that question, that the
6 quality of information that you get might be
7 questionable and that the quantity of it might be
8 overwhelming. But it's simply a question. Would
9 that be of value in assisting to accommodate the
10 goal of site profiling that you have in mind?

11 **MR. ELLIOTT:** Well, you know I'm a big web
12 site person. I think we've got the best web site
13 going, and I think this would be a certain
14 beneficial aspect to see this information provided
15 publicly. And the benefit I see in that is somebody
16 out there may say hey, I've got a piece of
17 information I don't see there. Have you not found
18 this?

19 Certainly it's going to be problematic for
20 us to do so, given -- you know, I can envision large
21 amount of information -- we've already got a large
22 amount of information on our web site, but this will
23 take us to another whole level, so we'd have to
24 evaluate that. But I think the benefit outweighs
25 the difficulty.

1 **MS. MUNN:** Be ready for it.

2 **DR. NETON:** I do think that's a good idea.
3 And we already plan on having this on our intra-net
4 internally to use for our contractor. I would say,
5 though, that certain pieces of it may not be able to
6 go on the general web. We plan on having these
7 drill-down menus where it will take you down to
8 specific cases and classes of workers so that ends
9 up being part of the profile information, so it
10 would have to be generic monitoring information, not
11 any claimant-specific type stuff.

12 **DR. ZIEMER:** But something to be considered.
13 Jim?

14 **DR. MELIUS:** I would just add that while
15 these site profiles are currently not very robust, I
16 think it's all the more important that there be some
17 process to check that now. And whether it's this
18 working group or another working group, how we
19 figure out that process, I don't know procedurally,
20 but I think we need to consider that and figure a
21 way that we're going to provide some affirmation of
22 that information within the constraints of resources
23 and time for doing this. And it may be that down
24 the road when these profiles are -- you know, a few
25 years from now when they're much stronger, then that

1 process -- that part of the process will be less
2 important. But until then, I think -- I'm just real
3 worried that people are going to question the
4 results -- question our review of the results unless
5 we find some way of taking that into account.

6 **DR. ZIEMER:** Other comments? We're
7 approaching the noon hour and we have a public
8 comment period. I have three individuals who've
9 requested speaking times from up to ten minutes
10 each, which means 30 minutes. So I'd like to ask if
11 any or all of the three -- Bruce Lawson, Jerry Tudor
12 and Bob Tabor -- we have Tudor and Tabor -- can any
13 or all of you would be willing to wait till after
14 lunch to speak? If it's a problem, we'll do it now.

15 **MR. TUDOR:** The only problem I have, I would
16 like to -- if it would be first thing after lunch,
17 that would be fine. I just don't feel like, you
18 know, I need to stay that late.

19 **DR. ZIEMER:** Okay, let's have you -- we'll
20 go right now. I just want to check with the other
21 folks.

22 You're okay after lunch and you're okay
23 after lunch? Okay.

24 Let's go then with -- let's see now, this is
25 -- you are --

1 **MR. TUDOR:** Tudor.

2 **DR. ZIEMER:** -- Tudor. Okay, Jerry. Why
3 don't you address us now then, Jerry. Do you want
4 to use the podium, if you want to go up to the
5 podium or --

6 **MR. TUDOR:** Nah.

7 **DR. ZIEMER:** -- either one? Right here,
8 okay.

9 Jerry is with -- is from Clinton, Tennessee,
10 USOL.

11 **MR. TUDOR:** Yes.

12 **DR. ZIEMER:** Thank you.

13 **MR. TUDOR:** Yes, I'm Jerry Tudor and I'm
14 with USOL and that's United Sick, Oppressed
15 Laborers, who's a sick organization, Oak Ridge, and
16 I'm with CHE, who's the Coalition for a Healthy
17 Environment. And we met with our Congressman in Oak
18 Ridge yesterday, or his aides, and he informed us
19 it'd be next year before any laws could be passed to
20 change anything about this.

21 The problems I see with it is the amount of
22 time to become a special cohort is ridiculous, you
23 know, because -- I've already been applied a year,
24 so should they determine that DOE don't have
25 records, then I have to wait another year to year

1 and a half? Is that not the time limit?

2 DR. ZIEMER: There is a 180-day waiting --

3 MR. TUDOR: Yes, plus --

4 DR. ZIEMER: -- period after something is
5 filed before --

6 MR. TUDOR: Plus --

7 DR. ZIEMER: -- Congress approves it, yeah.

8 MR. TUDOR: Plus you have 200 days to act on
9 it after that. Okay.

10 DR. ZIEMER: Right, so there is a time span,
11 right.

12 MR. TUDOR: And most people are sick, you
13 know. I have fourth stage prostate cancer, and a
14 lot of people are already upset with the amount of
15 time it's, you know, been taking on this. And
16 another problem I have with -- when I set at home
17 and read the minutes of the meeting and the calls
18 and whatever and May the 29th -- 8th on a
19 teleconference call, y'all said that the majority of
20 the claims would be denied. Well, that bothers me.
21 And you know, looking at it from a sick worker, you
22 know, if y'all are saying the majority of the claims
23 will be denied already, before any dose
24 reconstructions are done -- they're up to seven now
25 -- you know, that kindly (sic) bothers me. And they

1 said there'd be a lot of mad people, and they will
2 be, you know.

3 And another thing with -- problem with
4 comparing me to somebody that worked in -- chemical
5 operator, which that's what I was, you can't compare
6 me with a person that worked at the other end of the
7 room even because I done a job different from him.
8 I might have been exposed to a bunch and he might
9 not have been exposed to any. I might not have been
10 exposed to any he's exposed to a bunch, you know.

11 And working at Y-12 all those years, I know
12 records were inadequate. I also know that if a
13 program had a bunch of money in it, they clocked my
14 time to that program. I may have not even worked on
15 that program. I may have been doing something over
16 here -- cleaning -- sweeping the floor, cleaning up
17 a spill or something, and was charged to a job that
18 I didn't do, you know. And that creates a problem
19 when you start doing dose reconstructions and you
20 look -- say well, he done this this day. That is
21 not the way it happens at Y-12. I'm sure some of
22 you know this. And I just thought I'd come up today
23 and, you know, try to get my two cents in.

24 **DR. ZIEMER:** Thank you, Jerry, for those
25 comments. Now we always like to provide an

1 opportunity for the Board, if they have questions or
2 want anything clarified, to see if there are any
3 questions or feedback for Jerry.

4 (No responses.)

5 **DR. ZIEMER:** Okay. And your remarks will
6 appear in the record, as well. Thank you.

7 **MR. TUDOR:** Thanks a lot.

8 **DR. ZIEMER:** Thank you very much. Let's now
9 recess for lunch and right after lunch we'll hear
10 from Bruce and Bob, and then we'll return to our
11 session on the Special Exposure Cohort.

12 **DR. MELIUS:** What time?

13 **DR. ZIEMER:** We're due back at 1:30. We
14 want to be prompt on that because I know starting at
15 3:00 some people have to start bailing out.

16 (Whereupon, a luncheon recess was taken.)

17 **DR. ZIEMER:** Okay, I'll call the session
18 back to order. We would like to hear now from Bruce
19 Lawson. Bruce is with PACE Medical Screening
20 Program and is from Oliver Springs, Tennessee. And
21 Bruce, glad to have you here to address us this
22 afternoon.

23 **MR. LAWSON:** Thank you. And for those of
24 you who don't know, Oliver Springs is a suburb of
25 Oak Ridge.

1 As he said, I'm Bruce Lawson. I worked at
2 the K-25 site at Oak Ridge, which is one of three
3 DOE facilities in Oak Ridge. I was a craftsperson.
4 I was there a little over 30 years. The last nine
5 years I was the union health and safety
6 representative for the site and just a couple of
7 general comments. I'll keep this brief. I hate to
8 be the first speaker after lunch. Everybody's
9 wanting to -- anyway.

10 I saw first-hand what Joe Carson alluded to
11 yesterday, some of the things he mentioned about
12 records, and I saw exactly what he was talking
13 about. I saw industrial hygienists, health physics
14 people and safety people, professionals, silenced
15 and their minds changed by a simple frown. It
16 didn't take any pressure at all to get them to
17 rewrite records, redo reports. As a matter of fact,
18 they were under the onus to clean up reports before
19 DOE ever saw them. So what -- most cases, what DOE
20 saw, the final analysis was a cleaned-up or very
21 much edited version of what actually took place.

22 I now work with the local worker health
23 protection program, the medical screening. We --
24 very often we're the first point of contact for the
25 claimants in this EEOICPA thing. We meet the

1 individuals face-to-face and we hear -- I could
2 repeat, but I won't, a lot of the comments that you
3 heard at the public meetings that was referred to
4 earlier. We hear that every day, many times -- of
5 course similar verbiage.

6 Most of our claimants are not -- I wouldn't
7 say most, but a large portion of them are
8 uneducated, almost to the point of being illiterate.
9 Their spouse, be it a husband or wife, said very
10 little, if anything, about what they did at work,
11 what their job was, what their job duties,
12 especially. So they know virtually nothing about --
13 they just know -- and in our case, we see people who
14 weren't even sure which one of the three plants
15 their husband worked at. And they were told, of
16 course, you don't talk about what you did years ago,
17 and they certainly don't understand this process.
18 To them, it's much too complicated and they don't --
19 they're not -- they just don't understand dealing
20 with bureaucracy and Federal procedures.

21 We -- a lot of them can't get their records
22 from DOE, and a lot of them can't get their records
23 from local physicians and hospitals. I know of one
24 case where this lady -- and this is a person who is
25 existing on Social Security. They wanted to charge

1 this lady \$300 to give her her medical records. She
2 couldn't afford it. She walked away. She came to
3 us. We made some phone calls and was able to
4 persuade them to give them to her.

5 But anyway, we've seen a lot of people throw
6 up their hands and quit because they can't deal with
7 the established bureaucracy as it is. They get a
8 couple of requests for information, the claims
9 office -- the DOL claims office loses their records
10 and so on and they write back for more
11 documentation, and they just throw up their hands in
12 disgust and say I knew I couldn't do it anyway.

13 Based on what I've heard about dose
14 reconstruction and the requirements -- record-
15 keeping from DOE, we're very, very wary of it. We
16 believe that more -- far more deserving claimants
17 will be denied than actually paid. And there again,
18 around the Oak Ridge area, all too often the word on
19 the street is if you didn't work at K-25, you can
20 forget it. It's -- you know, people have their
21 claims in the pipeline for over a year, and the word
22 is getting around. I talked to Dr. Bingham*
23 yesterday and their business is way down. So is
24 ours, not quite to the extent -- what she said, but
25 it is down. But that's -- word of mouth in any kind

1 of business is the best advertising, or worst
2 advertising you can get. And right now, we're
3 getting some very negative word of mouth
4 advertising, the entire process is.

5 I applaud your efforts, and especially what
6 you mentioned this morning about streamlining the
7 process, getting on with it, get -- get these claims
8 moving, get them through. And I know you guys are
9 bound by the law, but in the back of your mind,
10 remember, these people were probably -- most of them
11 were probably exposed to far greater hazards from
12 chemicals than they were from the radiation
13 exposures that they got. So don't feel the least
14 bit hesitant to go ahead and push a claim through
15 that's questionable in my mind because these people
16 are definitely deserving. Most all of them are.

17 That was about it. I just jotted down some
18 notes that I thought you might want to hear from the
19 street, and that's where we are, street level.

20 **DR. ZIEMER:** Thank you, Bruce. Let me ask
21 if any of the Board members have questions for
22 Bruce.

23 **DR. MELIUS:** I have one.

24 **MR. LAWSON:** Sure.

25 **DR. MELIUS:** Thank you for your comments,

1 Bruce. What -- do you have any ideas on how we deal
2 with this situation where the official records may
3 not be truthful or accurate, accurately reflect
4 people's exposures? Would we get -- be able to get
5 that information from interviewing some of the
6 people down there or how do you get at that? I mean
7 I know it's not easy, but do you think people are
8 generally aware of the issue when the records are
9 not being -- have not been properly kept for a
10 period of time or --

11 **MR. LAWSON:** Not in every case, certainly,
12 but there are some that are. We did a lot -- I say
13 we, I'm talking about our local union there and the
14 international did a lot of risk mapping where we
15 called the workers themselves. And there again, I
16 heard reference to expert -- site experts. If there
17 are experts at these sites, it's those guys who were
18 out there every day -- and ladies, of course -- who
19 were out there every day with their hands on. They
20 knew what was going on in this area as opposed to --
21 someone mentioned earlier that you could be at the
22 opposite end of the room doing an entirely different
23 procedure, different process, which is true. But we
24 gathered people together and -- with maps of the
25 buildings, different areas -- what was here, what

1 went on and so on -- and from that we -- we have a
2 lot of information.

3 **DR. ZIEMER:** That suggests that perhaps
4 there's another source of information that could be
5 tapped into --

6 **MR. LAWSON:** There is, yes.

7 **DR. ZIEMER:** -- your risk mapping.

8 **MR. LAWSON:** There certainly is. Mark
9 Griffon was involved in a lot of this, the sessions
10 that we did.

11 **DR. ZIEMER:** And that is information that
12 would not derive from requests to DOE, I assume. Is
13 that correct?

14 **MR. GRIFFON:** That's correct, yeah. But
15 this is -- I think medical surveillance program data
16 was actually explicitly mentioned in one of the
17 regulations or the -- yeah --

18 **DR. ZIEMER:** Right.

19 **MR. GRIFFON:** -- and this is all under the
20 medical surveillance -- DOE medical surveillance
21 programs.

22 **DR. ZIEMER:** So it is available via the DOE
23 route, then, or not? This sounded like a
24 separate --

25 **MR. LAWSON:** Probably if you request the

1 right document, would be my guess.

2 DR. BINGHAM: Well, I'm a PI on one medical
3 surveillance project, and these are cooperative --

4 DR. ZIEMER: You need to identify yourself.

5 DR. BINGHAM: Eula Bingham, the University
6 of Cincinnati College of Medicine, Department of
7 Environmental Health. The PI, the -- I'm the PI on
8 this one. These are cooperative agreements and
9 because the workers were so concerned about DOE and
10 its reputation and so forth, we were very careful.
11 And we agreed not to give it to them. I mean if a
12 worker decides to give it, that's their choice, and
13 we have them read a confidentiality agreement and so
14 forth. But the data belongs really to the project
15 and it's only given in de-identified form. And
16 theoretically that could be done by each of the
17 projects, not by DOE.

18 Now certainly DOE could encourage the people
19 who have the projects to do it, but they do not own
20 the data. The only thing they would own that we
21 have is if monitoring data for a certain facility,
22 then they own that and that's covered under the
23 Privacy Act. So I think you'd have to go to the
24 different surveillance projects and ask that, and I
25 think most people would be happy to share what they

1 have.

2 As a matter of fact, we've already shared
3 some of the information with NIOSH on what we called
4 institutional histories of some of the sites where
5 we knew what the processes were and during what
6 periods of time. Not perfect, but at least
7 something.

8 So -- but for this, the actual owning of the
9 information is for each project, but you know, you
10 could never give up identified data. That's up to
11 each worker. Is that right?

12 **MR. GRIFFON:** I guess I was thinking more
13 along the lines of the summary reports, which are --
14 all the de-identified summary reports which capture
15 -- at least may help in the site profile side of
16 things. Certainly the interviews and the identified
17 data, Eula's correct on that.

18 **MR. LAWSON:** And what we call the needs
19 assessment documents where we had the initial
20 meetings, in a generic form.

21 **DR. ZIEMER:** It seems to me we'd want to
22 make sure those got into the system if they're --

23 **MR. ELLIOTT:** Yeah, let me speak to this a
24 little bit, and I appreciate Eula speaking on it, as
25 well. And she's certainly very accurate, DOE

1 doesn't own much of this information, and so we've
2 been working with several of the PI's and in some
3 specific situations regarding perhaps construction
4 workers, we've been working for the Center for
5 Protection of Worker Rights for -- trying to put in
6 place a sole-source contract with that -- with a
7 consortium under the Center for Protection of Worker
8 Rights to get information from these different
9 programs for five different sites, the work history-
10 related information for construction workers. And
11 also we should be aware that any one of the former
12 workers who go through the program are given
13 information back to them individually which should
14 be part of their claim. They can submit it as part
15 of their claim, and so that personal, individual
16 information can be utilized as it comes from the
17 individual. And we certainly -- every time we deal
18 with a claimant and we identify that they were a
19 member of a former worker screening program, we ask
20 do you have this information and it certainly would
21 be beneficial if you would provide it. And so
22 that's one way we try to get around this issue of
23 the individual information and not having a release
24 form signed through the whole program.

25 **MR. ESPINOSA:** What are the five sites?

1 **MR. ELLIOTT:** Well, there's -- we're still
2 working on the negotiation of this agreement, sole-
3 source agreement with CPWR on it. I can't go into
4 it at any more detail than that right now.

5 **DR. DEHART:** Again, thank you for your
6 comments -- Roy DeHart. There was a point of
7 clarification. You had mentioned that in Oak Ridge
8 the word is that if you didn't work at K-25, forget
9 it. Under the special cohort, the gaseous diffusion
10 operation was covered. Did it cover anyone working
11 in the reservation -- in the K-25 reservation
12 itself, or just specific site and operational
13 activities?

14 **MR. LAWSON:** Just the K-25 site. Of course
15 we had a lot of workers who transferred between
16 sites. That happened very frequently. But if they
17 worked as much as 250 days --

18 **DR. DEHART:** In that building?

19 **MR. LAWSON:** -- at K-25, they -- we're a
20 special cohort.

21 **DR. DEHART:** Okay.

22 **MR. LAWSON:** They would be considered.

23 **DR. DEHART:** And when you say K-25, you're
24 talking about K-25, the building --

25 **MR. LAWSON:** The gaseous diffusion plant

1 itself.

2 **DR. DEHART:** -- the building.

3 **MR. LAWSON:** The physical -- physical plant

4 --

5 **MR. PRESLEY:** No, no.

6 **DR. ZIEMER:** The site.

7 **DR. DEHART:** The whole site. Okay.

8 **DR. ZIEMER:** The site.

9 **DR. DEHART:** The whole site. Okay.

10 **DR. ZIEMER:** Other questions for Bruce?

11 Thank you very much.

12 **MR. LAWSON:** You're very welcome.

13 **DR. ZIEMER:** All right. Now we'll hear from
14 Bob Tabor. Bob's been with us before from Harrison,
15 Ohio. Bob, are you here?

16 **MR. TABOR:** Yes. I'm Bob Tabor -- Robert
17 G., for the record. I'm a member of the Fernald
18 Atomic Trades and Labor Council. I work at the
19 Fernald site, 21-year veteran there, millwright by
20 trade and a labor representative. I spoke to you
21 folks in the past and I guess the first thing I
22 would like to say is I'm happy about the new members
23 of the Board and glad to see that that issue's been
24 addressed and the addition of those folks. I'm also
25 happy to be able to be here again, you know, to

1 participate and listen to the Board's activities.
2 Doing so certainly helps elevate the learning curve
3 because without a doubt to say, this is a kind of a
4 complex issue, some of these things are.

5 And I guess on that note, some of the things
6 I'd like to talk about, it'd be really hard for me
7 to reiterate those things in such a manner that I
8 might get as detailed as some of you who really
9 understand the science behind this. So some of my
10 comments will basically be in reference and in
11 general, because the things I've been thinking about
12 the last few days that I would like to comment to
13 have been explored by a lot of conversation and
14 discussion here this morning, so I just want to
15 reiterate the issues that Mark brought up and that
16 Jim brought up, especially those on the issue
17 regarding the SEC class applying for non-SEC-listed
18 cancers and those particular issues there. I want
19 to be sure that we give thorough thought to how to
20 adjust or how to fix those type of issues and
21 answers.

22 I mean I recognize that as this whole
23 process evolves there's certain things that were not
24 thought of in the beginning in the rule that have
25 come up that need to be addressed. And I just want

1 to reinforce the fact that, you know, we need to do
2 everything possible to fix those things so that we
3 don't have a lot of black holes that complicate
4 things as we go down the pike, you know, on making
5 claims.

6 One of the other issues deals with -- let's
7 see here. My concern over the fact that Fernald was
8 unfortunate that we didn't get ourselves as --
9 identified as part of the original cohort groups,
10 such as Paducah and Piketon. And in lieu of that,
11 it leaves us in a position to possibly explore what
12 is now before us, which is the Special Exposure
13 Cohort, those particular avenues. And one of the
14 things that bothers me a little bit is that the
15 rule-making or the guidelines, if I'm expressing
16 that correctly, that was set forth for the original
17 cohort groups, that those same things are not true
18 for that of the Special Exposure Cohorts, and so I
19 have some concerns relative to the equity in that
20 process. That's about the best way I can explain
21 that I think we've talked a little bit about it here
22 this morning in detail, but I want to reiterate
23 that.

24 And then I guess in part of that thought
25 process comes the issue that Mark touched on

1 relative to, you know, the endangered -- the
2 definition of an endangered health. There seems to
3 be some complicities (sic) there, in my mind,
4 relative to how we're going to approach, you know,
5 defining that with respect to maybe dose
6 reconstruction of the individual and possibly what
7 that might be -- you know, for the site or something
8 to that effect. It's difficult for me to talk to
9 that somewhat in detail, but I think Richard's
10 touched on it, as well as we've addressed that issue
11 here this morning. And I just, once again, want to
12 reiterate those two particular areas that we need to
13 work on for good clarification.

14 One of the other things that came to my mind
15 this morning in some discussion and it came up a
16 couple of times, and I'd like to touch on it again.
17 Let me grab my notes here. There was -- you know, I
18 had asked -- I was writing down some questions I
19 asked -- I asked myself a couple of questions I
20 guess I really knew the answer to, but let me just
21 read those. I said to myself here, you know, some
22 questions.

23 I said in doing the dose reconstruction, is
24 the only category of collected data, you know, that
25 of consideration for doing the reconstruction would

1 be that of just exposure records. Well, I got to
2 thinking about that and said now, Bob, that's -- no,
3 there's other things that are considered, as well.
4 And then it posed a question in my mind, you know,
5 does the nature of where you worked in an operation
6 and what maybe the individual did and what they were
7 exposed to, does that have bearing on the
8 development of the dose reconstruction? And the
9 answer to that is well, yes, it does.

10 Then my thought process went to the
11 questions that were generated or the conversation
12 that was generated this morning under the issue of
13 -- let me think here a second -- the memorandum of
14 agree-- I mean memorandum of understanding relative
15 to what are we going to do about DOE and getting
16 additional information, and what is that information
17 going to be limited to. I think you've heard me
18 speak a few times in the past over my genuine
19 concern about the record-keeping processes,
20 especially with respect to the record-keeping
21 processes -- well, wait a minute, let me back up.
22 Maybe not the record-keeping processes, but the
23 retention of records at some of these sites, and
24 especially of those sites who are kind of on the
25 short list.

1 Now by the short list, I mean sites that are
2 destined for closure in the near future. At one
3 time here for a while there was this moratorium on
4 the disposal of records, and I think I mentioned the
5 last time that that moratorium has been lifted. Now
6 a lot of those records are going to be on processes
7 that we did at the site, the various types of, you
8 know, things that went on -- you know, where the
9 people worked, what they did. I was hoping that
10 something that might be generated in addition to
11 maybe a special letter which you folks indicate that
12 maybe you should write to the DOE or Congress
13 addressing the memorandum of understanding relative
14 to information, that we might address the fact that
15 maybe they should reimpose a moratorium on these
16 records. Because as these sites close, it's going
17 to be really, really hard to find these things.
18 Without a moratorium, they can ship that stuff off
19 to anyplace and it just gets hidden in a -- you
20 know, in the closet. And then you have information
21 that you may need, other than just the medical
22 records on the individual to make certain decisions,
23 obtaining that information gets only that much more
24 difficult when you don't have availability to those
25 records. And I have a big concern over that and was

1 disappointed in the fact that they have lifted that
2 moratorium. So I would like to reiterate that
3 aspect for your consideration and whether or not you
4 would like to address that in your letter or if it
5 ties into that or if it's something you should
6 address, you know, independently, you know. Because
7 Fernald's probably going to be one of the first
8 sites, other than Weldon Springs, that's going to be
9 what we call, you know, a closure site that's come
10 to completion. We have a lot of retired employees
11 right currently and, you know, and as these things
12 -- as these issues crop up and these applications
13 become more familiar with the employees and that
14 they make application, you know, for compensation,
15 the record issue might get real muddy. So I wanted
16 to reiterate that.

17 So other than that, I believe I don't have
18 any other comments for today. At least that's what
19 I've jotted down.

20 **DR. ZIEMER:** Thank you very much. Again,
21 let's see if we have questions -- yes, Tony?

22 **DR. ANDRADE:** Seems we don't have enough
23 microphones to go around the table. Sorry about
24 that, Bob.

25 **MR. TABOR:** Okay.

1 **DR. ANDRADE:** Bob, I haven't been --
2 truthfully, I haven't been keeping up with what's
3 going on with moratoriums on -- moratorium on
4 records-keeping. Do you know if this permits sites
5 to actually destroy records or is it directing sites
6 to send records to other facilities?

7 **MR. TABOR:** I'm not certain. It's not
8 really totally clear in my mind. Moratorium means,
9 you know -- in my mind means don't do anything with
10 them, in the sense of like destroying, or you have
11 to keep what you've got. I think when they lift the
12 moratorium, exactly what the total guidelines are on
13 what you can do with the records, quite frankly, I'm
14 not so sure the DOE has developed a true, pure, good
15 set of guidelines on what you can get rid of and
16 what you can't.

17 Now let me give you just a far-fetched
18 scenario. I think that probably you could destroy
19 maybe cash register receipts from the cafeteria, and
20 that wouldn't be any big thing. And they're not
21 going to -- whew -- put that stuff out someplace in
22 a big vault. But then there's this other set of
23 delicate records that will have a greater meaning,
24 you know, to -- you know, to our future citizens or
25 our future society, certainly may have a greater

1 meaning to an organization like ourselves and the
2 processes that you're involved in. I don't know
3 exactly what their rule-making is going to be on how
4 they're even going to approach this.

5 I've had some discussion with some higher-
6 ups, at least at the field level, asking them since
7 the moratorium has been lifted, what are your
8 guidelines for how you're going to go about this, if
9 you have a plan, and what specific records. Quite
10 frankly, my impression is is I'm not so sure that
11 they have guidelines in place to say you can do this
12 to this extent or you can do that to that extent.
13 I'm not really sure about that, if you want to know
14 the truth. But I have concern about it because my
15 impression is okay, if a moratorium is lifted, then
16 begs the question what you're just asking, just what
17 can you get rid of. And even to complicate things
18 more, what you may retain, where's it going to go.

19 **DR. ZIEMER:** We have a comment from Larry
20 and then from Bob.

21 **MR. ELLIOTT:** The moratorium on destruction
22 of records for epidemiologic purposes has not been
23 lifted.

24 **MR. TABOR:** That is correct.

25 **MR. ELLIOTT:** It is still in place, and so

1 in that regard, any system of records that has use,
2 utility, benefit to epidemiologic studies and the
3 understanding of exposure associated with health
4 outcome, are protected. And NIOSH has, in the last
5 12 years, a long history of involvement in advising,
6 arguing with, recommending to, working with DOE on
7 making sure that those records are intact and
8 retained and not destroyed. I know that the health-
9 related energy research branch at NIOSH, which I was
10 the branch chief for, has worked very closely with
11 the people who do record reviews across the sites.

12 What I think you're very accurate and your
13 point is very well-taken on, Bob, is what happens to
14 those records that are protected when a site closes
15 down, and where do they go and how do we find them.
16 And that's been our concern for a number of years as
17 to the finding aids and the systems of records that
18 are protected for these purposes and how to make
19 sure that they're not lost in a Federal archive
20 somewhere and they are retrievable and traceable.
21 And that's something we have commented on and been
22 concerned about, and I think that's where I hear
23 your point dwelling and hitting home with me very
24 strongly.

25 But the moratorium on destruction of

1 records, in my understanding -- unless you have some
2 memo within DOE I have not seen yet -- has not been
3 lifted.

4 **MR. TABOR:** Well --

5 **MR. ELLIOTT:** It's still intact.

6 **MR. TABOR:** And I agree with you there,
7 Larry. I understand that things like medical
8 records, and then you framed it as epidemiological
9 records and things like that, my impression is that
10 yes, there's not a moratorium to lift that. I mean
11 in other words, those things have to be -- stay
12 intact. But you're right, the issue is where may --
13 you might find them in the future.

14 I think that what I'm also referring to here
15 is things that might be associated that people would
16 look at or you folks may look at in developing maybe
17 probability of causation --

18 **MR. ELLIOTT:** But it's all records. We have
19 been integral in deciding with DOE what systems of
20 records -- and it's not only the medical records,
21 it's not only the dose records, we have targeted the
22 process records --

23 **MR. TABOR:** Okay.

24 **MR. ELLIOTT:** -- the processing information
25 records, the changes in historical practices at a

1 given site, employee benefit records, the PSQ's --

2 **MR. TABOR:** Okay.

3 **MR. ELLIOTT:** -- we say don't destroy those
4 --

5 **MR. TABOR:** Well, maybe that's not been
6 clear to us in the past, but those are the things
7 that I have concern about, you know --

8 **MR. ELLIOTT:** And if you go --

9 **MR. TABOR:** -- process records.

10 **MR. ELLIOTT:** If you go into DOE's routine
11 use authority under the Privacy Act that gives NIOSH
12 routine use authority to access those records,
13 you'll see a long list of systems of records. And
14 those systems of records, by their nomenclature,
15 will give you an indication of the variety of
16 information that's protected. And it's not only
17 just medical and dose, it's a long whole list of --
18 there must be -- I recall like 27 different systems
19 of records that we said we need to see. And we had
20 to make some very strong arguments for why a certain
21 system of records was important to --

22 **MR. TABOR:** Yeah, well, that would be my
23 concern.

24 **MR. ELLIOTT:** -- research and understanding
25 of exposure and health outcome.

1 **MR. TABOR:** Okay.

2 **DR. ZIEMER:** And let's see, Robert had a
3 question or a comment.

4 **MR. PRESLEY:** I agree on some of these
5 records. In the past three years that's what I've
6 worked on extensively. And I know at Paducah
7 there's stuff -- when the new company took over --
8 out the door. Or in a trailer. And we're in the
9 process of going through some of that stuff.

10 The other thing is, Larry, I think what we
11 need to do is send that letter out again, because a
12 lot of the people -- the new companies are taking
13 over. You've got the new contractors. They are
14 looking at that old data as -- this is not mine, I
15 have no responsibility. Then I put my people in the
16 records center. They don't know the difference
17 between a purchase order and a -- I hate to say it
18 -- and a medical report. Those things get shoved in
19 a box. They get sent to Atlanta with a destruction
20 date and they're gone.

21 **MR. ELLIOTT:** I think you're absolutely
22 right. I think -- you know, the point you make is
23 different than what Bob was making earlier that --
24 where the record go is one thing, but
25 acknowledgement of a contractor or the records

1 manager at a certain site, who's new to that site
2 and new to DOE's process, may not have found that
3 memo that said moratorium on destruction of records
4 for epidemiologic purposes covers these systems of
5 records. I agree, I think that would be a very
6 important thing to articulate in your letter.

7 **MR. TABOR:** Well, a reminder would probably
8 really help because the only thing that I can attest
9 to -- you know, in these closure sites where clean-
10 up is really I mean robust and it's in full swing, I
11 will tell you that going through three contractors
12 over 21 years out there that the closer you go and
13 the faster the pace gets, it is a administrative
14 merry-go-round, and I mean it is really, really
15 hard, not only to find people that are responsible
16 in those areas to figure out what's going on and
17 where things are at that particular stage in time as
18 opposed to where things were just a few years
19 before.

20 So you know, what Robert had to say there,
21 there's a lot of validity in that. I mean it
22 becomes very difficult, so maybe a reminder like
23 that would really be good and we need to keep our
24 finger on the pulse of things.

25 **DR. ZIEMER:** Thank you, Bob, for a very

1 important point that you raised.

2 Now we have one more person who has
3 requested time, and that is Mark Lewis. Mark is
4 with PACE and from Waverly, Ohio. Mark?

5 **MR. LEWIS:** Thank you. Hi. First I want to
6 thank everyone for putting the time and effort that
7 you've been putting into this. It's very important
8 to all of us nuclear workers and other people
9 throughout the country at the weapons facilities and
10 I applaud your efforts for that.

11 I have some topics I'd like to talk about as
12 pertaining to site profiles, expert groups and
13 record keeping. They all tie in together, what
14 we're talking about.

15 First of all, the site profiles. I have the
16 privilege of being the coordinator of the local
17 worker health protection program in Piketon, Ohio --
18 dose screenings some of you guys were alluding to a
19 while ago, Larry was, and the thing we found out
20 about site profiles, a lot of the records that we
21 needed to get ahold of through the plant exposure
22 records, they were either incomplete or non-
23 existent. And by getting ahold of -- we called
24 expert groups of workers, former workers -- we got
25 ahold of some former workers and we put together a

1 risk-mapping session. This risk-mapping session and
2 focus groups. The risk-mapping session where I set
3 people down at tables, give them a map and have them
4 go back -- like taking a snapshot of the past of the
5 plant.

6 We found out, just like you mentioned, some
7 of the buildings used today for certain processes
8 that weren't used for that process years ago. A lot
9 of exposures -- you'd think a building would be
10 clean. For instance, at our site we have a building
11 we have shipping and receiving in. And years ago it
12 was where they sampled high grade uranium. So
13 within the walls of that building, inside with
14 people working there, they was drilling or something
15 in the walls, the maintenance man, they would be
16 going through a space and time with some of that
17 dust could have transuranics in it or whatever, you
18 know. So we found that the workers were our experts
19 at that time.

20 We got all the records we could from the
21 plant, but that, mixed in with the workers, led us
22 to know more of what to screen for today, you know,
23 in our screening program.

24 The risk-mapping part is very important. I
25 think, you know, if you went to a site to talk to

1 somebody, you know, they'd give you all the records
2 they'd have from the company, you know, that's
3 running the facility now. But don't forget to talk
4 to some of the retired people.

5 And the dynamics of this risk mapping, too,
6 is worthwhile because you get two or three people
7 together that worked together for a while. You
8 know, you want to get like with like people. You
9 get process operators, for instance, at one -- one
10 day. Get all the people who did welding at another
11 time, and these people could be retired now -- most
12 of them were. They'd see each other and their
13 memories would click more. And the collective
14 memory of those people was more valuable to us,
15 really, than any hard data that we had. I just
16 wanted to share that with you.

17 Also, pertaining to past -- I'm just going
18 to talk about neutron exposure at our Portsmouth
19 site. There was numerous studies done at the
20 Portsmouth site -- gaseous diffusion site pertaining
21 to, you know, exposures and all. But none of them
22 ever did come back and say there was neutron
23 exposures. Our own in-house -- the union activity,
24 our safety reps and stuff, suggested that hey, we
25 had some deposits in some lines and the potential

1 could be there for neutron exposure. And we asked
2 specifically for NIOSH to come in and just do
3 neutron exposure. And sure enough, that's what they
4 found, we had neutron exposure that we weren't
5 monitored before, see, before. So you know, just
6 going by your past histories of safety studies at
7 different sites may not clearly reflect what you
8 have. I can't emphasize enough about how workers
9 could be involved in it.

10 Now a lot of you may know that a gentleman,
11 Jeff Walburn*, works at our site. The company has
12 -- I heard was mentioning earlier yesterday
13 something about maybe somebody forgot to do
14 something or whatever, but there's cases -- in Jeff
15 Walburn's case, and it's in Congressional records
16 and the company's got letters, too -- where they
17 said yeah, we zeroed your dose for liability
18 purposes. And it's in Congressional records and in
19 memos, you know. So there's a lot of vidility (sic)
20 out there, you know, saying that it was done
21 intentionally in some cases, so --

22 In my own record, I started working at the
23 site when I was 21 years old in the fire department.
24 I got into a serious exposure situation where I had
25 high grade weapons material on top of my anti-C's*

1 from the fire department. And I ran out of air,
2 went outside to get some more air in my bottle. A
3 guy unzipped my suit, all the stuff fell down on top
4 of my head -- maybe that's why I am the way I am
5 today, I don't know -- but it all fell on me and
6 eventually I got exposed real bad, you know. I had
7 no skin left on my face for a long time and I went
8 through a lot of hassle.

9 Well, in '88 I had some heart trouble and I
10 thought I'm going to go get my records and just sit
11 down and see what I was exposed to. Well, guess
12 what? There's nothing there. Nothing happened that
13 day or for them weeks that followed.

14 So I thought I wanted to at least mention
15 those to you, and that's about all I had.
16 Especially when, you know, you go to do the site
17 profiles, don't forget the retired people -- all
18 right? The retired workers and the risk mapping.
19 That's all.

20 **DR. ZIEMER:** Thank you, Mark. Let me again
21 ask if anyone has questions for Mark.

22 (No responses.)

23 **DR. ZIEMER:** Okay. Thank you for your input
24 on that.

25 Now we need to return to the topic of

1 Special Exposure Cohort.

2 DR. MELIUS: Can I ask -- sort of figure
3 where we are procedurally, I guess. We spent a lot
4 of time this morning talking about this and I'm not
5 sure where we're going in terms of getting comments
6 in to NIOSH and how you want to proceed on that.

7 DR. ZIEMER: Well, what I'll do here is
8 summarize. The working group met during the noon
9 hour, and I'll summarize where we think we are and
10 get some feedback from the Board members.

11 Just for planning purposes, Mark, does your
12 working group have some further things that you're
13 going to want to present today, or are -- I mean
14 you're not under any pressure to come to a final
15 document. You got a lot of input this morning for
16 refining and --

17 MR. GRIFFON: Right. Not for today.

18 DR. ZIEMER: -- I think you can move forward
19 with what you have, so --

20 MR. GRIFFON: Yeah, and we did mention that
21 we might want to have a conference call in the near
22 future --

23 DR. ZIEMER: Right, but --

24 MR. GRIFFON: -- to probably --

25 DR. ZIEMER: -- in terms of today's meeting,

1 I think we're okay on that. I had planned -- I
2 thought we had put in the agenda, but I'm not seeing
3 it, to at least have a little discussion relating to
4 -- how can I describe it? Let me call it personnel
5 issues at NIOSH. Actually an issue that was raised
6 by Mr. Miller and perhaps we'll have time to at
7 least discuss -- I think -- it has to do with
8 whether or not the manpower is sufficient,
9 particularly in dose reconstruction and so on. This
10 is not an item that Larry has asked me to raise. It
11 can be very -- it can be a little ticklish for the
12 Board to get involved very deeply in hiring and
13 manpower levels at the Agency, but at least some on
14 this Board have raised concern about whether or not
15 there's enough staffing to get the job done. And
16 perhaps we can at least discuss that a little bit.

17 I do want to at least get us up to date on
18 where we are on the Special Exposure Cohort. We're
19 still shooting for having comments ready by the
20 25th, I think, of August. Is that the -- or 26th.

21 **MR. ELLIOTT:** The 26th is the last day.

22 **DR. ZIEMER:** The comment deadline. So let
23 me tell you what we've done so far, kind of taking
24 all of the input from this morning, Jim's comments,
25 Mark's comments and the ones that we had prior to

1 that.

2 What we're looking at now would be a letter
3 to the Secretary which included with it a series of
4 comments relating to specific parts of the 42 CFR
5 83. Some of those were ones I described this
6 morning.

7 That is, in section 83.1 to reformat the
8 wording in the manner that Tony had suggested. That
9 would be the first paragraph on that page. Plus
10 utilizing Wanda's word for proactive, the word
11 "diligent" in identifying and assisting employees;
12 adding a section 83.2 with the wording that Tony had
13 suggested for that section in his item two. That
14 wording is that a section would be added to state a
15 cancer claimant whose dose reconstruction was
16 completed, but whose claim did not qualify for
17 compensation, cannot reapply for or use the
18 procedures for designating classes of employees as
19 members of the special cohort as a route for
20 appealing a decision, that it is not an appeal
21 process. Section 83.10, as shown on the sheet,
22 83.13 as shown, 83.15 as shown.

23 Now we then looked toward dealing with
24 specific things, and let me refer to Jim's comments
25 -- and these overlap a bit with Mark's. First of

1 all, on the first comment where Jim has recommended
2 NIOSH should modify the approach envisioned by this
3 rule to place more emphasis on the group petitioning
4 process. We note that section 83.7 actually
5 identifies both the group petitioning process and
6 the individual, so our thought here was to use the
7 preamble -- and the preamble will be reformatted, is
8 our understanding, so that there will be descriptive
9 information pertaining to the various sections. So
10 there would be a preamble that would have a portion
11 relating to section 83.7. And our suggestion here
12 is that there be language in the preamble that would
13 sound something like this, and I'll give you the
14 rough draft that the committee came up with this
15 noon.

16 Quote, NIOSH should emphasize the group
17 petitioning process, parentheses, as opposed to the
18 individual petitions, and explain or describe
19 possible types of groups that might consider
20 petitioning; e.g., a group of workers who believe
21 they have been subject to an undocumented exposure
22 at a facility.

23 So basically then -- end of quote. So
24 basically the preamble would be used to sort of
25 emphasize the group petitioning process and give an

1 example, and that might be expanded on, but that at
2 least was our initial recommendation for dealing
3 with that.

4 On the second item --

5 **DR. ANDRADE:** Paul --

6 **DR. ZIEMER:** Yes. Oh, yeah, please -- and
7 any of the working group can help out here. Tony,
8 please.

9 **DR. ANDRADE:** Just a tiny suggestion. This
10 is word-smithing, but nevertheless I think it's
11 important in light of the fact that we're not trying
12 to give higher weight to one process versus the
13 other. Instead of using the words "as opposed to" I
14 would suggest something like "vis a vis" or
15 something along those lines.

16 **DR. ZIEMER:** NIOSH should emphasize the
17 group petitioning process vis a vis --

18 **DR. ANDRADE:** The individual.

19 **DR. ZIEMER:** Okay, I gotcha. This is not
20 final wording right now. This is our draft and we
21 may have to have a conference call and at least get
22 final wording out for -- and even do a phone vote
23 later this month.

24 Now on the issue of guidelines, we struggled
25 with that quite a bit. And where we landed on this

1 was to ask -- and our comment would suggest that the
2 -- ask the staff, in the preamble again 'cause the
3 preamble is more like a guide, to add some words to
4 section (e) under -- I guess it's section (e).
5 Section (e) on page 42964, that's the *Federal*
6 *Register* page. And this would come in in the
7 paragraph that says (reading) commenters asked HHS
8 to define the conditions under which NIOSH would not
9 have sufficient information.

10 And basically, Jim, I think your question
11 was when do we know we don't have sufficient
12 information.

13 Now as we read through the preamble, it was
14 our feeling that to some extent they have described
15 this, but it may be helpful to concisely put this
16 all up front and say that by sufficient information
17 we mean incomplete information on radiation source,
18 incomplete information on processes and practices,
19 incomplete information on source terms. So it would
20 spell out what it is that we're talking about when
21 we mean incomplete.

22 There was a feeling amongst our group that
23 it would be difficult to go beyond that. If you
24 drive down to the next question and say well, what
25 is incomplete source information or what is

1 incomplete dosimetry information, we can't say it's
2 one missing film badge or it's seven or it's 25 or
3 something. So at this point we're saying the
4 guidelines would have the nature of describing the
5 types of things where the judgment is that there's
6 not enough information in this category to complete
7 the dose reconstruction. And that -- it seemed to
8 us that that would allow sufficient flexibility so
9 that it was not completely proscriptive to those
10 doing the work, but still identified for those
11 petitioning what it is that we're looking for or
12 what it is that's missing. And one could even then
13 have -- if it were an application that said are
14 these pieces of information missing from your
15 records and therefore you are petitioning on that
16 basis. So that's where we landed on that one.

17 Item three we think now is being covered
18 already by our previous section one where we are --
19 is it previous section one? Where we are asking
20 NIOSH itself to be more aggressive, formerly known
21 as proactive, more diligent in identifying and
22 assisting employees. And again we ask the Board if
23 that will address the issue, but at least that's
24 where we landed on that.

25 And then finally -- of course your item five

1 we've already covered in a separate motion, and item
2 four I think we -- we think we ended up this morning
3 as realizing that probably we can't insert the time
4 limit into this. Was that --

5 **DR. MELIUS:** Yeah, I think it's --

6 **DR. ZIEMER:** -- everybody's understanding?
7 We discussed it and so our recommendation was not to
8 include anything on that. So what I've just
9 described now is the nature of what the
10 recommendation would be and I think we'd like some
11 feedback as to whether or not -- and it would have
12 to be worded and we would do that together with a
13 cover letter and distribute that for a final vote,
14 but I want to at least get an early measure of level
15 of comfort with such comments. Or if there are some
16 major issues that remain undealt-with, we need to
17 identify those.

18 I might also add, I believe that if
19 individuals have issues that they don't -- and the
20 Board is not able to, as a group, deal with, they
21 could always be submitted as an individual's. Is
22 that not the case, Larry? Nothing prevents Board
23 members, as individual citizens, to submit comments,
24 but -- and you may want to address that. Is that --

25 **MR. ELLIOTT:** No, you're absolutely correct,

1 an individual Board member may submit comments as an
2 individual.

3 **DR. ZIEMER:** Right. We don't lose our
4 citizen privileges.

5 **MR. GRIFFON:** Paul, did the working group
6 address my -- you know, the three -- I know one of
7 them overlapped Jim's, but the other two were --

8 **DR. ZIEMER:** Let me go back to yours here
9 and see what -- you know what?

10 **MR. GRIFFON:** Ran out of time.

11 **DR. ZIEMER:** We missed -- was it the
12 sufficient accuracy issue that you're asking --

13 **MR. GRIFFON:** No, that overlapped with
14 Jim's, I think, but especially the number three, I
15 guess the endangered health question.

16 **DR. ZIEMER:** Actually, we didn't. I'm
17 sorry, I think we ran out of time and so that --
18 that does not imply that this was not important.
19 What -- and maybe we can get some feedback right
20 now. How can we handle that one?

21 Is -- I want to start -- let me ask Ted
22 first. Ted -- or maybe Jim -- Jim's there?
23 Whoever. Is it the staff's feeling that they have
24 in fact defined endangered health in a manner that
25 is fully consistent with the law? That is, it's

1 based on the law. He obviously has to answer that
2 yes. Right?

3 **UNIDENTIFIED:** He'd better.

4 **DR. ZIEMER:** But you understand -- I need to
5 rephrase the question. Have you stopped beating
6 your wife, Ted?

7 (Laughter)

8 **DR. ZIEMER:** This says the current
9 definition of endangered health relies on an
10 estimate of potential dose and expresses some
11 concerns. Does the -- we need to consider whether
12 endangered health itself is fully and adequately
13 defined in the draft here.

14 **MS. MUNN:** Well, it certainly -- I'm
15 assuming that everyone is relying on the same
16 footnote that I am for that definition, where the
17 footnote says (reading) HHS interprets the statutory
18 language, endangered the health -- see 42 USC
19 4384q(b)(2)* -- to mean there is a reasonable
20 likelihood that the radiation dose may have caused a
21 specified cancer. That's a quote from the statute.

22 **DR. ZIEMER:** That's the definition here.

23 **MS. MUNN:** Right. Since claimants cannot be
24 compensated as members of the cohort for any adverse
25 health effects other than certain cancers under the

1 relevant portions of the law. It appears to me that
2 that's defined by the law already.

3 **DR. ZIEMER:** I believe this is how NIOSH has
4 defined it, based on the law.

5 **MS. MUNN:** Based on the law, uh-huh.

6 **DR. ZIEMER:** Those words may not be in the
7 law itself. Ted?

8 **MR. KATZ:** No, no, the law used the term
9 "endangered the health". HHS had to interpret what
10 that means, and what you're reading is -- it was
11 HHS's interpretation of that. And you know, of
12 course, as Dr. Ziemer said, we believe it's
13 consistent with the law or it wouldn't have gotten
14 out.

15 **DR. MELIUS:** But are you saying it's the
16 only -- it's not the only definition that's
17 consistent with the law.

18 **MR. KATZ:** It's --

19 **DR. MELIUS:** There are other ways of --
20 wouldn't you say there are other ways of
21 operationalizing that that would be consistent with
22 that, or are you saying that's the -- this is the
23 only one?

24 **MR. KATZ:** I'm not precluding that there's a
25 possibility of another way of operationalizing this.

1 I just -- we didn't come up with it. We didn't
2 imagine it.

3 **DR. ZIEMER:** I think you could argue to some
4 extent it is driven by the law itself. I mean I
5 suppose I could argue that you could say that it's
6 -- endangerment is 50 percent or more likely than
7 not at the 50 percent confidence level rather than
8 99. I mean it's a definitional thing.

9 **DR. MELIUS:** Correct. But I'm just saying I
10 don't believe that the -- the law is very vague on
11 this and what they mean by endangerment, and I don't
12 think this is necessarily the only way that that can
13 be interpreted. In fact, I personally think that
14 they're taking a relatively narrow interpretation of
15 what is in the law and what my understanding is in
16 the background, and it certainly contrasts with how
17 some of the other Special Exposure Cohorts were
18 designated. They were designated based on a
19 duration of exposure and a question of whether or
20 not they were monitored or should have been
21 monitored -- facility, which I think sort of begs
22 the question of a level of endangerment or level of
23 risk in that. So I think there certainly -- the law
24 implies some other approaches could be utilized.

25 **DR. ZIEMER:** At the end of the day, you

1 still -- you end up having to have some criteria,
2 and it's a little difficult for me to see that you
3 could use -- that it would be proper to use a
4 criteria that's different from the criteria that are
5 being used with the regular dose reconstruction
6 'cause that's --

7 **MR. GRIFFON:** Why? Explain your logic for
8 that. Why would you think that would be improper
9 since in one case you can estimate doses but in the
10 other case you already said that you cannot estimate
11 doses, so why would it be improper to use a
12 different --

13 **DR. ZIEMER:** Because the way that they're
14 doing it here does a group estimate and caps it and
15 makes a -- it's not an individual dose
16 reconstruction, but it makes a -- it makes what I
17 would call a reasonable estimate that their dose is
18 below the same bar. You're basically saying
19 everybody in that group is either over or under that
20 -- well, let's say if they're in the cohort, they're
21 over the bar, that same bar that you're using.

22 **DR. MELIUS:** I don't interpret the
23 calculation that's being done to necessarily -- in
24 that way -- probably 'cause we have very little
25 guidance for how that will be done. I mean what I

1 find to be illogical -- I don't know if that's the
2 right term -- is just the basic fact that you're
3 doing -- you've said you can't do a dose
4 reconstruction, yet you're basing endangerment on a
5 dose reconstruction of some sort, and the -- I'm not
6 saying that's not an approach that can't be used,
7 but I think it has some fundamental problems with it
8 that concern me, and I don't think it's the only
9 approach that's -- certainly not the only approach
10 that's prescribed by the legislation. I don't think
11 this is an easy issue, either, so I'm not trying to
12 trivialize or say that NIOSH's effort wasn't an
13 effort that should not be considered by -- I mean,
14 for example, for the other -- some of the other
15 Special Exposure Cohorts, it was working one year
16 and being badged or working a job that should have
17 been badged, I think is the terminology. Now
18 concern that was is well, would there be -- would we
19 encounter other situations where people may have
20 been badged as a precaution, even though recognizing
21 that very little likelihood they would have had
22 exposure and in case would we be allowing them into
23 the cohort inappropriately. I don't know whether it
24 would be the cafeteria workers, I don't know what
25 the right example is or -- Well, in that case, one

1 could argue that one would have enough information
2 to be able to do a dose reconstruction enough to say
3 that they wouldn't qualify. Are there situations
4 where that's -- they're going to fall in between or
5 be complicated from either of these approaches?

6 **UNIDENTIFIED:** Yeah, I think it's a --

7 **DR. ZIEMER:** So even the statement "should
8 have been badged" has certain implications on both
9 nuclides and doses and so on. I mean --

10 **DR. MELIUS:** Should have been monitored, I
11 mean. Excuse me.

12 **MR. GRIFFON:** Monitored or should have been
13 monitored.

14 **DR. ZIEMER:** Oh, should have been monitored.
15 Well, either one of those.

16 **MR. GRIFFON:** Either way, yeah.

17 **DR. ZIEMER:** Yeah, so there are certain
18 implications, as soon as you do that, that there are
19 some levels.

20 **DR. MELIUS:** Yeah.

21 **MR. GRIFFON:** Right, right.

22 **DR. ZIEMER:** Mark, you had --

23 **MR. GRIFFON:** That there's some significant
24 level, right. I mean I -- just to pick up on Jim's
25 point -- I wish Jim Neton were still here, but I

1 think that we heard NIOSH's efficiency process is
2 actually going to exclude those insignificant dose
3 cases from getting over that first hurdle of
4 sufficient accuracy. They're going to be able --
5 like Jim said, they're going to be able to do an
6 individual dose reconstruction 'cause they're going
7 to make all these worst-case assumptions and they're
8 likely not to -- even with all the worst-case
9 assumptions, they're not going to trip the 50
10 percentile, they're out of the potential class
11 automatically, so that to some extent addresses that
12 concern about just putting in -- potentially opening
13 up this class for people that had very little or
14 insignificant exposures.

15 And I think the other --

16 **DR. ZIEMER:** Well, but that still is
17 dependent on that bar being at that same level that
18 you talked about earlier. They're still comparing
19 it with the probability of causation of 50 percent
20 at the 99 level 'cause they're using the same --

21 **MR. GRIFFON:** But that's for individual dose
22 reconstructions.

23 **DR. ZIEMER:** Right.

24 **MR. GRIFFON:** That's the way they do that,
25 right.

1 **DR. ZIEMER:** Right.

2 **MR. GRIFFON:** Right. I'm not sure I
3 followed your point on that. But anyway, if -- you
4 know, the other reason for arguing for this
5 definition of endangerment that's not tied to -- and
6 I agree with Jim, this is a complicated issue, but
7 the other argument for not tying it to an IREP sort
8 of approach is just -- in addition to what I just
9 said, the hurdle should catch those low ones, but
10 also the secondary thing is that this sort of
11 counter-intuitive nature, especially to the
12 potential claimants, that they couldn't do my dose
13 reconstruction but then they were -- they had enough
14 data to reconstruct the class's dose and we still
15 got booting out, you know. I can see that sort of
16 scenario playing out. And then -- you know, so if
17 you had another sort of criteria for endangered
18 health, you may get to the same end as -- and in
19 fact if your efficiency process works and you have
20 another way of defining endangered health, we may
21 end up at the same end point, but I think it would
22 at least be more understandable to the public and
23 seem less sort of counter-intuitive. I mean I still
24 am concerned about that situation where you're
25 trying to -- you're doing a sort of worst-case dose

1 for a class when you're -- when we're clearly
2 concerned about the extent to which these site
3 profiles can be built up and -- you know.

4 **DR. ZIEMER:** Yeah, Roy.

5 **DR. DEHART:** Endangering to health is almost
6 a fatal error in this document. The definition --
7 many physicians would say radiation, per se, is
8 endangering to health if you believe in the linear
9 effects, so I think the definition is a poor choice
10 to begin with. And what we're trying to do is turn
11 a -- I guess a sow's ear into a silk purse with
12 trying to box that in. It's an unfortunate
13 definition to have to deal with.

14 **MR. GRIFFON:** Yeah, but I wonder if the
15 author is -- intended that language for that very
16 reason.

17 **DR. DEHART:** Politically, it may have been.

18 **DR. ZIEMER:** Other comments? Yeah, Larry.

19 **MR. ELLIOTT:** I think when we, within the
20 staff, dealt with trying to address this issue --
21 and you're absolutely right, Dr. DeHart, this is an
22 unfortunate piece of meat that we've been given
23 that's full of gristle to try to chew and swallow,
24 we were looking for a test of reasonableness.
25 What's the test of reasonableness here? Endangered

1 the health. What dose would it take to have
2 resulted in endangered the health? And achieve a
3 balance of parity with those that would not -- that
4 would have to go through dose reconstruction where
5 dose reconstruction could be done, and I think
6 that's how we approached this. So maybe -- I don't
7 know if that helps or hinders your thinking about
8 this or not, but perhaps if you had an alternative
9 suggestion on another option for -- to be considered
10 on how to define endangered the health in this
11 regard and achieve a balance of parity in a test of
12 reasonableness.

13 **DR. ZIEMER:** Tony?

14 **DR. ANDRADE:** After going through this
15 proposed rule several times -- and there are several
16 shortcomings and we are starting to deal with most
17 of them, but this is a tricky one. Every time I
18 tripped over this particular one, in my simple mind
19 I felt that because this legislation deals with
20 special circumstances under which somebody might be
21 considered -- again, and not as an appeal, but might
22 be considered again for compensation, given that new
23 information has come to light about a facility -- a
24 facility profile, if you will, whatever that may
25 mean at this particular point in time -- about an

1 undocumented exposure which one or many people claim
2 to have been subjected to, then my proposal would be
3 to try to tie this definition to this new event that
4 could potentially have caused additional dose to be
5 added to the person's original dose. It's a simple-
6 minded way of looking at things, but it is a way
7 that a special cohort could be formed, logically.
8 I'm struggling with this even as I speak, so if the
9 experts can rebut what I said or give reasons why
10 that would not make any sense, I'd appreciate it.

11 **DR. ZIEMER:** One possibility -- I think Mark
12 has suggested, and let me read the words 'cause
13 maybe this will help us. At the very least, this
14 needs to be explained further within the regulation,
15 and it's because of the counter-intuitive issue --

16 **MR. GRIFFON:** Right.

17 **DR. ZIEMER:** -- so it may be that we can
18 raise this in the comment and indicate the concern
19 that's reflected in the Board and ask the staff to
20 explain it further within the regulation. Now I
21 don't know what that would mean in terms of how that
22 would play out unless we're at a point where we can
23 suggest what those words might be.

24 **MR. GRIFFON:** I was just going to -- I was
25 actually going to ask Tony if he could restate -- I

1 think I understood what you were proposing, but
2 could you restate that? I'm sorry, I just want to
3 follow your...

4 **DR. ANDRADE:** I'm just saying that process-
5 wise, a person may end up with a, quote, incomplete
6 dose reconstruction. However, if new information
7 has come to light with respect to a situation that
8 the person may have been in or that NIOSH has
9 identified with respect to the facility that they
10 worked in, that in itself will result in an
11 additional dose than that that was originally
12 considered in the first dose reconstruction.

13 And maybe it'll take IREP again to calculate
14 what this additional dose is, but it may be that
15 which could be defined as the additional
16 endangerment or whatever this purports to be.

17 **DR. ZIEMER:** I'm not clear, though, how that
18 helps in the definition here.

19 **DR. MELIUS:** Actually when I first
20 interpreted what you said, it actually did help me
21 and let me tell you what I thought you said, which
22 is that if you -- if you think about this, it's
23 going to deal with I guess maybe two situations.
24 One is the unexpected has been found. Go back to
25 the enrichment plants, the transuranics, we just --

1 nobody thought or not enough people thought or
2 however you want to do that, and you have a surprise
3 and what do you do? And you can't go -- you know,
4 to go back and try to recreate and reconstruct, you
5 can't, so that's one situation this should cover.

6 The second situation this should cover is
7 when there just -- it's an old facility and they
8 just weren't monitoring and -- just 'cause the means
9 weren't available at the time and maybe all the
10 records on sources aren't as good as they would be
11 now and so forth and so on, and therefore we --
12 we're just totally befuddled in trying to do a dose
13 reconstruction.

14 When I worry about the current approach that
15 NIOSH uses to endangerment, I worry about the second
16 situation, where there's just very, very little
17 information and that they're just going to be making
18 a wild guess at what -- at what would -- what number
19 you put into that endangerment calculation that
20 they're going to do. I don't think, for the
21 surprise thing where you know it's a big exposure,
22 that it probably matters. But it could be
23 problematic when there's just very little
24 information and no monitoring and no records. And
25 we really are just going to be guessing at that.

1 The opposite situation we worry about is we
2 don't want to include the trivial or non-exposure in
3 this, so how do we come up with a definition that
4 would exclude that, but not I think rely on what
5 could be an arbitrary guesstimate at what their
6 exposure should be. And maybe there's just enough
7 different situations maybe there would be more than
8 one way of approaching this. I don't know, I -- and
9 we don't have all the examples, but I do think the
10 endangerment is -- the Special Exposure Cohort is
11 the surprise exposure and just the non-existent
12 monitoring and records. And maybe if we distinguish
13 those, it helps. Maybe it doesn't.

14 **DR. ZIEMER:** Wanda?

15 **MS. MUNN:** Well, I guess I still come back
16 to the footnote again, and to the original rule-
17 making where this term, endangered the health of the
18 members of the class, is used just as it's beginning
19 to identify what bases are necessary in order to
20 establish the finding of a special cohort. And it
21 includes a finding of short-term radiation health
22 effects for other members of that class and
23 identification of radioactive materials that they
24 didn't know about before, as Jim was just saying, a
25 description of shortcomings of radiation protection

1 measures. And all of the things we're talking
2 about, it seems to me, are in the rule. And since
3 this entire law is based only on radiation-induced
4 cancers, then I guess, to me, that -- with that
5 background and what's already here -- I understand
6 that there is some concern there may be other ways
7 of defining endangered the health, but this
8 definition that's given here that NIOSH has
9 developed, in this context, appears appropriate.
10 Because what they're saying is there's a reasonable
11 likelihood that this radiation dose may have induced
12 the cancer and under these certain circumstances.

13 I guess if we have better ways of
14 identifying exactly what that means, if it were --
15 if it were further unidentified, if these
16 descriptions were not given here below, then I would
17 have the same concerns that everyone else does, but
18 -- what does endangered the health mean -- but the
19 law says we're talking about only radiation-induced
20 cancers and here are very specifics about what that
21 endangerment might have resulted from. Are we
22 beating a dead horse? I mean can we get any -- if
23 we can get any better than this that would give our
24 potential claimants broader consideration, then what
25 is that?

1 **DR. MELIUS:** I think we're saying the
2 alternative -- an alternative is, 'cause I think
3 there are probably others, also, is that it would
4 apply to a situation where NIOSH is unable to
5 complete a -- it's not feasible to do a dose
6 reconstruction with sufficient accuracy and the
7 person has worked at least one year in a facility in
8 a area where they were monitored or should have been
9 monitored, and probably would need to flesh that out
10 with some definitions by -- what means by monitored
11 or should have been monitored.

12 **MR. GRIFFON:** And I mean I keep coming back
13 to this point, but this is a two-pronged test, and
14 sufficient accuracy is the first test. And if I
15 give in on having a more precise definition of
16 sufficient accuracy -- you know, the way NIOSH
17 defines sufficient accuracy right now is they can
18 complete a dose reconstruction and -- you know, an
19 individual dose reconstruction. And we know -- I
20 mean from our review of some of our cases, we know
21 that for these likely low/low situations, to use the
22 NIOSH efficiency process they likely have low
23 exposures to internal and low exposures to external.
24 They're going to take those through and give them
25 every possible -- given the data they have -- worst-

1 case scenarios, individually test that case against
2 IREP, as they should, and those are going to drop
3 out, the very low, insignificant exposures. The
4 ones that miss -- and that's why I'm focusing on
5 it's a two-pronged test, you know, it's not -- they
6 were just trying to define endangered health in
7 isolation where -- it's a two-pronged test. They
8 have to get over that first hurdle first.

9 **DR. ZIEMER:** But they're still testing it
10 against IREP.

11 **MR. GRIFFON:** They're still testing the
12 individual dose reconstruction against IREP.
13 Correct.

14 **DR. ZIEMER:** Right.

15 **MR. GRIFFON:** As they should, as they do all
16 the time. Correct. But the class against IREP is a
17 different question.

18 **DR. ZIEMER:** Right.

19 **MR. GRIFFON:** Right. And then I'm saying --
20 you know, so you get rid of these insignificant
21 cases by their own process by that definition of
22 sufficient accuracy -- I would argue by such a broad
23 definition of sufficient accuracy you're able to get
24 rid of those insignificant or lower doses, lower
25 dose cases. They won't be in that class. They

1 won't make that hurdle. And then since you're -- by
2 not being able to calculate a dose with sufficient
3 accuracy, can't -- I mean complete a dose
4 reconstruction for these folks, I think you have to
5 kind of say if they made that hurdle that far, he's
6 -- we're really -- the data we have left, can we
7 really use that data to kind of do the -- as Jim
8 said, to kind of do this worst-case estimate to
9 compare against that bar for the class in IREP or
10 should we have just another set of criteria similar
11 to the original SEC. And so I think of it as this
12 two-pronged test.

13 And I would also have problems if I thought
14 that a lot of the -- I mean I don't think it's
15 equitable if a lot of the -- just because you can't
16 reconstruct the doses but they likely had very
17 insignificant exposures and they make it into this
18 class, that's not equitable. That's not what we're
19 looking for here. But I think we're -- the NIOSH
20 efficiency process and that definition of sufficient
21 accuracy protects against that. I think Jim Neton
22 said that to me either on the record or on the side
23 here earlier, so that's how I'm trying to grapple
24 with this.

25 **DR. MELIUS:** If I can just add, I think with

1 the current approach they're using or proposing to
2 use, that I take comfort in the fact that we're
3 going to, as a committee, be reviewing those. Those
4 will be part of the petitions that come to us. I
5 worry about how we're going to make that assessment,
6 evaluate the decisions that they've made because I
7 -- again, we don't have much information and they're
8 making a guesstimate of some sort in order to fit it
9 into this -- to these IREP calculations that they're
10 proposing, and how are we going to assess whether
11 those are appropriate to do or how do we evaluate
12 those? And I think we're going to be hard-pressed
13 -- and particularly to keep them consistent from
14 situation to situation so that we're treating
15 everyone who would fall into a Special Exposure
16 Cohort, or potentially would, in a fair manner, that
17 we're making the same assessment for a cohort at
18 Hanford that we would at one at Oak Ridge or
19 wherever. And where we'll be dealing with some
20 very, very different situations. Your laboratory
21 example we talked about this morning as compared to
22 a production facility and so forth. Where
23 admittedly we don't have enough information to do a
24 very good sort of quantitative evaluation of that
25 risk.

1 **DR. ZIEMER:** I don't know what the process
2 was on the original cohorts. I wasn't involved.
3 But someone made a determination that there had to
4 be a certain length of time and perhaps there had to
5 be some -- there had to be some indication that
6 there were certain types of materials around, even
7 if it wasn't -- people weren't monitored. So there
8 must have been at least a kind of group estimate as
9 to what potential doses might have been, like the
10 screening process, that says it's very conceivable
11 somebody could have been there and gotten more than
12 a few millirem -- pick the number. I don't know
13 where -- somebody must -- in the thinking process,
14 somebody must have had a bar that says they could
15 easily have been up here somewhere. I don't know
16 what the process was. But I mean where did these
17 times come from? They can't be completely
18 arbitrary. I mean how would they -- well, maybe
19 they are. Congress did all this without any
20 scientific input. All right.

21 No, I mean rationally speaking, there's
22 still -- whether you explicitly say that there's
23 some test, dose test or you do it more indirectly
24 and say okay, even intuitively -- I mean I think I
25 could intuitively take a number of -- say if

1 somebody's working with these things for a year and
2 we weren't monitoring them, I can guess that there
3 could have been situations where they got pretty
4 high doses. I don't know how -- does anybody know
5 how that was done and -- okay, please.

6 **MR. MILLER:** Richard Miller. I will only
7 offer you this much, that this was an administration
8 proposal when it came forward as the one year, but
9 it had been based on discussions with the Justice
10 Department about the RECA model which uses a working
11 level month criteria for compensability. And so
12 what they did was -- and they looked at the RECA
13 amendments that were done in 2000, in fact, which
14 had been passed as part of what was then S-1515, and
15 in that legislation you will see actually
16 foreshortened periods of time compared to the old
17 RECA, so they -- the one year threshold was sort of
18 -- the whole concept of using a time period, Dr.
19 Ziemer, was derived from the RECA model of
20 compensability. They used time or duration in the
21 mines or in the mills or in the shipping and
22 transfer operations as the criteria.

23 **DR. ZIEMER:** All right. But see, in
24 general, that implies -- in the radon case it's a
25 concentration times the time and you get a -- an

1 intake value, but indirectly, somebody is measuring
2 that against some standard. But I'm at a loss as to
3 where we really go with this. It's -- whether we
4 specify it in terms of time or other parameters, we
5 are either directly or intuitively saying that
6 there's some point at which there's an endangerment.
7 And maybe my endangerment level is different than
8 somebody else's, but it's somewhere there.

9 And we're sort of -- we sort of end up, I
10 think, saying it's the way NIOSH has done it, is
11 that a reasonable -- is that one reasonable way to
12 do it or is that completely unreasonable?

13 **MS. MUNN:** No, it's reasonable.

14 **DR. ZIEMER:** Obviously there's other ways to
15 do it. Is there a better way? Is there -- or is
16 the issue simply one -- but yeah, people don't quite
17 understand this, or does it make sense intuitively,
18 and I'm trying to grapple a little bit with -- I
19 think, in principle, you end up doing the same
20 thing. Wherever is you do it and draw some lines,
21 you're doing sort of the same thing. So how do we
22 do it in a way that is reasonable and also does not
23 seem, for those out there, to be black magic.

24 **DR. MELIUS:** To reiterate the concerns on
25 this one, to both, one is that it -- the current

1 proposal is, one, it's counter-intuitive. Okay?
2 Which I think poses problems with people viewing it
3 from the outside, a claimant, a group of claimants.
4 Secondly is that I think it is quite arbitrary in
5 terms of how the dose will be selected, and that
6 also is going to cause problems -- again, from your
7 -- someone applying for this program or evaluating
8 this program or for us reviewing these decisions --
9 as to how it is being applied. I think the
10 advantage of a time frame, albeit an arbitrary one,
11 is that it's understandable, it's transparent, and
12 it can be applied and we're -- you know.

13 **DR. ZIEMER:** Yeah. I was going to say that
14 certainly the counter-intuitive issue -- I certainly
15 agree with that. The other, I think, is as much
16 arbitrary -- I mean whatever time interval you
17 choose obviously is as arbitrary as any other, so --
18 so in any -- it sort of gets down to what is a
19 reasonable way to approach it.

20 **DR. MELIUS:** Just one quick thing is that
21 the 250 days has the advantage of being consistent
22 with what's already being in the law. That's --

23 **DR. DEHART:** My question dealt more or less
24 with consistency, as well. Is this the first time
25 in a rule that this has been defined this way? This

1 is the proposed rule, so if there is to be a change,
2 this is where it would have to be since it doesn't
3 -- it isn't preceded by another...

4 **MR. ELLIOTT:** I'd consider that if you
5 establish 250 days as the requirement, that might go
6 counter, in some instances where the class may not
7 have spent 250 days, or you may need more than 250
8 days to reach whatever criteria you use for
9 endangerment of health, so that's why we stayed away
10 from that. And in fact, we felt that it was
11 appropriate to say that -- and here I would like to
12 speak to -- comment about the arbitrary nature of
13 what you were talking about, Dr. Melius. I think
14 once you -- what we have not done clearly, in my
15 mind, is articulate clear and well enough what we
16 see happening here, and that is that the class
17 definition that we bring forward for the Board's
18 review would establish what the class -- the time
19 frame that would be appropriate, in our mind, that
20 would support the test for endangerment of health
21 and is appropriate for the given situation that the
22 class experienced. And I think you would see all of
23 that laid out. We don't -- we should perhaps
24 prepare a mock-up example of a class definition. I
25 don't know if that would help or not.

1 And I think there's also a hang-up here -- I
2 think Jim tried to speak to this earlier this
3 morning, Jim Neton, about if the counter-
4 intuitiveness here is based upon we can't do a dose
5 reconstruction but we can put a dose in and
6 determine whether or not health was endangered,
7 you've got to come at that just the opposite way.
8 You've got to come in from IREP and say okay, what
9 is the most -- worst case likely scenario here this
10 class experienced, which is the radionuclide most of
11 concern, and what's the most likely answer that
12 would result from that -- from an exposure to that?
13 And so you don't plug in a dose number, you plug in
14 the demographics of the class as it's defined into
15 IREP and you see what the 50 percent at the 99th
16 percent probability -- credibility limit dose is,
17 and then that's the test of reasonableness that
18 we've been talking about.

19 If that, on the face of it, looks
20 reasonable, we're going to come forward and say we
21 recommend that this class be added. But if it's not
22 reasonable, we're going to say that, as well. So
23 maybe that's where we've lost you all, or maybe
24 where we're not understanding what you're talking
25 about, or maybe passing by each other.

1 **DR. ZIEMER:** Okay, Jim.

2 **DR. MELIUS:** Yeah, just back to one comment.
3 In trying to think through this -- and again, we
4 don't know all the potential situations involved,
5 but I don't think that there would be very many
6 where there would be exposure less than 250 days --
7 a situation where you wouldn't be able to do the
8 dose reconstruction in a way that -- have enough
9 information to do that that would still pass this
10 test, as you develop it. But I'm guessing, too, on
11 that. We just don't know. So I think -- I'm not
12 real worried about the false negatives in that
13 group, but it could occur with this situation.

14 I also don't want to be -- repeat my soap
15 box speech too many times, but I think this does go
16 back to this issue which I'm going to talk about
17 some more if I'm not satisfied with how we resolve
18 this, is this whole issue of defining when we can --
19 how we're going to do these dose reconstructions,
20 when we cannot do them, how it applies in different
21 situations. And I suspect if we spent some time
22 working on that issue and then came back and we're
23 talking about this regulation and this situation, I
24 think a lot of it would be easier to -- discussion
25 would be easier for all of us. But we are dealing

1 in a vacuum and -- to a large extent 'cause we
2 haven't really -- at least I haven't -- don't see
3 the criteria there for when you will and when you
4 will not be able to do dose reconstructions. I
5 think you're starting to get away from case by case
6 in terms of the presentation, but it's still, to me,
7 very arbitrary. And I think it makes this
8 discussion that much more difficult, also.

9 **DR. ZIEMER:** Any more comments?

10 **UNIDENTIFIED:** Why don't we take a break?

11 **MR. GRIFFON:** That's a good comment.

12 **DR. ZIEMER:** It's 3:15. Let's take a 15-
13 minute break and we'll reconvene.

14 **MR. ELLIOTT:** I remind you all I need your
15 preparation time.

16 (Whereupon, a recess was taken.)

17 **DR. ZIEMER:** In order to think about
18 reaching some level of closure today, one of the
19 ideas that has arisen during the break is to perhaps
20 do two things. One is, on this issue of clarifying
21 the definition on health endangerment would be to
22 have the document that we send to the Secretary
23 indicate that at least some of the Board members are
24 concerned about NIOSH's definition. The other
25 option would be to endorse the definition and vote

1 it up or down as far as the Board is concerned. My
2 personal feeling is that it would be useful to at
3 least have our document reflect the concern of those
4 members -- and it could be a majority, actually --
5 but reflect both of those views by indicating, for
6 example, that the definition that's being used in
7 the document is of concern to some of the Board
8 members. That doesn't address the issue of exactly
9 what a better definition would be, unless we were to
10 come up with something, or those who have expressed
11 the concerns would come up with some alternatives.

12 And then the other issue, and Jim indicated
13 just before the break that he was still somewhat
14 concerned about how the guidelines are defined for
15 the issue of determination of special exposure -- or
16 determination of when you can't do a dose
17 reconstruction. And I think has a potential way of
18 addressing that, also, in the document that might be
19 satisfactory to all concerned.

20 Jim, why don't you suggest that one first
21 and then we'll back up to the other one.

22 **DR. MELIUS:** Okay. What if the Board makes
23 a recommendation that NIOSH develop a set of
24 guidelines for how they will be making the
25 determination as to when a dose reconstruction

1 cannot be adequate -- completed with sufficient
2 accuracy, et cetera, the verbiage that's in the
3 regulation and so forth, and do that -- that would
4 be presented to the Board for review. So it would
5 not be part of the change in the regulation, per se,
6 but it would be something that would come back to us
7 as a Board to review so we would better understand,
8 provide better guidance on how they do that. So
9 similar to how we've done with the dose
10 reconstruction. We have a framework that's in the
11 regulations, and then we have a -- some
12 implementation documents that we have reviewed at
13 various points. Same with the IREP.

14 **DR. ZIEMER:** And so in the document itself,
15 are you suggesting that in the preamble where these
16 sort of broad guidelines are given that there simply
17 be some words that suggest that the staff would
18 develop operational guidelines for use, and they
19 wouldn't be part of the rule.

20 **DR. MELIUS:** They would then pin -- we ask
21 them -- I think we formally ask for that in our
22 recommendations and that they come back to the Board
23 for review.

24 **DR. ZIEMER:** And there could be a sentence
25 inserted here saying that such guidelines would

1 exist, and I would simply ask Jim to construct a few
2 sentences which we would insert in that section.

3 Okay. Now back to the other issue, the
4 definition of endangerment of health, Jim, what is
5 your feeling on having a statement in the -- I ask
6 Jim and maybe Mark 'cause I think the two of you
7 have this concern. What about having a statement in
8 the document -- it might actually be in the cover
9 letter, or it could be associated with the
10 definition where -- that footnote definition, to
11 indicate at least some of the Board members are
12 concerned with that operating definition. I don't
13 know what we would do with that at that point, other
14 than --

15 **DR. MELIUS:** Well, I think if we had a
16 statement that a number of Board members or some
17 Board members -- I can talk about the wording --
18 have concerns about this definition and this
19 approach that's being proposed by NIOSH and suggest
20 that NIOSH -- and carefully review this approach and
21 consider alternative approaches, and I think we've
22 talked about one approach -- such approach.

23 **DR. ZIEMER:** I just bounce that off the
24 group. We were trying during the break to see
25 whether we could find a kind of -- I don't know if I

1 want to call it middle ground, so much as a way to
2 comment and raise the issues, particularly --
3 including those which are of concern to maybe not
4 the full group, but at least some members of the
5 group. How do the others feel about that approach.
6 Roy?

7 **DR. DEHART:** I agree with both points, but I
8 would also add that there needs to be a sentence or
9 two -- some kind of explanation of why there was
10 concern on the definition.

11 **DR. ZIEMER:** Right, and you could even
12 reference the definitions used in the other
13 legislation or the statutes, yeah. And again, Jim,
14 would you be willing to draft a few lines that we
15 could insert there and -- yeah.

16 **DR. MELIUS:** Yeah, I'll draft Mark to pull
17 something off his computer. I think he's written
18 some of this.

19 **DR. ZIEMER:** Now let me ask the group
20 overall -- and again, we're not voting today, but I
21 wanted to see if we've -- have we covered -- with
22 those two methods of handling those two issues and
23 the other ones, have we covered everything that we
24 would need to address in this document?

25 **DR. MELIUS:** Can I ask one question of --

1 **DR. ZIEMER:** Sure.

2 **DR. MELIUS:** -- Larry and -- when people
3 write in to DOE requesting records -- I'm thinking
4 in terms of the class petitions, and you have a
5 requirement that people have one of two items, a
6 letter from DOE saying those records do not exist,
7 or a report from a health physicist or dose
8 reconstructionist, I'm concerned that the burden of
9 doing the second one is a lot for people to do. If
10 they want to do it, fine. I think -- and you have
11 it as an "or". I'm worried that -- I'd like to be
12 reassured that the DOE does respond when they don't
13 -- can't find the records and say they don't have
14 this. My personal experience with FOI's is when you
15 put them into an Agency and they don't find the
16 records, you never hear from them 'cause they don't
17 find them. And those are the most frustrating ones
18 to pin them down. And I don't want people having to
19 chase after a letter saying there aren't any
20 records. It's Wanda's proving the negative.

21 **MR. GRIFFON:** And you're asking the
22 petitioner to do that.

23 **DR. MELIUS:** Yeah, and in the petition
24 you're asking them to do that. If they do it
25 routinely, where we can assure that they routinely

1 -- fine, I'm not worried about it.

2 **MR. ELLIOTT:** I can't speak for DOE, but I
3 can speak about our experience in listening to
4 claimants and in public meetings, and it runs all
5 over the board. It runs over the board from -- I
6 got my information back, I didn't like what I got
7 and I asked for more; I got it back, I liked it --
8 to I haven't heard a word. And it seems to me that
9 it varies from site to site, for individual to
10 individual. But I would also add this in my
11 response to you, that our intent in putting that
12 there was not to force -- I don't believe, and Ted
13 can correct me if I'm wrong 'cause I wasn't privy to
14 all of the discussions among staff in crafting this
15 language -- was not to force an individual claimant
16 to do one or the other or either. But if they had
17 it, it certainly added credence to their petition.

18 **MR. GRIFFON:** That's not the way it's
19 worded.

20 **MR. KATZ:** No. I mean it's a requirement,
21 one or the other. Let me just clarify, the dose
22 reconstructionist report or whatever -- I mean we
23 especially had in mind, why that's there as an "or",
24 is not for someone to go out -- and we didn't think
25 -- we didn't imagine that happening, someone going

1 out and hiring themselves (sic) someone to review DOE
2 records, but really to address the situation -- some
3 of this sort of work has been done already and
4 someone could just grab, at hand, something off the
5 shelf to make their case. And then -- I mean -- and
6 you probably want to recall, too, you made a
7 suggestion for something in addition to this, which
8 is if there have been studies elsewhere, published
9 studies, whatever, that address this lack of records
10 for certain cohorts of workers or so on. That
11 should be a third alternative. That's not in there
12 right now so you probably want to comment on that,
13 as well.

14 **DR. MELIUS:** But I guess my concern is that
15 you've made it a -- the "or" is a requirement. Is
16 required either to have the health physicist's
17 report or -- we add a third one, or this outside
18 report, or a response from DOE saying the records
19 don't exist. And if they're unable to get that
20 response, they can't apply.

21 **MR. KATZ:** Right. And the assumption we
22 made is that DOE would have to respond to them when
23 they make the request. And another assumption we
24 made is that in cases where a petitioner is having
25 no luck getting a response, we'd hear about it and

1 then we could help them -- put pressure on DOE to
2 respond to their inquiry. 'Cause I mean most
3 government agencies I thought are bound under Foyle*
4 to respond, but -- so that's sort of a revelation to
5 me that they actually can ignore a Foyle request
6 'cause that's legally binding, I thought.

7 **DR. MELIUS:** I would then -- personally, I
8 guess I would suggest for that one that they have
9 documentation that they've made a good-faith effort
10 to obtain records and were unable to should suffice,
11 rather than having them have to wait six months to
12 get DOE -- I mean I don't argue with the need for
13 them to have tried to get records if they do exist
14 and not just to flood you with petitions for things,
15 but they ought to -- you know, if they can give you
16 the letter they sent and didn't get a response in 60
17 days or whatever.

18 **MR. KATZ:** Right, and let me -- Richard just
19 reminded me that in the case of the AWE's you're not
20 -- there's no government -- there's no government to
21 be, but -- so that's a case aside, as well.

22 **DR. MELIUS:** I think we can take care of
23 that specific language. I just want to --

24 **DR. ZIEMER:** Roy?

25 **DR. DEHART:** I haven't heard that we did

1 anything regarding the storage of records. We were
2 going to comment on it, I thought, perhaps in the
3 letter. Didn't we decide to do that with regard to
4 the letter that was to be written on the MOU? The
5 issue of record storage.

6 **DR. ZIEMER:** Actually when we did the MOU
7 resolution, we hadn't talked about the record
8 storage. The record storage came up today. I think
9 that -- I think I heard that the -- Larry was
10 talking about reissuing the reminder, but -- or --

11 **MR. ELLIOTT:** Well, it's not my job to
12 reissue the reminder; it's DOE's. And I would
13 encourage you in your letter about the MOU to speak
14 to this. The storage of records, the archival of
15 records, retention of records, the moratorium and
16 resubmitting -- re-notifying across the complex that
17 there is a moratorium and these records have
18 importance -- maybe this is the leverage you really
19 should apply is not only importance for
20 epidemiologic research, but importance for
21 compensation.

22 **MS. MUNN:** Yeah, that's easy.

23 **MS. GADOLA:** Can I just address that simply?

24 **DR. ZIEMER:** Yes.

25 **MS. GADOLA:** To reiterate the importance of

1 what Larry just said and of the Board addressing
2 that issue is from hearing what I've been hearing
3 from people who have been trying to obtain records
4 in Oak Ridge. Some of the problems they have
5 encountered is that due to the storage of different
6 contractors, records are stored in different ways.
7 Some were stored under people's last names, some
8 were stored under years. Some of them they have no
9 -- not been able to locate, but they know they must
10 be there someplace. They have also found folders
11 that have pages of medical records that have never
12 been put in files because they said well, the files
13 are here somewhere but we can't find them or we
14 don't have time to find them. Some of them they
15 discovered were put in with the personnel file in a
16 different file. Like the medical file is in with
17 about three other files that pertain to personnel
18 records, then -- and other ones are in a separate
19 box that has just medical records in it. So I
20 think the more that you emphasize the importance of
21 this, the better record-keeping we're going to have
22 and people are going to get reminded. And it has
23 changed hands because there are some people that do
24 know the rules, some people that are professionals.
25 As Bob knows, you encounter some people that

1 understand the whole process very well, and then you
2 get others that don't have a clue.

3 **DR. ZIEMER:** Thank you. I think actually
4 the memo to the Secretary will probably have to be
5 limited to asking DOE to re-issue or to remind
6 people about the storage issue. This is a whole
7 additional thing on how DOE keeps its records or --

8 **MR. PRESLEY:** Right now this will be a great
9 thing, too -- Bob Presley -- because DOE is in a
10 process of trying to either upgrade or redo what
11 they do with a lot of their records. They're right
12 now in the process of redoing this, so it would be
13 wonderful to get something out on this. This is the
14 time to do it.

15 **DR. ZIEMER:** Is there a particular past memo
16 that could be referenced to the Secretary that
17 covers that, and then we can reference that and say
18 the information that -- previously issued in
19 memorandum such-and-so should be reissued? Okay,
20 thank you. Staff will run that down.

21 **DR. MELIUS:** One other issue I think we
22 talked about before. I just wanted to make sure
23 everyone agrees it should be in our comments. That
24 was from Mark's set of comments and it was number
25 two, clarify the issue regarding SEC class applying

1 for non-SEC-listed cancers. I think what we were
2 going to recommend and NIOSH said they were going to
3 do was that they were going to work out procedures
4 for dealing with these different situations. And
5 then our recommendation for these -- for these set
6 of regulations is that NIOSH review those and make
7 sure that the current regulations would not preclude
8 any approaches that might be used to deal with these
9 situations. I think that's just sort of a technical
10 legal wording issue. I don't know of any verbiage
11 right now that might be a problem, but there -- I
12 haven't looked at it from that point of view, but I
13 think we ought to make sure that gets captured. And
14 I don't think there's any objection to that.

15 **DR. ZIEMER:** What -- can you -- just so I
16 have it in my record here, what section are we
17 talking about? Is it on the regulation on the -- or
18 the definition of the class and the listing of
19 the --

20 **DR. MELIUS:** I think so, I just -- I don't
21 want to pick on Ted, but I get worried if he
22 misinterpreted or mis-spoke or got misquoted on it
23 that -- was thinking of something and I'm just --
24 just want to make sure we're not -- I just hate to
25 have to reopen the reg. just to deal with some minor

1 thing.

2 DR. ZIEMER: I think it would be the section
3 that says the individual -- if they're determined to
4 be part of an SEC class defined -- let me see. It's
5 the issue of the non-SEC-listed cancers, is it not?

6 DR. MELIUS: Yeah.

7 DR. ZIEMER: And I'm looking for where that
8 appears.

9 MS. MUNN: Well, the specified ones are
10 listed in 83 -- is that --

11 DR. ZIEMER: Specified cancers, those
12 specified cancers I guess is what we're talking
13 about.

14 UNIDENTIFIED: Is it 83.11?

15 DR. ZIEMER: Section 83.11?

16 MR. KATZ: Can I make a suggestion? I think
17 you're not going to find -- I mean I'm not sure what
18 part of the rule we need to look at hard to make
19 certain this concern is addressed. I think that's a
20 real concern that Jim raised, and I think if you --
21 if it's enough that the Board specifies that --
22 their concern that classes of employees can be
23 defined in such a way as not to preclude that sort
24 of scenario, I think that'll handle it, and then we
25 -- I mean it's going to take some serious looking to

1 see what, in the construction of this rule right
2 now, might get in the way. But I don't think you're
3 going to solve it quickly, flipping through the
4 rule.

5 **DR. ZIEMER:** So this will be a general
6 comment, not referenced to a particular section
7 right now. Thank you.

8 Anything else?

9 (No responses.)

10 **DR. ZIEMER:** Now since all of this has been
11 developed in the public meeting, can we then
12 distribute the text to everyone and the web site
13 prior to having a conference call? This no longer
14 has to go through the working group, I believe would
15 be -- okay.

16 So what I will do is collate all this with
17 the additional verbiage that is provided and we'll
18 get this distributed to everyone in preparation for
19 a conference call, the time of which we will need to
20 designate yet today. Is that agreeable?

21 Let's look right now at calendars, if we
22 could, for that.

23 **MR. ELLIOTT:** And while you're looking for
24 your calendars and your time, let me explain what
25 will have to happen here. We'll have to announce in

1 the *Federal Register* that the Board will convene a
2 conference call to deliberate and vote upon the
3 language to present your comments on this notice of
4 proposed rule-making. And we need to know today
5 which day you want to have your conference call
6 'cause we're going to have to announce that early
7 next week in order for it to be out there in time.
8 And as we did the last -- the conference call back I
9 think in February, we will allow the public an
10 opportunity during that -- to listen in on that
11 conference that you have and provide any comment at
12 that point. Anything else, Cori, that I need to
13 share with them on this? I think we -- we have to
14 -- there are some things we have to put in place,
15 like *Federal Register* notice. We'll get everybody
16 lined up on a call-in number and get that out to
17 you. But this should be the only real business you
18 should take care of that particular day.

19 **DR. DEHART:** What's the earliest date, do
20 you think, from your perspective?

21 **MS. HOMER:** From my perspective? When does
22 this have to be placed by?

23 **DR. ZIEMER:** We need to have it by the 26th
24 of August, and that's very -- probably very close to
25 the earliest date that they can -- there's not a

1 whole lot of time. Today is --

2 MS. HOMER: Okay. Let's see if we can go
3 for the 21st --

4 DR. ZIEMER: As the earliest.

5 MS. HOMER: -- or the 22nd as the absolute
6 earliest.

7 DR. ZIEMER: Okay, let's just check timing,
8 'cause we need to also get stuff out to people for
9 them to look at. How's the 26th itself, Monday the
10 26th?

11 DR. DEHART: Can you get that turned around
12 to get it submitted then?

13 MS. MUNN: I don't think you can do that in
14 a day.

15 MS. HOMER: Yeah, is it possible to submit
16 it within a day?

17 DR. ZIEMER: If we agree on the telephone
18 call -- who has to have it that day?

19 MR. ELLIOTT: It has to be postmarked that
20 day. Postmark it to the Secretary and a copy that
21 goes to the regulatory docket.

22 DR. ZIEMER: Okay, so we're better if we
23 back it up a little bit, in case there's some
24 changes.

25 MS. HOMER: What about the 23rd?

1 DR. ZIEMER: 23rd, Friday the 23rd -- bad?
2 How many -- for whom is the 23rd not feasible? Not?
3 DR. MELIUS: Not. That's --
4 DR. ZIEMER: Not.
5 DR. MELIUS: -- good for me.
6 MR. GRIFFON: Not so good.
7 DR. ZIEMER: Not so good.
8 MR. GRIFFON: The 22nd is better, but I can
9 do it if I have to.
10 DR. ZIEMER: 22nd? Is the 22nd okay?
11 MR. ESPINOSA: What time frame?
12 DR. ZIEMER: Well, in terms of New Mexico
13 time -- we won't do it at 7:00 in the morning New
14 York time.
15 DR. ZIEMER: Late morning? East coast time,
16 late morning?
17 MS. HOMER: Late morning, early afternoon?
18 MR. PRESLEY: Early afternoon would be
19 better for me.
20 DR. ZIEMER: Early afternoon? How is say
21 1:00 p.m. eastern daylight time?
22 MR. PRESLEY: On the 22nd. Right?
23 MR. ELLIOTT: About a week from today.
24 DR. ZIEMER: Is that enough time, Cori, one
25 week?

1 MS. HOMER: Yes, that'll be enough time.

2 DR. ZIEMER: Can we get a recorder?

3 MS. HOMER: Ray?

4 THE COURT REPORTER: A week from today?

5 MS. HOMER: Yeah.

6 THE COURT REPORTER: Have this ready?

7 MS. HOMER: I'm sure we can get a reporter.

8 DR. ZIEMER: No, we don't need that ready.

9 MR. ELLIOTT: No, no, you don't --

10 The conference call, can you attend the

11 conference call.

12 THE COURT REPORTER: Oh, a week from today?

13 MS. HOMER: Marie, how's your schedule?

14 MS. MURRAY: Oh, you want me on it, too?

15 MS. HOMER: Uh-huh.

16 MS. MURRAY: Hold on.

17 MS. HOMER: 1:00 p.m., how long do you

18 expect the call --

19 DR. ZIEMER: One hour.

20 MS. HOMER: Just one hour?

21 DR. MELIUS: 1:00 p.m. eastern?

22 DR. ZIEMER: Is that okay for recorders?

23 THE COURT REPORTER: Yes -- well, she's

24 checking. It is for me.

25 MS. MURRAY: Thursday's good. The 23rd's

1 not good. Well done, y'all.

2 DR. ZIEMER: So ordered. Open your e-mail
3 just before the call. No, no, we'll try to get it
4 out early in the week.

5 MR. ELLIOTT: We'll send an e-mail. We'll
6 send it via e-mail and we'll also put it on the web
7 site, and if anybody's in travel status or needs us
8 to get it to them by Fed Ex or a hard copy somehow,
9 we'll do our very best to accomplish that.

10 MS. HOMER: If you know where you're going
11 to be ahead of time, I'm sure we can Fed Ex it to
12 you.

13 DR. MELIUS: Can I ask one other --

14 DR. ZIEMER: You bet.

15 DR. MELIUS: -- quick procedural question.
16 And this is something I don't understand at all, so
17 hopefully somebody does.

18 We're talking about a number of changes to
19 this document, and you're going to be developing a
20 number of other guidance documents. You're going to
21 be dealing with the issue of how to deal with the
22 non-SEC cancers and so forth. Is there advantage to
23 having this as a -- rather than as a final rule, as
24 an interim final rule? Does that give you more
25 flexibility in terms of being able to adopt some

1 other changes and sort of notify people that you're
2 going to be working on this -- 'cause there are some
3 things that aren't worked out here yet and...

4 **MR. ELLIOTT:** Go ahead, Ted, if you want to
5 answer that.

6 **MR. KATZ:** Let me just explain what an
7 interim final rule, issuing that would do. That
8 would mean that you could operate and you could deal
9 with petitions, but that at some point in the future
10 you can produce then a final rule that changes
11 things. Now I think you're still required -- if you
12 change things substantially beyond what the public
13 has had an opportunity to have input on, you would
14 have to actually issue another interim final rule
15 because you have to give the public opportunity.
16 But -- so what it would -- the difference is, I
17 guess, if we issue a final rule now and we want to
18 change things, what we would have to issue later is
19 a notice of proposed rule-making again and then go
20 to a final rule. And the problem with that is the
21 notice of proposed rule-making is not effective law.
22 But I guess it'd be a -- you'd still be operating
23 under your existing final rule while you were doing
24 that, so you'd be changing an existing rule. So I
25 -- I'm not entirely certain, you know, what the

1 difference would be, but certainly it would allow
2 you to make changes in the future. Whether you'd
3 have to issue another interim final rule or not
4 would depend on what those changes were.

5 **DR. MELIUS:** But it just seems to me we're
6 wrestling with a number of issues that we as --
7 being NIOSH, the Board here -- trying to determine
8 this endangerment issue, how we'll make
9 determinations in terms of there not being enough
10 information, the issue of how do you do the non-SEC
11 cancers and how we fit them into rule-making. And
12 if there are advantages to doing it that way -- and
13 plus at the same time we'll be gaining -- NIOSH will
14 be gaining experience, we'll be gaining experience
15 reviewing some of these situations. I think -- I
16 can certainly see better information, more
17 information coming from NIOSH as you're starting to
18 review more petitions and recognizing different
19 situations. Ted and I were talking at the break
20 about acute exposures and which is the best way of
21 handling them under -- in terms of looking at
22 endangerment and I just think -- if there are
23 advantages like that, I think it may be something
24 that ought to be considered. Maybe we ought to
25 recommend that it be considered as a way. And it

1 would also allow things to -- claims to be
2 processed. At the same time it would sort of notify
3 people that look, we're still looking at this and
4 aren't -- you know, may make some changes down the
5 road and are still considering changes to improve
6 this process.

7 **DR. ZIEMER:** Any comments or reactions?
8 It's -- Mark?

9 **MR. GRIFFON:** Yeah, I think that would also
10 be -- I mean just the case history alone I think
11 would be helpful to all the Board. You know, we're
12 playing a lot of what-if games with different
13 scenarios and how they're going to play out. I
14 think it'd be useful for NIOSH, too, to see how this
15 definition of endangerment is going to play out and
16 how -- versus the sufficient accuracy side of
17 things. So I would think that would be helpful to
18 have it as a interim.

19 **DR. ZIEMER:** Wanda?

20 **MS. MUNN:** I don't know how I got on this
21 see-saw with Jim and Mark on the other end. But
22 aren't we in real danger of running up against time
23 and energy limitations of both the staff and this
24 Board every time we say oh, good, let's have another
25 rule-making? Aren't we really creating some

1 potentially unsurmountable problems because of our
2 concern over one or two issues that we would like to
3 have very clearly delineated that possibly may never
4 be delineated? I understand the rationale behind
5 wouldn't it be nice if we could make this an
6 interim, but I also foresee an enormous amount of
7 time and public hearings and all that being done
8 repeatedly, at great cost of both time and effort of
9 everyone concerned. I don't want to shortchange
10 anybody, but I have some real hesitation of saying
11 oh, yeah, let's just make -- let's make this the in-
12 between time and we'll think of a lot of good things
13 in the meantime and have another rule-making. It
14 seems like we're stretching ourselves and staff when
15 we start thinking of not doing this in as crisp a
16 manner as we can now. I know we're time-constrained
17 now, but I can't imagine we'd be less so later.

18 **DR. MELIUS:** I guess I would -- if I
19 understood the explanation why, it's to the
20 contrary. This allows some changes to be made,
21 certain types of changes, without having to repeat
22 the whole rule-making process, so it should, if
23 anything, save time and effort on the part of the
24 staff and everyone else involved in looking at this,
25 that there could be adjustments of this rule --

1 would allow the work to go forward, which we all
2 want. We want this to go forward. At the same time
3 it would allow some adjustments without necessarily
4 requiring a full rule-making again. Now if they're
5 going to make major adjustments, yes, that requires
6 a full rule-making. But if they're going to make
7 non-major adjustments -- which I think they may very
8 well do --

9 **MS. MUNN:** Define non-major.

10 **DR. MELIUS:** Yeah, I know. It's sort of
11 like a negative, you know, proving the negative.

12 **DR. ZIEMER:** I wonder if we could ask Ted,
13 how difficult is it to make minor adjustments in a
14 final rule, as compared -- what is the real
15 advantage of an interim final rule, other than the
16 nomenclature is --

17 **MR. KATZ:** Well, the final rule -- I mean I
18 suppose it's not that hard if it's just a most minor
19 technical adjustment, you can issue that pretty
20 readily. But really otherwise, a final rule, you
21 can't make changes without giving public notice and
22 going through rule-making again. So again -- and I
23 can't -- sorry about this negative bit thing here,
24 but I can't tell you what the bright line is for
25 what is substantial changes to the rule that the

1 public would not have been able to foresee, but I
2 think there's language along those lines, really,
3 that the public has to be able to sort of foresee
4 how the changes arose out of what they were privy
5 to, so -- that would trip it otherwise. So if you
6 don't trip that line, then you can go from an
7 interim final rule to a final rule that has changes
8 in it, but they're just foreseeable changes, I think
9 -- changes that arose out of what the public had to
10 consider and the Agency had to consider previously.

11 **DR. ZIEMER:** It sounds like either way if
12 the changes are substantial, then you still go
13 through a much more extensive process. If the
14 changes are not substantial, you don't have much
15 process either way. So how does it differ?

16 **DR. MELIUS:** The advantage is -- I think the
17 advantages -- I mean the technical change to the
18 final rule are really minor things. You change the
19 name of the Agency, and even sometimes that's gone
20 to announced rule-making, but I think it's little
21 technical things like that, or the decimal point
22 missing or whatever -- you know, something like
23 that. What we're talking, if there's adjustments to
24 the rule that have been part of the public comment
25 and have just taken some more experience to be able

1 to decide which is the best way to go and then you
2 don't have to go through another process. So it has
3 advantages for -- I hate to use this -- moderate
4 changes as opposed to really minor.

5 **MR. ELLIOTT:** Well, I'm coming at this from
6 a perspective of having to talk to the Secretary's
7 office about this, and I know there's a considerable
8 interest in the Office of the Secretary to put this
9 in place to address the concerns of people across
10 the weapons complex about wanting to petition. I
11 would suggest to you that -- I don't know, I'm not
12 saying this is what the Secretary would do, but I
13 think the Secretary has some very conservative
14 counsel that would speak in his ear and say until
15 there is a final rule, you should not make a final
16 decision on a petition. So if you're operating
17 under an interim final rule and we need to be
18 careful and cautious here about adding a class that
19 we may wish we hadn't have added or it may not have
20 been -- we have to go back and revisit that each
21 time for everything that was -- every petition that
22 came forward under the interim final and we took
23 action upon.

24 I think that you have addressed this issue
25 by making the recommendation about operational

1 guidelines. I think that's where -- I'm enthused by
2 that. I think that's the appropriate place to
3 handle these different changes that come forward.
4 Those things -- those are the operational guidelines
5 that you would see, you'd react to, you'd work with
6 us on, and that's where we can -- I think we can
7 gain some ground. But if you go forward, you want
8 to go forward, that's certainly your prerogative as
9 a Board to go forward with a recommendation. But I
10 would just ask you to consider what you might be
11 facing with the Secretary making a decision on a
12 petition under an interim final.

13 **DR. ZIEMER:** I guess I would also be
14 concerned about the public perception of an interim
15 rule and what the implications of that might be with
16 respect to how claims are handled, that it's kind of
17 the picture that well, the system really isn't ready
18 to go yet so how do I know my claim is really going
19 to be handled the way it would or should be. I
20 don't know what the perception would be out there.
21 It may or may not be.

22 An interim final rule -- we're hearing a lot
23 of -- you know, people are dragging their feet
24 getting this system in place. It sounds like -- it
25 sounds like the Agency's dragging along again.

1 That's what I'd be concerned about.

2 **DR. DEHART:** Roy DeHart. I think the
3 potential downside from the political perspective
4 could be severe here if they decided not to start
5 allowing us to review petitions. We can't afford
6 that. We can't -- we can't be seen by the claimants
7 as being obstructive. We've got to move forward, I
8 think.

9 **DR. MELIUS:** I think we can couch our
10 recommendation -- we're making a recommendation.
11 They can consider it. They -- it can be outweighed
12 by counsel's advice that the Secretary shouldn't
13 make a designation until they've got a final rule in
14 place. We've gone from -- this was guidelines to
15 regulation, and I -- so who knows where the right
16 place to stop is and I think we put forward -- it
17 has some advantages. If it has a serious downside
18 like that, then I would hope that the Secretary
19 would not listen to us. I suspect the Secretary
20 wouldn't listen to us in that case. But we don't
21 know that and I think Larry's speculating, probably
22 on more facts than I have and more experience with
23 this, but let's -- if it would help. I don't think
24 it's -- if it's -- people see that things are being
25 processed, then it won't be a perception issue. If

1 it's -- holds up processing, yeah, obviously people
2 are going to be concerned. If anybody sat here and
3 listened to us today in trying to -- wrestling with
4 all this stuff, they'd probably be glad we get
5 anything recommended and out, so...

6 **DR. ZIEMER:** Further comments on this?

7 (No responses.)

8 **DR. ZIEMER:** Again, I think this is one
9 where there's a little bit of a split and the
10 possible solutions would be either, one, to vote it
11 up or down, or two, to indicate in the cover letter
12 that some of the members have suggested that the
13 interim final rule process be considered. Is
14 that --

15 **DR. MELIUS:** Yeah, I think that's proper.

16 **MS. MUNN:** I'd prefer to vote it up or down.

17 **UNIDENTIFIED:** Make the motion.

18 **MS. MUNN:** I move that we vote up or down.
19 I would prefer that this become a final rule.

20 **DR. ZIEMER:** That's sort of two motions.
21 Are you making a motion that we vote on this issue
22 or are you making a motion that -- what is your
23 motion?

24 **MS. MUNN:** I move that we vote on this
25 issue.

1 **DR. ZIEMER:** Okay. And is there a second to
2 that?

3 **DR. MELIUS:** Well, are we going to vote on
4 it today or at the telephone conference call?

5 **MS. MUNN:** No, now.

6 **DR. ZIEMER:** The motion is to vote on this
7 now as to whether or not it appear in the document.
8 Is there a second to that motion?

9 (No responses.)

10 **DR. ZIEMER:** I hear no second. So do I
11 interpret that to mean that the others -- I don't
12 know fully how to interpret that at this point.

13 Tony, did you -- are you making a motion?

14 **DR. ANDRADE:** Yeah, I'd like to make a
15 motion here. I'd like to be as specific as I
16 possibly can be. I'd like to move that we vote up
17 or down on whether the rule go forward.

18 **DR. ZIEMER:** As a rule?

19 **DR. ANDRADE:** As a rule, with
20 recommendations sent to the Secretary that have been
21 adopted today. However, and this may be a different
22 motion, with respect to the two -- I believe two
23 issues that exist, that those issues be taken care
24 of in language to be adopted in either guidelines or
25 a preamble to the rule that will go forward. It's

1 complicated. It's a complicated motion, but it's --
2 I think it handles everything all at once.

3 **DR. ZIEMER:** As I understand the motion,
4 which is not yet seconded, it's a motion to adopt
5 all of the items that we've previously discussed,
6 although we don't have the wording before us, which,
7 if adopted -- I'm not sure what that does and we
8 still are going to need the wording, right, for --
9 and we had already agreed to a meeting at which we
10 would vote on this, but nonetheless, your motion is
11 to adopt now those items that we had previously
12 discussed. Is that -- and that did not include this
13 issue of interim rule or was that part of that?

14 **DR. ANDRADE:** What is the best way to
15 proceed?

16 **DR. ZIEMER:** All you've covered is
17 everything but the interim rule, because the other
18 items I think we've agreed on how we're going
19 forward. We haven't agreed on the interim rule
20 issue, so your motion would be to basically adopt
21 the others. I think we still need to refine the
22 wording though.

23 **DR. ANDRADE:** Okay. Then let's take it step
24 by step. In which case, I move that we do not
25 pursue a path that includes an interim final rule.

1 **DR. ZIEMER:** Okay. The motion to not pursue
2 a path that includes an interim final rule is
3 essentially a motion not to say anything in the
4 document to the Secretary about an interim final
5 rule. Is that -- is that the motion?

6 **DR. ANDRADE:** That's the motion.

7 **MS. MUNN:** Second that.

8 **DR. ZIEMER:** And that's seconded. Now
9 discussion on that motion. Mark?

10 **MR. GRIFFON:** Well, I mean I think several
11 Board members have addressed this as a possible --
12 this sort of resolution -- potential resolution to
13 this problem of operating in a vacuum of how these
14 cases or how these petitions are going to fall out.
15 And I think that's -- that's part of the reason --
16 and actually Henry Anderson at the last meeting made
17 this as a recommendation -- or I don't know -- you
18 know, not a formalized recommendation, but he
19 brought this concept up of a possibility of an
20 interim final rule, so I think a number of us feel
21 that that might be -- and you know, understanding --
22 and I agree with what Jim pointed out, that you
23 know, these -- if there's downfalls, then the
24 Secretary's going to consider both sides and, you
25 know, make that decision. But there is at least

1 some up side to it. We feel there could be some
2 benefit to that, or some members feel there could be
3 some benefit to that.

4 **DR. ANDRADE:** That's precisely why I'm
5 calling for a vote.

6 **DR. ZIEMER:** The vote -- if you vote yes,
7 that will mean that the document does not say
8 anything about an interim rule. If you vote no,
9 that provides, if desirable, an opportunity to state
10 that some members have this concern.

11 **DR. MELIUS:** I have a -- yeah.

12 **DR. ZIEMER:** It would not necessarily have
13 to be a recommendation.

14 **DR. MELIUS:** I guess I have a procedural
15 concern about our committee. We've operated by
16 consensus and by adopting documents that reflect
17 that consensus and not by voting on individual
18 recommendations. And I think we're in a little
19 awkward spot here because we had -- led to believe
20 there would be a conference call -- a document
21 produced and that we'd be reviewing and voting on --
22 agreeing on -- or reaching -- trying to reach
23 agreement on particular language, and we really
24 haven't completed that process. And just sort of
25 changing our procedures and our approach and sort of

1 -- certainly has some implications for how long the
2 conference call will be a week from Thursday.

3 **DR. ZIEMER:** The Chair is going to call a
4 five-minute comfort break while you chat amongst
5 yourselves.

6 (Whereupon, a recess was taken.)

7 **DR. ZIEMER:** Are we all comfortable again?
8 Before we were so rudely interrupted by the Chair, I
9 think that -- I think to some extent, Jim, what I
10 heard you saying, through my discomfort, was that a
11 sort of plea for operating on this issue in a
12 similar manner to some of the others and maybe
13 allowing the document to the Secretary to suggest
14 that at least some members suggest that the
15 Secretary consider this as a possible path to take,
16 but if that were done, it would not have the weight
17 of being a recommendation of the full committee but
18 would at least raise the issue, I think is what you
19 --

20 **DR. MELIUS:** I think that's correct. That's
21 fair to --

22 **DR. ZIEMER:** And so I guess I'm interpreting
23 what the outcome of a vote, if a vote is yes, to
24 sustain the motion, then the note to the Secretary
25 would not mention this issue. A vote to defeat the

1 motion would keep the door open for what you're sort
2 of requesting, and that is to allow this to be
3 mentioned as a sort of -- I don't know, minority
4 report or something like that, or at least --

5 **DR. MELIUS:** Well, I'm trying to avoid
6 minority --

7 **DR. ZIEMER:** No, no, no, it wouldn't have
8 such words, just say some of the members have
9 suggested.

10 **DR. MELIUS:** Right. Much as we've tried to
11 make sure members who aren't here are available and
12 get to participate and review things, I think this
13 is similar to what's -- it should try to reflect
14 what the committee has talked about. And there may
15 be times when we do need to vote on these issues. I
16 don't want to preclude that 'cause that's a way of
17 evaluating how we -- what we believe and so forth.
18 But at the same time I think if we can deal with it
19 sort of through the wording and sort of reflecting
20 what we've recommended, I think -- I'd prefer that,
21 but --

22 **DR. ZIEMER:** If the motion were defeated,
23 the issue would arise in the final document again in
24 terms of the wording itself. Tony?

25 **DR. ANDRADE:** I just wanted to say that I

1 have no objection to continuing the discussion. And
2 what I'm proposing here is really a two or three-
3 step process that will be followed. Number one is
4 determining whether this body believes that there is
5 value-added in holding -- or standing up an interim
6 final rule. That's step number one.

7 Step number two is to have our telephone --
8 our teleconference, during which time we will
9 discuss the final language that we will be
10 suggesting for the final rule, whether it exists in
11 the preamble or in the body of the rule itself. And
12 perhaps at the same time people will have thought
13 through some of the questions that have been brought
14 to -- brought up on the floor and maybe we'll have
15 -- or somebody will have a clearer definition from
16 the staff or from among our body.

17 Or we will decide at that time -- which
18 might be step number three -- to address these I
19 think last two issues that we're grappling with,
20 which are difficult, but nevertheless I think
21 handleable in the long run. For example, in
22 guidelines that will be developed or some other
23 vehicle.

24 So again, I'm not proposing to break up the
25 way we've normally done business. It's just that

1 the only path forward that I can see at this
2 particular point so that we can move on, allow NIOSH
3 to begin its work as quickly as possible, and for us
4 to get as much of those things that we are in
5 consensus about into the rule as quickly as
6 possible, is to go down this path --

7 **DR. ZIEMER:** To the final rule.

8 **DR. ANDRADE:** -- to the final rule.

9 **DR. ZIEMER:** Okay. Are you ready to vote on
10 the motion?

11 **MS. MURRAY:** May I ask for clarification on
12 the two issues, whether it's an interim final rule
13 or not? Those are the two issues? What are the two
14 issues?

15 **DR. ZIEMER:** The motion is to whether or not
16 this committee would include in its recommendation
17 to the Secretary that he consider issuing this as an
18 interim final rule or not. The motion was that it
19 be issued as a final rule, so voting yes for the
20 motion is to preclude its being discussed in the
21 letter as an interim.

22 **MS. MURRAY:** Gotcha. Thank you.

23 **DR. ZIEMER:** Is that everybody's
24 understanding? So if you vote yes for the motion,
25 you are voting to identify it as the final rule, in

1 which case nothing is said to the Secretary. Voting
2 no doesn't -- it doesn't preclude stating that some
3 members suggest it be issued as a final rule. Okay.

4 All who favor the motion, say aye.

5 (Affirmative responses)

6 **DR. ZIEMER:** All who oppose the motion, say
7 no.

8 (Negative responses)

9 **DR. ZIEMER:** Okay, I'm going to call for a
10 show of hands, so all in favor, raise your hand.
11 One, two, three, four in favor.

12 All opposed, raise your hands. One, two,
13 three, four. The Chair votes against the motion.
14 The motion dies -- or is not carried.

15 Okay. Now I think we're back to where we
16 were. We will vote on the full document at the
17 telephone conference. I will ask Jim for an
18 additional sentence or two on that interim rule
19 issue. You still have an opportunity to wipe it
20 out, if his words aren't good enough, at the final
21 vote.

22 The time of the next meeting. Actually
23 there is one other item that -- there's housekeeping
24 issues. Maybe I will ask that we at least have on
25 the record this item that was raised by a member of

1 the public raising concern about the -- not by a
2 member of the public today, but by a member of the
3 public in an e-mail to me -- concern as to whether
4 NIOSH had sufficient staffing to actually handle the
5 workload that is before them. This is a little bit
6 difficult forum to discuss that because if you ask
7 any manager in a Federal facility if they need more
8 staff, that's an automatic yes. But on the other
9 hand, it could be discussed in the framework of what
10 the Board sees as the workload and a little bit of
11 feeling now, at least by the working group, is the
12 staffing level. And knowing that a contractor is to
13 come aboard soon and help with the real dose
14 reconstruction -- I guess I will only ask the Board,
15 are you concerned about the workload and the
16 staffing levels, from what you see?

17 **DR. MELIUS:** Yes.

18 **DR. DEHART:** Yes.

19 **MR. GRIFFON:** Yes.

20 **DR. ANDRADE:** Definitely.

21 **MR. PRESLEY:** Definitely.

22 **DR. ZIEMER:** Let the record show that
23 virtually all the Board members expressed some
24 concern about the staffing levels.

25 Now do I interpret that to mean that you all

1 feel that there's too many staff members?

2 (Laughter)

3 **DR. ZIEMER:** There is a general concern
4 amongst the Board that the staffing may be pretty
5 minimal for the job that's ahead. I'm not sure that
6 it's appropriate for us to raise this with the
7 Secretary as an issue at this point because I don't
8 know that we have all the facts in terms of what the
9 workload is. Perhaps when the contractor comes
10 aboard very soon, we will have a better feel for
11 this and can address it in the future. I at least,
12 as a starting point, wanted to have it on the
13 record. And perhaps we would even put it on our
14 little action item as something we want to look at
15 on an ongoing basis to make sure that the staffing
16 level is sufficient to carry out the mandate of what
17 is before you.

18 Again, I want to make it clear to everyone
19 that Larry has not had any contact with me on this
20 issue to ask me to raise this. This has come from a
21 completely different source, member of the public,
22 and I just wanted to at least see if that reflected
23 everyone else's sort of perception of the issue.
24 Anyone have any particular additional comments along
25 this --

1 **DR. MELIUS:** Given the hour, I will try to
2 make this very short, is that I think I would ask
3 for the agenda for the next meeting to include an
4 update on hopefully the contract's awarded, how that
5 contract's going to be managed, how we stand in the
6 claims process and what we foresee -- the staff
7 foresees down the future to -- in terms of handling
8 this program so that we can have some discussion.

9 **DR. ZIEMER:** Thank you. Okay,
10 administrative housekeeping. Cori, what items do
11 you have for us?

12 **MS. HOMER:** Well, most of you have at least
13 sent in a voucher and it's been prepared. Not all
14 of you have been reimbursed. I think there's one
15 that I received --

16 **DR. ZIEMER:** Previous meeting, right?

17 **MS. HOMER:** From the previous meeting.
18 There is one I received and was not able to get to,
19 as it got to my desk the day before I left.

20 Salary issues, if anybody has not been paid,
21 please let me know.

22 One more item 'cause the fiscal year is
23 closing. I need your vouchers mailed back to me as
24 soon as possible. I must have them on my desk
25 within two weeks. We have to file an annual report

1 and that has got to be compiled -- the costs of the
2 Board, including travel, has to be compiled prior to
3 that report being prepared.

4 Also, roster changes. If any of your
5 information has changed on the roster, if you would
6 like to switch addresses from your home to your
7 office or vice versa, please let me know so that I
8 can update the agenda.

9 And if you haven't already done so, please
10 let Larry know -- write down your time, preparation
11 time and outside time getting ready for either the
12 work group and/or the Board meeting, and let Larry
13 sign off on that and give it to me so I can submit
14 it for salary payment.

15 **DR. ZIEMER:** Okay. Thank you.

16 **MR. ELLIOTT:** I would like to add to Cori's
17 list that if your employment status changes or
18 anything on your OGE-450, you know what that thing
19 is; that's your declaration of conflict of interest
20 issues, we need to call for that again. So if any
21 employment change happens or anything changes that
22 would reflect upon that form, please file a new form
23 and call me and we need to discuss it. Thank you.

24 **DR. ZIEMER:** Now time of the next meeting.
25 We had blocked off -- at least according to my

1 calendar -- October 15 and 16 as a possible date. I
2 think we had a back-up date, also.

3 **MR. ELLIOTT:** I think we had 14, 15 and 16.

4 **DR. ZIEMER:** And November 18th and 19th was
5 also blocked off.

6 Okay, October 15th and 16th is basically two
7 months from now. We are assuming, I think, that the
8 dose reconstruction -- or the contractor will be up
9 and running by then. We have some items on our
10 master list to address. We have perhaps some dose
11 reconstruction groups to be underway, perhaps, and
12 test out the system and so on. Is October still
13 good?

14 I had a note in my book that we were
15 thinking about meeting in Santa Fe. Is that still
16 good for y'all? Richard say oh, yeah. And do we
17 know logistically, Cori, or staff, is that --

18 **MS. HOMER:** I actually have checked into a
19 couple of sites --

20 **DR. ZIEMER:** Okay, so that's --

21 **MS. HOMER:** -- independent contracts on that
22 basis.

23 **DR. DEHART:** Was there a holiday problem?

24 **MS. HOMER:** Yes, it was a government holiday
25 on the 14th.

1 DR. ZIEMER: On the 14th.

2 MS. MUNN: Columbus Day. It doesn't keep me
3 from traveling.

4 DR. ZIEMER: Is it a major problem?

5 MR. ELLIOTT: It's not a staff issue.

6 DR. ZIEMER: Right. Then we will proceed
7 with those dates for Santa Fe. It appears to be
8 still clear on everybody's calendar. I think we'll
9 have plenty of items to address at that point.

10 Do you anticipate, Mark, that any of the
11 working groups would meet ahead of that or --

12 MR. GRIFFON: The panels? No, we won't have
13 a -- I mean we're hoping that we -- at least by
14 conference call -- start to resolve and start the
15 procurement process --

16 DR. ZIEMER: The procurement process and
17 maybe --

18 MR. GRIFFON: I doubt that we'll have --

19 DR. ZIEMER: Okay, but you can work --

20 MR. GRIFFON: Right, right.

21 DR. ZIEMER: Okay. Any other comments on
22 that? Then we'll proceed with that schedule,
23 develop the --

24 UNIDENTIFIED: And the dates are?

25 DR. ZIEMER: The actual meeting dates would

1 be the 15th and the 16th, so many will have to allow
2 the 14th for travel and the 17th for travel.

3 We do have on the agenda one last
4 opportunity for any other public comments. I have
5 not received notes that there -- oh, Bob? Okay,
6 thank you. Bob, please proceed.

7 **MR. TABOR:** Can I do that from here?

8 **DR. ZIEMER:** Yes.

9 **MR. TABOR:** Bob Tabor again, for the record.
10 Folks, all's I wanted to say is one thing, and it's
11 not real specific upon me -- it's not real specific
12 about the fine detail which you're involved here.
13 It's kind of an over-arching comment. But at one of
14 the meetings I pointed out that -- do not forget
15 that we need to do the right thing right the first
16 time and do the right thing right for the right
17 reasons. If this stuff is not really clear and not
18 clean and it's not ready, I would beg you, don't do
19 it until it is. And if it requires extending or
20 whatever kind of process you go through to say hey,
21 we need more time, I think that from a worker
22 perspective I would rather wait to have something
23 right than to take and rush ahead just to show
24 progress. You know, for whatever those words are
25 worth. So if you need additional time, you know,

1 even in your public comment period, I know it's done
2 many times in the government stuff. They set a
3 date, but you find that there's a lot of interest
4 out there in a particular topic matter and people
5 will request -- we want more time to take in comment
6 on this and work through this. And I'm just saying
7 I know you're doing your very best. But you know,
8 from a worker perspective, please, do the right
9 thing right, as best you can the first time and for
10 the right reasons. And if you need more time, take
11 more time.

12 **DR. ZIEMER:** Thank you, Bob. That's
13 basically measure twice and cut once. Right? For
14 the tailors. Right? Thank you.

15 Any other items to come before us?

16 (No responses.)

17 **DR. ZIEMER:** Anything for the good of the
18 order?

19 (No responses.)

20 **DR. ZIEMER:** If not, we're adjourned.

21 (Meeting adjourned at 4:50 p.m.)
22
23
24
25

C E R T I F I C A T E

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 14th and 15th day of August, 2002; and it is a true and accurate transcript of the proceedings 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 14th day of September, 2002.

STEVEN RAY GREEN,
CERTIFIED MERIT COURT REPORTER
CERTIFICATE NUMBER: A-2102